

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
		8. Lease Name and Well No. [334841]
2. Name of Operator [217817]		9. API Well No. 30-025-52482
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [98081]
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

NGMP Rec 01/23/2024

SL

(Continued on page 2)

KZ
01/29/2024

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NWSE / 2335 FSL / 2000 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0273058 / LONG: -103.7122171 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 2620 FSL / 434 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0280399 / LONG: -103.7071635 (TVD: 11692 feet, MD: 11919 feet)

PPP: NENE / 1 FNL / 434 FEL / TWSP: 26S / RANGE: 32E / SECTION: 30 / LAT: 32.0208375 / LONG: -103.7071681 (TVD: 11882 feet, MD: 14540 feet)

BHL: LOT 5 / 50 FSL / 434 FEL / TWSP: 26S / RANGE: 32E / SECTION: 31 / LAT: 32.000352 / LONG: -103.7071393 (TVD: 11882 feet, MD: 21838 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 30-025-52482	² Pool Code 98081	³ Pool Name Zia Hills; Wolfcamp
⁴ Property Code 334841	⁵ Property Name ZIA HILLS UNIT 1932 WC	⁶ Well Number 764H
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 3,170'

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		2,335'	SOUTH	2,000'	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
5	31	26-S	32-E		50'	SOUTH	434'	EAST	LEA

¹² Dedicated Acres 608.99	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 <table><tr><td>A-FOUND 2" IRON PIPE</td></tr><tr><td>N:377,203.52' E:730,441.03'</td></tr><tr><td>B-FOUND 1" IRON PIPE</td></tr><tr><td>N:377,211.54' E:733,134.18'</td></tr><tr><td>C-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:377,224.61' E:735,795.66'</td></tr><tr><td>D-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:374,544.72' E:735,819.04'</td></tr><tr><td>E-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:371,879.35' E:735,833.03'</td></tr><tr><td>F-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:371,894.62' E:733,169.03'</td></tr><tr><td>G-FOUND 2" IRON PIPE W/ CAP</td></tr><tr><td>N:371,509.34' E:730,486.74'</td></tr><tr><td>H-FOUND 1" IRON PIPE</td></tr><tr><td>N:374,533.91' E:730,464.25'</td></tr><tr><td>I-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:379,892.50' E:735,778.31'</td></tr><tr><td>J-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:377,224.61' E:735,795.66'</td></tr><tr><td>K-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:377,211.54' E:733,134.18'</td></tr><tr><td>L-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:377,203.52' E:730,441.03'</td></tr><tr><td>M-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:379,872.18' E:730,424.72'</td></tr><tr><td>N-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:374,544.72' E:735,819.04'</td></tr><tr><td>O-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:371,879.35' E:735,833.03'</td></tr><tr><td>P-FOUND IRON PIPE W/ BRASS CAP</td></tr><tr><td>N:371,894.62' E:733,169.03'</td></tr></table> SURFACE HOLE LOCATION 2,335' FSL & 2,000' FEL NEW MEXICO EAST-NAD 83 NORTH:374,225.85' EAST:733,820.69' LAT:32.02730583 LONG:-103.71221714 FIRST TAKE POINT / PENETRATION POINT 1 2,620' FSL & 434' FEL NEW MEXICO EAST-NAD 83 NORTH:374,501.96' EAST:735,385.26' LAT:32.02803999 LONG:-103.70716357 PENETRATION POINT 2 1' FNL & 434' FEL NEW MEXICO EAST-NAD 83 NORTH:371,881.84' EAST:735,399.04' LAT:32.02083751 LONG:-103.70716811 LAST TAKE POINT 100' FSL & 434' FEL NEW MEXICO EAST-NAD 83 NORTH:364,479.71' EAST:735,450.83' LAT:32.00048946 LONG:-103.70713937 BOTTOM HOLE LOCATION 50' FSL & 434' FEL NEW MEXICO EAST-NAD 83 NORTH:364,429.71' EAST:735,451.12' LAT:32.00035202 LONG:-103.70713938	A-FOUND 2" IRON PIPE	N:377,203.52' E:730,441.03'	B-FOUND 1" IRON PIPE	N:377,211.54' E:733,134.18'	C-FOUND IRON PIPE W/ BRASS CAP	N:377,224.61' E:735,795.66'	D-FOUND IRON PIPE W/ BRASS CAP	N:374,544.72' E:735,819.04'	E-FOUND IRON PIPE W/ BRASS CAP	N:371,879.35' E:735,833.03'	F-FOUND IRON PIPE W/ BRASS CAP	N:371,894.62' E:733,169.03'	G-FOUND 2" IRON PIPE W/ CAP	N:371,509.34' E:730,486.74'	H-FOUND 1" IRON PIPE	N:374,533.91' E:730,464.25'	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 IRON PIPE W/ BRASS CAP	N:377,211.54' E:733,134.18'	L-FOUND IRON PIPE W/ BRASS CAP	N:377,203.52' E:730,441.03'	M-FOUND IRON PIPE W/ BRASS CAP	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'	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> 6/5/23 Signature _____ Date _____ Printed Name Stan Wagner 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

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 06/05/2023

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 1932 WC 759H	30-025-	J-19-26S-32E	2335 FSL & 2150 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 760H	30-025-	J-19-26S-32E	2335 FSL & 2120 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 761H	30-025-	J-19-26S-32E	2335 FSL & 2090 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 762H	30-025-	J-19-26S-32E	2335 FSL & 2060 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 763H	30-025-	J-19-26S-32E	2335 FSL & 2030 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 764H	30-025-	J-19-26S-32E	2335 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
759H, 760H, 761H, 762H, 763H, 764H						

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:

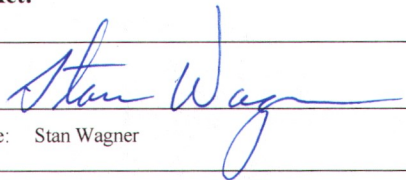
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit 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 764H

1. Geologic Formations

TVD of target	11,882' EOL	Pilot hole depth	NA
MD at TD:	21,838'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1225	Water	
Top of Salt	1552	Salt	
Base of Salt	4014	Salt	
Lamar	4280	Salt Water	
Bell Canyon	4315	Salt Water	
Cherry Canyon	5204	Oil/Gas	
Brushy Canyon	6628	Oil/Gas	
Bone Spring Lime	8274	Oil/Gas	
1st Bone Spring Sand	9287	Oil/Gas	
2nd Bone Spring Sand	9970	Oil/Gas	
3rd Bone Spring Sand	11145	Oil/Gas	
Wolfcamp	11512	Oil/Gas	
Wolfcamp A	11727	Target	
Wolfcamp B	12014	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	11399	7.625"	29.7	P110-ICY	W513	1.25	1.55	3.15	1.89
6.75"	0	10899	5.5"	23	P110-CY	BTC	1.90	2.21	2.91	2.91
6.75"	10899	21,838	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 764H

	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 764H

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	820	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	683	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	920	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	10,899'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 1932 WC 764H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	---

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 764H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9.9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - Zia Hills Unit 1932 WC 764H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8345 psi at 11882' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

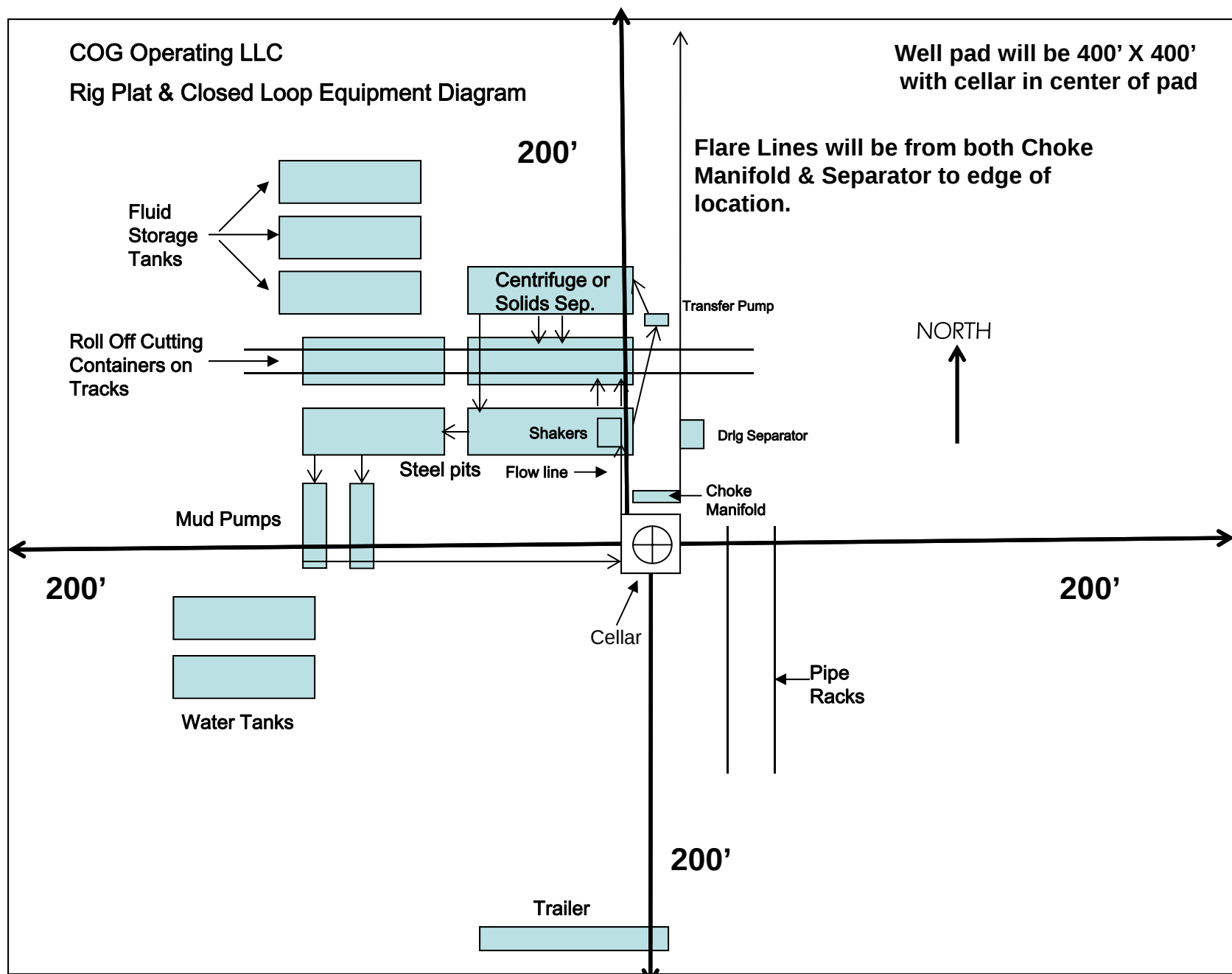


Exhibit 1

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 1932 PROJECT

ZIA HILLS UNIT 1932 WC #764H

OWB

PWP1

Anticollision Report

09 May, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	5/9/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Cont. rev.5	
1,500.0	11,499.3	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
11,499.3	21,838.4	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 FEDERAL #2 - OWB - AWP	3,143.9	3,087.8	72.7	-25.1	0.744	Advise and Monitor, CC
CONOCO FEDERAL #2 - OWB - AWP	3,200.0	3,141.7	74.2	-25.6	0.744	Advise and Monitor, ES, SF
RUSSELL 19 FEDERAL #2 (P&A) - OWB - AWP	2,962.3	2,922.5	400.3	283.3	3.422	CC
RUSSELL 19 FEDERAL #2 (P&A) - OWB - AWP	3,200.0	3,151.4	403.1	276.6	3.186	ES
RUSSELL 19 FEDERAL #2 (P&A) - OWB - AWP	3,700.0	3,635.9	440.2	293.4	2.998	SF
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,500.0	1,497.5	251.4	241.7	25.982	CC, ES
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,700.0	1,683.0	260.3	250.0	25.235	SF
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	1,500.0	1,497.3	234.5	224.8	24.107	CC, ES
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	1,900.0	1,891.5	251.5	240.7	23.282	SF
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	1,500.0	1,497.3	220.3	210.5	22.514	CC, ES
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	5,400.0	5,352.2	610.1	577.2	18.516	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	1,500.0	1,497.2	209.6	199.8	21.319	CC, ES
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	6,400.0	6,352.3	495.1	458.0	13.334	SF
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	1,500.0	1,497.3	202.6	192.8	20.537	CC, ES
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	11,300.0	11,255.5	429.6	378.3	8.364	SF
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	1,000.0	997.3	200.1	191.4	22.986	CC, ES
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	11,500.0	11,508.6	242.6	195.0	5.089	SF
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,466.6	1,466.7	150.0	140.8	16.221	CC
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,500.0	1,500.0	150.0	140.7	16.123	ES
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,600.0	1,595.9	153.1	143.5	15.885	SF
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	1,500.0	1,499.2	120.1	110.8	12.909	CC, ES
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	1,600.0	1,599.0	121.9	112.3	12.735	SF
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	1,500.0	1,498.9	90.0	80.6	9.669	CC, ES
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	1,700.0	1,701.2	94.3	84.3	9.409	SF
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	1,500.0	1,499.2	60.0	50.7	6.452	CC, ES
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	21,838.4	21,782.1	848.0	685.7	5.224	SF
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	1,500.0	1,500.8	30.1	20.7	3.230	CC
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	1,504.4	1,505.3	30.1	20.7	3.225	ES
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	21,838.4	21,668.1	459.0	296.9	2.831	SF
ZIA HILLS UNIT 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	12,941.6	12,129.1	440.4	378.6	7.122	CC
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	21,838.4	21,025.9	440.5	279.3	2.732	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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 1932 PROJECT						
CONOCO FEDERAL #2 - OWB - AWP	21,838.4	4,368.0				Out of Range @TD
RUSSELL 19 FEDERAL #2 (P&A) - OWB - AWP	21,838.4	4,321.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	21,838.4	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	21,838.4	11,350.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	21,838.4	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	21,838.4	11,425.9				Out of Range @TD
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	21,838.4	11,300.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	21,838.4	11,550.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	21,838.4	21,581.6				Out of Range @TD
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	21,838.4	21,690.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	21,838.4	21,513.7				Out of Range @TD
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	21,838.4	21,782.1	848.0	685.7	5.224	SF
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	21,838.4	21,668.1	459.0	296.9	2.831	SF
ZIA HILLS UNIT 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	21,838.4	21,025.9	440.5	279.3	2.732	ES, SF

Offset Design: ZIA HILLS UNIT 1932 PROJECT - CONOCO FEDERAL #2 - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 490-INC-ONLY													Offset Well Error: 10.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	10.0	94.54	-26.8	338.1	339.6				
100.0	100.0	82.6	82.6	3.0	10.0	94.54	-26.8	338.1	339.2	324.0	15.14	22.408	
200.0	200.0	182.6	182.6	3.2	10.2	94.54	-26.8	338.1	339.2	323.8	15.35	22.098	
300.0	300.0	282.6	282.6	3.3	10.4	94.54	-26.8	338.1	339.2	323.5	15.68	21.635	
400.0	400.0	382.6	382.6	3.4	10.7	94.54	-26.8	338.1	339.2	323.0	16.11	21.047	
500.0	500.0	482.6	482.6	3.5	11.0	94.54	-26.8	338.1	339.2	322.5	16.65	20.367	
600.0	600.0	582.7	582.6	3.7	12.0	94.54	-26.8	338.1	339.2	321.2	17.98	18.866	
700.0	700.0	682.7	682.6	3.8	13.2	94.54	-26.8	338.1	339.2	319.5	19.68	17.238	
753.9	753.9	736.5	736.5	3.9	14.0	94.40	-26.0	338.1	339.1	318.4	20.70	16.384	
800.0	800.0	782.6	782.6	3.9	14.6	94.41	-26.1	338.1	339.1	317.5	21.62	15.683	
900.0	900.0	882.6	882.6	4.0	16.2	94.45	-26.3	338.1	339.1	315.4	23.76	14.275	
1,000.0	1,000.0	982.5	982.5	4.2	17.8	94.54	-26.8	338.1	339.2	313.1	26.03	13.030	
1,100.0	1,100.0	1,082.7	1,082.6	4.3	19.6	94.54	-26.8	338.1	339.2	310.7	28.51	11.897	
1,125.8	1,125.8	1,108.5	1,108.4	4.3	20.1	94.46	-26.3	338.1	339.1	310.0	29.16	11.629	
1,200.0	1,200.0	1,182.6	1,182.5	4.4	21.5	94.50	-26.6	338.1	339.1	308.1	31.06	10.917	
1,300.0	1,300.0	1,282.8	1,282.6	4.5	23.5	94.54	-26.8	338.1	339.2	305.3	33.84	10.021	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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		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	
1,400.0	1,400.0	1,382.8	1,382.6	4.6	25.6	94.54	-26.8	338.1	339.2	302.4	36.74	9.231	
1,461.7	1,461.7	1,444.5	1,444.4	4.7	26.9	94.37	-25.9	338.1	339.1	300.5	38.56	8.794	
1,500.0	1,500.0	1,482.7	1,482.6	4.8	27.7	94.38	-25.9	338.1	339.1	299.4	39.69	8.544	
1,600.0	1,600.0	1,582.6	1,582.5	4.9	29.9	12.51	-26.2	338.1	337.4	294.7	42.69	7.904	
1,700.0	1,699.8	1,682.7	1,682.5	5.0	32.1	12.83	-26.8	338.1	332.4	286.5	45.81	7.255	
1,800.0	1,799.5	1,782.3	1,782.1	5.2	34.6	13.21	-26.8	338.1	323.9	274.5	49.38	6.558	
1,900.0	1,898.7	1,881.6	1,881.4	5.5	37.2	13.78	-26.8	338.1	312.0	259.0	52.97	5.890	
2,000.0	1,997.5	1,980.2	1,980.0	5.9	39.8	14.28	-25.3	338.1	296.7	240.1	56.56	5.245	
2,100.0	2,095.6	2,078.3	2,078.0	6.2	42.3	15.47	-25.9	338.1	278.3	218.1	60.15	4.626	
2,200.0	2,193.1	2,176.2	2,175.7	6.6	44.9	17.15	-26.8	338.1	256.8	193.0	63.75	4.028	
2,250.0	2,241.5	2,224.6	2,224.1	6.7	46.1	18.08	-26.8	338.1	244.8	179.2	65.55	3.735	
2,300.0	2,289.8	2,272.9	2,272.4	6.9	47.4	19.07	-26.8	338.1	232.5	165.1	67.34	3.453	
2,400.0	2,386.4	2,369.4	2,369.0	7.2	50.0	21.39	-26.8	338.1	208.1	137.2	70.94	2.933	
2,500.0	2,482.9	2,465.9	2,465.4	7.5	52.6	23.68	-24.8	338.1	183.6	109.0	74.55	2.463	
2,600.0	2,579.5	2,562.2	2,561.7	7.9	55.1	27.61	-25.5	338.1	160.3	82.2	78.15	2.051	
2,700.0	2,676.1	2,659.5	2,658.8	8.3	57.7	33.09	-26.8	338.1	138.2	56.4	81.79	1.690 Advise and Monitor	
2,800.0	2,772.7	2,756.1	2,755.4	8.7	60.3	39.92	-26.8	338.1	117.1	31.7	85.41	1.372 Advise and Monitor	
2,900.0	2,869.3	2,852.6	2,852.0	9.1	62.9	49.45	-26.8	338.1	98.4	9.4	89.01	1.105 Advise and Monitor	
3,000.0	2,965.9	2,949.1	2,948.4	9.5	65.5	62.00	-25.1	338.1	82.1	-10.5	92.58	0.887 Advise and Monitor	
3,100.0	3,062.5	3,045.4	3,044.7	9.9	68.1	79.59	-25.5	338.1	73.6	-22.5	96.15	0.766 Advise and Monitor	
3,143.9	3,105.0	3,087.8	3,087.0	10.1	69.3	88.19	-25.8	338.1	72.7	-25.1	97.74	0.744 Advise and Monitor, CC	
3,200.0	3,159.1	3,141.7	3,141.0	10.4	70.7	99.11	-26.4	338.1	74.2	-25.6	99.79	0.744 Advise and Monitor, ES, SF	
3,300.0	3,255.7	3,239.3	3,238.3	10.8	73.8	116.68	-26.8	338.1	83.0	-21.1	104.11	0.797 Advise and Monitor	
3,400.0	3,352.3	3,335.9	3,334.9	11.2	77.0	130.09	-26.8	338.1	97.7	-11.1	108.79	0.898 Advise and Monitor	
3,500.0	3,448.9	3,432.4	3,431.5	11.7	80.3	140.48	-24.7	338.1	114.8	1.3	113.45	1.012 Advise and Monitor	
3,600.0	3,545.5	3,528.5	3,527.5	12.1	83.5	147.21	-25.1	338.1	136.2	18.2	118.06	1.154 Advise and Monitor	
3,700.0	3,642.1	3,624.5	3,623.5	12.6	86.7	151.91	-26.1	338.1	159.4	36.7	122.65	1.299 Advise and Monitor	
3,800.0	3,738.6	3,721.4	3,720.0	13.0	90.2	155.59	-26.6	338.1	183.0	55.4	127.60	1.434 Advise and Monitor	
3,900.0	3,835.2	3,819.4	3,817.9	13.5	93.9	158.51	-26.8	338.1	207.1	74.3	132.83	1.559 Advise and Monitor	
4,000.0	3,931.8	3,916.0	3,914.5	13.9	97.6	160.84	-26.8	338.1	231.5	93.5	137.96	1.678 Advise and Monitor	
4,100.0	4,028.4	4,012.6	4,011.1	14.4	101.2	162.74	-26.8	338.1	256.2	113.1	143.10	1.790 Advise and Monitor	
4,200.0	4,125.0	4,108.4	4,106.8	14.9	104.9	164.96	-23.4	338.1	279.7	131.5	148.20	1.888 Advise and Monitor	
4,300.0	4,221.6	4,204.2	4,202.6	15.3	108.5	166.00	-24.5	338.1	305.3	152.0	153.28	1.992 Advise and Monitor	
4,400.0	4,318.2	4,300.0	4,298.3	15.8	112.1	166.75	-26.5	338.1	331.2	172.8	158.37	2.091	
4,500.0	4,414.8	4,398.0	4,395.7	16.3	114.6	167.38	-26.8	338.1	358.0	196.7	161.28	2.220	
4,600.0	4,511.4	4,494.6	4,492.9	16.7	114.6	167.38	-26.8	338.1	402.9	249.3	153.59	2.623	
4,700.0	4,608.0	4,591.2	4,589.5	17.2	114.6	167.38	-26.8	338.1	465.3	323.2	142.08	3.275	
4,800.0	4,704.6	4,687.8	4,686.1	17.7	114.6	167.38	-26.8	338.1	539.2	408.6	130.58	4.129	
4,900.0	4,801.2	4,784.4	4,782.7	18.2	114.6	167.38	-26.8	338.1	620.4	499.9	120.49	5.149	
5,000.0	4,897.8	4,881.0	4,879.3	18.7	114.6	167.38	-26.8	338.1	706.5	594.4	112.03	6.306	
5,100.0	4,994.4	4,977.6	4,975.9	19.1	114.6	167.38	-26.8	338.1	795.8	690.8	105.03	7.577	
5,200.0	5,090.9	5,074.1	5,072.4	19.6	114.6	167.38	-26.8	338.1	887.4	788.2	99.22	8.944	
5,300.0	5,187.5	5,170.7	5,169.0	20.1	114.6	167.38	-26.8	338.1	980.6	886.3	94.38	10.390	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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 - RUSSELL 19 FEDERAL #2 (P&A) - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 250-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	136.40	-356.9	339.8	492.8				
100.0	100.0	92.6	92.6	3.0	10.0	136.40	-356.9	339.8	492.8	477.6	15.16	32.508	
200.0	200.0	192.6	192.6	3.2	10.2	136.40	-356.9	339.8	492.8	477.3	15.42	31.952	
300.0	300.0	292.7	292.6	3.3	10.7	136.40	-356.9	339.8	492.8	476.6	16.18	30.452	
382.3	382.3	374.9	374.9	3.4	11.8	136.36	-356.3	339.8	492.4	474.7	17.70	27.824	
400.0	400.0	392.2	392.2	3.4	12.1	136.36	-356.3	339.8	492.4	474.3	18.08	27.230	
500.0	500.0	489.8	489.8	3.5	14.0	136.40	-356.8	339.8	492.7	472.1	20.59	23.925	
600.0	600.0	592.8	592.6	3.7	16.3	136.40	-356.9	339.8	492.8	469.0	23.75	20.751	
632.6	632.6	625.4	625.1	3.7	17.0	136.27	-355.2	339.8	491.6	466.8	24.82	19.809	
700.0	700.0	688.2	688.0	3.8	18.6	136.31	-355.6	339.8	491.9	464.9	26.96	18.247	
800.0	800.0	793.0	792.6	3.9	21.3	136.40	-356.9	339.8	492.8	462.1	30.70	16.051	
882.0	882.0	875.0	874.6	4.0	23.5	136.36	-356.3	339.8	492.4	458.6	33.74	14.595	
900.0	900.0	892.6	892.2	4.0	24.0	136.36	-356.3	339.8	492.4	458.0	34.40	14.314	
1,000.0	1,000.0	990.1	989.8	4.2	26.6	136.40	-356.8	339.8	492.7	454.6	38.12	12.926	
1,100.0	1,100.0	1,093.2	1,092.6	4.3	29.5	136.40	-356.9	339.8	492.8	450.6	42.12	11.700	
1,132.5	1,132.5	1,125.6	1,125.0	4.3	30.4	136.27	-355.2	339.8	491.6	448.2	43.39	11.330	
1,200.0	1,200.0	1,188.5	1,187.9	4.4	32.2	136.31	-355.7	339.8	491.9	446.0	45.87	10.724	
1,300.0	1,300.0	1,293.3	1,292.6	4.5	35.2	136.40	-356.9	339.8	492.8	442.7	50.04	9.848	
1,381.9	1,381.9	1,375.2	1,374.6	4.6	37.6	136.36	-356.3	339.8	492.4	439.1	53.32	9.235	
1,400.0	1,400.0	1,392.9	1,392.2	4.6	38.1	136.36	-356.3	339.8	492.4	438.4	54.02	9.114	
1,500.0	1,500.0	1,490.5	1,489.8	4.8	40.9	136.40	-356.8	339.8	492.7	434.8	57.96	8.501	
1,600.0	1,600.0	1,593.5	1,592.6	4.9	43.9	54.58	-356.9	339.8	491.7	429.6	62.14	7.914	
1,700.0	1,699.8	1,688.7	1,687.8	5.0	46.7	55.01	-355.7	339.8	487.9	421.9	66.02	7.390	
1,800.0	1,799.5	1,793.1	1,792.1	5.2	49.8	56.06	-356.9	339.8	483.8	413.5	70.30	6.882	
1,900.0	1,898.7	1,891.9	1,890.9	5.5	52.7	57.33	-356.3	339.8	476.7	402.3	74.35	6.411	
2,000.0	1,997.5	1,988.3	1,987.3	5.9	55.5	59.06	-356.8	339.8	468.7	390.4	78.32	5.985	
2,100.0	2,095.6	2,089.4	2,088.3	6.2	58.5	61.30	-356.9	339.8	459.2	376.7	82.49	5.566	
2,200.0	2,193.1	2,182.5	2,181.3	6.6	61.2	63.75	-355.6	339.8	447.6	361.2	86.33	5.185	
2,250.0	2,241.5	2,227.5	2,226.3	6.7	62.6	65.20	-356.3	339.8	442.7	354.6	88.17	5.021	
2,300.0	2,289.8	2,283.7	2,282.4	6.9	64.2	66.98	-356.9	339.8	437.7	347.2	90.50	4.837	
2,400.0	2,386.4	2,380.2	2,378.9	7.2	67.1	70.03	-356.3	339.8	427.5	333.0	94.49	4.524	
2,500.0	2,482.9	2,474.3	2,473.0	7.5	69.9	73.19	-356.7	339.8	419.4	321.0	98.38	4.263	
2,600.0	2,579.5	2,573.7	2,572.2	7.9	72.8	76.63	-356.9	339.8	412.6	310.1	102.50	4.026	
2,700.0	2,676.1	2,666.9	2,665.4	8.3	75.6	79.87	-355.4	339.8	405.9	299.5	106.36	3.816	
2,800.0	2,772.7	2,767.0	2,765.4	8.7	78.6	83.55	-356.9	339.8	403.4	292.9	110.52	3.650	
2,900.0	2,869.3	2,863.6	2,862.0	9.1	81.4	87.10	-356.9	339.8	401.2	286.7	114.53	3.503	
2,962.3	2,929.5	2,922.5	2,920.8	9.3	83.2	89.27	-356.4	339.8	400.3	283.3	116.98	3.422 CC	
3,000.0	2,965.9	2,957.9	2,956.3	9.5	84.2	90.59	-356.6	339.8	400.4	282.0	118.45	3.380	
3,100.0	3,062.5	3,057.0	3,055.1	9.9	87.2	94.24	-356.9	339.8	401.9	279.3	122.58	3.278	
3,200.0	3,159.1	3,151.4	3,149.5	10.4	90.0	97.70	-355.3	339.8	403.1	276.6	126.52	3.186 ES	
3,300.0	3,255.7	3,250.3	3,248.3	10.8	92.9	101.25	-356.9	339.8	409.1	278.4	130.65	3.131	
3,400.0	3,352.3	3,346.9	3,344.9	11.2	95.8	104.65	-356.9	339.8	415.1	280.4	134.69	3.082	
3,500.0	3,448.9	3,441.6	3,439.6	11.7	98.6	107.89	-356.5	339.8	422.2	283.6	138.66	3.045	
3,600.0	3,545.5	3,540.3	3,538.1	12.1	101.6	111.12	-356.9	339.8	431.5	288.7	142.80	3.022	
3,700.0	3,642.1	3,635.9	3,633.7	12.6	104.4	114.19	-355.2	339.8	440.2	293.4	146.82	2.998 SF	
3,800.0	3,738.6	3,724.8	3,722.5	13.0	107.1	116.83	-356.3	339.8	452.8	302.3	150.53	3.008	
3,900.0	3,835.2	3,830.2	3,827.9	13.5	110.2	119.83	-356.9	339.8	466.0	311.0	155.00	3.006	
4,000.0	3,931.8	3,925.3	3,923.0	13.9	113.1	122.43	-356.4	339.8	479.3	320.3	159.00	3.014	
4,100.0	4,028.4	4,023.6	4,021.1	14.4	116.0	124.92	-356.9	339.8	494.4	331.2	163.15	3.030	
4,200.0	4,125.0	4,120.2	4,117.7	14.9	118.9	127.25	-356.9	339.8	510.0	342.7	167.23	3.050	
4,300.0	4,221.6	4,209.1	4,206.5	15.3	121.5	129.33	-356.0	339.8	525.7	354.7	170.97	3.075	
4,400.0	4,318.2	4,313.5	4,310.9	15.8	124.7	131.52	-356.9	339.8	543.5	368.1	175.39	3.099	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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 - RUSSELL 19 FEDERAL #2 (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 250-INC-ONLY													Offset Well Error:	10.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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		
4,500.0	4,414.8	4,321.0	4,318.3	16.3	124.9	131.67	-356.9	339.8	568.4	394.8	173.60	3.274		
4,600.0	4,511.4	4,321.0	4,318.3	16.7	124.9	131.67	-356.9	339.8	608.8	441.3	167.52	3.634		
4,700.0	4,608.0	4,321.0	4,318.3	17.2	124.9	131.67	-356.9	339.8	662.0	502.7	159.29	4.156		
4,800.0	4,704.6	4,321.0	4,318.3	17.7	124.9	131.67	-356.9	339.8	725.1	574.7	150.36	4.822		
4,900.0	4,801.2	4,321.0	4,318.3	18.2	124.9	131.67	-356.9	339.8	795.8	654.2	141.64	5.618		
5,000.0	4,897.8	4,321.0	4,318.3	18.7	124.9	131.67	-356.9	339.8	872.3	738.7	133.59	6.530		
5,100.0	4,994.4	4,321.0	4,318.3	19.1	124.9	131.67	-356.9	339.8	953.1	826.8	126.35	7.544		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11150-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	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	-36.93	201.0	-151.0	251.4				
100.0	100.0	97.5	97.5	3.0	3.0	-36.93	201.0	-151.0	251.4	244.9	6.52	38.561	
200.0	200.0	197.5	197.5	3.2	3.2	-36.93	201.0	-151.0	251.4	244.6	6.76	37.168	
300.0	300.0	297.5	297.5	3.3	3.3	-36.93	201.0	-151.0	251.4	244.4	7.01	35.884	
400.0	400.0	397.5	397.5	3.4	3.4	-36.93	201.0	-151.0	251.4	244.2	7.24	34.706	
500.0	500.0	497.5	497.5	3.5	3.5	-36.93	201.0	-151.0	251.4	243.9	7.48	33.621	
600.0	600.0	597.5	597.5	3.7	3.7	-36.93	201.0	-151.0	251.4	243.7	7.71	32.615	
700.0	700.0	697.5	697.5	3.8	3.8	-36.93	201.0	-151.0	251.4	243.5	7.94	31.679	
800.0	800.0	797.5	797.5	3.9	3.9	-36.93	201.0	-151.0	251.4	243.2	8.16	30.806	
900.0	900.0	897.5	897.5	4.0	4.0	-36.93	201.0	-151.0	251.4	243.0	8.38	29.989	
1,000.0	1,000.0	997.5	997.5	4.2	4.2	-36.93	201.0	-151.0	251.4	242.8	8.60	29.221	
1,100.0	1,100.0	1,097.5	1,097.5	4.3	4.3	-36.93	201.0	-151.0	251.4	242.6	8.82	28.499	
1,200.0	1,200.0	1,197.5	1,197.5	4.4	4.4	-36.93	201.0	-151.0	251.4	242.4	9.04	27.817	
1,300.0	1,300.0	1,297.5	1,297.5	4.5	4.5	-36.93	201.0	-151.0	251.4	242.1	9.25	27.173	
1,400.0	1,400.0	1,397.5	1,397.5	4.6	4.6	-36.93	201.0	-151.0	251.4	241.9	9.46	26.562	
1,500.0	1,500.0	1,497.5	1,497.5	4.8	4.7	-36.93	201.0	-151.0	251.4	241.7	9.68	25.982 CC, ES	
1,600.0	1,600.0	1,590.6	1,590.6	4.9	4.9	-119.38	201.5	-152.4	253.6	243.6	9.94	25.521	
1,700.0	1,699.8	1,683.0	1,682.9	5.0	5.0	-120.68	203.2	-156.4	260.3	250.0	10.32	25.235 SF	
1,800.0	1,799.5	1,774.2	1,773.8	5.2	5.2	-122.69	205.9	-163.2	272.0	261.3	10.72	25.381	
1,900.0	1,898.7	1,863.7	1,862.7	5.5	5.5	-125.16	209.6	-172.4	288.9	277.7	11.14	25.928	
2,000.0	1,997.5	1,956.3	1,954.4	5.9	5.7	-128.02	214.3	-184.1	310.9	299.3	11.59	26.819	
2,100.0	2,095.6	2,051.2	2,048.4	6.2	6.0	-130.97	219.3	-196.4	336.3	324.2	12.08	27.832	
2,200.0	2,193.1	2,145.0	2,141.3	6.6	6.2	-133.80	224.2	-208.5	365.0	352.4	12.62	28.914	
2,250.0	2,241.5	2,191.4	2,187.3	6.7	6.3	-135.15	226.6	-214.5	380.6	367.7	12.87	29.580	
2,300.0	2,289.8	2,237.7	2,233.1	6.9	6.5	-136.66	229.0	-220.5	396.8	383.7	13.12	30.247	
2,400.0	2,386.4	2,330.2	2,324.7	7.2	6.8	-139.35	233.8	-232.4	429.8	416.1	13.70	31.375	
2,500.0	2,482.9	2,422.7	2,416.3	7.5	7.0	-141.66	238.7	-244.3	463.6	449.3	14.31	32.397	
2,600.0	2,579.5	2,515.3	2,508.0	7.9	7.3	-143.66	243.5	-256.3	497.9	483.0	14.94	33.320	
2,700.0	2,676.1	2,607.8	2,599.6	8.3	7.6	-145.41	248.3	-268.2	532.8	517.2	15.60	34.149	
2,800.0	2,772.7	2,700.3	2,691.2	8.7	8.0	-146.95	253.1	-280.2	568.0	551.7	16.28	34.895	
2,900.0	2,869.3	2,792.9	2,782.9	9.1	8.3	-148.32	258.0	-292.1	603.6	586.6	16.97	35.565	
3,000.0	2,965.9	2,885.4	2,874.5	9.5	8.6	-149.53	262.8	-304.0	639.4	621.7	17.68	36.167	
3,100.0	3,062.5	2,977.9	2,966.1	9.9	9.0	-150.62	267.6	-316.0	675.5	657.1	18.40	36.711	
3,200.0	3,159.1	3,070.5	3,057.8	10.4	9.3	-151.59	272.4	-327.9	711.7	692.6	19.13	37.201	
3,300.0	3,255.7	3,163.0	3,149.4	10.8	9.7	-152.48	277.3	-339.9	748.1	728.3	19.87	37.645	
3,400.0	3,352.3	3,255.5	3,241.0	11.2	10.0	-153.28	282.1	-351.8	784.7	764.1	20.62	38.048	
3,500.0	3,448.9	3,348.1	3,332.7	11.7	10.4	-154.01	286.9	-363.7	821.4	800.0	21.38	38.415	
3,600.0	3,545.5	3,440.6	3,424.3	12.1	10.7	-154.68	291.7	-375.7	858.2	836.0	22.15	38.749	
3,700.0	3,642.1	3,534.2	3,517.0	12.6	11.1	-155.30	296.6	-387.8	895.1	872.1	22.91	39.065	
3,800.0	3,738.6	3,644.6	3,626.5	13.0	11.5	-155.98	301.9	-400.9	931.0	907.2	23.80	39.111	
3,900.0	3,835.2	3,756.5	3,737.7	13.5	11.9	-156.63	306.5	-412.2	965.3	940.6	24.71	39.065	
4,000.0	3,931.8	3,869.9	3,850.7	13.9	12.3	-157.26	310.3	-421.6	997.8	972.2	25.61	38.963	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-31.07	200.9	-121.1	234.6				
100.0	100.0	97.3	97.3	3.0	3.0	-31.07	200.9	-121.1	234.5	228.0	6.52	35.977	
200.0	200.0	197.3	197.3	3.2	3.2	-31.07	200.9	-121.1	234.5	227.8	6.76	34.674	
300.0	300.0	297.3	297.3	3.3	3.3	-31.07	200.9	-121.1	234.5	227.5	7.01	33.468	
400.0	400.0	397.3	397.3	3.4	3.4	-31.07	200.9	-121.1	234.5	227.3	7.25	32.361	
500.0	500.0	497.3	497.3	3.5	3.5	-31.07	200.9	-121.1	234.5	227.1	7.48	31.339	
600.0	600.0	597.3	597.3	3.7	3.7	-31.07	200.9	-121.1	234.5	226.8	7.72	30.390	
700.0	700.0	697.3	697.3	3.8	3.8	-31.07	200.9	-121.1	234.5	226.6	7.95	29.506	
800.0	800.0	797.3	797.3	3.9	3.9	-31.07	200.9	-121.1	234.5	226.4	8.18	28.680	
900.0	900.0	897.3	897.3	4.0	4.0	-31.07	200.9	-121.1	234.5	226.1	8.40	27.907	
1,000.0	1,000.0	997.3	997.3	4.2	4.2	-31.07	200.9	-121.1	234.5	225.9	8.63	27.180	
1,100.0	1,100.0	1,097.3	1,097.3	4.3	4.3	-31.07	200.9	-121.1	234.5	225.7	8.85	26.495	
1,200.0	1,200.0	1,197.3	1,197.3	4.4	4.4	-31.07	200.9	-121.1	234.5	225.5	9.07	25.849	
1,300.0	1,300.0	1,297.3	1,297.3	4.5	4.5	-31.07	200.9	-121.1	234.5	225.3	9.29	25.237	
1,400.0	1,400.0	1,397.3	1,397.3	4.6	4.6	-31.07	200.9	-121.1	234.5	225.0	9.51	24.658	
1,500.0	1,500.0	1,497.3	1,497.3	4.8	4.7	-31.07	200.9	-121.1	234.5	224.8	9.73	24.107 CC, ES	
1,600.0	1,600.0	1,595.3	1,595.3	4.9	4.9	-113.06	202.0	-120.0	235.6	225.7	9.93	23.719	
1,700.0	1,699.8	1,693.1	1,693.0	5.0	5.1	-112.99	205.6	-116.5	239.0	228.7	10.25	23.312	
1,800.0	1,799.5	1,791.8	1,791.3	5.2	5.2	-112.93	211.4	-111.0	244.5	234.0	10.49	23.306	
1,900.0	1,898.7	1,891.5	1,890.6	5.5	5.4	-113.44	217.6	-104.9	251.5	240.7	10.80	23.282 SF	
2,000.0	1,997.5	1,990.9	1,989.7	5.9	5.7	-114.59	223.8	-98.9	260.0	248.9	11.13	23.367	
2,100.0	2,095.6	2,090.0	2,088.4	6.2	5.9	-116.30	230.0	-92.9	270.2	258.7	11.47	23.566	
2,200.0	2,193.1	2,188.6	2,186.6	6.6	6.1	-118.45	236.2	-86.9	282.3	270.4	11.82	23.871	
2,250.0	2,241.5	2,237.7	2,235.5	6.7	6.3	-119.66	239.3	-84.0	289.1	277.1	11.97	24.147	
2,300.0	2,289.8	2,286.7	2,284.4	6.9	6.4	-121.00	242.4	-81.0	296.3	284.2	12.13	24.434	
2,400.0	2,386.4	2,384.7	2,382.0	7.2	6.7	-123.49	248.5	-75.1	311.2	298.7	12.53	24.848	
2,500.0	2,482.9	2,482.7	2,479.6	7.5	7.0	-125.75	254.7	-69.1	326.6	313.7	12.95	25.227	
2,600.0	2,579.5	2,580.7	2,577.2	7.9	7.3	-127.82	260.8	-63.2	342.5	329.1	13.40	25.569	
2,700.0	2,676.1	2,678.7	2,674.9	8.3	7.6	-129.69	267.0	-57.3	358.8	344.9	13.87	25.874	
2,800.0	2,772.7	2,776.7	2,772.5	8.7	7.9	-131.41	273.1	-51.3	375.4	361.1	14.36	26.141	
2,900.0	2,869.3	2,874.7	2,870.1	9.1	8.2	-132.98	279.2	-45.4	392.4	377.5	14.88	26.373	
3,000.0	2,965.9	2,972.4	2,967.5	9.5	8.5	-134.43	285.3	-39.5	409.6	394.2	15.37	26.646	
3,100.0	3,062.5	3,069.2	3,064.0	9.9	8.8	-135.93	290.4	-34.7	427.2	411.3	15.92	26.839	
3,200.0	3,159.1	3,165.6	3,160.2	10.4	9.1	-137.51	294.2	-30.9	445.5	429.0	16.50	26.990	
3,300.0	3,255.7	3,261.4	3,256.0	10.8	9.4	-139.16	296.9	-28.3	464.3	447.2	17.12	27.129	
3,400.0	3,352.3	3,356.7	3,351.2	11.2	9.6	-140.86	298.5	-26.8	483.9	466.2	17.75	27.264	
3,500.0	3,448.9	3,451.7	3,446.2	11.7	9.8	-142.60	298.9	-26.4	504.4	486.0	18.38	27.446	
3,600.0	3,545.5	3,548.2	3,542.8	12.1	9.8	-144.29	298.9	-26.4	525.4	506.4	19.02	27.618	
3,700.0	3,642.1	3,644.8	3,639.4	12.6	9.9	-145.86	298.9	-26.4	546.9	527.2	19.70	27.765	
3,800.0	3,738.6	3,741.4	3,736.0	13.0	10.0	-147.31	298.9	-26.4	568.7	548.3	20.37	27.915	
3,900.0	3,835.2	3,838.0	3,832.5	13.5	10.1	-148.65	298.9	-26.4	590.9	569.8	21.05	28.066	
4,000.0	3,931.8	3,934.6	3,929.1	13.9	10.2	-149.90	298.9	-26.4	613.3	591.6	21.73	28.218	
4,100.0	4,028.4	4,031.2	4,025.7	14.4	10.2	-151.06	298.9	-26.4	636.0	613.6	22.42	28.371	
4,200.0	4,125.0	4,127.8	4,122.3	14.9	10.3	-152.14	298.9	-26.4	659.0	635.9	23.10	28.522	
4,300.0	4,221.6	4,224.4	4,218.9	15.3	10.4	-153.15	298.9	-26.4	682.1	658.3	23.79	28.672	
4,400.0	4,318.2	4,321.0	4,315.5	15.8	10.5	-154.09	298.9	-26.4	705.5	681.0	24.48	28.821	
4,500.0	4,414.8	4,417.6	4,412.1	16.3	10.6	-154.98	298.9	-26.4	729.0	703.8	25.17	28.967	
4,600.0	4,511.4	4,514.2	4,508.7	16.7	10.6	-155.80	298.9	-26.4	752.6	726.8	25.85	29.111	
4,700.0	4,608.0	4,610.8	4,605.3	17.2	10.7	-156.58	298.9	-26.4	776.4	749.9	26.54	29.252	
4,800.0	4,704.6	4,707.4	4,701.9	17.7	10.8	-157.32	298.9	-26.4	800.4	773.2	27.23	29.391	
4,900.0	4,801.2	4,803.9	4,798.5	18.2	10.9	-158.01	298.9	-26.4	824.4	796.5	27.92	29.527	
5,000.0	4,897.8	4,900.5	4,895.1	18.7	11.0	-158.66	298.9	-26.4	848.6	820.0	28.61	29.659	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance					
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)			
5,100.0	4,994.4	4,997.1	4,991.7	19.1	11.1	-159.27	298.9	-26.4	872.9	843.6	29.30	29.788		
5,200.0	5,090.9	5,093.7	5,088.3	19.6	11.1	-159.86	298.9	-26.4	897.2	867.2	29.99	29.914		
5,300.0	5,187.5	5,190.3	5,184.8	20.1	11.2	-160.41	298.9	-26.4	921.7	891.0	30.68	30.037		
5,400.0	5,284.1	5,286.9	5,281.4	20.6	11.3	-160.93	298.9	-26.4	946.2	914.8	31.38	30.157		
5,500.0	5,380.7	5,383.5	5,378.0	21.1	11.4	-161.43	298.9	-26.4	970.8	938.7	32.07	30.273		
5,600.0	5,477.3	5,480.1	5,474.6	21.5	11.5	-161.90	298.9	-26.4	995.4	962.6	32.76	30.386		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11164-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-24.43	200.5	-91.1	220.3				
100.0	100.0	97.3	97.3	3.0	3.0	-24.43	200.5	-91.1	220.3	213.7	6.52	33.785	
200.0	200.0	197.3	197.3	3.2	3.2	-24.43	200.5	-91.1	220.3	213.5	6.77	32.557	
300.0	300.0	297.3	297.3	3.3	3.3	-24.43	200.5	-91.1	220.3	213.3	7.01	31.418	
400.0	400.0	397.3	397.3	3.4	3.4	-24.43	200.5	-91.1	220.3	213.0	7.25	30.371	
500.0	500.0	497.3	497.3	3.5	3.5	-24.43	200.5	-91.1	220.3	212.8	7.49	29.401	
600.0	600.0	597.3	597.3	3.7	3.7	-24.43	200.5	-91.1	220.3	212.5	7.73	28.500	
700.0	700.0	697.3	697.3	3.8	3.8	-24.43	200.5	-91.1	220.3	212.3	7.96	27.660	
800.0	800.0	797.3	797.3	3.9	3.9	-24.43	200.5	-91.1	220.3	212.1	8.20	26.875	
900.0	900.0	897.3	897.3	4.0	4.0	-24.43	200.5	-91.1	220.3	211.8	8.43	26.138	
1,000.0	1,000.0	997.3	997.3	4.2	4.2	-24.43	200.5	-91.1	220.3	211.6	8.66	25.445	
1,100.0	1,100.0	1,097.3	1,097.3	4.3	4.3	-24.43	200.5	-91.1	220.3	211.4	8.88	24.793	
1,200.0	1,200.0	1,197.3	1,197.3	4.4	4.4	-24.43	200.5	-91.1	220.3	211.2	9.11	24.176	
1,300.0	1,300.0	1,297.3	1,297.3	4.5	4.5	-24.43	200.5	-91.1	220.3	210.9	9.34	23.592	
1,400.0	1,400.0	1,397.3	1,397.3	4.6	4.6	-24.43	200.5	-91.1	220.3	210.7	9.56	23.039	
1,500.0	1,500.0	1,497.3	1,497.3	4.8	4.7	-24.43	200.5	-91.1	220.3	210.5	9.78	22.514 CC, ES	
1,600.0	1,600.0	1,595.9	1,595.9	4.9	4.9	-106.54	201.3	-90.2	221.1	211.1	9.98	22.156	
1,700.0	1,699.8	1,694.3	1,694.2	5.0	5.0	-106.84	203.7	-87.3	223.6	213.3	10.28	21.745	
1,800.0	1,799.5	1,792.7	1,792.4	5.2	5.2	-107.30	207.7	-82.5	227.8	217.2	10.59	21.518	
1,900.0	1,898.7	1,891.0	1,890.4	5.5	5.4	-107.91	213.4	-75.8	233.7	222.8	10.89	21.460	
2,000.0	1,997.5	1,989.3	1,987.9	5.9	5.7	-108.65	220.7	-67.1	241.3	230.2	11.20	21.551	
2,100.0	2,095.6	2,093.3	2,091.0	6.2	5.9	-109.63	229.3	-55.9	250.1	238.6	11.48	21.789	
2,200.0	2,193.1	2,198.5	2,195.2	6.6	6.1	-111.25	235.4	-42.7	257.1	245.4	11.75	21.877	
2,250.0	2,241.5	2,248.1	2,244.3	6.7	6.2	-112.25	238.0	-36.3	260.9	249.0	11.89	21.947	
2,300.0	2,289.8	2,297.7	2,293.4	6.9	6.4	-113.36	240.5	-29.9	264.9	252.9	12.03	22.022	
2,400.0	2,386.4	2,396.8	2,391.6	7.2	6.7	-115.50	245.7	-17.1	273.2	260.8	12.40	22.027	
2,500.0	2,482.9	2,496.0	2,489.8	7.5	7.0	-117.50	250.9	-4.3	281.9	269.1	12.81	22.009	
2,600.0	2,579.5	2,595.1	2,588.0	7.9	7.3	-119.39	256.1	8.5	290.9	277.6	13.24	21.968	
2,700.0	2,676.1	2,694.3	2,686.1	8.3	7.7	-121.16	261.2	21.3	300.2	286.5	13.70	21.904	
2,800.0	2,772.7	2,793.4	2,784.3	8.7	8.0	-122.82	266.4	34.1	309.7	295.5	14.20	21.817	
2,900.0	2,869.3	2,892.6	2,882.5	9.1	8.4	-124.38	271.6	46.9	319.5	304.8	14.72	21.710	
3,000.0	2,965.9	2,991.7	2,980.7	9.5	8.7	-125.86	276.7	59.7	329.6	314.3	15.27	21.587	
3,100.0	3,062.5	3,090.9	3,078.9	9.9	9.1	-127.24	281.9	72.4	339.8	324.0	15.84	21.451	
3,200.0	3,159.1	3,190.0	3,177.1	10.4	9.5	-128.54	287.1	85.2	350.2	333.8	16.44	21.304	
3,300.0	3,255.7	3,289.2	3,275.2	10.8	9.8	-129.77	292.2	98.0	360.8	343.7	17.06	21.149	
3,400.0	3,352.3	3,388.3	3,373.4	11.2	10.2	-130.92	297.4	110.8	371.6	353.8	17.70	20.989	
3,500.0	3,448.9	3,487.5	3,471.6	11.7	10.6	-132.02	302.6	123.6	382.4	364.1	18.36	20.826	
3,600.0	3,545.5	3,586.6	3,569.8	12.1	11.0	-133.05	307.7	136.4	393.5	374.4	19.04	20.663	
3,700.0	3,642.1	3,685.8	3,668.0	12.6	11.4	-134.02	312.9	149.2	404.6	384.9	19.74	20.500	
3,800.0	3,738.6	3,784.9	3,766.2	13.0	11.8	-134.94	318.1	162.0	415.8	395.4	20.44	20.340	
3,900.0	3,835.2	3,884.1	3,864.3	13.5	12.2	-135.82	323.3	174.8	427.2	406.0	21.17	20.182	
4,000.0	3,931.8	3,983.2	3,962.5	13.9	12.6	-136.65	328.4	187.6	438.6	416.7	21.90	20.027	
4,100.0	4,028.4	4,082.4	4,060.7	14.4	13.0	-137.43	333.6	200.4	450.2	427.5	22.65	19.877	
4,200.0	4,125.0	4,181.5	4,158.9	14.9	13.4	-138.18	338.8	213.2	461.8	438.4	23.40	19.731	
4,300.0	4,221.6	4,280.7	4,257.1	15.3	13.8	-138.89	343.9	226.0	473.4	449.3	24.17	19.591	
4,400.0	4,318.2	4,379.8	4,355.3	15.8	14.2	-139.57	349.1	238.8	485.2	460.3	24.94	19.455	
4,500.0	4,414.8	4,478.9	4,453.4	16.3	14.6	-140.21	354.3	251.6	497.0	471.3	25.72	19.324	
4,600.0	4,511.4	4,578.1	4,551.6	16.7	15.0	-140.83	359.4	264.4	508.9	482.4	26.51	19.197	
4,700.0	4,608.0	4,677.2	4,649.8	17.2	15.4	-141.41	364.6	277.1	520.8	493.5	27.30	19.076	
4,800.0	4,704.6	4,776.4	4,748.0	17.7	15.8	-141.98	369.8	289.9	532.8	504.7	28.10	18.960	
4,900.0	4,801.2	4,875.5	4,846.2	18.2	16.3	-142.51	374.9	302.7	544.8	515.9	28.91	18.848	
5,000.0	4,897.8	4,974.7	4,944.4	18.7	16.7	-143.02	380.1	315.5	556.9	527.2	29.71	18.741	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11164-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	
5,100.0	4,994.4	5,073.8	5,042.5	19.1	17.1	-143.51	385.3	328.3	569.0	538.5	30.52	18.644	
5,200.0	5,090.9	5,167.3	5,135.2	19.6	17.5	-144.01	389.9	339.8	581.6	550.3	31.31	18.574	
5,300.0	5,187.5	5,260.0	5,227.2	20.1	17.8	-144.59	394.0	349.8	595.3	563.2	32.13	18.530	
5,400.0	5,284.1	5,352.2	5,319.0	20.6	18.2	-145.24	397.4	358.4	610.1	577.2	32.95	18.516 SF	
5,500.0	5,380.7	5,443.9	5,410.4	21.1	18.5	-145.97	400.3	365.5	626.1	592.3	33.79	18.530	
5,600.0	5,477.3	5,535.1	5,501.3	21.5	18.9	-146.75	402.6	371.3	643.2	608.6	34.63	18.575	
5,700.0	5,573.9	5,625.7	5,591.9	22.0	19.2	-147.59	404.4	375.7	661.6	626.1	35.48	18.649	
5,800.0	5,670.5	5,715.8	5,681.8	22.5	19.5	-148.46	405.7	378.8	681.2	644.9	36.32	18.756	
5,900.0	5,767.1	5,805.1	5,771.2	23.0	19.7	-149.36	406.4	380.5	702.1	665.0	37.15	18.900	
6,000.0	5,863.7	5,895.0	5,861.0	23.5	19.8	-150.29	406.6	381.0	724.3	686.4	37.91	19.105	
6,100.0	5,960.3	5,991.6	5,957.6	24.0	19.9	-151.27	406.6	381.0	747.0	708.3	38.70	19.301	
6,200.0	6,056.9	6,088.2	6,054.2	24.5	19.9	-152.19	406.6	381.0	770.0	730.5	39.48	19.503	
6,300.0	6,153.5	6,184.8	6,150.8	24.9	20.0	-153.05	406.6	381.0	793.2	752.9	40.25	19.707	
6,400.0	6,250.1	6,281.4	6,247.4	25.4	20.0	-153.87	406.6	381.0	816.5	775.5	41.00	19.912	
6,500.0	6,346.6	6,378.0	6,344.0	25.9	20.0	-154.64	406.6	381.0	839.9	798.2	41.75	20.117	
6,600.0	6,443.2	6,474.6	6,440.6	26.4	20.1	-155.38	406.6	381.0	863.5	821.0	42.49	20.321	
6,700.0	6,539.8	6,571.2	6,537.2	26.9	20.1	-156.07	406.6	381.0	887.3	844.0	43.23	20.525	
6,800.0	6,636.4	6,667.7	6,633.8	27.4	20.2	-156.73	406.6	381.0	911.1	867.1	43.96	20.727	
6,900.0	6,733.0	6,764.3	6,730.4	27.9	20.2	-157.35	406.6	381.0	935.1	890.4	44.68	20.928	
7,000.0	6,829.6	6,860.9	6,827.0	28.4	20.3	-157.94	406.6	381.0	959.1	913.7	45.40	21.126	
7,081.2	6,908.0	6,939.3	6,905.3	28.8	20.3	-158.40	406.6	381.0	978.7	932.7	45.97	21.289	
7,100.0	6,926.2	6,957.5	6,923.6	28.9	20.3	-158.52	406.6	381.0	983.2	937.1	46.10	21.327	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11396-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-16.94	200.5	-61.1	209.6				
100.0	100.0	97.2	97.2	3.0	3.0	-16.94	200.5	-61.1	209.6	203.1	6.52	32.151	
200.0	200.0	197.2	197.2	3.2	3.2	-16.94	200.5	-61.1	209.6	202.8	6.77	30.979	
300.0	300.0	297.2	297.2	3.3	3.3	-16.94	200.5	-61.1	209.6	202.6	7.01	29.890	
400.0	400.0	397.2	397.2	3.4	3.4	-16.94	200.5	-61.1	209.6	202.4	7.26	28.886	
500.0	500.0	497.2	497.2	3.5	3.5	-16.94	200.5	-61.1	209.6	202.1	7.50	27.955	
600.0	600.0	597.2	597.2	3.7	3.7	-16.94	200.5	-61.1	209.6	201.9	7.74	27.090	
700.0	700.0	697.2	697.2	3.8	3.8	-16.94	200.5	-61.1	209.6	201.6	7.98	26.282	
800.0	800.0	797.2	797.2	3.9	3.9	-16.94	200.5	-61.1	209.6	201.4	8.21	25.525	
900.0	900.0	897.2	897.2	4.0	4.0	-16.94	200.5	-61.1	209.6	201.2	8.45	24.816	
1,000.0	1,000.0	997.2	997.2	4.2	4.2	-16.94	200.5	-61.1	209.6	200.9	8.68	24.148	
1,100.0	1,100.0	1,097.2	1,097.2	4.3	4.3	-16.94	200.5	-61.1	209.6	200.7	8.91	23.518	
1,200.0	1,200.0	1,197.2	1,197.2	4.4	4.4	-16.94	200.5	-61.1	209.6	200.5	9.14	22.923	
1,300.0	1,300.0	1,297.2	1,297.2	4.5	4.5	-16.94	200.5	-61.1	209.6	200.2	9.37	22.360	
1,400.0	1,400.0	1,397.2	1,397.2	4.6	4.6	-16.94	200.5	-61.1	209.6	200.0	9.60	21.826	
1,500.0	1,500.0	1,497.2	1,497.2	4.8	4.7	-16.94	200.5	-61.1	209.6	199.8	9.83	21.319 CC, ES	
1,600.0	1,600.0	1,596.0	1,596.0	4.9	4.9	-99.08	201.1	-60.0	210.2	200.1	10.02	20.968	
1,700.0	1,699.8	1,694.8	1,694.7	5.0	5.0	-99.43	203.0	-56.8	211.8	201.5	10.32	20.530	
1,800.0	1,799.5	1,793.6	1,793.3	5.2	5.2	-100.00	206.1	-51.3	214.7	204.1	10.61	20.229	
1,900.0	1,898.7	1,892.3	1,891.6	5.5	5.4	-100.77	210.6	-43.7	218.7	207.8	10.90	20.055	
2,000.0	1,997.5	1,991.1	1,989.7	5.9	5.7	-101.70	216.3	-33.8	223.9	212.7	11.20	19.993	
2,100.0	2,095.6	2,092.3	2,089.9	6.2	5.9	-102.77	223.2	-21.2	230.0	218.6	11.44	20.105	
2,200.0	2,193.1	2,195.6	2,191.7	6.6	6.2	-103.88	230.1	-4.8	235.7	224.0	11.76	20.043	
2,250.0	2,241.5	2,247.4	2,242.4	6.7	6.3	-104.42	233.5	4.8	238.3	226.5	11.86	20.094	
2,300.0	2,289.8	2,297.6	2,291.6	6.9	6.5	-104.96	236.7	14.7	240.8	228.8	11.96	20.140	
2,400.0	2,386.4	2,397.4	2,389.2	7.2	6.8	-105.99	243.1	34.4	245.7	233.4	12.31	19.970	
2,500.0	2,482.9	2,497.2	2,486.8	7.5	7.1	-106.98	249.5	54.2	250.8	238.1	12.68	19.785	
2,600.0	2,579.5	2,597.0	2,584.4	7.9	7.5	-107.93	255.9	73.9	255.9	242.8	13.06	19.590	
2,700.0	2,676.1	2,696.8	2,682.0	8.3	7.8	-108.84	262.3	93.6	261.1	247.6	13.47	19.386	
2,800.0	2,772.7	2,796.5	2,779.6	8.7	8.2	-109.72	268.7	113.4	266.3	252.4	13.89	19.176	
2,900.0	2,869.3	2,896.3	2,877.2	9.1	8.6	-110.56	275.1	133.1	271.6	257.3	14.33	18.960	
3,000.0	2,965.9	2,996.1	2,974.8	9.5	9.0	-111.37	281.6	152.8	277.0	262.2	14.78	18.741	
3,100.0	3,062.5	3,095.9	3,072.4	9.9	9.4	-112.15	288.0	172.6	282.4	267.1	15.25	18.519	
3,200.0	3,159.1	3,195.7	3,170.0	10.4	9.8	-112.90	294.4	192.3	287.8	272.1	15.73	18.295	
3,300.0	3,255.7	3,295.4	3,267.6	10.8	10.3	-113.62	300.8	212.0	293.3	277.1	16.23	18.072	
3,400.0	3,352.3	3,395.2	3,365.2	11.2	10.7	-114.32	307.2	231.8	298.9	282.2	16.75	17.849	
3,500.0	3,448.9	3,495.0	3,462.8	11.7	11.1	-114.99	313.6	251.5	304.5	287.2	17.27	17.628	
3,600.0	3,545.5	3,594.8	3,560.4	12.1	11.5	-115.63	320.0	271.2	310.1	292.3	17.81	17.410	
3,700.0	3,642.1	3,694.6	3,658.0	12.6	12.0	-116.25	326.4	290.9	315.8	297.4	18.37	17.195	
3,800.0	3,738.6	3,794.4	3,755.6	13.0	12.4	-116.85	332.8	310.7	321.5	302.6	18.93	16.984	
3,900.0	3,835.2	3,894.1	3,853.2	13.5	12.8	-117.43	339.3	330.4	327.3	307.7	19.51	16.776	
4,000.0	3,931.8	3,993.9	3,950.8	13.9	13.3	-117.99	345.7	350.1	333.0	312.9	20.09	16.574	
4,100.0	4,028.4	4,093.7	4,048.4	14.4	13.7	-118.53	352.1	369.9	338.8	318.1	20.69	16.376	
4,200.0	4,125.0	4,193.5	4,146.0	14.9	14.2	-119.05	358.5	389.6	344.7	323.4	21.30	16.183	
4,300.0	4,221.6	4,293.3	4,243.6	15.3	14.6	-119.56	364.9	409.3	350.5	328.6	21.92	15.995	
4,400.0	4,318.2	4,393.0	4,341.2	15.8	15.1	-120.05	371.3	429.1	356.4	333.9	22.54	15.812	
4,500.0	4,414.8	4,492.8	4,438.8	16.3	15.5	-120.52	377.7	448.8	362.3	339.2	23.17	15.635	
4,600.0	4,511.4	4,592.6	4,536.4	16.7	16.0	-120.98	384.1	468.5	368.3	344.5	23.82	15.463	
4,700.0	4,608.0	4,692.4	4,634.0	17.2	16.4	-121.42	390.5	488.2	374.2	349.8	24.47	15.296	
4,800.0	4,704.6	4,792.2	4,731.6	17.7	16.9	-121.85	397.0	508.0	380.2	355.1	25.12	15.134	
4,900.0	4,801.2	4,891.9	4,829.2	18.2	17.3	-122.26	403.4	527.7	386.2	360.4	25.79	14.977	
5,000.0	4,897.8	4,991.7	4,926.8	18.7	17.8	-122.66	409.8	547.4	392.2	365.8	26.46	14.825	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11396-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
5,100.0	4,994.4	5,091.5	5,024.4	19.1	18.3	-123.05	416.2	567.2	398.3	371.1	27.13	14.678	
5,200.0	5,090.9	5,191.3	5,122.0	19.6	18.7	-123.43	422.6	586.9	404.3	376.5	27.82	14.536	
5,300.0	5,187.5	5,291.1	5,219.6	20.1	19.2	-123.80	429.0	606.6	410.4	381.9	28.50	14.398	
5,400.0	5,284.1	5,390.8	5,317.2	20.6	19.6	-124.16	435.4	626.4	416.5	387.3	29.20	14.265	
5,500.0	5,380.7	5,490.6	5,414.8	21.1	20.1	-124.50	441.8	646.1	422.6	392.7	29.90	14.136	
5,600.0	5,477.3	5,590.4	5,512.4	21.5	20.6	-124.84	448.2	665.8	428.7	398.1	30.60	14.011	
5,700.0	5,573.9	5,690.2	5,610.0	22.0	21.0	-125.17	454.7	685.5	434.9	403.6	31.31	13.891	
5,800.0	5,670.5	5,790.0	5,707.6	22.5	21.5	-125.49	461.1	705.3	441.0	409.0	32.02	13.774	
5,900.0	5,767.1	5,889.8	5,805.2	23.0	21.9	-125.79	467.5	725.0	447.2	414.4	32.73	13.661	
6,000.0	5,863.7	5,985.3	5,898.8	23.5	22.4	-126.15	473.4	743.3	453.7	420.2	33.44	13.566	
6,100.0	5,960.3	6,078.1	5,990.3	24.0	22.8	-126.81	478.3	758.5	461.5	427.3	34.24	13.480	
6,200.0	6,056.9	6,170.4	6,081.6	24.5	23.2	-127.76	482.3	770.7	471.0	435.8	35.13	13.408	
6,300.0	6,153.5	6,261.8	6,172.5	24.9	23.6	-128.98	485.4	780.1	482.1	446.0	36.09	13.357	
6,400.0	6,250.1	6,352.3	6,262.7	25.4	24.0	-130.41	487.5	786.6	495.1	458.0	37.13	13.334 SF	
6,500.0	6,346.6	6,441.6	6,352.0	25.9	24.3	-132.03	488.7	790.4	510.1	471.9	38.22	13.348	
6,600.0	6,443.2	6,530.1	6,440.5	26.4	24.5	-133.80	489.1	791.6	527.3	488.0	39.31	13.413	
6,700.0	6,539.8	6,626.7	6,537.1	26.9	24.5	-135.73	489.1	791.6	545.8	505.4	40.46	13.489	
6,800.0	6,636.4	6,723.3	6,633.6	27.4	24.5	-137.54	489.1	791.6	565.0	523.4	41.59	13.585	
6,900.0	6,733.0	6,819.9	6,730.2	27.9	24.6	-139.23	489.1	791.6	584.6	541.9	42.67	13.699	
7,000.0	6,829.6	6,916.5	6,826.8	28.4	24.6	-140.81	489.1	791.6	604.7	561.0	43.73	13.829	
7,081.2	6,908.0	6,994.9	6,905.2	28.8	24.6	-142.01	489.1	791.6	621.4	576.8	44.55	13.946	
7,100.0	6,926.2	7,013.1	6,923.4	28.9	24.6	-142.31	489.1	791.6	625.2	580.5	44.74	13.975	
7,200.0	7,023.1	7,110.0	7,020.3	29.3	24.7	-143.76	489.1	791.6	645.2	599.5	45.71	14.116	
7,300.0	7,120.4	7,207.3	7,117.6	29.8	24.7	-145.03	489.1	791.6	664.1	617.5	46.61	14.248	
7,400.0	7,218.1	7,305.0	7,215.3	30.3	24.7	-146.15	489.1	791.6	681.8	634.4	47.46	14.367	
7,500.0	7,316.2	7,403.1	7,313.4	30.8	24.8	-147.13	489.1	791.6	698.3	650.1	48.25	14.472	
7,600.0	7,414.6	7,501.5	7,411.8	31.2	24.8	-147.99	489.1	791.6	713.5	664.5	49.00	14.561	
7,700.0	7,513.2	7,600.1	7,510.5	31.7	24.8	-148.74	489.1	791.6	727.3	677.6	49.70	14.633	
7,800.0	7,612.2	7,699.1	7,609.4	32.1	24.9	-149.38	489.1	791.6	739.7	689.4	50.37	14.687	
7,900.0	7,711.4	7,798.3	7,708.6	32.5	24.9	-149.93	489.1	791.6	750.7	699.8	50.99	14.723	
8,000.0	7,810.8	7,897.7	7,808.0	32.9	24.9	-150.39	489.1	791.6	760.3	708.7	51.58	14.741	
8,100.0	7,910.3	7,997.2	7,907.6	33.3	25.0	-150.77	489.1	791.6	768.4	716.2	52.12	14.742	
8,200.0	8,010.0	8,097.0	8,007.3	33.7	25.0	-151.08	489.1	791.6	774.9	722.3	52.63	14.726	
8,300.0	8,109.9	8,196.8	8,107.1	34.1	25.1	-151.30	489.1	791.6	780.0	726.9	53.08	14.694	
8,400.0	8,209.8	8,296.7	8,207.0	34.4	25.1	-151.46	489.1	791.6	783.5	730.1	53.49	14.648	
8,500.0	8,309.8	8,396.7	8,307.0	34.7	25.1	-151.55	489.1	791.6	785.6	731.7	53.84	14.591	
8,581.2	8,390.9	8,477.8	8,388.1	34.8	25.2	-69.57	489.1	791.6	786.1	732.1	53.99	14.560	
8,600.0	8,409.8	8,496.7	8,407.0	34.8	25.2	-69.57	489.1	791.6	786.1	732.1	53.99	14.558	
8,700.0	8,509.8	8,596.7	8,507.0	34.8	25.2	-69.57	489.1	791.6	786.1	732.0	54.07	14.539	
8,800.0	8,609.8	8,696.7	8,607.0	34.8	25.3	-69.57	489.1	791.6	786.1	731.9	54.13	14.522	
8,900.0	8,709.8	8,796.7	8,707.0	34.8	25.3	-69.57	489.1	791.6	786.1	731.9	54.20	14.504	
9,000.0	8,809.8	8,896.7	8,807.0	34.9	25.3	-69.57	489.1	791.6	786.1	731.8	54.26	14.487	
9,100.0	8,909.8	8,996.7	8,907.0	34.9	25.4	-69.57	489.1	791.6	786.1	731.7	54.33	14.469	
9,200.0	9,009.8	9,096.7	9,007.0	34.9	25.4	-69.57	489.1	791.6	786.1	731.7	54.39	14.451	
9,300.0	9,109.8	9,196.7	9,107.0	34.9	25.5	-69.57	489.1	791.6	786.1	731.6	54.46	14.433	
9,400.0	9,209.8	9,296.7	9,207.0	35.0	25.5	-69.57	489.1	791.6	786.1	731.5	54.53	14.415	
9,500.0	9,309.8	9,396.7	9,307.0	35.0	25.5	-69.57	489.1	791.6	786.1	731.5	54.60	14.398	
9,600.0	9,409.8	9,496.7	9,407.0	35.0	25.6	-69.57	489.1	791.6	786.1	731.4	54.67	14.380	
9,700.0	9,509.8	9,596.7	9,507.0	35.0	25.6	-69.57	489.1	791.6	786.1	731.3	54.73	14.362	
9,800.0	9,609.8	9,696.7	9,607.0	35.1	25.7	-69.57	489.1	791.6	786.1	731.3	54.80	14.343	
9,900.0	9,709.8	9,796.7	9,707.0	35.1	25.7	-69.57	489.1	791.6	786.1	731.2	54.87	14.325	
10,000.0	9,809.8	9,896.7	9,807.0	35.1	25.7	-69.57	489.1	791.6	786.1	731.1	54.94	14.307	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11396-r.5 MWD+IFR1+MS				Reference Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,100.0	9,909.8	9,996.7	9,907.0	35.1	25.8	-69.57	489.1	791.6	786.1	731.1	55.01	14.289			
10,200.0	10,009.8	10,096.7	10,007.0	35.2	25.8	-69.57	489.1	791.6	786.1	731.0	55.08	14.270			
10,300.0	10,109.8	10,196.7	10,107.0	35.2	25.9	-69.57	489.1	791.6	786.1	730.9	55.15	14.252			
10,400.0	10,209.8	10,296.7	10,207.0	35.2	25.9	-69.57	489.1	791.6	786.1	730.8	55.23	14.234			
10,500.0	10,309.8	10,396.7	10,307.0	35.2	25.9	-69.57	489.1	791.6	786.1	730.8	55.30	14.215			
10,600.0	10,409.8	10,496.7	10,407.0	35.3	26.0	-69.57	489.1	791.6	786.1	730.7	55.37	14.197			
10,700.0	10,509.8	10,596.7	10,507.0	35.3	26.0	-69.57	489.1	791.6	786.1	730.6	55.44	14.178			
10,800.0	10,609.8	10,696.7	10,607.0	35.3	26.1	-69.57	489.1	791.6	786.1	730.6	55.52	14.159			
10,900.0	10,709.8	10,796.7	10,707.0	35.3	26.1	-69.57	489.1	791.6	786.1	730.5	55.59	14.141			
11,000.0	10,809.8	10,896.7	10,807.0	35.4	26.2	-69.57	489.1	791.6	786.1	730.4	55.66	14.122			
11,100.0	10,909.8	10,996.7	10,907.0	35.4	26.2	-69.57	489.1	791.6	786.1	730.3	55.74	14.103			
11,200.0	11,009.8	11,096.7	11,007.0	35.4	26.2	-69.57	489.1	791.6	786.1	730.3	55.81	14.085			
11,300.0	11,109.8	11,196.7	11,107.0	35.5	26.3	-69.57	489.1	791.6	786.1	730.2	55.89	14.066			
11,400.0	11,209.8	11,296.7	11,207.0	35.5	26.3	-69.57	489.1	791.6	786.1	730.1	55.96	14.047			
11,466.1	11,275.9	11,362.8	11,273.1	35.5	26.4	-69.57	489.1	791.6	786.1	730.1	56.01	14.035			
11,499.3	11,309.0	11,395.7	11,306.0	35.5	26.4	-69.57	489.1	791.6	786.1	730.0	56.03	14.029			
11,500.0	11,309.8	11,395.7	11,306.0	35.5	26.4	114.03	489.1	791.6	786.1	730.0	56.02	14.031			
11,550.0	11,359.7	11,429.9	11,340.2	35.5	26.4	114.06	490.1	791.6	787.5	731.7	55.78	14.119			
11,600.0	11,409.2	11,462.5	11,372.6	35.5	26.4	114.14	493.0	791.6	791.8	736.5	55.38	14.299			
11,650.0	11,458.0	11,500.0	11,409.7	35.5	26.4	114.39	498.6	791.6	799.2	744.3	54.89	14.560			
11,700.0	11,505.7	11,521.3	11,430.6	35.5	26.4	114.13	502.8	791.5	809.5	755.4	54.16	14.948			
11,750.0	11,551.8	11,550.0	11,458.5	35.5	26.4	114.00	509.7	791.5	823.2	769.8	53.40	15.416			
11,800.0	11,596.1	11,568.1	11,475.8	35.5	26.4	113.20	514.8	791.5	840.2	787.6	52.52	15.997			
11,850.0	11,638.3	11,586.4	11,493.2	35.6	26.4	112.12	520.5	791.5	860.5	808.9	51.62	16.669			
11,900.0	11,677.9	11,600.0	11,506.0	35.6	26.4	110.42	525.1	791.5	884.1	833.4	50.71	17.434			
11,950.0	11,714.7	11,613.2	11,518.4	35.6	26.4	108.30	529.9	791.5	910.7	860.9	49.82	18.279			
12,000.0	11,748.4	11,622.1	11,526.6	35.6	26.4	105.43	533.2	791.5	940.1	891.1	48.97	19.198			
12,050.0	11,778.8	11,628.2	11,532.2	35.6	26.4	101.86	535.6	791.4	972.0	923.8	48.17	20.177			

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11280-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-8.80	200.2	-31.0	202.6				
100.0	100.0	97.3	97.3	3.0	3.0	-8.80	200.2	-31.0	202.6	196.1	6.52	31.079	
200.0	200.0	197.3	197.3	3.2	3.2	-8.80	200.2	-31.0	202.6	195.9	6.77	29.943	
300.0	300.0	297.3	297.3	3.3	3.3	-8.80	200.2	-31.0	202.6	195.6	7.01	28.887	
400.0	400.0	397.3	397.3	3.4	3.4	-8.80	200.2	-31.0	202.6	195.4	7.26	27.911	
500.0	500.0	497.3	497.3	3.5	3.5	-8.80	200.2	-31.0	202.6	195.1	7.50	27.007	
600.0	600.0	597.3	597.3	3.7	3.7	-8.80	200.2	-31.0	202.6	194.9	7.74	26.164	
700.0	700.0	697.3	697.3	3.8	3.8	-8.80	200.2	-31.0	202.6	194.6	7.98	25.377	
800.0	800.0	797.3	797.3	3.9	3.9	-8.80	200.2	-31.0	202.6	194.4	8.22	24.640	
900.0	900.0	897.3	897.3	4.0	4.0	-8.80	200.2	-31.0	202.6	194.2	8.46	23.948	
1,000.0	1,000.0	997.3	997.3	4.2	4.2	-8.80	200.2	-31.0	202.6	193.9	8.70	23.297	
1,100.0	1,100.0	1,097.3	1,097.3	4.3	4.3	-8.80	200.2	-31.0	202.6	193.7	8.93	22.683	
1,200.0	1,200.0	1,197.3	1,197.3	4.4	4.4	-8.80	200.2	-31.0	202.6	193.5	9.17	22.102	
1,300.0	1,300.0	1,297.3	1,297.3	4.5	4.5	-8.80	200.2	-31.0	202.6	193.2	9.40	21.553	
1,400.0	1,400.0	1,397.3	1,397.3	4.6	4.6	-8.80	200.2	-31.0	202.6	193.0	9.63	21.032	
1,500.0	1,500.0	1,497.3	1,497.3	4.8	4.7	-8.80	200.2	-31.0	202.6	192.8	9.87	20.537 CC, ES	
1,600.0	1,600.0	1,595.5	1,595.4	4.9	4.9	-90.96	200.8	-30.0	203.1	193.0	10.06	20.189	
1,700.0	1,699.8	1,693.6	1,693.5	5.0	5.0	-91.40	202.7	-26.8	204.5	194.2	10.35	19.756	
1,800.0	1,799.5	1,791.7	1,791.4	5.2	5.2	-92.11	205.8	-21.4	207.0	196.4	10.65	19.445	
1,900.0	1,898.7	1,891.3	1,890.6	5.5	5.3	-93.03	210.1	-13.5	210.3	199.4	10.87	19.350	
2,000.0	1,997.5	1,992.2	1,990.7	5.9	5.6	-93.96	214.7	-2.1	213.5	202.4	11.16	19.137	
2,100.0	2,095.6	2,093.2	2,090.5	6.2	5.9	-94.86	219.6	12.9	216.6	205.1	11.46	18.906	
2,200.0	2,193.1	2,194.3	2,189.8	6.6	6.3	-95.75	224.8	31.3	219.4	207.7	11.76	18.654	
2,250.0	2,241.5	2,245.0	2,239.3	6.7	6.5	-96.18	227.5	41.9	220.8	208.9	11.89	18.572	
2,300.0	2,289.8	2,295.7	2,288.6	6.9	6.6	-96.52	230.2	53.3	222.0	210.0	12.02	18.477	
2,400.0	2,386.4	2,395.7	2,385.6	7.2	7.0	-96.93	235.6	76.9	224.3	212.0	12.36	18.153	
2,500.0	2,482.9	2,495.7	2,482.6	7.5	7.3	-97.32	241.1	100.5	226.7	213.9	12.71	17.828	
2,600.0	2,579.5	2,595.6	2,579.6	7.9	7.7	-97.71	246.5	124.0	229.0	215.9	13.08	17.503	
2,700.0	2,676.1	2,695.6	2,676.6	8.3	8.0	-98.09	252.0	147.6	231.3	217.9	13.46	17.182	
2,800.0	2,772.7	2,795.5	2,773.6	8.7	8.4	-98.46	257.4	171.2	233.7	219.8	13.86	16.866	
2,900.0	2,869.3	2,895.5	2,870.6	9.1	8.8	-98.83	262.8	194.7	236.0	221.8	14.26	16.554	
3,000.0	2,965.9	2,995.5	2,967.6	9.5	9.2	-99.19	268.3	218.3	238.4	223.7	14.67	16.250	
3,100.0	3,062.5	3,095.4	3,064.6	9.9	9.6	-99.54	273.7	241.9	240.8	225.7	15.09	15.953	
3,200.0	3,159.1	3,195.4	3,161.6	10.4	10.1	-99.88	279.2	265.4	243.2	227.6	15.53	15.663	
3,300.0	3,255.7	3,295.3	3,258.6	10.8	10.5	-100.22	284.6	289.0	245.6	229.6	15.97	15.381	
3,400.0	3,352.3	3,395.3	3,355.5	11.2	10.9	-100.55	290.0	312.5	248.0	231.6	16.41	15.108	
3,500.0	3,448.9	3,495.3	3,452.5	11.7	11.4	-100.87	295.5	336.1	250.4	233.5	16.87	14.843	
3,600.0	3,545.5	3,595.2	3,549.5	12.1	11.8	-101.19	300.9	359.7	252.8	235.5	17.33	14.586	
3,700.0	3,642.1	3,695.2	3,646.5	12.6	12.2	-101.50	306.4	383.2	255.2	237.4	17.80	14.337	
3,800.0	3,738.6	3,795.1	3,743.5	13.0	12.7	-101.81	311.8	406.8	257.7	239.4	18.28	14.097	
3,900.0	3,835.2	3,895.1	3,840.5	13.5	13.1	-102.11	317.2	430.4	260.1	241.4	18.76	13.864	
4,000.0	3,931.8	3,995.1	3,937.5	13.9	13.6	-102.41	322.7	453.9	262.6	243.3	19.25	13.639	
4,100.0	4,028.4	4,095.0	4,034.5	14.4	14.1	-102.69	328.1	477.5	265.0	245.3	19.75	13.422	
4,200.0	4,125.0	4,195.0	4,131.5	14.9	14.5	-102.98	333.6	501.1	267.5	247.2	20.25	13.212	
4,300.0	4,221.6	4,295.0	4,228.5	15.3	15.0	-103.26	339.0	524.6	270.0	249.2	20.75	13.009	
4,400.0	4,318.2	4,394.9	4,325.5	15.8	15.4	-103.53	344.4	548.2	272.4	251.2	21.26	12.812	
4,500.0	4,414.8	4,494.9	4,422.5	16.3	15.9	-103.80	349.9	571.7	274.9	253.1	21.78	12.623	
4,600.0	4,511.4	4,594.8	4,519.4	16.7	16.4	-104.06	355.3	595.3	277.4	255.1	22.30	12.440	
4,700.0	4,608.0	4,694.8	4,616.4	17.2	16.8	-104.32	360.8	618.9	279.9	257.1	22.83	12.263	
4,800.0	4,704.6	4,794.8	4,713.4	17.7	17.3	-104.58	366.2	642.4	282.4	259.0	23.36	12.091	
4,900.0	4,801.2	4,894.7	4,810.4	18.2	17.8	-104.83	371.6	666.0	284.9	261.0	23.89	11.926	
5,000.0	4,897.8	4,994.7	4,907.4	18.7	18.2	-105.07	377.1	689.6	287.4	263.0	24.43	11.766	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11280-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		
5,100.0	4,994.4	5,094.6	5,004.4	19.1	18.7	-105.32	382.5	713.1	289.9	265.0	24.97	11.611		
5,200.0	5,090.9	5,194.6	5,101.4	19.6	19.2	-105.55	388.0	736.7	292.4	266.9	25.52	11.461		
5,300.0	5,187.5	5,294.6	5,198.4	20.1	19.7	-105.79	393.4	760.2	295.0	268.9	26.07	11.316		
5,400.0	5,284.1	5,394.5	5,295.4	20.6	20.1	-106.02	398.8	783.8	297.5	270.9	26.62	11.175		
5,500.0	5,380.7	5,494.5	5,392.4	21.1	20.6	-106.24	404.3	807.4	300.0	272.9	27.18	11.039		
5,600.0	5,477.3	5,594.4	5,489.4	21.5	21.1	-106.46	409.7	830.9	302.6	274.8	27.74	10.907		
5,700.0	5,573.9	5,694.4	5,586.4	22.0	21.6	-106.68	415.2	854.5	305.1	276.8	28.31	10.780		
5,800.0	5,670.5	5,794.4	5,683.3	22.5	22.1	-106.90	420.6	878.1	307.7	278.8	28.87	10.656		
5,900.0	5,767.1	5,894.3	5,780.3	23.0	22.5	-107.11	426.0	901.6	310.2	280.8	29.44	10.536		
6,000.0	5,863.7	5,994.3	5,877.3	23.5	23.0	-107.31	431.5	925.2	312.8	282.8	30.02	10.419		
6,100.0	5,960.3	6,094.3	5,974.3	24.0	23.5	-107.52	436.9	948.7	315.3	284.7	30.60	10.307		
6,200.0	6,056.9	6,194.2	6,071.3	24.5	24.0	-107.72	442.4	972.3	317.9	286.7	31.18	10.197		
6,300.0	6,153.5	6,294.2	6,168.3	24.9	24.5	-107.92	447.8	995.9	320.5	288.7	31.76	10.091		
6,400.0	6,250.1	6,394.1	6,265.3	25.4	24.9	-108.11	453.2	1,019.4	323.0	290.7	32.35	9.987		
6,500.0	6,346.6	6,494.1	6,362.3	25.9	25.4	-108.30	458.7	1,043.0	325.6	292.7	32.93	9.887		
6,600.0	6,443.2	6,594.1	6,459.3	26.4	25.9	-108.49	464.1	1,066.6	328.2	294.7	33.53	9.789		
6,700.0	6,539.8	6,694.0	6,556.3	26.9	26.4	-108.68	469.6	1,090.1	330.8	296.7	34.12	9.695		
6,800.0	6,636.4	6,794.0	6,653.3	27.4	26.9	-108.86	475.0	1,113.7	333.4	298.7	34.72	9.603		
6,900.0	6,733.0	6,891.9	6,748.5	27.9	27.3	-109.18	480.1	1,136.0	336.2	300.9	35.33	9.516		
7,000.0	6,829.6	6,988.8	6,843.4	28.4	27.8	-110.00	484.5	1,155.0	339.8	303.8	36.07	9.422		
7,081.2	6,908.0	7,067.1	6,920.5	28.8	28.2	-111.04	487.5	1,168.0	343.6	306.8	36.76	9.345		
7,100.0	6,926.2	7,085.2	6,938.4	28.9	28.2	-111.33	488.2	1,170.8	344.5	307.6	36.94	9.327		
7,200.0	7,023.1	7,181.1	7,033.4	29.3	28.7	-112.99	491.1	1,183.4	349.9	312.0	37.92	9.229		
7,300.0	7,120.4	7,276.4	7,128.2	29.8	29.1	-114.84	493.3	1,192.9	356.1	317.1	38.96	9.140		
7,400.0	7,218.1	7,371.0	7,222.6	30.3	29.4	-116.84	494.7	1,199.2	363.0	323.0	40.07	9.060		
7,500.0	7,316.2	7,465.0	7,316.5	30.8	29.7	-118.98	495.5	1,202.6	370.9	329.7	41.23	8.996		
7,600.0	7,414.6	7,560.3	7,411.8	31.2	29.9	-121.24	495.6	1,203.1	379.7	337.3	42.43	8.950		
7,700.0	7,513.2	7,659.0	7,510.5	31.7	29.9	-123.34	495.6	1,203.1	388.5	344.9	43.59	8.911		
7,800.0	7,612.2	7,758.0	7,609.5	32.1	29.9	-125.14	495.6	1,203.1	396.7	352.0	44.66	8.881		
7,900.0	7,711.4	7,857.1	7,708.7	32.5	29.9	-126.66	495.6	1,203.1	404.2	358.5	45.62	8.858		
8,000.0	7,810.8	7,956.5	7,808.1	32.9	30.0	-127.94	495.6	1,203.1	410.8	364.4	46.48	8.839		
8,100.0	7,910.3	8,056.1	7,907.6	33.3	30.0	-128.99	495.6	1,203.1	416.6	369.4	47.24	8.820		
8,200.0	8,010.0	8,155.8	8,007.3	33.7	30.0	-129.82	495.6	1,203.1	421.4	373.5	47.89	8.799		
8,300.0	8,109.9	8,255.7	8,107.2	34.1	30.1	-130.44	495.6	1,203.1	425.1	376.7	48.45	8.775		
8,400.0	8,209.8	8,355.6	8,207.1	34.4	30.1	-130.88	495.6	1,203.1	427.8	378.9	48.90	8.748		
8,500.0	8,309.8	8,455.5	8,307.1	34.7	30.1	-131.12	495.6	1,203.1	429.3	380.0	49.23	8.719		
8,581.2	8,390.9	8,536.7	8,388.2	34.8	30.2	-49.18	495.6	1,203.1	429.6	380.3	49.37	8.702		
8,600.0	8,409.8	8,555.5	8,407.1	34.8	30.2	-49.18	495.6	1,203.1	429.6	380.3	49.38	8.701		
8,700.0	8,509.8	8,655.5	8,507.1	34.8	30.2	-49.18	495.6	1,203.1	429.6	380.2	49.45	8.688		
8,800.0	8,609.8	8,755.5	8,607.1	34.8	30.2	-49.18	495.6	1,203.1	429.6	380.1	49.52	8.676		
8,900.0	8,709.8	8,855.5	8,707.1	34.8	30.3	-49.18	495.6	1,203.1	429.6	380.0	49.59	8.664		
9,000.0	8,809.8	8,955.5	8,807.1	34.9	30.3	-49.18	495.6	1,203.1	429.6	380.0	49.66	8.651		
9,100.0	8,909.8	9,055.5	8,907.1	34.9	30.3	-49.18	495.6	1,203.1	429.6	379.9	49.73	8.639		
9,200.0	9,009.8	9,155.5	9,007.1	34.9	30.4	-49.18	495.6	1,203.1	429.6	379.8	49.80	8.627		
9,300.0	9,109.8	9,255.5	9,107.1	34.9	30.4	-49.18	495.6	1,203.1	429.6	379.8	49.87	8.615		
9,400.0	9,209.8	9,355.5	9,207.1	35.0	30.4	-49.18	495.6	1,203.1	429.6	379.7	49.94	8.602		
9,500.0	9,309.8	9,455.5	9,307.1	35.0	30.4	-49.18	495.6	1,203.1	429.6	379.6	50.02	8.590		
9,600.0	9,409.8	9,555.5	9,407.1	35.0	30.5	-49.18	495.6	1,203.1	429.6	379.5	50.09	8.578		
9,700.0	9,509.8	9,655.5	9,507.1	35.0	30.5	-49.18	495.6	1,203.1	429.6	379.5	50.16	8.565		
9,800.0	9,609.8	9,755.5	9,607.1	35.1	30.6	-49.18	495.6	1,203.1	429.6	379.4	50.23	8.553		
9,900.0	9,709.8	9,855.5	9,707.1	35.1	30.6	-49.18	495.6	1,203.1	429.6	379.3	50.31	8.540		
10,000.0	9,809.8	9,955.5	9,807.1	35.1	30.6	-49.18	495.6	1,203.1	429.6	379.3	50.38	8.528		

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11280-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)			
10,100.0	9,909.8	10,055.5	9,907.1	35.1	30.7	-49.18	495.6	1,203.1	429.6	379.2	50.45	8.515	
10,200.0	10,009.8	10,155.5	10,007.1	35.2	30.7	-49.18	495.6	1,203.1	429.6	379.1	50.53	8.503	
10,300.0	10,109.8	10,255.5	10,107.1	35.2	30.7	-49.18	495.6	1,203.1	429.6	379.0	50.60	8.490	
10,400.0	10,209.8	10,355.5	10,207.1	35.2	30.8	-49.18	495.6	1,203.1	429.6	379.0	50.68	8.477	
10,500.0	10,309.8	10,455.5	10,307.1	35.2	30.8	-49.18	495.6	1,203.1	429.6	378.9	50.76	8.465	
10,600.0	10,409.8	10,555.5	10,407.1	35.3	30.8	-49.18	495.6	1,203.1	429.6	378.8	50.83	8.452	
10,700.0	10,509.8	10,655.5	10,507.1	35.3	30.9	-49.18	495.6	1,203.1	429.6	378.7	50.91	8.439	
10,800.0	10,609.8	10,755.5	10,607.1	35.3	30.9	-49.18	495.6	1,203.1	429.6	378.6	50.99	8.427	
10,900.0	10,709.8	10,855.5	10,707.1	35.3	30.9	-49.18	495.6	1,203.1	429.6	378.6	51.06	8.414	
11,000.0	10,809.8	10,955.5	10,807.1	35.4	31.0	-49.18	495.6	1,203.1	429.6	378.5	51.14	8.401	
11,100.0	10,909.8	11,055.5	10,907.1	35.4	31.0	-49.18	495.6	1,203.1	429.6	378.4	51.22	8.388	
11,200.0	11,009.8	11,155.5	11,007.1	35.4	31.0	-49.18	495.6	1,203.1	429.6	378.3	51.30	8.375	
11,300.0	11,109.8	11,255.5	11,107.1	35.5	31.1	-49.18	495.6	1,203.1	429.6	378.3	51.37	8.364 SF	
11,400.0	11,209.8	11,330.3	11,181.8	35.5	31.1	-48.95	497.9	1,203.1	431.9	381.0	50.82	8.497	
11,499.3	11,309.0	11,400.0	11,250.6	35.5	31.1	-47.93	508.3	1,203.1	441.5	391.7	49.87	8.854	
11,500.0	11,309.8	11,400.0	11,250.6	35.5	31.1	135.66	508.3	1,203.1	441.6	391.8	49.86	8.858	
11,550.0	11,359.7	11,427.2	11,277.1	35.5	31.1	135.72	514.6	1,203.0	451.0	402.0	49.08	9.190	
11,600.0	11,409.2	11,450.0	11,299.0	35.5	31.1	135.50	520.8	1,203.0	465.6	417.4	48.22	9.656	
11,650.0	11,458.0	11,483.0	11,330.3	35.5	31.1	135.62	531.4	1,203.0	485.1	437.7	47.41	10.232	
11,700.0	11,505.7	11,500.0	11,346.1	35.5	31.1	134.65	537.5	1,203.0	509.5	463.0	46.56	10.944	
11,750.0	11,551.8	11,526.6	11,370.6	35.5	31.1	133.98	548.1	1,203.0	538.4	492.5	45.83	11.746	
11,800.0	11,596.1	11,550.0	11,391.6	35.5	31.1	132.73	558.3	1,202.9	571.4	526.2	45.21	12.639	
11,850.0	11,638.3	11,550.0	11,391.6	35.6	31.1	128.64	558.3	1,202.9	608.1	563.3	44.77	13.583	
11,900.0	11,677.9	11,567.7	11,407.2	35.6	31.1	125.37	566.6	1,202.9	647.7	603.3	44.40	14.587	
11,950.0	11,714.7	11,575.5	11,414.0	35.6	31.1	119.78	570.4	1,202.9	689.8	645.6	44.16	15.621	
12,000.0	11,748.4	11,580.7	11,418.6	35.6	31.1	112.21	573.0	1,202.9	733.8	689.8	44.00	16.678	
12,050.0	11,778.8	11,583.6	11,421.0	35.6	31.1	102.38	574.4	1,202.9	779.2	735.3	43.90	17.750	
12,100.0	11,805.6	11,584.4	11,421.7	35.6	31.1	90.45	574.8	1,202.9	825.4	781.6	43.83	18.830	
12,150.0	11,828.6	11,583.3	11,420.8	35.7	31.1	77.34	574.3	1,202.9	872.1	828.3	43.79	19.913	
12,200.0	11,847.7	11,580.5	11,418.4	35.7	31.1	64.59	572.9	1,202.9	918.8	875.0	43.76	20.995	
12,250.0	11,862.7	11,576.3	11,414.7	35.7	31.1	53.48	570.8	1,202.9	965.1	921.4	43.73	22.070	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11509-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	-0.30	200.1	-1.0	200.1				
100.0	100.0	97.3	97.3	3.0	3.0	-0.30	200.1	-1.0	200.1	193.6	6.52	30.687	
200.0	200.0	197.3	197.3	3.2	3.2	-0.30	200.1	-1.0	200.1	193.3	6.77	29.565	
300.0	300.0	297.3	297.3	3.3	3.3	-0.30	200.1	-1.0	200.1	193.1	7.02	28.520	
400.0	400.0	397.3	397.3	3.4	3.4	-0.30	200.1	-1.0	200.1	192.8	7.26	27.555	
500.0	500.0	497.3	497.3	3.5	3.5	-0.30	200.1	-1.0	200.1	192.6	7.50	26.660	
600.0	600.0	597.3	597.3	3.7	3.7	-0.30	200.1	-1.0	200.1	192.3	7.75	25.826	
700.0	700.0	697.3	697.3	3.8	3.8	-0.30	200.1	-1.0	200.1	192.1	7.99	25.047	
800.0	800.0	797.3	797.3	3.9	3.9	-0.30	200.1	-1.0	200.1	191.8	8.23	24.317	
900.0	900.0	897.3	897.3	4.0	4.0	-0.30	200.1	-1.0	200.1	191.6	8.47	23.631	
1,000.0	1,000.0	997.3	997.3	4.2	4.2	-0.30	200.1	-1.0	200.1	191.4	8.70	22.986 CC, ES	
1,100.0	1,100.0	1,096.2	1,096.2	4.3	4.3	0.16	200.3	0.6	200.3	191.4	8.93	22.433	
1,200.0	1,200.0	1,194.9	1,194.8	4.4	4.4	1.57	201.1	5.5	201.2	192.1	9.14	22.004	
1,300.0	1,300.0	1,293.1	1,292.6	4.5	4.6	3.89	202.4	13.8	202.9	193.6	9.36	21.683	
1,400.0	1,400.0	1,390.7	1,389.5	4.6	4.8	7.04	204.2	25.2	205.9	196.4	9.58	21.496	
1,500.0	1,500.0	1,487.3	1,485.0	4.8	5.0	10.91	206.5	39.8	210.7	200.9	9.81	21.481	
1,600.0	1,600.0	1,583.2	1,579.2	4.9	5.3	-66.95	209.3	57.4	217.1	207.1	10.03	21.646	
1,700.0	1,699.8	1,678.5	1,672.2	5.0	5.5	-63.10	212.6	78.0	224.6	214.2	10.38	21.647	
1,800.0	1,799.5	1,774.3	1,765.0	5.2	5.7	-59.53	216.3	101.6	233.0	222.3	10.69	21.791	
1,900.0	1,898.7	1,873.4	1,860.6	5.5	5.9	-56.62	220.3	126.9	240.8	229.7	11.09	21.704	
2,000.0	1,997.5	1,972.8	1,956.7	5.9	6.1	-54.56	224.4	152.3	247.1	235.5	11.55	21.391	
2,100.0	2,095.6	2,072.6	2,053.0	6.2	6.4	-53.25	228.4	177.8	251.5	239.5	12.04	20.897	
2,200.0	2,193.1	2,172.5	2,149.6	6.6	6.7	-52.64	232.4	203.4	254.0	241.4	12.55	20.242	
2,250.0	2,241.5	2,222.5	2,197.8	6.7	6.9	-52.59	234.5	216.2	254.4	241.7	12.76	19.934	
2,300.0	2,289.8	2,272.5	2,246.1	6.9	7.1	-52.62	236.5	228.9	254.6	241.6	12.98	19.610	
2,400.0	2,386.4	2,372.5	2,342.7	7.2	7.4	-52.68	240.5	254.5	255.0	241.5	13.51	18.875	
2,500.0	2,482.9	2,472.5	2,439.3	7.5	7.8	-52.75	244.6	280.1	255.3	241.3	14.06	18.166	
2,600.0	2,579.5	2,572.5	2,535.9	7.9	8.2	-52.81	248.6	305.6	255.7	241.1	14.62	17.487	
2,700.0	2,676.1	2,672.5	2,632.5	8.3	8.6	-52.87	252.7	331.2	256.0	240.8	15.20	16.840	
2,800.0	2,772.7	2,772.5	2,729.1	8.7	9.0	-52.93	256.7	356.8	256.4	240.6	15.80	16.226	
2,900.0	2,869.3	2,872.5	2,825.7	9.1	9.4	-52.99	260.8	382.3	256.8	240.4	16.41	15.644	
3,000.0	2,965.9	2,972.5	2,922.3	9.5	9.8	-53.05	264.8	407.9	257.1	240.1	17.03	15.094	
3,100.0	3,062.5	3,072.5	3,018.9	9.9	10.2	-53.12	268.9	433.4	257.5	239.8	17.67	14.574	
3,200.0	3,159.1	3,172.5	3,115.5	10.4	10.7	-53.18	272.9	459.0	257.8	239.5	18.31	14.084	
3,300.0	3,255.7	3,272.5	3,212.1	10.8	11.1	-53.24	277.0	484.6	258.2	239.2	18.96	13.621	
3,400.0	3,352.3	3,372.5	3,308.7	11.2	11.6	-53.30	281.0	510.1	258.6	238.9	19.61	13.184	
3,500.0	3,448.9	3,472.5	3,405.2	11.7	12.0	-53.36	285.1	535.7	258.9	238.6	20.27	12.771	
3,600.0	3,545.5	3,572.5	3,501.8	12.1	12.5	-53.42	289.1	561.3	259.3	238.3	20.94	12.381	
3,700.0	3,642.1	3,672.5	3,598.4	12.6	12.9	-53.48	293.2	586.8	259.6	238.0	21.61	12.013	
3,800.0	3,738.6	3,772.5	3,695.0	13.0	13.4	-53.54	297.2	612.4	260.0	237.7	22.29	11.665	
3,900.0	3,835.2	3,872.5	3,791.6	13.5	13.8	-53.60	301.3	637.9	260.4	237.4	22.97	11.335	
4,000.0	3,931.8	3,972.5	3,888.2	13.9	14.3	-53.66	305.3	663.5	260.7	237.1	23.65	11.023	
4,100.0	4,028.4	4,072.5	3,984.8	14.4	14.8	-53.72	309.4	689.1	261.1	236.7	24.34	10.727	
4,200.0	4,125.0	4,172.5	4,081.4	14.9	15.2	-53.78	313.4	714.6	261.4	236.4	25.03	10.446	
4,300.0	4,221.6	4,272.5	4,178.0	15.3	15.7	-53.84	317.5	740.2	261.8	236.1	25.72	10.180	
4,400.0	4,318.2	4,372.5	4,274.6	15.8	16.2	-53.89	321.5	765.8	262.2	235.8	26.41	9.926	
4,500.0	4,414.8	4,472.5	4,371.2	16.3	16.6	-53.95	325.6	791.3	262.5	235.4	27.11	9.685	
4,600.0	4,511.4	4,572.5	4,467.8	16.7	17.1	-54.01	329.6	816.9	262.9	235.1	27.80	9.455	
4,700.0	4,608.0	4,672.5	4,564.3	17.2	17.6	-54.07	333.7	842.5	263.3	234.8	28.50	9.236	
4,800.0	4,704.6	4,772.5	4,660.9	17.7	18.1	-54.13	337.7	868.0	263.6	234.4	29.20	9.028	
4,900.0	4,801.2	4,872.5	4,757.5	18.2	18.5	-54.19	341.8	893.6	264.0	234.1	29.90	8.828	
5,000.0	4,897.8	4,972.5	4,854.1	18.7	19.0	-54.24	345.8	919.1	264.4	233.7	30.60	8.638	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11509-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)			
5,100.0	4,994.4	5,072.5	4,950.7	19.1	19.5	-54.30	349.9	944.7	264.7	233.4	31.31	8.456	
5,200.0	5,090.9	5,172.5	5,047.3	19.6	20.0	-54.36	353.9	970.3	265.1	233.1	32.01	8.281	
5,300.0	5,187.5	5,272.5	5,143.9	20.1	20.5	-54.42	358.0	995.8	265.4	232.7	32.71	8.114	
5,400.0	5,284.1	5,372.5	5,240.5	20.6	21.0	-54.48	362.0	1,021.4	265.8	232.4	33.42	7.954	
5,500.0	5,380.7	5,472.5	5,337.1	21.1	21.4	-54.53	366.1	1,047.0	266.2	232.1	34.12	7.801	
5,600.0	5,477.3	5,572.5	5,433.7	21.5	21.9	-54.59	370.1	1,072.5	266.5	231.7	34.83	7.653	
5,700.0	5,573.9	5,672.5	5,530.3	22.0	22.4	-54.65	374.2	1,098.1	266.9	231.4	35.53	7.511	
5,800.0	5,670.5	5,772.5	5,626.9	22.5	22.9	-54.70	378.2	1,123.6	267.3	231.0	36.24	7.375	
5,900.0	5,767.1	5,872.5	5,723.4	23.0	23.4	-54.76	382.3	1,149.2	267.6	230.7	36.95	7.244	
6,000.0	5,863.7	5,972.4	5,820.0	23.5	23.9	-54.82	386.3	1,174.8	268.0	230.4	37.65	7.118	
6,100.0	5,960.3	6,072.4	5,916.6	24.0	24.4	-54.87	390.3	1,200.3	268.4	230.0	38.36	6.997	
6,200.0	6,056.9	6,172.4	6,013.2	24.5	24.8	-54.93	394.4	1,225.9	268.7	229.7	39.06	6.880	
6,300.0	6,153.5	6,272.4	6,109.8	24.9	25.3	-54.98	398.4	1,251.5	269.1	229.3	39.77	6.767	
6,400.0	6,250.1	6,372.4	6,206.4	25.4	25.8	-55.04	402.5	1,277.0	269.5	229.0	40.47	6.658	
6,500.0	6,346.6	6,472.4	6,303.0	25.9	26.3	-55.10	406.5	1,302.6	269.8	228.7	41.18	6.553	
6,600.0	6,443.2	6,572.4	6,399.6	26.4	26.8	-55.15	410.6	1,328.1	270.2	228.3	41.89	6.451	
6,700.0	6,539.8	6,672.4	6,496.2	26.9	27.3	-55.21	414.6	1,353.7	270.6	228.0	42.59	6.353	
6,800.0	6,636.4	6,772.4	6,592.8	27.4	27.8	-55.26	418.7	1,379.3	271.0	227.7	43.30	6.258	
6,900.0	6,733.0	6,872.4	6,689.4	27.9	28.3	-55.32	422.7	1,404.8	271.3	227.3	44.00	6.166	
7,000.0	6,829.6	6,972.4	6,786.0	28.4	28.8	-55.37	426.8	1,430.4	271.7	227.0	44.71	6.077	
7,081.2	6,908.0	7,053.6	6,864.3	28.8	29.2	-55.42	430.1	1,451.1	272.0	226.7	45.27	6.008	
7,100.0	6,926.2	7,072.4	6,882.5	28.9	29.3	-55.42	430.8	1,456.0	272.1	226.7	45.40	5.993	
7,200.0	7,023.1	7,172.4	6,979.1	29.3	29.7	-55.28	434.9	1,481.5	273.1	226.9	46.19	5.913	
7,300.0	7,120.4	7,277.1	7,080.5	29.8	30.3	-55.02	438.9	1,507.1	274.5	227.5	47.04	5.836	
7,400.0	7,218.1	7,383.0	7,184.0	30.3	30.8	-55.08	442.5	1,529.4	274.8	227.1	47.68	5.763	
7,500.0	7,316.2	7,488.9	7,288.3	30.8	31.3	-55.48	445.4	1,547.8	273.9	225.8	48.10	5.695	
7,600.0	7,414.6	7,594.7	7,392.9	31.2	31.8	-56.22	447.7	1,562.4	271.9	223.6	48.28	5.632	
7,700.0	7,513.2	7,700.1	7,497.8	31.7	32.2	-57.31	449.4	1,573.2	268.8	220.6	48.22	5.575	
7,800.0	7,612.2	7,805.1	7,602.6	32.1	32.6	-58.79	450.5	1,580.1	264.7	216.8	47.90	5.527	
7,900.0	7,711.4	7,909.6	7,707.1	32.5	32.9	-60.68	451.0	1,583.3	259.9	212.6	47.31	5.493	
8,000.0	7,810.8	8,010.6	7,808.0	32.9	33.0	-62.77	451.0	1,583.5	254.7	208.2	46.57	5.470	
8,100.0	7,910.3	8,110.2	7,907.6	33.3	33.0	-64.61	451.0	1,583.5	250.6	204.6	45.99	5.450	
8,200.0	8,010.0	8,209.9	8,007.3	33.7	33.0	-66.15	451.0	1,583.5	247.5	202.0	45.53	5.436	
8,300.0	8,109.9	8,309.7	8,107.2	34.1	33.0	-67.36	451.0	1,583.5	245.2	200.0	45.20	5.424	
8,400.0	8,209.8	8,409.6	8,207.1	34.4	33.1	-68.22	451.0	1,583.5	243.7	198.7	45.02	5.413	
8,500.0	8,309.8	8,509.6	8,307.0	34.7	33.1	-68.72	451.0	1,583.5	242.8	197.9	44.97	5.400	
8,581.2	8,390.9	8,590.8	8,388.2	34.8	33.1	13.16	451.0	1,583.5	242.6	197.6	45.00	5.391	
8,600.0	8,409.8	8,609.6	8,407.0	34.8	33.1	13.16	451.0	1,583.5	242.6	197.6	45.02	5.390	
8,700.0	8,509.8	8,709.6	8,507.0	34.8	33.1	13.16	451.0	1,583.5	242.6	197.5	45.11	5.379	
8,800.0	8,609.8	8,809.6	8,607.0	34.8	33.2	13.16	451.0	1,583.5	242.6	197.4	45.19	5.369	
8,900.0	8,709.8	8,909.6	8,707.0	34.8	33.2	13.16	451.0	1,583.5	242.6	197.3	45.28	5.358	
9,000.0	8,809.8	9,009.6	8,807.0	34.9	33.2	13.16	451.0	1,583.5	242.6	197.3	45.36	5.348	
9,100.0	8,909.8	9,109.6	8,907.0	34.9	33.2	13.16	451.0	1,583.5	242.6	197.2	45.45	5.338	
9,200.0	9,009.8	9,209.6	9,007.0	34.9	33.3	13.16	451.0	1,583.5	242.6	197.1	45.54	5.328	
9,300.0	9,109.8	9,309.6	9,107.0	34.9	33.3	13.16	451.0	1,583.5	242.6	197.0	45.63	5.318	
9,400.0	9,209.8	9,409.6	9,207.0	35.0	33.3	13.16	451.0	1,583.5	242.6	196.9	45.71	5.307	
9,500.0	9,309.8	9,509.6	9,307.0	35.0	33.4	13.16	451.0	1,583.5	242.6	196.8	45.80	5.297	
9,600.0	9,409.8	9,609.6	9,407.0	35.0	33.4	13.16	451.0	1,583.5	242.6	196.7	45.89	5.287	
9,700.0	9,509.8	9,709.6	9,507.0	35.0	33.4	13.16	451.0	1,583.5	242.6	196.6	45.98	5.277	
9,800.0	9,609.8	9,809.6	9,607.0	35.1	33.4	13.16	451.0	1,583.5	242.6	196.6	46.07	5.266	
9,900.0	9,709.8	9,909.6	9,707.0	35.1	33.5	13.16	451.0	1,583.5	242.6	196.5	46.16	5.256	
10,000.0	9,809.8	10,009.6	9,807.0	35.1	33.5	13.16	451.0	1,583.5	242.6	196.4	46.25	5.246	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11509-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
10,100.0	9,909.8	10,109.6	9,907.0	35.1	33.5	13.16	451.0	1,583.5	242.6	196.3	46.34	5.236	
10,200.0	10,009.8	10,209.6	10,007.0	35.2	33.5	13.16	451.0	1,583.5	242.6	196.2	46.43	5.225	
10,300.0	10,109.8	10,309.6	10,107.0	35.2	33.6	13.16	451.0	1,583.5	242.6	196.1	46.52	5.215	
10,400.0	10,209.8	10,409.6	10,207.0	35.2	33.6	13.16	451.0	1,583.5	242.6	196.0	46.62	5.205	
10,500.0	10,309.8	10,509.6	10,307.0	35.2	33.6	13.16	451.0	1,583.5	242.6	195.9	46.71	5.195	
10,600.0	10,409.8	10,609.6	10,407.0	35.3	33.7	13.16	451.0	1,583.5	242.6	195.8	46.80	5.184	
10,700.0	10,509.8	10,709.6	10,507.0	35.3	33.7	13.16	451.0	1,583.5	242.6	195.7	46.89	5.174	
10,800.0	10,609.8	10,809.6	10,607.0	35.3	33.7	13.16	451.0	1,583.5	242.6	195.6	46.99	5.164	
10,900.0	10,709.8	10,909.6	10,707.0	35.3	33.7	13.16	451.0	1,583.5	242.6	195.5	47.08	5.153	
11,000.0	10,809.8	11,009.6	10,807.0	35.4	33.8	13.16	451.0	1,583.5	242.6	195.4	47.17	5.143	
11,100.0	10,909.8	11,109.6	10,907.0	35.4	33.8	13.16	451.0	1,583.5	242.6	195.4	47.27	5.133	
11,200.0	11,009.8	11,209.6	11,007.0	35.4	33.8	13.16	451.0	1,583.5	242.6	195.3	47.36	5.123	
11,300.0	11,109.8	11,309.6	11,107.0	35.5	33.9	13.16	451.0	1,583.5	242.6	195.2	47.46	5.112	
11,400.0	11,209.8	11,409.6	11,207.0	35.5	33.9	13.16	451.0	1,583.5	242.6	195.1	47.55	5.102	
11,466.1	11,275.9	11,475.7	11,273.1	35.5	33.9	13.16	451.0	1,583.5	242.6	195.0	47.61	5.096	
11,499.3	11,309.0	11,508.6	11,306.0	35.5	33.9	13.16	451.0	1,583.5	242.6	195.0	47.65	5.092	
11,500.0	11,309.8	11,508.6	11,306.0	35.5	33.9	-163.24	451.0	1,583.5	242.6	195.0	47.67	5.089 SF	
11,550.0	11,359.7	11,550.0	11,347.4	35.5	33.9	-163.34	452.5	1,583.5	246.4	198.5	47.97	5.137	
11,600.0	11,409.2	11,578.5	11,375.7	35.5	33.9	-163.40	455.3	1,583.6	257.1	208.7	48.48	5.304	
11,650.0	11,458.0	11,610.4	11,407.3	35.5	33.9	-163.51	460.0	1,583.9	274.7	226.0	48.68	5.643	
11,700.0	11,505.7	11,639.6	11,435.9	35.5	33.9	-163.52	465.9	1,584.1	298.5	249.7	48.80	6.118	
11,750.0	11,551.8	11,665.6	11,461.0	35.5	33.9	-163.33	472.4	1,584.4	328.0	279.1	48.86	6.713	
11,800.0	11,596.1	11,687.9	11,482.4	35.5	33.9	-162.84	478.8	1,584.7	362.3	313.4	48.89	7.412	
11,850.0	11,638.3	11,700.0	11,493.9	35.6	33.9	-161.54	482.7	1,584.8	400.9	351.9	49.03	8.177	
11,900.0	11,677.9	11,721.9	11,514.5	35.6	33.9	-160.31	490.2	1,585.2	442.8	393.9	48.90	9.055	
11,950.0	11,714.7	11,733.9	11,525.5	35.6	34.0	-157.67	494.7	1,585.4	487.4	438.5	48.88	9.971	
12,000.0	11,748.4	11,750.0	11,540.3	35.6	34.0	-154.14	501.1	1,585.6	534.2	485.4	48.75	10.957	
12,050.0	11,778.8	11,750.0	11,540.3	35.6	34.0	-145.24	501.1	1,585.6	582.2	533.5	48.80	11.931	
12,100.0	11,805.6	11,750.0	11,540.3	35.6	34.0	-126.87	501.1	1,585.6	631.4	582.6	48.79	12.941	
12,150.0	11,828.6	11,750.0	11,540.3	35.7	34.0	-89.75	501.1	1,585.6	681.0	632.2	48.72	13.976	
12,200.0	11,847.7	11,750.0	11,540.3	35.7	34.0	-50.76	501.1	1,585.6	730.6	682.0	48.62	15.027	
12,250.0	11,862.7	11,750.0	11,540.3	35.7	34.0	-30.75	501.1	1,585.6	780.0	731.5	48.49	16.086	
12,300.0	11,873.4	11,750.0	11,540.3	35.8	34.0	-21.11	501.1	1,585.6	828.7	780.4	48.32	17.150	
12,350.0	11,879.9	11,750.0	11,540.3	35.8	34.0	-15.78	501.1	1,585.6	876.7	828.5	48.14	18.211	
12,399.3	11,882.0	11,734.0	11,525.7	35.9	34.0	-11.92	494.8	1,585.4	922.5	874.5	48.06	19.193	
12,400.0	11,882.0	11,733.9	11,525.6	35.9	34.0	-11.88	494.7	1,585.4	923.2	875.1	48.06	19.208	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11161-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.1	0.1	3.0	3.0	-89.66	0.9	-150.0	150.0					
100.0	100.0	100.1	100.1	3.0	3.0	-89.66	0.9	-150.0	150.0	143.5	6.52	23.005		
200.0	200.0	200.1	200.1	3.2	3.2	-89.66	0.9	-150.0	150.0	143.2	6.76	22.188		
300.0	300.0	300.1	300.1	3.3	3.3	-89.66	0.9	-150.0	150.0	143.0	6.99	21.454		
400.0	400.0	400.1	400.1	3.4	3.4	-89.66	0.9	-150.0	150.0	142.8	7.21	20.791		
500.0	500.0	500.1	500.1	3.5	3.5	-89.66	0.9	-150.0	150.0	142.6	7.43	20.186		
600.0	600.0	600.1	600.1	3.7	3.7	-89.66	0.9	-150.0	150.0	142.4	7.64	19.633		
700.0	700.0	700.1	700.1	3.8	3.8	-89.66	0.9	-150.0	150.0	142.2	7.84	19.123		
800.0	800.0	800.1	800.1	3.9	3.9	-89.66	0.9	-150.0	150.0	142.0	8.04	18.653		
900.0	900.0	900.1	900.1	4.0	4.0	-89.66	0.9	-150.0	150.0	141.8	8.23	18.216		
1,000.0	1,000.0	1,000.1	1,000.1	4.2	4.2	-89.66	0.9	-150.0	150.0	141.6	8.42	17.809		
1,100.0	1,100.0	1,100.1	1,100.1	4.3	4.3	-89.66	0.9	-150.0	150.0	141.4	8.61	17.428		
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	-89.66	0.9	-150.0	150.0	141.2	8.79	17.072		
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	-89.66	0.9	-150.0	150.0	141.0	8.96	16.736		
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	-89.66	0.9	-150.0	150.0	140.9	9.14	16.421		
1,466.6	1,466.6	1,466.7	1,466.7	4.7	4.7	-89.66	0.9	-150.0	150.0	140.8	9.25	16.221 CC		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-89.66	0.9	-150.0	150.0	140.7	9.30	16.123 ES		
1,600.0	1,600.0	1,595.9	1,595.9	4.9	4.9	-171.39	1.8	-151.3	153.1	143.5	9.64	15.885 SF		
1,700.0	1,699.8	1,691.2	1,691.0	5.0	5.1	-170.64	4.6	-155.2	162.4	152.2	10.13	16.028		
1,800.0	1,799.5	1,785.3	1,784.8	5.2	5.3	-169.57	9.2	-161.5	177.8	167.1	10.64	16.710		
1,900.0	1,898.7	1,879.4	1,878.3	5.5	5.5	-168.34	15.6	-170.2	199.2	188.1	11.07	17.999		
2,000.0	1,997.5	1,976.1	1,974.3	5.9	5.7	-167.37	22.5	-179.7	224.6	213.0	11.58	19.402		
2,100.0	2,095.6	2,071.8	2,069.3	6.2	5.9	-166.74	29.3	-189.1	253.4	241.2	12.13	20.884		
2,200.0	2,193.1	2,166.6	2,163.3	6.6	6.2	-166.36	36.1	-198.5	285.4	272.6	12.71	22.450		
2,250.0	2,241.5	2,213.5	2,209.9	6.7	6.3	-166.24	39.5	-203.1	302.6	289.6	12.95	23.355		
2,300.0	2,289.8	2,260.3	2,256.4	6.9	6.4	-166.23	42.8	-207.7	320.2	307.0	13.20	24.256		
2,400.0	2,386.4	2,353.9	2,349.3	7.2	6.7	-166.21	49.5	-217.0	355.3	341.6	13.76	25.825		
2,500.0	2,482.9	2,447.5	2,442.2	7.5	7.0	-166.20	56.3	-226.2	390.5	376.2	14.35	27.222		
2,600.0	2,579.5	2,541.1	2,535.1	7.9	7.3	-166.19	63.0	-235.4	425.7	410.8	14.95	28.468		
2,700.0	2,676.1	2,634.7	2,628.0	8.3	7.6	-166.18	69.7	-244.6	460.9	445.3	15.58	29.578		
2,800.0	2,772.7	2,728.3	2,720.9	8.7	7.9	-166.18	76.4	-253.9	496.1	479.9	16.23	30.570		
2,900.0	2,869.3	2,821.9	2,813.8	9.1	8.3	-166.17	83.1	-263.1	531.3	514.4	16.89	31.458		
3,000.0	2,965.9	2,915.5	2,906.7	9.5	8.6	-166.16	89.8	-272.3	566.5	548.9	17.56	32.254		
3,100.0	3,062.5	3,009.1	2,999.6	9.9	8.9	-166.16	96.5	-281.6	601.7	583.4	18.25	32.970		
3,200.0	3,159.1	3,102.7	3,092.5	10.4	9.3	-166.15	103.2	-290.8	636.9	617.9	18.95	33.615		
3,300.0	3,255.7	3,196.4	3,185.4	10.8	9.6	-166.15	109.9	-300.0	672.1	652.4	19.65	34.198		
3,400.0	3,352.3	3,290.0	3,278.4	11.2	9.9	-166.15	116.6	-309.2	707.2	686.9	20.37	34.726		
3,500.0	3,448.9	3,383.6	3,371.3	11.7	10.3	-166.14	123.3	-318.5	742.4	721.3	21.09	35.205		
3,600.0	3,545.5	3,477.2	3,464.2	12.1	10.7	-166.14	130.0	-327.7	777.6	755.8	21.82	35.642		
3,700.0	3,642.1	3,570.8	3,557.1	12.6	11.0	-166.14	136.7	-336.9	812.8	790.3	22.55	36.040		
3,800.0	3,738.6	3,664.4	3,650.0	13.0	11.4	-166.14	143.4	-346.2	848.0	824.7	23.29	36.405		
3,900.0	3,835.2	3,758.0	3,742.9	13.5	11.7	-166.13	150.1	-355.4	883.2	859.2	24.04	36.739		
4,000.0	3,931.8	3,851.6	3,835.8	13.9	12.1	-166.13	156.8	-364.6	918.4	893.6	24.79	37.046		
4,100.0	4,028.4	3,945.2	3,928.7	14.4	12.5	-166.13	163.5	-373.8	953.6	928.0	25.54	37.330		
4,200.0	4,125.0	4,038.8	4,021.6	14.9	12.8	-166.13	170.2	-383.1	988.8	962.5	26.30	37.591		

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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	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	0.0	0.0	3.0	3.0	-89.65	0.7	-120.1	120.1				
100.0	100.0	99.2	99.2	3.0	3.0	-89.65	0.7	-120.1	120.1	113.6	6.52	18.420	
200.0	200.0	199.2	199.2	3.2	3.2	-89.65	0.7	-120.1	120.1	113.3	6.76	17.767	
300.0	300.0	299.2	299.2	3.3	3.3	-89.65	0.7	-120.1	120.1	113.1	6.99	17.179	
400.0	400.0	399.2	399.2	3.4	3.4	-89.65	0.7	-120.1	120.1	112.9	7.21	16.647	
500.0	500.0	499.2	499.2	3.5	3.5	-89.65	0.7	-120.1	120.1	112.7	7.43	16.163	
600.0	600.0	599.2	599.2	3.7	3.7	-89.65	0.7	-120.1	120.1	112.5	7.64	15.720	
700.0	700.0	699.2	699.2	3.8	3.8	-89.65	0.7	-120.1	120.1	112.2	7.84	15.312	
800.0	800.0	799.2	799.2	3.9	3.9	-89.65	0.7	-120.1	120.1	112.1	8.04	14.935	
900.0	900.0	899.2	899.2	4.0	4.0	-89.65	0.7	-120.1	120.1	111.9	8.23	14.585	
1,000.0	1,000.0	999.2	999.2	4.2	4.2	-89.65	0.7	-120.1	120.1	111.7	8.42	14.259	
1,100.0	1,100.0	1,099.2	1,099.2	4.3	4.3	-89.65	0.7	-120.1	120.1	111.5	8.61	13.954	
1,200.0	1,200.0	1,199.2	1,199.2	4.4	4.4	-89.65	0.7	-120.1	120.1	111.3	8.79	13.669	
1,300.0	1,300.0	1,299.2	1,299.2	4.5	4.5	-89.65	0.7	-120.1	120.1	111.1	8.96	13.400	
1,400.0	1,400.0	1,399.2	1,399.2	4.6	4.6	-89.65	0.7	-120.1	120.1	111.0	9.13	13.147	
1,500.0	1,500.0	1,499.2	1,499.2	4.8	4.7	-89.65	0.7	-120.1	120.1	110.8	9.30	12.909 CC, ES	
1,600.0	1,600.0	1,599.0	1,598.9	4.9	4.9	-170.96	2.4	-120.2	121.9	112.3	9.57	12.735 SF	
1,700.0	1,699.8	1,698.4	1,698.2	5.0	5.2	-168.99	7.6	-120.4	127.5	117.4	10.00	12.740	
1,800.0	1,799.5	1,797.2	1,796.6	5.2	5.5	-166.07	16.1	-120.7	137.0	126.5	10.45	13.112	
1,900.0	1,898.7	1,895.0	1,893.8	5.5	5.8	-162.61	27.9	-121.2	150.8	139.9	10.90	13.829	
2,000.0	1,997.5	1,993.0	1,990.8	5.9	6.0	-159.45	41.5	-121.7	168.7	157.3	11.37	14.836	
2,100.0	2,095.6	2,090.4	2,087.3	6.2	6.3	-157.25	55.1	-122.3	190.2	178.3	11.85	16.044	
2,200.0	2,193.1	2,187.2	2,183.1	6.6	6.5	-155.81	68.5	-122.8	214.9	202.5	12.35	17.403	
2,250.0	2,241.5	2,235.3	2,230.8	6.7	6.6	-155.32	75.2	-123.1	228.4	215.9	12.55	18.208	
2,300.0	2,289.8	2,283.3	2,278.3	6.9	6.8	-155.03	81.9	-123.3	242.4	229.6	12.74	19.019	
2,400.0	2,386.4	2,379.4	2,373.4	7.2	7.1	-154.54	95.2	-123.9	270.3	257.1	13.21	20.454	
2,500.0	2,482.9	2,475.4	2,468.5	7.5	7.4	-154.15	108.6	-124.4	298.2	284.5	13.70	21.762	
2,600.0	2,579.5	2,571.4	2,563.5	7.9	7.7	-153.82	121.9	-125.0	326.1	311.9	14.21	22.952	
2,700.0	2,676.1	2,667.4	2,658.6	8.3	8.0	-153.54	135.3	-125.5	354.0	339.3	14.73	24.037	
2,800.0	2,772.7	2,763.4	2,753.7	8.7	8.3	-153.31	148.7	-126.0	381.9	366.7	15.26	25.026	
2,900.0	2,869.3	2,859.4	2,848.8	9.1	8.7	-153.10	162.0	-126.6	409.9	394.0	15.81	25.928	
3,000.0	2,965.9	2,955.4	2,943.8	9.5	9.0	-152.92	175.4	-127.1	437.8	421.4	16.36	26.753	
3,100.0	3,062.5	3,051.4	3,038.9	9.9	9.4	-152.77	188.7	-127.6	465.7	448.8	16.93	27.508	
3,200.0	3,159.1	3,147.4	3,134.0	10.4	9.7	-152.63	202.1	-128.2	493.7	476.2	17.51	28.199	
3,300.0	3,255.7	3,243.4	3,229.1	10.8	10.1	-152.50	215.4	-128.7	521.6	503.5	18.09	28.835	
3,400.0	3,352.3	3,339.5	3,324.2	11.2	10.4	-152.39	228.8	-129.2	549.6	530.9	18.67	29.440	
3,500.0	3,448.9	3,438.1	3,421.9	11.7	10.8	-152.33	242.0	-129.8	577.4	558.1	19.25	29.992	
3,600.0	3,545.5	3,538.0	3,521.1	12.1	11.2	-152.43	253.8	-130.3	604.6	584.7	19.87	30.421	
3,700.0	3,642.1	3,638.2	3,620.8	12.6	11.5	-152.68	263.9	-130.7	631.2	610.7	20.50	30.788	
3,800.0	3,738.6	3,738.6	3,720.9	13.0	11.9	-153.05	272.2	-131.0	657.2	636.1	21.13	31.101	
3,900.0	3,835.2	3,839.2	3,821.2	13.5	12.2	-153.54	278.8	-131.3	682.7	660.9	21.77	31.365	
4,000.0	3,931.8	3,939.9	3,921.8	13.9	12.5	-154.13	283.7	-131.5	707.7	685.3	22.40	31.588	
4,100.0	4,028.4	4,040.7	4,022.5	14.4	12.8	-154.81	286.7	-131.6	732.1	709.1	23.04	31.775	
4,200.0	4,125.0	4,141.4	4,123.2	14.9	13.0	-155.58	288.1	-131.6	756.2	732.5	23.67	31.950	
4,300.0	4,221.6	4,239.0	4,220.8	15.3	13.1	-156.37	288.1	-131.6	780.0	755.7	24.26	32.146	
4,400.0	4,318.2	4,335.6	4,317.4	15.8	13.2	-157.11	288.1	-131.6	803.9	779.0	24.88	32.306	
4,500.0	4,414.8	4,432.2	4,414.0	16.3	13.2	-157.80	288.1	-131.6	827.9	802.4	25.51	32.454	
4,600.0	4,511.4	4,528.8	4,510.6	16.7	13.3	-158.45	288.1	-131.6	852.0	825.9	26.14	32.590	
4,700.0	4,608.0	4,625.3	4,607.2	17.2	13.4	-159.07	288.1	-131.6	876.3	849.5	26.78	32.716	
4,800.0	4,704.6	4,721.9	4,703.8	17.7	13.5	-159.66	288.1	-131.6	900.6	873.2	27.43	32.833	
4,900.0	4,801.2	4,818.5	4,800.4	18.2	13.5	-160.21	288.1	-131.6	925.0	896.9	28.08	32.942	
5,000.0	4,897.8	4,915.1	4,897.0	18.7	13.6	-160.74	288.1	-131.6	949.5	920.7	28.73	33.044	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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
5,100.0	4,994.4	5,011.7	4,993.6	19.1	13.7	-161.24	288.1	-131.6	974.0	944.6	29.39	33.139	
5,200.0	5,090.9	5,108.3	5,090.2	19.6	13.7	-161.72	288.1	-131.6	998.7	968.6	30.05	33.229	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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	0.0	0.0	3.0	3.0	-89.65	0.5	-89.9	90.0					
100.0	100.0	98.9	98.9	3.0	3.0	-89.65	0.5	-89.9	90.0	83.4	6.52	13.798		
200.0	200.0	198.9	198.9	3.2	3.2	-89.65	0.5	-89.9	90.0	83.2	6.76	13.309		
300.0	300.0	298.9	298.9	3.3	3.3	-89.65	0.5	-89.9	90.0	83.0	6.99	12.868		
400.0	400.0	398.9	398.9	3.4	3.4	-89.65	0.5	-89.9	90.0	82.7	7.21	12.470		
500.0	500.0	498.9	498.9	3.5	3.5	-89.65	0.5	-89.9	90.0	82.5	7.43	12.107		
600.0	600.0	598.9	598.9	3.7	3.7	-89.65	0.5	-89.9	90.0	82.3	7.64	11.775		
700.0	700.0	698.9	698.9	3.8	3.8	-89.65	0.5	-89.9	90.0	82.1	7.84	11.469		
800.0	800.0	798.9	798.9	3.9	3.9	-89.65	0.5	-89.9	90.0	81.9	8.04	11.187		
900.0	900.0	898.9	898.9	4.0	4.0	-89.65	0.5	-89.9	90.0	81.7	8.23	10.925		
1,000.0	1,000.0	998.9	998.9	4.2	4.2	-89.65	0.5	-89.9	90.0	81.5	8.42	10.681		
1,100.0	1,100.0	1,098.9	1,098.9	4.3	4.3	-89.65	0.5	-89.9	90.0	81.3	8.61	10.452		
1,200.0	1,200.0	1,198.9	1,198.9	4.4	4.4	-89.65	0.5	-89.9	90.0	81.2	8.79	10.238		
1,300.0	1,300.0	1,298.9	1,298.9	4.5	4.5	-89.65	0.5	-89.9	90.0	81.0	8.96	10.037		
1,400.0	1,400.0	1,398.9	1,398.9	4.6	4.6	-89.65	0.5	-89.9	90.0	80.8	9.13	9.848		
1,500.0	1,500.0	1,498.9	1,498.9	4.8	4.7	-89.65	0.5	-89.9	90.0	80.6	9.30	9.669 CC, ES		
1,600.0	1,600.0	1,600.1	1,600.1	4.9	4.9	-171.09	1.7	-89.3	91.0	81.5	9.58	9.500		
1,700.0	1,699.8	1,701.2	1,701.1	5.0	5.1	-169.46	5.1	-87.3	94.3	84.3	10.03	9.409 SF		
1,800.0	1,799.5	1,802.1	1,801.7	5.2	5.3	-166.98	10.9	-84.0	100.0	89.5	10.48	9.542		
1,900.0	1,898.7	1,902.7	1,901.9	5.5	5.5	-163.94	18.9	-79.3	108.1	97.2	10.93	9.887		
2,000.0	1,997.5	2,002.9	2,001.5	5.9	5.8	-160.64	29.2	-73.4	118.9	107.5	11.39	10.437		
2,100.0	2,095.6	2,104.8	2,102.4	6.2	6.0	-157.77	40.7	-65.8	132.0	120.1	11.81	11.172		
2,200.0	2,193.1	2,208.1	2,204.8	6.6	6.3	-156.63	49.9	-55.6	145.5	133.1	12.36	11.770		
2,250.0	2,241.5	2,259.9	2,256.1	6.7	6.4	-156.62	53.5	-49.5	152.3	139.8	12.55	12.136		
2,300.0	2,289.8	2,309.7	2,305.5	6.9	6.5	-156.82	56.6	-43.2	159.1	146.3	12.74	12.482		
2,400.0	2,386.4	2,408.8	2,403.6	7.2	6.8	-157.19	62.6	-30.9	172.6	159.3	13.28	12.990		
2,500.0	2,482.9	2,507.9	2,501.7	7.5	7.0	-157.50	68.6	-18.5	186.1	172.2	13.86	13.428		
2,600.0	2,579.5	2,607.0	2,599.8	7.9	7.3	-157.77	74.7	-6.1	199.6	185.1	14.46	13.806		
2,700.0	2,676.1	2,706.1	2,697.9	8.3	7.7	-158.01	80.7	6.3	213.1	198.0	15.08	14.130		
2,800.0	2,772.7	2,805.1	2,796.0	8.7	8.0	-158.22	86.8	18.7	226.6	210.9	15.73	14.410		
2,900.0	2,869.3	2,904.2	2,894.1	9.1	8.3	-158.40	92.8	31.1	240.2	223.8	16.39	14.651		
3,000.0	2,965.9	3,003.3	2,992.3	9.5	8.7	-158.57	98.9	43.5	253.7	236.6	17.07	14.859		
3,100.0	3,062.5	3,102.4	3,090.4	9.9	9.0	-158.71	104.9	55.9	267.2	249.5	17.77	15.039		
3,200.0	3,159.1	3,201.5	3,188.5	10.4	9.4	-158.85	111.0	68.3	280.8	262.3	18.48	15.195		
3,300.0	3,255.7	3,300.5	3,286.6	10.8	9.8	-158.97	117.0	80.7	294.3	275.1	19.20	15.331		
3,400.0	3,352.3	3,399.6	3,384.7	11.2	10.1	-159.08	123.1	93.1	307.8	287.9	19.93	15.449		
3,500.0	3,448.9	3,498.7	3,482.8	11.7	10.5	-159.18	129.1	105.5	321.4	300.7	20.66	15.551		
3,600.0	3,545.5	3,597.8	3,580.9	12.1	10.9	-159.27	135.1	117.9	334.9	313.5	21.41	15.641		
3,700.0	3,642.1	3,696.8	3,679.1	12.6	11.3	-159.36	141.2	130.3	348.4	326.3	22.16	15.720		
3,800.0	3,738.6	3,795.9	3,777.2	13.0	11.7	-159.44	147.2	142.7	362.0	339.0	22.93	15.789		
3,900.0	3,835.2	3,895.0	3,875.3	13.5	12.1	-159.51	153.3	155.0	375.5	351.8	23.69	15.849		
4,000.0	3,931.8	3,994.1	3,973.4	13.9	12.5	-159.58	159.3	167.4	389.0	364.6	24.46	15.903		
4,100.0	4,028.4	4,093.2	4,071.5	14.4	12.9	-159.65	165.4	179.8	402.6	377.3	25.24	15.950		
4,200.0	4,125.0	4,192.2	4,169.6	14.9	13.3	-159.71	171.4	192.2	416.1	390.1	26.02	15.991		
4,300.0	4,221.6	4,291.3	4,267.7	15.3	13.7	-159.76	177.5	204.6	429.7	402.8	26.81	16.028		
4,400.0	4,318.2	4,390.4	4,365.8	15.8	14.1	-159.82	183.5	217.0	443.2	415.6	27.59	16.061		
4,500.0	4,414.8	4,489.5	4,464.0	16.3	14.5	-159.87	189.5	229.4	456.7	428.3	28.39	16.090		
4,600.0	4,511.4	4,588.5	4,562.1	16.7	14.9	-159.91	195.6	241.8	470.3	441.1	29.18	16.115		
4,700.0	4,608.0	4,687.6	4,660.2	17.2	15.3	-159.96	201.6	254.2	483.8	453.8	29.98	16.138		
4,800.0	4,704.6	4,786.7	4,758.3	17.7	15.7	-160.00	207.7	266.6	497.4	466.6	30.78	16.159		
4,900.0	4,801.2	4,874.7	4,845.6	18.2	16.1	-160.11	212.6	276.6	511.9	480.3	31.60	16.199		
5,000.0	4,897.8	4,960.8	4,931.3	18.7	16.5	-160.38	216.2	284.2	528.7	496.4	32.36	16.338		

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	4,994.4	5,046.1	5,016.3	19.1	16.8	-160.80	218.8	289.3	548.0	514.9	33.09	16.559		
5,200.0	5,090.9	5,130.3	5,100.5	19.6	17.1	-161.35	220.2	292.2	569.6	535.8	33.78	16.863		
5,300.0	5,187.5	5,216.3	5,186.5	20.1	17.2	-162.01	220.5	292.9	593.5	559.1	34.42	17.241		
5,400.0	5,284.1	5,312.9	5,283.1	20.6	17.4	-162.75	220.5	292.9	618.2	583.1	35.18	17.571		
5,500.0	5,380.7	5,409.5	5,379.7	21.1	17.4	-163.43	220.5	292.9	643.1	607.2	35.87	17.930		
5,600.0	5,477.3	5,506.0	5,476.3	21.5	17.5	-164.07	220.5	292.9	668.0	631.4	36.54	18.281		
5,700.0	5,573.9	5,602.6	5,572.8	22.0	17.5	-164.65	220.5	292.9	693.0	655.8	37.21	18.622		
5,800.0	5,670.5	5,699.2	5,669.4	22.5	17.5	-165.20	220.5	292.9	718.0	680.1	37.88	18.955		
5,900.0	5,767.1	5,795.8	5,766.0	23.0	17.6	-165.71	220.5	292.9	743.1	704.6	38.55	19.279		
6,000.0	5,863.7	5,892.4	5,862.6	23.5	17.6	-166.18	220.5	292.9	768.3	729.1	39.21	19.594		
6,100.0	5,960.3	5,989.0	5,959.2	24.0	17.7	-166.63	220.5	292.9	793.5	753.6	39.87	19.901		
6,200.0	6,056.9	6,085.6	6,055.8	24.5	17.7	-167.05	220.5	292.9	818.7	778.2	40.53	20.200		
6,300.0	6,153.5	6,182.2	6,152.4	24.9	17.8	-167.44	220.5	292.9	844.0	802.8	41.19	20.490		
6,400.0	6,250.1	6,278.8	6,249.0	25.4	17.8	-167.81	220.5	292.9	869.3	827.5	41.85	20.772		
6,500.0	6,346.6	6,375.4	6,345.6	25.9	17.9	-168.16	220.5	292.9	894.7	852.2	42.51	21.047		
6,600.0	6,443.2	6,472.0	6,442.2	26.4	17.9	-168.49	220.5	292.9	920.1	876.9	43.17	21.314		
6,700.0	6,539.8	6,568.6	6,538.8	26.9	18.0	-168.80	220.5	292.9	945.5	901.7	43.82	21.574		
6,800.0	6,636.4	6,665.2	6,635.4	27.4	18.0	-169.10	220.5	292.9	970.9	926.4	44.48	21.827		
6,900.0	6,733.0	6,761.7	6,732.0	27.9	18.1	-169.38	220.5	292.9	996.4	951.2	45.14	22.072		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11387-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-89.64	0.4	-60.0	60.0				
100.0	100.0	99.2	99.2	3.0	3.0	-89.64	0.4	-60.0	60.0	53.5	6.52	9.206	
200.0	200.0	199.2	199.2	3.2	3.2	-89.64	0.4	-60.0	60.0	53.3	6.76	8.880	
300.0	300.0	299.2	299.2	3.3	3.3	-89.64	0.4	-60.0	60.0	53.0	6.99	8.586	
400.0	400.0	399.2	399.2	3.4	3.4	-89.64	0.4	-60.0	60.0	52.8	7.21	8.320	
500.0	500.0	499.2	499.2	3.5	3.5	-89.64	0.4	-60.0	60.0	52.6	7.43	8.078	
600.0	600.0	599.2	599.2	3.7	3.7	-89.64	0.4	-60.0	60.0	52.4	7.64	7.857	
700.0	700.0	699.2	699.2	3.8	3.8	-89.64	0.4	-60.0	60.0	52.2	7.84	7.653	
800.0	800.0	799.2	799.2	3.9	3.9	-89.64	0.4	-60.0	60.0	52.0	8.04	7.464	
900.0	900.0	899.2	899.2	4.0	4.0	-89.64	0.4	-60.0	60.0	51.8	8.23	7.289	
1,000.0	1,000.0	999.2	999.2	4.2	4.2	-89.64	0.4	-60.0	60.0	51.6	8.42	7.126	
1,100.0	1,100.0	1,099.2	1,099.2	4.3	4.3	-89.64	0.4	-60.0	60.0	51.4	8.61	6.974	
1,200.0	1,200.0	1,199.2	1,199.2	4.4	4.4	-89.64	0.4	-60.0	60.0	51.2	8.79	6.832	
1,300.0	1,300.0	1,299.2	1,299.2	4.5	4.5	-89.64	0.4	-60.0	60.0	51.1	8.96	6.697	
1,400.0	1,400.0	1,399.2	1,399.2	4.6	4.6	-89.64	0.4	-60.0	60.0	50.9	9.13	6.571	
1,500.0	1,500.0	1,499.2	1,499.2	4.8	4.7	-89.64	0.4	-60.0	60.0	50.7	9.30	6.452 CC, ES	
1,600.0	1,600.0	1,600.4	1,600.3	4.9	4.9	-170.99	1.3	-59.1	60.8	51.2	9.59	6.341	
1,700.0	1,699.8	1,701.4	1,701.3	5.0	5.1	-169.13	4.1	-56.3	63.3	53.2	10.05	6.299	
1,800.0	1,799.5	1,802.4	1,802.1	5.2	5.3	-166.33	8.8	-51.6	67.5	57.0	10.51	6.423	
1,900.0	1,898.7	1,903.3	1,902.5	5.5	5.5	-162.96	15.4	-45.0	73.6	62.7	10.98	6.705	
2,000.0	1,997.5	2,004.0	2,002.5	5.9	5.7	-159.36	23.9	-36.5	81.8	70.4	11.45	7.144	
2,100.0	2,095.6	2,106.0	2,103.5	6.2	5.9	-156.21	33.5	-25.7	91.6	79.7	11.87	7.714	
2,200.0	2,193.1	2,208.9	2,205.1	6.6	6.2	-154.56	42.1	-11.4	101.2	88.8	12.41	8.155	
2,250.0	2,241.5	2,260.6	2,255.9	6.7	6.4	-154.19	45.9	-3.0	105.8	93.2	12.63	8.378	
2,300.0	2,289.8	2,312.3	2,306.7	6.9	6.6	-154.02	49.4	6.4	110.0	97.1	12.85	8.558	
2,400.0	2,386.4	2,413.3	2,405.4	7.2	6.8	-153.76	55.6	26.3	116.5	103.1	13.35	8.724	
2,500.0	2,482.9	2,513.1	2,503.1	7.5	7.1	-153.53	61.7	46.2	122.8	108.9	13.95	8.806	
2,600.0	2,579.5	2,612.9	2,600.7	7.9	7.5	-153.32	67.7	66.0	129.2	114.6	14.57	8.866	
2,700.0	2,676.1	2,712.7	2,698.3	8.3	7.8	-153.13	73.8	85.9	135.6	120.3	15.22	8.906	
2,800.0	2,772.7	2,812.5	2,795.9	8.7	8.2	-152.96	79.9	105.7	141.9	126.0	15.89	8.933	
2,900.0	2,869.3	2,912.3	2,893.5	9.1	8.6	-152.80	85.9	125.5	148.3	131.7	16.57	8.948	
3,000.0	2,965.9	3,012.1	2,991.1	9.5	9.0	-152.66	92.0	145.4	154.6	137.4	17.27	8.954	
3,100.0	3,062.5	3,111.9	3,088.7	9.9	9.4	-152.53	98.1	165.2	161.0	143.0	17.98	8.952	
3,200.0	3,159.1	3,211.7	3,186.4	10.4	9.8	-152.41	104.1	185.1	167.4	148.7	18.71	8.946	
3,300.0	3,255.7	3,311.5	3,284.0	10.8	10.2	-152.29	110.2	204.9	173.7	154.3	19.44	8.935	
3,400.0	3,352.3	3,411.3	3,381.6	11.2	10.6	-152.19	116.3	224.8	180.1	159.9	20.19	8.921	
3,500.0	3,448.9	3,511.1	3,479.2	11.7	11.0	-152.09	122.3	244.6	186.5	165.5	20.94	8.904	
3,600.0	3,545.5	3,610.9	3,576.8	12.1	11.5	-152.00	128.4	264.4	192.8	171.1	21.70	8.886	
3,700.0	3,642.1	3,710.7	3,674.4	12.6	11.9	-151.91	134.5	284.3	199.2	176.7	22.47	8.866	
3,800.0	3,738.6	3,810.5	3,772.1	13.0	12.3	-151.83	140.5	304.1	205.6	182.3	23.24	8.846	
3,900.0	3,835.2	3,910.3	3,869.7	13.5	12.8	-151.75	146.6	324.0	211.9	187.9	24.01	8.825	
4,000.0	3,931.8	4,010.0	3,967.3	13.9	13.2	-151.68	152.7	343.8	218.3	193.5	24.80	8.803	
4,100.0	4,028.4	4,109.8	4,064.9	14.4	13.6	-151.62	158.7	363.6	224.7	199.1	25.58	8.782	
4,200.0	4,125.0	4,209.6	4,162.5	14.9	14.1	-151.55	164.8	383.5	231.0	204.7	26.37	8.760	
4,300.0	4,221.6	4,309.4	4,260.1	15.3	14.5	-151.49	170.9	403.3	237.4	210.2	27.17	8.739	
4,400.0	4,318.2	4,409.2	4,357.8	15.8	15.0	-151.44	176.9	423.2	243.8	215.8	27.96	8.718	
4,500.0	4,414.8	4,509.0	4,455.4	16.3	15.4	-151.38	183.0	443.0	250.1	221.4	28.76	8.697	
4,600.0	4,511.4	4,608.8	4,553.0	16.7	15.9	-151.33	189.1	462.9	256.5	226.9	29.56	8.676	
4,700.0	4,608.0	4,708.6	4,650.6	17.2	16.3	-151.28	195.1	482.7	262.9	232.5	30.37	8.656	
4,800.0	4,704.6	4,808.4	4,748.2	17.7	16.8	-151.24	201.2	502.5	269.2	238.1	31.18	8.636	
4,900.0	4,801.2	4,908.2	4,845.8	18.2	17.2	-151.19	207.3	522.4	275.6	243.6	31.98	8.617	
5,000.0	4,897.8	5,008.0	4,943.5	18.7	17.7	-151.15	213.3	542.2	282.0	249.2	32.79	8.598	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11387-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)			
5,100.0	4,994.4	5,107.8	5,041.1	19.1	18.1	-151.11	219.4	562.1	288.4	254.7	33.61	8.580	
5,200.0	5,090.9	5,207.6	5,138.7	19.6	18.6	-151.07	225.5	581.9	294.7	260.3	34.42	8.562	
5,300.0	5,187.5	5,306.7	5,235.6	20.1	19.0	-151.04	231.5	601.6	301.1	265.9	35.23	8.548	
5,400.0	5,284.1	5,402.4	5,329.4	20.6	19.5	-151.12	237.0	619.6	308.4	272.3	36.07	8.550	
5,500.0	5,380.7	5,497.9	5,423.4	21.1	19.9	-151.39	242.0	636.1	317.0	280.0	36.92	8.586	
5,600.0	5,477.3	5,593.1	5,517.3	21.5	20.3	-151.80	246.6	651.0	326.9	289.1	37.79	8.650	
5,700.0	5,573.9	5,688.0	5,611.1	22.0	20.8	-152.35	250.7	664.4	338.1	299.5	38.68	8.741	
5,800.0	5,670.5	5,782.5	5,704.8	22.5	21.2	-153.02	254.3	676.3	350.8	311.2	39.59	8.859	
5,900.0	5,767.1	5,876.6	5,798.3	23.0	21.5	-153.78	257.5	686.6	364.8	324.2	40.52	9.003	
6,000.0	5,863.7	5,970.2	5,891.5	23.5	21.9	-154.61	260.2	695.5	380.2	338.7	41.44	9.174	
6,100.0	5,960.3	6,063.3	5,984.3	24.0	22.3	-155.50	262.4	702.8	397.0	354.6	42.36	9.372	
6,200.0	6,056.9	6,155.9	6,076.6	24.5	22.6	-156.43	264.2	708.7	415.3	372.0	43.27	9.597	
6,300.0	6,153.5	6,247.8	6,168.4	24.9	22.9	-157.38	265.6	713.1	435.0	390.9	44.16	9.850	
6,400.0	6,250.1	6,339.1	6,259.7	25.4	23.2	-158.35	266.5	716.1	456.2	411.2	45.03	10.133	
6,500.0	6,346.6	6,429.8	6,350.3	25.9	23.4	-159.31	267.0	717.7	478.9	433.1	45.83	10.450	
6,600.0	6,443.2	6,522.0	6,442.5	26.4	23.5	-160.28	267.1	718.0	503.0	456.4	46.57	10.802	
6,700.0	6,539.8	6,618.6	6,539.1	26.9	23.6	-161.23	267.1	718.0	527.5	480.2	47.33	11.146	
6,800.0	6,636.4	6,715.1	6,635.7	27.4	23.6	-162.09	267.1	718.0	552.2	504.1	48.06	11.489	
6,900.0	6,733.0	6,811.7	6,732.3	27.9	23.6	-162.88	267.1	718.0	576.9	528.2	48.78	11.828	
7,000.0	6,829.6	6,908.3	6,828.9	28.4	23.7	-163.60	267.1	718.0	601.8	552.3	49.48	12.163	
7,081.2	6,908.0	6,986.7	6,907.2	28.8	23.7	-164.15	267.1	718.0	622.0	572.0	50.03	12.432	
7,100.0	6,926.2	7,004.9	6,925.5	28.9	23.7	-164.28	267.1	718.0	626.7	576.5	50.16	12.494	
7,200.0	7,023.1	7,101.8	7,022.4	29.3	23.7	-164.93	267.1	718.0	650.6	599.7	50.84	12.797	
7,300.0	7,120.4	7,199.1	7,119.7	29.8	23.8	-165.50	267.1	718.0	672.9	621.4	51.49	13.068	
7,400.0	7,218.1	7,296.8	7,217.4	30.3	23.8	-165.99	267.1	718.0	693.6	641.4	52.12	13.307	
7,500.0	7,316.2	7,394.9	7,315.4	30.8	23.8	-166.42	267.1	718.0	712.6	659.9	52.74	13.514	
7,600.0	7,414.6	7,493.3	7,413.8	31.2	23.9	-166.79	267.1	718.0	730.1	676.7	53.33	13.689	
7,700.0	7,513.2	7,592.0	7,512.5	31.7	23.9	-167.11	267.1	718.0	745.8	691.9	53.91	13.835	
7,800.0	7,612.2	7,690.9	7,611.4	32.1	24.0	-167.38	267.1	718.0	759.9	705.5	54.47	13.952	
7,900.0	7,711.4	7,790.1	7,710.6	32.5	24.0	-167.62	267.1	718.0	772.4	717.4	55.01	14.040	
8,000.0	7,810.8	7,889.5	7,810.0	32.9	24.0	-167.81	267.1	718.0	783.1	727.6	55.53	14.102	
8,100.0	7,910.3	7,989.1	7,909.6	33.3	24.1	-167.97	267.1	718.0	792.2	736.1	56.03	14.138	
8,200.0	8,010.0	8,088.8	8,009.3	33.7	24.1	-168.10	267.1	718.0	799.5	743.0	56.51	14.150	
8,300.0	8,109.9	8,188.6	8,109.1	34.1	24.1	-168.19	267.1	718.0	805.2	748.2	56.95	14.138	
8,400.0	8,209.8	8,288.5	8,209.0	34.4	24.2	-168.26	267.1	718.0	809.1	751.8	57.36	14.107	
8,500.0	8,309.8	8,388.5	8,309.0	34.7	24.2	-168.30	267.1	718.0	811.4	753.7	57.72	14.058	
8,581.2	8,390.9	8,469.6	8,390.2	34.8	24.3	-86.31	267.1	718.0	811.9	754.1	57.87	14.031	
8,600.0	8,409.8	8,488.5	8,409.0	34.8	24.3	-86.31	267.1	718.0	811.9	754.1	57.87	14.029	
8,700.0	8,509.8	8,588.5	8,509.0	34.8	24.3	-86.31	267.1	718.0	811.9	754.0	57.94	14.014	
8,800.0	8,609.8	8,688.5	8,609.0	34.8	24.3	-86.31	267.1	718.0	811.9	753.9	58.00	13.999	
8,900.0	8,709.8	8,788.5	8,709.0	34.8	24.4	-86.31	267.1	718.0	811.9	753.9	58.06	13.985	
9,000.0	8,809.8	8,888.5	8,809.0	34.9	24.4	-86.31	267.1	718.0	811.9	753.8	58.12	13.970	
9,100.0	8,909.8	8,988.5	8,909.0	34.9	24.5	-86.31	267.1	718.0	811.9	753.8	58.18	13.955	
9,200.0	9,009.8	9,088.5	9,009.0	34.9	24.5	-86.31	267.1	718.0	811.9	753.7	58.24	13.941	
9,300.0	9,109.8	9,188.5	9,109.0	34.9	24.6	-86.31	267.1	718.0	811.9	753.6	58.30	13.926	
9,400.0	9,209.8	9,288.5	9,209.0	35.0	24.6	-86.31	267.1	718.0	811.9	753.6	58.37	13.911	
9,500.0	9,309.8	9,388.5	9,309.0	35.0	24.6	-86.31	267.1	718.0	811.9	753.5	58.43	13.896	
9,600.0	9,409.8	9,488.5	9,409.0	35.0	24.7	-86.31	267.1	718.0	811.9	753.4	58.49	13.881	
9,700.0	9,509.8	9,588.5	9,509.0	35.0	24.7	-86.31	267.1	718.0	811.9	753.4	58.56	13.866	
9,800.0	9,609.8	9,688.5	9,609.0	35.1	24.8	-86.31	267.1	718.0	811.9	753.3	58.62	13.851	
9,900.0	9,709.8	9,788.5	9,709.0	35.1	24.8	-86.31	267.1	718.0	811.9	753.3	58.68	13.836	
10,000.0	9,809.8	9,888.5	9,809.0	35.1	24.9	-86.31	267.1	718.0	811.9	753.2	58.75	13.820	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11387-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)			
10,100.0	9,909.8	9,988.5	9,909.0	35.1	24.9	-86.31	267.1	718.0	811.9	753.1	58.81	13.805	
10,200.0	10,009.8	10,088.5	10,009.0	35.2	24.9	-86.31	267.1	718.0	811.9	753.1	58.88	13.790	
10,300.0	10,109.8	10,188.5	10,109.0	35.2	25.0	-86.31	267.1	718.0	811.9	753.0	58.95	13.774	
10,400.0	10,209.8	10,288.5	10,209.0	35.2	25.0	-86.31	267.1	718.0	811.9	752.9	59.01	13.759	
10,500.0	10,309.8	10,388.5	10,309.0	35.2	25.1	-86.31	267.1	718.0	811.9	752.9	59.08	13.743	
10,600.0	10,409.8	10,488.5	10,409.0	35.3	25.1	-86.31	267.1	718.0	811.9	752.8	59.14	13.728	
10,700.0	10,509.8	10,588.5	10,509.0	35.3	25.2	-86.31	267.1	718.0	811.9	752.7	59.21	13.712	
10,800.0	10,609.8	10,688.5	10,609.0	35.3	25.2	-86.31	267.1	718.0	811.9	752.7	59.28	13.697	
10,900.0	10,709.8	10,788.5	10,709.0	35.3	25.2	-86.31	267.1	718.0	811.9	752.6	59.35	13.681	
11,000.0	10,809.8	10,888.5	10,809.0	35.4	25.3	-86.31	267.1	718.0	811.9	752.5	59.42	13.665	
11,100.0	10,909.8	10,988.5	10,909.0	35.4	25.3	-86.31	267.1	718.0	811.9	752.5	59.48	13.650	
11,200.0	11,009.8	11,088.5	11,009.0	35.4	25.4	-86.31	267.1	718.0	811.9	752.4	59.55	13.634	
11,300.0	11,109.8	11,188.5	11,109.0	35.5	25.4	-86.31	267.1	718.0	811.9	752.3	59.62	13.618	
11,400.0	11,209.8	11,288.5	11,209.0	35.5	25.5	-86.31	267.1	718.0	811.9	752.2	59.69	13.602	
11,499.3	11,309.8	11,387.9	11,308.4	35.5	25.5	-86.31	267.1	718.0	811.9	752.2	59.75	13.588	
11,500.0	11,309.8	11,388.7	11,309.2	35.5	25.5	97.29	267.1	718.0	811.9	752.2	59.75	13.588	
11,502.2	11,312.0	11,391.2	11,311.7	35.5	25.5	97.29	267.0	718.0	811.9	752.2	59.76	13.587	
11,550.0	11,359.7	11,444.3	11,364.7	35.5	25.5	97.25	264.2	718.0	812.0	752.2	59.84	13.571	
11,600.0	11,409.2	11,499.7	11,419.5	35.5	25.5	97.15	255.9	718.0	812.3	752.4	59.93	13.556	
11,650.0	11,458.0	11,555.1	11,473.2	35.5	25.5	96.99	242.4	718.1	812.9	752.8	60.02	13.543	
11,700.0	11,505.7	11,610.2	11,525.1	35.5	25.6	96.78	223.9	718.2	813.6	753.5	60.12	13.534	
11,750.0	11,551.8	11,665.2	11,574.8	35.5	25.6	96.50	200.6	718.4	814.5	754.3	60.21	13.529	
11,800.0	11,596.1	11,719.8	11,621.8	35.5	25.6	96.18	172.8	718.6	815.7	755.4	60.30	13.527	
11,850.0	11,638.3	11,774.1	11,665.7	35.6	25.6	95.81	140.9	718.8	817.0	756.6	60.38	13.531	
11,900.0	11,677.9	11,828.0	11,706.1	35.6	25.6	95.39	105.2	719.0	818.6	758.1	60.46	13.539	
11,950.0	11,714.7	11,881.6	11,742.8	35.6	25.7	94.93	66.2	719.3	820.3	759.7	60.53	13.551	
12,000.0	11,748.4	11,934.7	11,775.3	35.6	25.7	94.43	24.2	719.5	822.2	761.6	60.60	13.568	
12,050.0	11,778.8	11,987.4	11,803.7	35.6	25.7	93.90	-20.2	719.8	824.3	763.6	60.65	13.590	
12,100.0	11,805.6	12,039.6	11,827.6	35.6	25.8	93.35	-66.6	720.1	826.5	765.8	60.70	13.616	
12,150.0	11,828.6	12,091.4	11,847.1	35.7	25.8	92.77	-114.5	720.4	828.9	768.1	60.74	13.645	
12,200.0	11,847.7	12,142.7	11,862.0	35.7	25.9	92.17	-163.6	720.7	831.4	770.6	60.78	13.678	
12,250.0	11,862.7	12,193.6	11,872.5	35.7	25.9	91.57	-213.3	721.0	834.0	773.2	60.81	13.713	
12,300.0	11,873.4	12,244.0	11,878.4	35.8	26.0	90.95	-263.4	721.3	836.7	775.8	60.85	13.751	
12,350.0	11,879.9	12,293.9	11,880.0	35.8	26.0	90.34	-313.3	721.7	839.5	778.6	60.87	13.790	
12,399.3	11,882.0	12,343.0	11,880.0	35.9	26.1	89.91	-362.4	722.0	842.2	781.3	60.94	13.820	
12,400.0	11,882.0	12,343.8	11,880.0	35.9	26.1	89.91	-363.1	722.0	842.3	781.3	60.95	13.820	
12,500.0	11,882.0	12,443.7	11,880.0	36.0	26.2	89.92	-463.1	722.6	846.2	785.0	61.19	13.829	
12,560.7	11,882.0	12,504.4	11,880.0	36.1	26.3	89.92	-523.7	723.0	846.8	785.5	61.33	13.806	
12,600.0	11,882.0	12,543.7	11,880.0	36.1	26.4	89.92	-563.0	723.3	846.8	785.4	61.44	13.783	
12,700.0	11,882.0	12,643.7	11,880.0	36.3	26.6	89.92	-663.0	723.9	846.8	785.1	61.73	13.718	
12,800.0	11,882.0	12,743.7	11,880.0	36.4	26.8	89.92	-763.0	724.5	846.8	784.8	62.06	13.645	
12,900.0	11,882.0	12,843.7	11,880.0	36.6	27.0	89.92	-863.0	725.2	846.8	784.4	62.43	13.566	
13,000.0	11,882.0	12,943.7	11,880.0	36.8	27.2	89.92	-963.0	725.8	846.9	784.0	62.82	13.480	
13,100.0	11,882.0	13,043.7	11,880.0	37.0	27.5	89.92	-1,063.0	726.4	846.9	783.6	63.26	13.388	
13,200.0	11,882.0	13,143.7	11,880.0	37.2	27.8	89.92	-1,163.0	727.1	846.9	783.2	63.72	13.290	
13,300.0	11,882.0	13,243.7	11,880.0	37.5	28.1	89.92	-1,263.0	727.7	846.9	782.7	64.22	13.188	
13,400.0	11,882.0	13,343.7	11,880.0	37.7	28.4	89.92	-1,363.0	728.4	846.9	782.2	64.75	13.080	
13,500.0	11,882.0	13,443.7	11,880.0	38.0	28.7	89.92	-1,463.0	729.0	846.9	781.6	65.31	12.968	
13,600.0	11,882.0	13,543.7	11,880.0	38.2	29.0	89.92	-1,563.0	729.6	846.9	781.0	65.90	12.853	
13,700.0	11,882.0	13,643.7	11,880.0	38.5	29.4	89.92	-1,663.0	730.3	846.9	780.4	66.51	12.733	
13,800.0	11,882.0	13,743.7	11,880.0	38.8	29.7	89.92	-1,763.0	730.9	847.0	779.8	67.16	12.611	
13,900.0	11,882.0	13,843.7	11,880.0	39.1	30.1	89.92	-1,863.0	731.5	847.0	779.1	67.84	12.486	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11387-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	
14,000.0	11,882.0	13,943.7	11,880.0	39.4	30.5	89.92	-1,963.0	732.2	847.0	778.5	68.54	12.358	
14,100.0	11,882.0	14,043.7	11,880.0	39.8	30.9	89.92	-2,063.0	732.8	847.0	777.7	69.26	12.229	
14,200.0	11,882.0	14,143.7	11,880.0	40.1	31.3	89.92	-2,163.0	733.4	847.0	777.0	70.02	12.098	
14,300.0	11,882.0	14,243.7	11,880.0	40.5	31.7	89.92	-2,263.0	734.1	847.0	776.2	70.79	11.965	
14,400.0	11,882.0	14,343.7	11,880.0	40.8	32.2	89.92	-2,363.0	734.7	847.0	775.4	71.59	11.832	
14,500.0	11,882.0	14,443.7	11,880.0	41.2	32.6	89.92	-2,463.0	735.4	847.1	774.6	72.41	11.697	
14,600.0	11,882.0	14,543.7	11,880.0	41.6	33.1	89.92	-2,563.0	736.0	847.1	773.8	73.26	11.563	
14,700.0	11,882.0	14,643.7	11,880.0	42.0	33.6	89.92	-2,663.0	736.6	847.1	773.0	74.12	11.428	
14,800.0	11,882.0	14,743.7	11,880.0	42.4	34.1	89.92	-2,763.0	737.3	847.1	772.1	75.01	11.293	
14,900.0	11,882.0	14,843.7	11,880.0	42.8	34.6	89.92	-2,863.0	737.9	847.1	771.2	75.91	11.159	
15,000.0	11,882.0	14,943.7	11,880.0	43.2	35.1	89.92	-2,963.0	738.5	847.1	770.3	76.84	11.025	
15,100.0	11,882.0	15,043.7	11,880.0	43.7	35.6	89.92	-3,063.0	739.2	847.1	769.3	77.78	10.891	
15,200.0	11,882.0	15,143.7	11,880.0	44.1	36.1	89.92	-3,163.0	739.8	847.1	768.4	78.74	10.758	
15,300.0	11,882.0	15,243.7	11,880.0	44.6	36.6	89.92	-3,263.0	740.4	847.2	767.4	79.72	10.627	
15,400.0	11,882.0	15,343.7	11,880.0	45.0	37.2	89.92	-3,363.0	741.1	847.2	766.5	80.71	10.496	
15,500.0	11,882.0	15,443.7	11,880.0	45.5	37.7	89.92	-3,463.0	741.7	847.2	765.5	81.72	10.367	
15,600.0	11,882.0	15,543.7	11,880.0	46.0	38.3	89.92	-3,563.0	742.4	847.2	764.4	82.75	10.238	
15,700.0	11,882.0	15,643.7	11,880.0	46.4	38.9	89.92	-3,663.0	743.0	847.2	763.4	83.79	10.111	
15,800.0	11,882.0	15,743.7	11,880.0	46.9	39.4	89.92	-3,763.0	743.6	847.2	762.4	84.84	9.986	
15,900.0	11,882.0	15,843.7	11,880.0	47.4	40.0	89.92	-3,863.0	744.3	847.2	761.3	85.91	9.862	
16,000.0	11,882.0	15,943.7	11,880.0	47.9	40.6	89.92	-3,963.0	744.9	847.2	760.3	86.99	9.740	
16,100.0	11,882.0	16,043.7	11,880.0	48.4	41.2	89.92	-4,063.0	745.5	847.3	759.2	88.08	9.619	
16,200.0	11,882.0	16,143.7	11,880.0	48.9	41.8	89.92	-4,163.0	746.2	847.3	758.1	89.18	9.500	
16,300.0	11,882.0	16,243.7	11,880.0	49.5	42.4	89.92	-4,263.0	746.8	847.3	757.0	90.30	9.383	
16,400.0	11,882.0	16,343.7	11,880.0	50.0	43.0	89.92	-4,363.0	747.5	847.3	755.9	91.43	9.267	
16,500.0	11,882.0	16,443.7	11,880.0	50.5	43.6	89.92	-4,463.0	748.1	847.3	754.7	92.57	9.153	
16,600.0	11,882.0	16,543.7	11,880.0	51.1	44.2	89.92	-4,563.0	748.7	847.3	753.6	93.72	9.041	
16,700.0	11,882.0	16,643.7	11,880.0	51.6	44.8	89.92	-4,663.0	749.4	847.3	752.5	94.88	8.931	
16,800.0	11,882.0	16,743.7	11,880.0	52.2	45.5	89.92	-4,763.0	750.0	847.3	751.3	96.04	8.822	
16,900.0	11,882.0	16,843.7	11,880.0	52.7	46.1	89.92	-4,863.0	750.6	847.4	750.1	97.22	8.716	
17,000.0	11,882.0	16,943.7	11,880.0	53.3	46.7	89.92	-4,963.0	751.3	847.4	749.0	98.41	8.611	
17,100.0	11,882.0	17,043.7	11,880.0	53.8	47.4	89.92	-5,063.0	751.9	847.4	747.8	99.61	8.507	
17,200.0	11,882.0	17,143.7	11,880.0	54.4	48.0	89.92	-5,163.0	752.5	847.4	746.6	100.81	8.406	
17,300.0	11,882.0	17,243.7	11,880.0	55.0	48.7	89.92	-5,263.0	753.2	847.4	745.4	102.02	8.306	
17,400.0	11,882.0	17,343.7	11,880.0	55.6	49.3	89.92	-5,363.0	753.8	847.4	744.2	103.24	8.208	
17,500.0	11,882.0	17,443.7	11,880.0	56.1	50.0	89.92	-5,462.9	754.5	847.4	743.0	104.47	8.112	
17,600.0	11,882.0	17,543.7	11,880.0	56.7	50.6	89.92	-5,562.9	755.1	847.4	741.7	105.70	8.017	
17,700.0	11,882.0	17,643.7	11,880.0	57.3	51.3	89.92	-5,662.9	755.7	847.5	740.5	106.95	7.924	
17,800.0	11,882.0	17,743.7	11,880.0	57.9	51.9	89.92	-5,762.9	756.4	847.5	739.3	108.19	7.833	
17,900.0	11,882.0	17,843.7	11,880.0	58.5	52.6	89.92	-5,862.9	757.0	847.5	738.0	109.45	7.743	
18,000.0	11,882.0	17,943.7	11,880.0	59.1	53.3	89.92	-5,962.9	757.6	847.5	736.8	110.71	7.655	
18,100.0	11,882.0	18,043.7	11,880.0	59.7	54.0	89.92	-6,062.9	758.3	847.5	735.5	111.98	7.569	
18,200.0	11,882.0	18,143.7	11,880.0	60.3	54.6	89.92	-6,162.9	758.9	847.5	734.3	113.25	7.484	
18,300.0	11,882.0	18,243.7	11,880.0	60.9	55.3	89.92	-6,262.9	759.5	847.5	733.0	114.53	7.400	
18,400.0	11,882.0	18,343.7	11,880.0	61.6	56.0	89.92	-6,362.9	760.2	847.6	731.7	115.81	7.318	
18,500.0	11,882.0	18,443.7	11,880.0	62.2	56.7	89.92	-6,462.9	760.8	847.6	730.5	117.10	7.238	
18,600.0	11,882.0	18,543.7	11,880.0	62.8	57.3	89.92	-6,562.9	761.5	847.6	729.2	118.40	7.159	
18,700.0	11,882.0	18,643.7	11,880.0	63.4	58.0	89.92	-6,662.9	762.1	847.6	727.9	119.70	7.081	
18,800.0	11,882.0	18,743.7	11,880.0	64.1	58.7	89.92	-6,762.9	762.7	847.6	726.6	121.00	7.005	
18,900.0	11,882.0	18,843.7	11,880.0	64.7	59.4	89.92	-6,862.9	763.4	847.6	725.3	122.31	6.930	
19,000.0	11,882.0	18,943.7	11,880.0	65.3	60.1	89.92	-6,962.9	764.0	847.6	724.0	123.63	6.856	
19,100.0	11,882.0	19,043.7	11,880.0	66.0	60.8	89.92	-7,062.9	764.6	847.6	722.7	124.94	6.784	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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, 11387-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		
19,200.0	11,882.0	19,143.7	11,880.0	66.6	61.5	89.92	-7,162.9	765.3	847.7	721.4	126.27	6.713		
19,300.0	11,882.0	19,243.7	11,880.0	67.2	62.2	89.92	-7,262.9	765.9	847.7	720.1	127.59	6.643		
19,400.0	11,882.0	19,343.7	11,880.0	67.9	62.9	89.92	-7,362.9	766.6	847.7	718.8	128.92	6.575		
19,500.0	11,882.0	19,443.7	11,880.0	68.5	63.6	89.92	-7,462.9	767.2	847.7	717.4	130.26	6.508		
19,600.0	11,882.0	19,543.7	11,880.0	69.2	64.3	89.92	-7,562.9	767.8	847.7	716.1	131.60	6.442		
19,700.0	11,882.0	19,643.7	11,880.0	69.8	65.0	89.92	-7,662.9	768.5	847.7	714.8	132.94	6.377		
19,800.0	11,882.0	19,743.7	11,880.0	70.5	65.7	89.92	-7,762.9	769.1	847.7	713.4	134.28	6.313		
19,900.0	11,882.0	19,843.7	11,880.0	71.1	66.4	89.92	-7,862.9	769.7	847.7	712.1	135.63	6.250		
20,000.0	11,882.0	19,943.7	11,880.0	71.8	67.1	89.92	-7,962.9	770.4	847.8	710.8	136.98	6.189		
20,100.0	11,882.0	20,043.7	11,880.0	72.5	67.8	89.92	-8,062.9	771.0	847.8	709.4	138.34	6.128		
20,200.0	11,882.0	20,143.7	11,880.0	73.1	68.5	89.92	-8,162.9	771.6	847.8	708.1	139.70	6.069		
20,300.0	11,882.0	20,243.7	11,880.0	73.8	69.2	89.92	-8,262.9	772.3	847.8	706.7	141.06	6.010		
20,400.0	11,882.0	20,343.7	11,880.0	74.5	69.9	89.92	-8,362.9	772.9	847.8	705.4	142.42	5.953		
20,500.0	11,882.0	20,443.7	11,880.0	75.1	70.6	89.92	-8,462.9	773.6	847.8	704.0	143.79	5.896		
20,600.0	11,882.0	20,543.7	11,880.0	75.8	71.4	89.92	-8,562.9	774.2	847.8	702.7	145.16	5.841		
20,700.0	11,882.0	20,643.7	11,880.0	76.5	72.1	89.92	-8,662.9	774.8	847.8	701.3	146.53	5.786		
20,800.0	11,882.0	20,743.7	11,880.0	77.1	72.8	89.92	-8,762.9	775.5	847.9	700.0	147.91	5.732		
20,900.0	11,882.0	20,843.7	11,880.0	77.8	73.5	89.92	-8,862.9	776.1	847.9	698.6	149.28	5.680		
21,000.0	11,882.0	20,943.7	11,880.0	78.5	74.2	89.92	-8,962.9	776.7	847.9	697.2	150.66	5.628		
21,100.0	11,882.0	21,043.7	11,880.0	79.2	74.9	89.92	-9,062.9	777.4	847.9	695.9	152.05	5.577		
21,200.0	11,882.0	21,143.7	11,880.0	79.9	75.7	89.92	-9,162.9	778.0	847.9	694.5	153.43	5.526		
21,300.0	11,882.0	21,243.7	11,880.0	80.5	76.4	89.92	-9,262.9	778.7	847.9	693.1	154.82	5.477		
21,400.0	11,882.0	21,343.7	11,880.0	81.2	77.1	89.92	-9,362.9	779.3	847.9	691.7	156.21	5.428		
21,500.0	11,882.0	21,443.7	11,880.0	81.9	77.8	89.92	-9,462.9	779.9	848.0	690.4	157.60	5.380		
21,600.0	11,882.0	21,543.7	11,880.0	82.6	78.5	89.92	-9,562.9	780.6	848.0	689.0	158.99	5.333		
21,700.0	11,882.0	21,643.7	11,880.0	83.3	79.3	89.92	-9,662.9	781.2	848.0	687.6	160.39	5.287		
21,788.4	11,882.0	21,732.1	11,880.0	83.9	79.9	89.92	-9,751.3	781.8	848.0	686.4	161.62	5.247		
21,800.0	11,882.0	21,743.7	11,880.0	84.0	80.0	89.92	-9,762.9	781.8	848.0	686.2	161.78	5.242		
21,838.4	11,882.0	21,782.1	11,880.0	84.2	80.3	89.92	-9,801.3	782.1	848.0	685.7	162.32	5.224 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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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	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	0.8	0.8	3.0	3.0	-89.62	0.2	-30.0	30.1				
100.0	100.0	100.8	100.8	3.0	3.0	-89.62	0.2	-30.0	30.1	23.5	6.52	4.608	
200.0	200.0	200.8	200.8	3.2	3.2	-89.62	0.2	-30.0	30.1	23.3	6.76	4.445	
300.0	300.0	300.8	300.8	3.3	3.3	-89.62	0.2	-30.0	30.1	23.1	6.99	4.298	
400.0	400.0	400.8	400.8	3.4	3.4	-89.62	0.2	-30.0	30.1	22.8	7.22	4.165	
500.0	500.0	500.8	500.8	3.5	3.5	-89.62	0.2	-30.0	30.1	22.6	7.43	4.044	
600.0	600.0	600.8	600.8	3.7	3.7	-89.62	0.2	-30.0	30.1	22.4	7.64	3.933	
700.0	700.0	700.8	700.8	3.8	3.8	-89.62	0.2	-30.0	30.1	22.2	7.84	3.831	
800.0	800.0	800.8	800.8	3.9	3.9	-89.62	0.2	-30.0	30.1	22.0	8.04	3.736	
900.0	900.0	900.8	900.8	4.0	4.0	-89.62	0.2	-30.0	30.1	21.8	8.24	3.649	
1,000.0	1,000.0	1,000.8	1,000.8	4.2	4.2	-89.62	0.2	-30.0	30.1	21.6	8.42	3.567	
1,100.0	1,100.0	1,100.8	1,100.8	4.3	4.3	-89.62	0.2	-30.0	30.1	21.4	8.61	3.491	
1,200.0	1,200.0	1,200.8	1,200.8	4.4	4.4	-89.62	0.2	-30.0	30.1	21.3	8.79	3.420	
1,300.0	1,300.0	1,300.8	1,300.8	4.5	4.5	-89.62	0.2	-30.0	30.1	21.1	8.96	3.353	
1,400.0	1,400.0	1,400.8	1,400.8	4.6	4.6	-89.62	0.2	-30.0	30.1	20.9	9.14	3.289	
1,500.0	1,500.0	1,500.8	1,500.8	4.8	4.8	-89.62	0.2	-30.0	30.1	20.7	9.30	3.230 CC	
1,504.4	1,504.4	1,505.3	1,505.3	4.8	4.8	-171.62	0.2	-30.0	30.1	20.7	9.32	3.225 ES	
1,600.0	1,600.0	1,601.5	1,601.5	4.9	4.9	-170.82	0.9	-28.9	30.6	21.0	9.61	3.188	
1,700.0	1,699.8	1,702.2	1,702.1	5.0	5.0	-168.64	2.9	-25.4	32.4	22.3	10.07	3.218	
1,800.0	1,799.5	1,802.9	1,802.5	5.2	5.2	-165.51	6.2	-19.7	35.5	24.9	10.55	3.364	
1,900.0	1,898.7	1,903.5	1,902.8	5.5	5.4	-161.96	10.8	-11.6	40.0	28.9	11.04	3.620	
2,000.0	1,997.5	2,004.1	2,002.7	5.9	5.7	-158.43	16.8	-1.3	45.9	34.3	11.53	3.978	
2,100.0	2,095.6	2,105.4	2,102.9	6.2	5.9	-155.58	23.7	11.7	52.8	40.9	11.96	4.417	
2,200.0	2,193.1	2,207.1	2,203.0	6.6	6.2	-154.27	30.0	28.3	59.6	47.1	12.53	4.758	
2,250.0	2,241.5	2,258.1	2,253.0	6.7	6.4	-154.07	33.0	37.9	62.9	50.1	12.77	4.921	
2,300.0	2,289.8	2,309.2	2,302.9	6.9	6.6	-153.96	35.9	48.4	65.6	52.6	13.02	5.040	
2,400.0	2,386.4	2,410.6	2,401.5	7.2	6.9	-153.44	41.1	71.6	68.7	55.2	13.55	5.072	
2,500.0	2,482.9	2,510.6	2,498.5	7.5	7.2	-152.87	46.1	95.3	71.1	56.9	14.18	5.015	
2,600.0	2,579.5	2,610.6	2,595.5	7.9	7.6	-152.34	51.1	118.9	73.5	58.7	14.82	4.958	
2,700.0	2,676.1	2,710.5	2,692.5	8.3	8.0	-151.85	56.2	142.6	75.9	60.4	15.48	4.899	
2,800.0	2,772.7	2,810.5	2,789.5	8.7	8.4	-151.38	61.2	166.3	78.2	62.1	16.17	4.840	
2,900.0	2,869.3	2,910.5	2,886.5	9.1	8.8	-150.94	66.2	189.9	80.6	63.8	16.86	4.782	
3,000.0	2,965.9	3,010.5	2,983.5	9.5	9.2	-150.53	71.3	213.6	83.0	65.5	17.57	4.725	
3,100.0	3,062.5	3,110.4	3,080.5	9.9	9.6	-150.14	76.3	237.2	85.4	67.1	18.29	4.671	
3,200.0	3,159.1	3,210.4	3,177.5	10.4	10.0	-149.77	81.3	260.9	87.8	68.8	19.02	4.618	
3,300.0	3,255.7	3,310.4	3,274.5	10.8	10.4	-149.42	86.3	284.5	90.2	70.5	19.76	4.568	
3,400.0	3,352.3	3,410.3	3,371.5	11.2	10.9	-149.09	91.4	308.2	92.7	72.2	20.50	4.520	
3,500.0	3,448.9	3,510.3	3,468.5	11.7	11.3	-148.77	96.4	331.9	95.1	73.8	21.25	4.474	
3,600.0	3,545.5	3,610.3	3,565.5	12.1	11.7	-148.47	101.4	355.5	97.5	75.5	22.00	4.431	
3,700.0	3,642.1	3,710.2	3,662.5	12.6	12.2	-148.19	106.5	379.2	99.9	77.1	22.76	4.389	
3,800.0	3,738.6	3,810.2	3,759.5	13.0	12.6	-147.92	111.5	402.8	102.3	78.8	23.53	4.350	
3,900.0	3,835.2	3,910.2	3,856.5	13.5	13.1	-147.66	116.5	426.5	104.8	80.5	24.29	4.313	
4,000.0	3,931.8	4,010.2	3,953.5	13.9	13.5	-147.41	121.5	450.1	107.2	82.1	25.06	4.277	
4,100.0	4,028.4	4,110.1	4,050.5	14.4	14.0	-147.18	126.6	473.8	109.6	83.8	25.83	4.243	
4,200.0	4,125.0	4,210.1	4,147.5	14.9	14.5	-146.95	131.6	497.4	112.0	85.4	26.61	4.211	
4,300.0	4,221.6	4,310.1	4,244.5	15.3	14.9	-146.73	136.6	521.1	114.5	87.1	27.38	4.181	
4,400.0	4,318.2	4,410.0	4,341.5	15.8	15.4	-146.53	141.7	544.8	116.9	88.7	28.16	4.152	
4,500.0	4,414.8	4,510.0	4,438.5	16.3	15.9	-146.33	146.7	568.4	119.3	90.4	28.94	4.124	
4,600.0	4,511.4	4,610.0	4,535.5	16.7	16.3	-146.14	151.7	592.1	121.8	92.1	29.72	4.097	
4,700.0	4,608.0	4,709.9	4,632.5	17.2	16.8	-145.95	156.7	615.7	124.2	93.7	30.50	4.072	
4,800.0	4,704.6	4,809.9	4,729.5	17.7	17.3	-145.78	161.8	639.4	126.7	95.4	31.29	4.048	
4,900.0	4,801.2	4,909.9	4,826.5	18.2	17.7	-145.61	166.8	663.0	129.1	97.0	32.07	4.025	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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		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	
5,000.0	4,897.8	5,009.8	4,923.5	18.7	18.2	-145.45	171.8	686.7	131.5	98.7	32.86	4.003	
5,100.0	4,994.4	5,109.8	5,020.5	19.1	18.7	-145.29	176.9	710.4	134.0	100.3	33.64	3.982	
5,200.0	5,090.9	5,209.8	5,117.5	19.6	19.2	-145.14	181.9	734.0	136.4	102.0	34.43	3.962	
5,300.0	5,187.5	5,309.8	5,214.5	20.1	19.6	-144.99	186.9	757.7	138.9	103.6	35.22	3.943	
5,400.0	5,284.1	5,409.7	5,311.5	20.6	20.1	-144.85	191.9	781.3	141.3	105.3	36.01	3.925	
5,500.0	5,380.7	5,509.7	5,408.5	21.1	20.6	-144.71	197.0	805.0	143.8	107.0	36.79	3.907	
5,600.0	5,477.3	5,609.7	5,505.5	21.5	21.1	-144.58	202.0	828.6	146.2	108.6	37.58	3.890	
5,700.0	5,573.9	5,709.6	5,602.5	22.0	21.5	-144.45	207.0	852.3	148.6	110.3	38.37	3.874	
5,800.0	5,670.5	5,809.6	5,699.5	22.5	22.0	-144.33	212.1	875.9	151.1	111.9	39.16	3.858	
5,900.0	5,767.1	5,909.6	5,796.5	23.0	22.5	-144.21	217.1	899.6	153.5	113.6	39.95	3.843	
6,000.0	5,863.7	6,009.5	5,893.5	23.5	23.0	-144.10	222.1	923.3	156.0	115.2	40.75	3.829	
6,100.0	5,960.3	6,109.5	5,990.5	24.0	23.5	-143.98	227.1	946.9	158.4	116.9	41.54	3.815	
6,200.0	6,056.9	6,209.5	6,087.5	24.5	23.9	-143.87	232.2	970.6	160.9	118.6	42.33	3.801	
6,300.0	6,153.5	6,309.4	6,184.5	24.9	24.4	-143.77	237.2	994.2	163.3	120.2	43.12	3.788	
6,400.0	6,250.1	6,409.4	6,281.5	25.4	24.9	-143.67	242.2	1,017.9	165.8	121.9	43.91	3.776	
6,500.0	6,346.6	6,509.4	6,378.5	25.9	25.4	-143.57	247.2	1,041.5	168.2	123.5	44.70	3.764	
6,600.0	6,443.2	6,608.0	6,474.2	26.4	25.8	-143.51	252.2	1,064.7	170.8	125.3	45.49	3.755	
6,700.0	6,539.8	6,703.5	6,567.5	26.9	26.3	-143.97	256.5	1,084.8	175.4	128.9	46.45	3.775	
6,800.0	6,636.4	6,800.0	6,662.4	27.4	26.8	-145.06	260.1	1,102.1	182.5	134.9	47.60	3.833	
6,900.0	6,733.0	6,893.1	6,754.4	27.9	27.2	-146.60	263.0	1,115.7	192.3	143.4	48.83	3.937	
7,000.0	6,829.6	6,986.8	6,847.4	28.4	27.6	-148.51	265.3	1,126.5	204.9	154.7	50.15	4.085	
7,081.2	6,908.0	7,062.1	6,922.5	28.8	27.9	-150.22	266.7	1,133.0	217.2	166.0	51.21	4.241	
7,100.0	6,926.2	7,079.5	6,939.8	28.9	28.0	-150.64	267.0	1,134.3	220.3	168.9	51.45	4.282	
7,200.0	7,023.1	7,171.4	7,031.5	29.3	28.3	-152.81	268.0	1,139.1	237.8	185.1	52.66	4.516	
7,300.0	7,120.4	7,262.3	7,122.5	29.8	28.5	-154.85	268.4	1,141.0	256.8	203.1	53.63	4.788	
7,400.0	7,218.1	7,358.8	7,218.9	30.3	28.5	-156.77	268.4	1,141.0	276.2	221.6	54.60	5.059	
7,500.0	7,316.2	7,456.9	7,317.0	30.8	28.6	-158.34	268.4	1,141.0	294.4	238.9	55.50	5.305	
7,600.0	7,414.6	7,555.2	7,415.4	31.2	28.6	-159.62	268.4	1,141.0	311.2	254.9	56.29	5.528	
7,700.0	7,513.2	7,653.9	7,514.1	31.7	28.6	-160.66	268.4	1,141.0	326.4	269.4	57.01	5.725	
7,800.0	7,612.2	7,752.9	7,613.0	32.1	28.6	-161.51	268.4	1,141.0	340.1	282.4	57.68	5.896	
7,900.0	7,711.4	7,852.1	7,712.2	32.5	28.7	-162.20	268.4	1,141.0	352.2	293.9	58.29	6.042	
8,000.0	7,810.8	7,951.4	7,811.6	32.9	28.7	-162.76	268.4	1,141.0	362.7	303.8	58.86	6.162	
8,100.0	7,910.3	8,051.0	7,911.2	33.3	28.7	-163.21	268.4	1,141.0	371.5	312.2	59.39	6.256	
8,200.0	8,010.0	8,150.7	8,010.9	33.7	28.8	-163.56	268.4	1,141.0	378.7	318.9	59.88	6.325	
8,300.0	8,109.9	8,250.6	8,110.7	34.1	28.8	-163.82	268.4	1,141.0	384.3	324.0	60.33	6.370	
8,400.0	8,209.8	8,350.5	8,210.6	34.4	28.8	-163.99	268.4	1,141.0	388.2	327.4	60.73	6.392	
8,500.0	8,309.8	8,450.5	8,310.6	34.7	28.9	-164.09	268.4	1,141.0	390.4	329.3	61.07	6.392	
8,581.2	8,390.9	8,531.6	8,391.8	34.8	28.9	-82.12	268.4	1,141.0	390.9	329.7	61.21	6.386	
8,600.0	8,409.8	8,550.5	8,410.6	34.8	28.9	-82.12	268.4	1,141.0	390.9	329.7	61.22	6.386	
8,700.0	8,509.8	8,650.5	8,510.6	34.8	28.9	-82.12	268.4	1,141.0	390.9	329.6	61.28	6.380	
8,800.0	8,609.8	8,750.5	8,610.6	34.8	29.0	-82.12	268.4	1,141.0	390.9	329.6	61.33	6.374	
8,900.0	8,709.8	8,850.5	8,710.6	34.8	29.0	-82.12	268.4	1,141.0	390.9	329.5	61.39	6.368	
9,000.0	8,809.8	8,950.5	8,810.6	34.9	29.0	-82.12	268.4	1,141.0	390.9	329.5	61.44	6.362	
9,100.0	8,909.8	9,050.5	8,910.6	34.9	29.1	-82.12	268.4	1,141.0	390.9	329.4	61.50	6.357	
9,200.0	9,009.8	9,150.5	9,010.6	34.9	29.1	-82.12	268.4	1,141.0	390.9	329.4	61.55	6.351	
9,300.0	9,109.8	9,250.5	9,110.6	34.9	29.1	-82.12	268.4	1,141.0	390.9	329.3	61.61	6.345	
9,400.0	9,209.8	9,350.5	9,210.6	35.0	29.2	-82.12	268.4	1,141.0	390.9	329.3	61.67	6.339	
9,500.0	9,309.8	9,450.5	9,310.6	35.0	29.2	-82.12	268.4	1,141.0	390.9	329.2	61.73	6.333	
9,600.0	9,409.8	9,550.5	9,410.6	35.0	29.2	-82.12	268.4	1,141.0	390.9	329.1	61.78	6.327	
9,700.0	9,509.8	9,650.5	9,510.6	35.0	29.2	-82.12	268.4	1,141.0	390.9	329.1	61.84	6.321	
9,800.0	9,609.8	9,750.5	9,610.6	35.1	29.3	-82.12	268.4	1,141.0	390.9	329.0	61.90	6.315	
9,900.0	9,709.8	9,850.5	9,710.6	35.1	29.3	-82.12	268.4	1,141.0	390.9	329.0	61.96	6.309	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11274-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
10,000.0	9,809.8	9,950.5	9,810.6	35.1	29.4	-82.12		268.4	1,141.0	390.9	328.9	62.02	6.303
10,100.0	9,909.8	10,050.5	9,910.6	35.1	29.4	-82.12		268.4	1,141.0	390.9	328.8	62.08	6.297
10,200.0	10,009.8	10,150.5	10,010.6	35.2	29.4	-82.12		268.4	1,141.0	390.9	328.8	62.14	6.291
10,300.0	10,109.8	10,250.5	10,110.6	35.2	29.5	-82.12		268.4	1,141.0	390.9	328.7	62.20	6.285
10,400.0	10,209.8	10,350.5	10,210.6	35.2	29.5	-82.12		268.4	1,141.0	390.9	328.7	62.26	6.279
10,500.0	10,309.8	10,450.5	10,310.6	35.2	29.5	-82.12		268.4	1,141.0	390.9	328.6	62.32	6.273
10,600.0	10,409.8	10,550.5	10,410.6	35.3	29.6	-82.12		268.4	1,141.0	390.9	328.5	62.38	6.267
10,700.0	10,509.8	10,650.5	10,510.6	35.3	29.6	-82.12		268.4	1,141.0	390.9	328.5	62.44	6.261
10,800.0	10,609.8	10,750.5	10,610.6	35.3	29.6	-82.12		268.4	1,141.0	390.9	328.4	62.50	6.254
10,900.0	10,709.8	10,850.5	10,710.6	35.3	29.7	-82.12		268.4	1,141.0	390.9	328.4	62.57	6.248
11,000.0	10,809.8	10,950.5	10,810.6	35.4	29.7	-82.12		268.4	1,141.0	390.9	328.3	62.63	6.242
11,100.0	10,909.8	11,050.5	10,910.6	35.4	29.7	-82.12		268.4	1,141.0	390.9	328.2	62.69	6.236
11,200.0	11,009.8	11,150.5	11,010.6	35.4	29.8	-82.12		268.4	1,141.0	390.9	328.2	62.76	6.229
11,300.0	11,109.8	11,250.5	11,110.6	35.5	29.8	-82.12		268.4	1,141.0	390.9	328.1	62.81	6.223
11,400.0	11,209.8	11,358.1	11,218.0	35.5	29.8	-83.02		262.2	1,141.0	390.2	326.9	63.25	6.168
11,499.3	11,309.0	11,461.8	11,318.6	35.5	29.8	-86.59		237.9	1,141.2	387.8	323.8	64.03	6.057
11,500.0	11,309.8	11,462.5	11,319.3	35.5	29.8	96.98		237.6	1,141.2	387.8	323.8	64.03	6.056
11,550.0	11,359.7	11,511.4	11,364.8	35.5	29.9	94.72		219.8	1,141.3	387.1	322.8	64.31	6.020
11,560.7	11,370.4	11,521.7	11,374.2	35.5	29.9	94.23		215.6	1,141.3	387.1	322.8	64.35	6.016
11,600.0	11,409.2	11,559.1	11,407.6	35.5	29.9	92.45		198.9	1,141.4	387.4	323.0	64.42	6.014
11,650.0	11,458.0	11,605.5	11,447.4	35.5	29.9	90.18		175.1	1,141.6	388.5	324.2	64.38	6.035
11,700.0	11,505.7	11,650.0	11,483.7	35.5	29.9	87.99		149.3	1,141.8	390.5	326.3	64.18	6.085
11,750.0	11,551.8	11,695.1	11,518.3	35.5	29.9	85.76		120.4	1,141.9	393.3	329.3	63.92	6.153
11,800.0	11,596.1	11,738.5	11,549.4	35.5	29.9	83.64		90.1	1,142.1	396.7	333.1	63.54	6.243
11,850.0	11,638.3	11,781.2	11,577.6	35.6	29.9	81.60		58.1	1,142.4	400.7	337.6	63.11	6.350
11,900.0	11,677.9	11,823.1	11,602.9	35.6	30.0	79.65		24.7	1,142.6	405.2	342.6	62.63	6.470
11,950.0	11,714.7	11,864.3	11,625.4	35.6	30.0	77.81		-9.8	1,142.8	410.1	347.9	62.13	6.599
12,000.0	11,748.4	11,905.0	11,645.1	35.6	30.0	76.08		-45.4	1,143.0	415.2	353.6	61.64	6.736
12,050.0	11,778.8	11,945.2	11,662.0	35.6	30.0	74.47		-81.9	1,143.3	420.5	359.4	61.16	6.876
12,100.0	11,805.6	11,984.9	11,676.1	35.6	30.1	73.00		-119.0	1,143.5	425.9	365.2	60.71	7.016
12,150.0	11,828.6	12,024.2	11,687.6	35.7	30.1	71.65		-156.6	1,143.7	431.3	371.0	60.29	7.154
12,200.0	11,847.7	12,063.2	11,696.3	35.7	30.1	70.44		-194.6	1,144.0	436.6	376.7	59.91	7.288
12,250.0	11,862.7	12,100.0	11,702.2	35.7	30.2	69.40		-230.9	1,144.2	441.7	382.2	59.54	7.419
12,300.0	11,873.4	12,140.3	11,706.0	35.8	30.2	68.44		-271.0	1,144.5	446.6	387.3	59.28	7.533
12,350.0	11,879.9	12,180.0	11,707.0	35.8	30.3	67.63		-310.6	1,144.7	451.2	392.1	59.06	7.639
12,399.3	11,882.0	12,229.1	11,707.0	35.9	30.3	67.21		-359.8	1,145.1	454.5	395.4	59.13	7.687
12,400.0	11,882.0	12,229.8	11,707.0	35.9	30.3	67.21		-360.5	1,145.1	454.6	395.4	59.13	7.688
12,500.0	11,882.0	12,329.7	11,707.0	36.0	30.5	67.43		-460.4	1,145.7	458.1	398.7	59.43	7.709
12,560.7	11,882.0	12,390.4	11,707.0	36.1	30.5	67.46		-521.1	1,146.1	458.7	399.1	59.60	7.697
12,600.0	11,882.0	12,429.7	11,707.0	36.1	30.6	67.46		-560.4	1,146.4	458.7	399.0	59.70	7.684
12,700.0	11,882.0	12,529.7	11,707.0	36.3	30.8	67.46		-660.4	1,147.0	458.7	398.7	60.01	7.645
12,800.0	11,882.0	12,629.7	11,707.0	36.4	31.0	67.46		-760.4	1,147.6	458.7	398.4	60.35	7.601
12,900.0	11,882.0	12,729.7	11,707.0	36.6	31.2	67.46		-860.4	1,148.3	458.7	398.0	60.73	7.554
13,000.0	11,882.0	12,829.7	11,707.0	36.8	31.4	67.46		-960.4	1,148.9	458.8	397.6	61.14	7.503
13,100.0	11,882.0	12,929.7	11,707.0	37.0	31.6	67.46		-1,060.4	1,149.6	458.8	397.2	61.59	7.449
13,200.0	11,882.0	13,029.7	11,707.0	37.2	31.9	67.46		-1,160.4	1,150.2	458.8	396.7	62.07	7.391
13,300.0	11,882.0	13,129.7	11,707.0	37.5	32.2	67.46		-1,260.4	1,150.9	458.8	396.2	62.58	7.330
13,400.0	11,882.0	13,229.7	11,707.0	37.7	32.4	67.46		-1,360.4	1,151.5	458.8	395.6	63.13	7.267
13,500.0	11,882.0	13,329.7	11,707.0	38.0	32.7	67.46		-1,460.4	1,152.2	458.8	395.1	63.71	7.201
13,600.0	11,882.0	13,429.7	11,707.0	38.2	33.0	67.46		-1,560.4	1,152.8	458.8	394.5	64.32	7.133
13,700.0	11,882.0	13,529.7	11,707.0	38.5	33.4	67.46		-1,660.4	1,153.5	458.8	393.8	64.96	7.063
13,800.0	11,882.0	13,629.7	11,707.0	38.8	33.7	67.46		-1,760.4	1,154.1	458.8	393.2	65.62	6.991

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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		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)			
13,900.0	11,882.0	13,729.7	11,707.0	39.1	34.0	67.46	-1,860.4	1,154.8	458.8	392.5	66.32	6.918	
14,000.0	11,882.0	13,829.7	11,707.0	39.4	34.4	67.46	-1,960.4	1,155.4	458.8	391.7	67.04	6.843	
14,100.0	11,882.0	13,929.7	11,707.0	39.8	34.8	67.46	-2,060.4	1,156.0	458.8	391.0	67.79	6.768	
14,200.0	11,882.0	14,029.7	11,707.0	40.1	35.2	67.46	-2,160.4	1,156.7	458.8	390.2	68.56	6.691	
14,300.0	11,882.0	14,129.7	11,707.0	40.5	35.6	67.47	-2,260.4	1,157.3	458.8	389.4	69.36	6.614	
14,400.0	11,882.0	14,229.7	11,707.0	40.8	36.0	67.47	-2,360.4	1,158.0	458.8	388.6	70.18	6.537	
14,500.0	11,882.0	14,329.7	11,707.0	41.2	36.4	67.47	-2,460.4	1,158.6	458.8	387.8	71.03	6.459	
14,600.0	11,882.0	14,429.7	11,707.0	41.6	36.8	67.47	-2,560.4	1,159.3	458.8	386.9	71.90	6.381	
14,700.0	11,882.0	14,529.7	11,707.0	42.0	37.2	67.47	-2,660.4	1,159.9	458.8	386.0	72.78	6.304	
14,800.0	11,882.0	14,629.7	11,707.0	42.4	37.7	67.47	-2,760.3	1,160.6	458.8	385.1	73.69	6.226	
14,900.0	11,882.0	14,729.7	11,707.0	42.8	38.2	67.47	-2,860.3	1,161.2	458.8	384.2	74.62	6.149	
15,000.0	11,882.0	14,829.7	11,707.0	43.2	38.6	67.47	-2,960.3	1,161.9	458.8	383.2	75.57	6.072	
15,100.0	11,882.0	14,929.7	11,707.0	43.7	39.1	67.47	-3,060.3	1,162.5	458.8	382.3	76.53	5.995	
15,200.0	11,882.0	15,029.7	11,707.0	44.1	39.6	67.47	-3,160.3	1,163.2	458.8	381.3	77.52	5.919	
15,300.0	11,882.0	15,129.7	11,707.0	44.6	40.1	67.47	-3,260.3	1,163.8	458.8	380.3	78.52	5.844	
15,400.0	11,882.0	15,229.7	11,707.0	45.0	40.6	67.47	-3,360.3	1,164.4	458.8	379.3	79.53	5.769	
15,500.0	11,882.0	15,329.7	11,707.0	45.5	41.1	67.47	-3,460.3	1,165.1	458.8	378.3	80.56	5.695	
15,600.0	11,882.0	15,429.7	11,707.0	46.0	41.6	67.47	-3,560.3	1,165.7	458.8	377.2	81.61	5.622	
15,700.0	11,882.0	15,529.7	11,707.0	46.4	42.1	67.47	-3,660.3	1,166.4	458.8	376.2	82.67	5.550	
15,800.0	11,882.0	15,629.7	11,707.0	46.9	42.7	67.47	-3,760.3	1,167.0	458.8	375.1	83.75	5.479	
15,900.0	11,882.0	15,729.7	11,707.0	47.4	43.2	67.47	-3,860.3	1,167.7	458.8	374.0	84.83	5.409	
16,000.0	11,882.0	15,829.7	11,707.0	47.9	43.8	67.47	-3,960.3	1,168.3	458.8	372.9	85.94	5.339	
16,100.0	11,882.0	15,929.7	11,707.0	48.4	44.3	67.47	-4,060.3	1,169.0	458.8	371.8	87.05	5.271	
16,200.0	11,882.0	16,029.7	11,707.0	48.9	44.9	67.47	-4,160.3	1,169.6	458.8	370.7	88.18	5.204	
16,300.0	11,882.0	16,129.7	11,707.0	49.5	45.4	67.47	-4,260.3	1,170.3	458.8	369.5	89.31	5.138	
16,400.0	11,882.0	16,229.7	11,707.0	50.0	46.0	67.47	-4,360.3	1,170.9	458.9	368.4	90.46	5.072	
16,500.0	11,882.0	16,329.7	11,707.0	50.5	46.6	67.47	-4,460.3	1,171.6	458.9	367.2	91.62	5.008	
16,600.0	11,882.0	16,429.7	11,707.0	51.1	47.2	67.47	-4,560.3	1,172.2	458.9	366.1	92.79	4.945	
16,700.0	11,882.0	16,529.7	11,707.0	51.6	47.7	67.47	-4,660.3	1,172.9	458.9	364.9	93.97	4.883	
16,800.0	11,882.0	16,629.7	11,707.0	52.2	48.3	67.47	-4,760.3	1,173.5	458.9	363.7	95.16	4.822	
16,900.0	11,882.0	16,729.7	11,707.0	52.7	48.9	67.47	-4,860.3	1,174.1	458.9	362.5	96.35	4.762	
17,000.0	11,882.0	16,829.7	11,707.0	53.3	49.5	67.47	-4,960.3	1,174.8	458.9	361.3	97.56	4.704	
17,100.0	11,882.0	16,929.7	11,707.0	53.8	50.1	67.47	-5,060.3	1,175.4	458.9	360.1	98.77	4.646	
17,200.0	11,882.0	17,029.7	11,707.0	54.4	50.7	67.47	-5,160.3	1,176.1	458.9	358.9	100.00	4.589	
17,300.0	11,882.0	17,129.7	11,707.0	55.0	51.4	67.47	-5,260.3	1,176.7	458.9	357.7	101.23	4.533	
17,400.0	11,882.0	17,229.7	11,707.0	55.6	52.0	67.47	-5,360.3	1,177.4	458.9	356.4	102.46	4.478	
17,500.0	11,882.0	17,329.7	11,707.0	56.1	52.6	67.47	-5,460.3	1,178.0	458.9	355.2	103.71	4.425	
17,600.0	11,882.0	17,429.7	11,707.0	56.7	53.2	67.47	-5,560.3	1,178.7	458.9	353.9	104.96	4.372	
17,700.0	11,882.0	17,529.7	11,707.0	57.3	53.9	67.47	-5,660.3	1,179.3	458.9	352.7	106.22	4.320	
17,800.0	11,882.0	17,629.7	11,707.0	57.9	54.5	67.47	-5,760.3	1,180.0	458.9	351.4	107.49	4.269	
17,900.0	11,882.0	17,729.7	11,707.0	58.5	55.1	67.47	-5,860.3	1,180.6	458.9	350.1	108.76	4.219	
18,000.0	11,882.0	17,829.7	11,707.0	59.1	55.8	67.47	-5,960.3	1,181.3	458.9	348.9	110.04	4.170	
18,100.0	11,882.0	17,929.7	11,707.0	59.7	56.4	67.47	-6,060.3	1,181.9	458.9	347.6	111.32	4.122	
18,200.0	11,882.0	18,029.7	11,707.0	60.3	57.0	67.47	-6,160.3	1,182.5	458.9	346.3	112.61	4.075	
18,300.0	11,882.0	18,129.7	11,707.0	60.9	57.7	67.47	-6,260.3	1,183.2	458.9	345.0	113.91	4.029	
18,400.0	11,882.0	18,229.7	11,707.0	61.6	58.3	67.47	-6,360.3	1,183.8	458.9	343.7	115.21	3.983	
18,500.0	11,882.0	18,329.7	11,707.0	62.2	59.0	67.47	-6,460.3	1,184.5	458.9	342.4	116.51	3.939	
18,600.0	11,882.0	18,429.7	11,707.0	62.8	59.7	67.47	-6,560.3	1,185.1	458.9	341.1	117.82	3.895	
18,700.0	11,882.0	18,529.7	11,707.0	63.4	60.3	67.47	-6,660.3	1,185.8	458.9	339.8	119.14	3.852	
18,800.0	11,882.0	18,629.7	11,707.0	64.1	61.0	67.47	-6,760.3	1,186.4	458.9	338.5	120.46	3.810	
18,900.0	11,882.0	18,729.7	11,707.0	64.7	61.6	67.47	-6,860.3	1,187.1	458.9	337.1	121.78	3.768	
19,000.0	11,882.0	18,829.7	11,707.0	65.3	62.3	67.47	-6,960.3	1,187.7	458.9	335.8	123.11	3.728	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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		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
19,100.0	11,882.0	18,929.7	11,707.0	66.0	63.0	67.47	-7,060.3	1,188.4	458.9	334.5	124.44	3.688	
19,200.0	11,882.0	19,029.7	11,707.0	66.6	63.6	67.47	-7,160.3	1,189.0	458.9	333.2	125.78	3.649	
19,300.0	11,882.0	19,129.7	11,707.0	67.2	64.3	67.47	-7,260.3	1,189.7	458.9	331.8	127.12	3.610	
19,400.0	11,882.0	19,229.7	11,707.0	67.9	65.0	67.47	-7,360.3	1,190.3	458.9	330.5	128.47	3.572	
19,500.0	11,882.0	19,329.7	11,707.0	68.5	65.7	67.47	-7,460.3	1,190.9	458.9	329.1	129.81	3.535	
19,600.0	11,882.0	19,429.7	11,707.0	69.2	66.3	67.47	-7,560.2	1,191.6	458.9	327.8	131.17	3.499	
19,700.0	11,882.0	19,529.7	11,707.0	69.8	67.0	67.47	-7,660.2	1,192.2	458.9	326.4	132.52	3.463	
19,800.0	11,882.0	19,629.7	11,707.0	70.5	67.7	67.47	-7,760.2	1,192.9	459.0	325.1	133.88	3.428	
19,900.0	11,882.0	19,729.7	11,707.0	71.1	68.4	67.47	-7,860.2	1,193.5	459.0	323.7	135.24	3.394	
20,000.0	11,882.0	19,829.7	11,707.0	71.8	69.1	67.47	-7,960.2	1,194.2	459.0	322.4	136.61	3.360	
20,100.0	11,882.0	19,929.7	11,707.0	72.5	69.8	67.47	-8,060.2	1,194.8	459.0	321.0	137.97	3.326	
20,200.0	11,882.0	20,029.7	11,707.0	73.1	70.5	67.47	-8,160.2	1,195.5	459.0	319.6	139.35	3.294	
20,300.0	11,882.0	20,129.7	11,707.0	73.8	71.1	67.47	-8,260.2	1,196.1	459.0	318.2	140.72	3.262	
20,400.0	11,882.0	20,229.7	11,707.0	74.5	71.8	67.47	-8,360.2	1,196.8	459.0	316.9	142.10	3.230	
20,500.0	11,882.0	20,329.7	11,707.0	75.1	72.5	67.47	-8,460.2	1,197.4	459.0	315.5	143.48	3.199	
20,600.0	11,882.0	20,429.7	11,707.0	75.8	73.2	67.47	-8,560.2	1,198.1	459.0	314.1	144.86	3.168	
20,700.0	11,882.0	20,529.7	11,707.0	76.5	73.9	67.47	-8,660.2	1,198.7	459.0	312.7	146.24	3.138	
20,800.0	11,882.0	20,629.7	11,707.0	77.1	74.6	67.47	-8,760.2	1,199.4	459.0	311.4	147.63	3.109	
20,900.0	11,882.0	20,729.7	11,707.0	77.8	75.3	67.48	-8,860.2	1,200.0	459.0	310.0	149.02	3.080	
21,000.0	11,882.0	20,829.7	11,707.0	78.5	76.0	67.48	-8,960.2	1,200.6	459.0	308.6	150.41	3.052	
21,100.0	11,882.0	20,929.7	11,707.0	79.2	76.7	67.48	-9,060.2	1,201.3	459.0	307.2	151.81	3.024	
21,200.0	11,882.0	21,029.7	11,707.0	79.9	77.4	67.48	-9,160.2	1,201.9	459.0	305.8	153.20	2.996	
21,300.0	11,882.0	21,129.7	11,707.0	80.5	78.1	67.48	-9,260.2	1,202.6	459.0	304.4	154.60	2.969	
21,400.0	11,882.0	21,229.7	11,707.0	81.2	78.8	67.48	-9,360.2	1,203.2	459.0	303.0	156.00	2.942	
21,500.0	11,882.0	21,329.7	11,707.0	81.9	79.5	67.48	-9,460.2	1,203.9	459.0	301.6	157.41	2.916	
21,600.0	11,882.0	21,429.7	11,707.0	82.6	80.2	67.48	-9,560.2	1,204.5	459.0	300.2	158.81	2.890	
21,700.0	11,882.0	21,529.7	11,707.0	83.3	81.0	67.48	-9,660.2	1,205.2	459.0	298.8	160.22	2.865	
21,788.4	11,882.0	21,618.2	11,707.0	83.9	81.6	67.48	-9,748.6	1,205.7	459.0	297.5	161.46	2.843	
21,800.0	11,882.0	21,629.7	11,707.0	84.0	81.7	67.48	-9,760.2	1,205.8	459.0	297.4	161.62	2.840	
21,838.4	11,882.0	21,668.1	11,707.0	84.2	81.9	67.48	-9,798.6	1,206.1	459.0	296.9	162.16	2.831 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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 2032 PROJECT - ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11379-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
6,600.0	6,443.2	6,550.1	6,429.9	26.4	25.5	45.33	-409.2	2,003.5	981.4	943.6	37.85	25.928
6,700.0	6,539.8	6,642.5	6,522.1	26.9	25.8	46.70	-413.2	1,999.3	962.0	924.0	38.03	25.297
6,800.0	6,636.4	6,735.6	6,615.1	27.4	26.1	48.04	-416.2	1,996.1	943.5	905.3	38.20	24.700
6,900.0	6,733.0	6,829.6	6,709.0	27.9	26.4	49.35	-418.1	1,994.0	925.7	887.3	38.36	24.130
7,000.0	6,829.6	6,924.3	6,803.7	28.4	26.6	50.62	-419.0	1,993.1	908.5	870.0	38.52	23.589
7,081.2	6,908.0	7,002.2	6,881.6	28.8	26.6	51.64	-419.0	1,993.0	895.1	856.5	38.60	23.191
7,100.0	6,926.2	7,020.4	6,899.9	28.9	26.7	51.85	-419.0	1,993.0	892.0	853.4	38.61	23.101
7,200.0	7,023.1	7,117.3	6,996.8	29.3	26.7	52.98	-419.0	1,993.0	876.6	837.9	38.74	22.631
7,300.0	7,120.4	7,214.6	7,094.1	29.8	26.7	54.06	-419.0	1,993.0	862.7	823.8	38.85	22.205
7,400.0	7,218.1	7,312.3	7,191.8	30.3	26.7	55.10	-419.0	1,993.0	850.1	811.2	38.97	21.817
7,500.0	7,316.2	7,410.3	7,289.8	30.8	26.7	56.09	-419.0	1,993.0	838.9	799.8	39.09	21.463
7,600.0	7,414.6	7,508.7	7,388.2	31.2	26.7	57.02	-419.0	1,993.0	828.9	789.7	39.21	21.143
7,700.0	7,513.2	7,607.4	7,486.9	31.7	26.8	57.89	-419.0	1,993.0	820.2	780.8	39.33	20.853
7,800.0	7,612.2	7,706.4	7,585.8	32.1	26.8	58.68	-419.0	1,993.0	812.5	773.0	39.46	20.592
7,900.0	7,711.4	7,805.5	7,685.0	32.5	26.8	59.39	-419.0	1,993.0	805.9	766.3	39.59	20.357
8,000.0	7,810.8	7,904.9	7,784.4	32.9	26.8	60.02	-419.0	1,993.0	800.3	760.6	39.72	20.148
8,100.0	7,910.3	8,004.5	7,884.0	33.3	26.8	60.55	-419.0	1,993.0	795.7	755.9	39.86	19.962
8,200.0	8,010.0	8,104.2	7,983.7	33.7	26.9	60.99	-419.0	1,993.0	792.1	752.0	40.01	19.798
8,300.0	8,109.9	8,204.1	8,083.5	34.1	26.9	61.34	-419.0	1,993.0	789.3	749.1	40.16	19.655
8,400.0	8,209.8	8,304.0	8,183.4	34.4	26.9	61.58	-419.0	1,993.0	787.3	747.0	40.31	19.534
8,500.0	8,309.8	8,403.9	8,283.4	34.7	26.9	61.71	-419.0	1,993.0	786.3	745.8	40.46	19.433
8,581.2	8,390.9	8,485.1	8,364.6	34.8	27.0	143.75	-419.0	1,993.0	786.0	745.4	40.54	19.386
8,600.0	8,409.8	8,503.9	8,383.4	34.8	27.0	143.75	-419.0	1,993.0	786.0	745.4	40.55	19.382
8,700.0	8,509.8	8,603.9	8,483.4	34.8	27.0	143.75	-419.0	1,993.0	786.0	745.3	40.63	19.344
8,800.0	8,609.8	8,703.9	8,583.4	34.8	27.0	143.75	-419.0	1,993.0	786.0	745.3	40.71	19.309
8,900.0	8,709.8	8,803.9	8,683.4	34.8	27.0	143.75	-419.0	1,993.0	786.0	745.2	40.78	19.274
9,000.0	8,809.8	8,903.9	8,783.4	34.9	27.0	143.75	-419.0	1,993.0	786.0	745.1	40.85	19.238
9,100.0	8,909.8	9,003.9	8,883.4	34.9	27.1	143.75	-419.0	1,993.0	786.0	745.0	40.93	19.203
9,200.0	9,009.8	9,103.9	8,983.4	34.9	27.1	143.75	-419.0	1,993.0	786.0	745.0	41.01	19.167
9,300.0	9,109.8	9,203.9	9,083.4	34.9	27.1	143.75	-419.0	1,993.0	786.0	744.9	41.08	19.132
9,400.0	9,209.8	9,303.9	9,183.4	35.0	27.1	143.75	-419.0	1,993.0	786.0	744.8	41.16	19.096
9,500.0	9,309.8	9,403.9	9,283.4	35.0	27.2	143.75	-419.0	1,993.0	786.0	744.7	41.24	19.060
9,600.0	9,409.8	9,503.9	9,383.4	35.0	27.2	143.75	-419.0	1,993.0	786.0	744.7	41.31	19.024
9,700.0	9,509.8	9,603.9	9,483.4	35.0	27.2	143.75	-419.0	1,993.0	786.0	744.6	41.39	18.988
9,800.0	9,609.8	9,703.9	9,583.4	35.1	27.2	143.75	-419.0	1,993.0	786.0	744.5	41.47	18.952
9,900.0	9,709.8	9,803.9	9,683.4	35.1	27.3	143.75	-419.0	1,993.0	786.0	744.4	41.55	18.916
10,000.0	9,809.8	9,903.9	9,783.4	35.1	27.3	143.75	-419.0	1,993.0	786.0	744.3	41.63	18.880
10,100.0	9,909.8	10,003.9	9,883.4	35.1	27.3	143.75	-419.0	1,993.0	786.0	744.3	41.71	18.844
10,200.0	10,009.8	10,103.9	9,983.4	35.2	27.3	143.75	-419.0	1,993.0	786.0	744.2	41.79	18.807
10,300.0	10,109.8	10,203.9	10,083.4	35.2	27.4	143.75	-419.0	1,993.0	786.0	744.1	41.87	18.771
10,400.0	10,209.8	10,303.9	10,183.4	35.2	27.4	143.75	-419.0	1,993.0	786.0	744.0	41.95	18.734
10,500.0	10,309.8	10,403.9	10,283.4	35.2	27.4	143.75	-419.0	1,993.0	786.0	743.9	42.04	18.698
10,600.0	10,409.8	10,503.9	10,383.4	35.3	27.4	143.75	-419.0	1,993.0	786.0	743.9	42.12	18.661
10,700.0	10,509.8	10,603.9	10,483.4	35.3	27.5	143.75	-419.0	1,993.0	786.0	743.8	42.20	18.624
10,800.0	10,609.8	10,703.9	10,583.4	35.3	27.5	143.75	-419.0	1,993.0	786.0	743.7	42.28	18.588
10,900.0	10,709.8	10,803.9	10,683.4	35.3	27.5	143.75	-419.0	1,993.0	786.0	743.6	42.37	18.551
11,000.0	10,809.8	10,903.9	10,783.4	35.4	27.6	143.75	-419.0	1,993.0	786.0	743.5	42.45	18.514
11,100.0	10,909.8	11,003.9	10,883.4	35.4	27.6	143.75	-419.0	1,993.0	786.0	743.4	42.54	18.477
11,200.0	11,009.8	11,103.9	10,983.4	35.4	27.6	143.75	-419.0	1,993.0	786.0	743.4	42.62	18.440
11,300.0	11,109.8	11,203.9	11,083.4	35.5	27.6	143.75	-419.0	1,993.0	786.0	743.3	42.71	18.403
11,400.0	11,209.8	11,303.9	11,183.4	35.5	27.7	143.75	-419.0	1,993.0	786.0	743.2	42.79	18.366
11,405.9	11,215.7	11,309.8	11,189.3	35.5	27.7	143.75	-419.0	1,993.0	786.0	743.2	42.80	18.364

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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 2032 PROJECT - ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11379-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth	Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
11,499.3	11,309.0	11,389.4	11,268.9	35.5	27.7	143.75	-419.2	1,993.0	786.2	743.3	42.86	18.342		
11,500.0	11,309.8	11,389.7	11,269.2	35.5	27.7	-32.65	-419.2	1,993.0	786.2	743.3	42.87	18.341		
11,550.0	11,359.7	11,411.1	11,290.6	35.5	27.7	-32.65	-420.1	1,993.0	786.1	743.0	43.12	18.231		
11,600.0	11,409.2	11,432.5	11,311.9	35.5	27.7	-32.78	-422.0	1,993.0	784.2	740.8	43.41	18.064		
11,650.0	11,458.0	11,450.0	11,329.2	35.5	27.7	-33.04	-424.3	1,993.0	780.4	736.7	43.78	17.827		
11,700.0	11,505.7	11,475.0	11,353.8	35.5	27.7	-33.46	-428.7	1,993.1	774.8	730.7	44.12	17.563		
11,750.0	11,551.8	11,500.0	11,378.2	35.5	27.7	-34.03	-434.3	1,993.1	767.4	722.9	44.48	17.251		
11,800.0	11,596.1	11,525.0	11,402.2	35.5	27.7	-34.77	-441.2	1,993.2	758.3	713.4	44.88	16.894		
11,850.0	11,638.3	11,539.7	11,416.2	35.6	27.7	-35.57	-445.8	1,993.2	747.3	701.9	45.45	16.442		
11,900.0	11,677.9	11,561.2	11,436.3	35.6	27.7	-36.61	-453.4	1,993.2	734.7	688.8	45.97	15.982		
11,950.0	11,714.7	11,582.6	11,456.0	35.6	27.7	-37.83	-461.8	1,993.3	720.6	674.0	46.54	15.484		
12,000.0	11,748.4	11,600.0	11,471.7	35.6	27.7	-39.16	-469.3	1,993.3	704.9	657.7	47.20	14.933		
12,050.0	11,778.8	11,625.0	11,493.7	35.6	27.7	-40.86	-481.0	1,993.4	687.7	639.9	47.79	14.390		
12,100.0	11,805.6	11,650.0	11,515.2	35.6	27.7	-42.82	-493.9	1,993.5	669.3	620.9	48.42	13.823		
12,150.0	11,828.6	11,675.0	11,535.9	35.7	27.8	-45.06	-507.9	1,993.6	649.7	600.6	49.08	13.238		
12,200.0	11,847.7	11,690.4	11,548.3	35.7	27.8	-47.25	-517.0	1,993.6	629.0	579.0	49.98	12.584		
12,250.0	11,862.7	11,712.0	11,565.2	35.7	27.8	-49.92	-530.5	1,993.7	607.4	556.6	50.81	11.955		
12,300.0	11,873.4	11,733.7	11,581.5	35.8	27.8	-52.88	-544.8	1,993.8	585.2	533.5	51.68	11.323		
12,350.0	11,879.9	11,755.5	11,597.2	35.8	27.8	-56.13	-559.9	1,993.9	562.6	510.0	52.61	10.694		
12,399.3	11,882.0	11,775.0	11,610.6	35.9	27.8	-59.46	-574.0	1,994.0	540.2	486.6	53.62	10.074		
12,400.0	11,882.0	11,775.0	11,610.6	35.9	27.8	-59.47	-574.0	1,994.0	539.9	486.3	53.65	10.064		
12,500.0	11,882.0	11,825.0	11,642.4	36.0	27.8	-63.14	-612.6	1,994.3	500.5	444.9	55.62	8.999		
12,560.7	11,882.0	11,857.9	11,661.1	36.1	27.9	-65.34	-639.7	1,994.4	482.6	425.8	56.82	8.494		
12,600.0	11,882.0	11,880.9	11,673.0	36.1	27.9	-66.68	-659.4	1,994.6	473.2	415.7	57.56	8.222		
12,700.0	11,882.0	11,945.5	11,701.1	36.3	27.9	-69.97	-717.4	1,995.0	455.5	396.3	59.20	7.694		
12,800.0	11,882.0	12,017.9	11,723.1	36.4	28.0	-72.64	-786.3	1,995.4	445.2	384.7	60.47	7.363		
12,900.0	11,882.0	12,095.8	11,734.8	36.6	28.0	-74.09	-863.3	1,995.9	440.8	379.4	61.46	7.172		
12,941.6	11,882.0	12,129.1	11,736.0	36.7	28.0	-74.24	-896.5	1,996.1	440.4	378.6	61.84	7.122 CC		
13,000.0	11,882.0	12,187.4	11,736.0	36.8	28.1	-74.24	-954.9	1,996.5	440.4	378.4	62.06	7.097		
13,100.0	11,882.0	12,287.4	11,736.0	37.0	28.2	-74.24	-1,054.9	1,997.1	440.4	378.0	62.46	7.051		
13,200.0	11,882.0	12,387.4	11,736.0	37.2	28.3	-74.24	-1,154.9	1,997.8	440.4	377.5	62.90	7.002		
13,300.0	11,882.0	12,487.4	11,736.0	37.5	28.4	-74.24	-1,254.9	1,998.5	440.4	377.1	63.38	6.950		
13,400.0	11,882.0	12,587.4	11,736.0	37.7	28.5	-74.24	-1,354.9	1,999.1	440.4	376.6	63.88	6.895		
13,500.0	11,882.0	12,687.4	11,736.0	38.0	28.7	-74.24	-1,454.9	1,999.8	440.4	376.0	64.42	6.837		
13,600.0	11,882.0	12,787.4	11,736.0	38.2	28.9	-74.24	-1,554.9	2,000.4	440.4	375.4	64.99	6.777		
13,700.0	11,882.0	12,887.4	11,736.0	38.5	29.0	-74.24	-1,654.9	2,001.1	440.4	374.9	65.59	6.715		
13,800.0	11,882.0	12,987.4	11,736.0	38.8	29.3	-74.24	-1,754.9	2,001.7	440.4	374.2	66.21	6.652		
13,900.0	11,882.0	13,087.4	11,736.0	39.1	29.5	-74.24	-1,854.9	2,002.4	440.4	373.6	66.87	6.587		
14,000.0	11,882.0	13,187.4	11,736.0	39.4	29.7	-74.24	-1,954.9	2,003.0	440.4	372.9	67.55	6.520		
14,100.0	11,882.0	13,287.4	11,736.0	39.8	30.0	-74.24	-2,054.9	2,003.7	440.4	372.2	68.26	6.452		
14,200.0	11,882.0	13,387.4	11,736.0	40.1	30.3	-74.24	-2,154.9	2,004.3	440.4	371.4	69.00	6.383		
14,300.0	11,882.0	13,487.4	11,736.0	40.5	30.6	-74.24	-2,254.9	2,005.0	440.4	370.7	69.76	6.314		
14,400.0	11,882.0	13,587.4	11,736.0	40.8	31.0	-74.24	-2,354.9	2,005.6	440.4	369.9	70.55	6.243		
14,500.0	11,882.0	13,687.4	11,736.0	41.2	31.3	-74.24	-2,454.9	2,006.3	440.4	369.1	71.36	6.172		
14,600.0	11,882.0	13,787.4	11,736.0	41.6	31.7	-74.24	-2,554.9	2,006.9	440.4	368.3	72.19	6.101		
14,700.0	11,882.0	13,887.4	11,736.0	42.0	32.1	-74.24	-2,654.9	2,007.6	440.5	367.4	73.04	6.030		
14,800.0	11,882.0	13,987.4	11,736.0	42.4	32.5	-74.24	-2,754.9	2,008.2	440.5	366.5	73.92	5.959		
14,900.0	11,882.0	14,087.4	11,736.0	42.8	32.9	-74.24	-2,854.8	2,008.9	440.5	365.6	74.81	5.887		
15,000.0	11,882.0	14,187.4	11,736.0	43.2	33.4	-74.24	-2,954.8	2,009.5	440.5	364.7	75.73	5.816		
15,100.0	11,882.0	14,287.4	11,736.0	43.7	33.8	-74.24	-3,054.8	2,010.2	440.5	363.8	76.66	5.745		
15,200.0	11,882.0	14,387.4	11,736.0	44.1	34.3	-74.24	-3,154.8	2,010.8	440.5	362.8	77.62	5.675		
15,300.0	11,882.0	14,487.4	11,736.0	44.6	34.8	-74.24	-3,254.8	2,011.5	440.5	361.9	78.59	5.605		

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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 2032 PROJECT - ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11379-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	
15,400.0	11,882.0	14,587.4	11,736.0	45.0	35.3	-74.24	-3,354.8	2,012.1	440.5	360.9	79.57	5.535	
15,500.0	11,882.0	14,687.4	11,736.0	45.5	35.8	-74.24	-3,454.8	2,012.8	440.5	359.9	80.58	5.466	
15,600.0	11,882.0	14,787.4	11,736.0	46.0	36.4	-74.24	-3,554.8	2,013.4	440.5	358.9	81.59	5.398	
15,700.0	11,882.0	14,887.4	11,736.0	46.4	36.9	-74.24	-3,654.8	2,014.1	440.5	357.8	82.63	5.331	
15,800.0	11,882.0	14,987.4	11,736.0	46.9	37.5	-74.24	-3,754.8	2,014.7	440.5	356.8	83.68	5.264	
15,900.0	11,882.0	15,087.4	11,736.0	47.4	38.0	-74.24	-3,854.8	2,015.4	440.5	355.7	84.74	5.198	
16,000.0	11,882.0	15,187.4	11,736.0	47.9	38.6	-74.24	-3,954.8	2,016.0	440.5	354.7	85.82	5.133	
16,100.0	11,882.0	15,287.4	11,736.0	48.4	39.2	-74.24	-4,054.8	2,016.7	440.5	353.6	86.90	5.068	
16,200.0	11,882.0	15,387.4	11,736.0	48.9	39.8	-74.24	-4,154.8	2,017.3	440.5	352.5	88.01	5.005	
16,300.0	11,882.0	15,487.4	11,736.0	49.5	40.4	-74.24	-4,254.8	2,018.0	440.5	351.4	89.12	4.942	
16,400.0	11,882.0	15,587.4	11,736.0	50.0	41.0	-74.24	-4,354.8	2,018.6	440.5	350.2	90.25	4.881	
16,500.0	11,882.0	15,687.4	11,736.0	50.5	41.6	-74.24	-4,454.8	2,019.3	440.5	349.1	91.38	4.820	
16,600.0	11,882.0	15,787.4	11,736.0	51.1	42.2	-74.24	-4,554.8	2,019.9	440.5	347.9	92.53	4.760	
16,700.0	11,882.0	15,887.4	11,736.0	51.6	42.8	-74.24	-4,654.8	2,020.6	440.5	346.8	93.69	4.702	
16,800.0	11,882.0	15,987.4	11,736.0	52.2	43.4	-74.24	-4,754.8	2,021.2	440.5	345.6	94.85	4.644	
16,900.0	11,882.0	16,087.4	11,736.0	52.7	44.1	-74.24	-4,854.8	2,021.9	440.5	344.4	96.03	4.587	
17,000.0	11,882.0	16,187.4	11,736.0	53.3	44.7	-74.24	-4,954.8	2,022.5	440.5	343.3	97.22	4.531	
17,100.0	11,882.0	16,287.4	11,736.0	53.8	45.4	-74.24	-5,054.8	2,023.2	440.5	342.1	98.41	4.476	
17,200.0	11,882.0	16,387.4	11,736.0	54.4	46.0	-74.24	-5,154.8	2,023.8	440.5	340.9	99.62	4.422	
17,300.0	11,882.0	16,487.4	11,736.0	55.0	46.7	-74.24	-5,254.8	2,024.5	440.5	339.7	100.83	4.369	
17,400.0	11,882.0	16,587.4	11,736.0	55.6	47.3	-74.24	-5,354.8	2,025.1	440.5	338.4	102.05	4.316	
17,500.0	11,882.0	16,687.4	11,736.0	56.1	48.0	-74.24	-5,454.8	2,025.8	440.5	337.2	103.28	4.265	
17,600.0	11,882.0	16,787.4	11,736.0	56.7	48.6	-74.24	-5,554.8	2,026.4	440.5	336.0	104.51	4.215	
17,700.0	11,882.0	16,887.4	11,736.0	57.3	49.3	-74.24	-5,654.8	2,027.1	440.5	334.7	105.76	4.165	
17,800.0	11,882.0	16,987.4	11,736.0	57.9	50.0	-74.24	-5,754.8	2,027.7	440.5	333.5	107.00	4.117	
17,900.0	11,882.0	17,087.4	11,736.0	58.5	50.6	-74.24	-5,854.8	2,028.4	440.5	332.2	108.26	4.069	
18,000.0	11,882.0	17,187.4	11,736.0	59.1	51.3	-74.24	-5,954.8	2,029.0	440.5	331.0	109.52	4.022	
18,100.0	11,882.0	17,287.4	11,736.0	59.7	52.0	-74.24	-6,054.8	2,029.7	440.5	329.7	110.79	3.976	
18,200.0	11,882.0	17,387.4	11,736.0	60.3	52.7	-74.24	-6,154.8	2,030.3	440.5	328.4	112.07	3.931	
18,300.0	11,882.0	17,487.4	11,736.0	60.9	53.4	-74.24	-6,254.8	2,031.0	440.5	327.2	113.35	3.886	
18,400.0	11,882.0	17,587.4	11,736.0	61.6	54.0	-74.24	-6,354.8	2,031.7	440.5	325.9	114.63	3.843	
18,500.0	11,882.0	17,687.4	11,736.0	62.2	54.7	-74.24	-6,454.8	2,032.3	440.5	324.6	115.93	3.800	
18,600.0	11,882.0	17,787.4	11,736.0	62.8	55.4	-74.24	-6,554.8	2,033.0	440.5	323.3	117.22	3.758	
18,700.0	11,882.0	17,887.4	11,736.0	63.4	56.1	-74.24	-6,654.8	2,033.6	440.5	322.0	118.52	3.717	
18,800.0	11,882.0	17,987.4	11,736.0	64.1	56.8	-74.24	-6,754.8	2,034.3	440.5	320.7	119.83	3.676	
18,900.0	11,882.0	18,087.4	11,736.0	64.7	57.5	-74.24	-6,854.8	2,034.9	440.5	319.4	121.14	3.636	
19,000.0	11,882.0	18,187.4	11,736.0	65.3	58.2	-74.24	-6,954.8	2,035.6	440.5	318.1	122.46	3.597	
19,100.0	11,882.0	18,287.4	11,736.0	66.0	58.9	-74.24	-7,054.8	2,036.2	440.5	316.7	123.78	3.559	
19,200.0	11,882.0	18,387.4	11,736.0	66.6	59.6	-74.24	-7,154.8	2,036.9	440.5	315.4	125.10	3.521	
19,300.0	11,882.0	18,487.4	11,736.0	67.2	60.3	-74.24	-7,254.8	2,037.5	440.5	314.1	126.43	3.484	
19,400.0	11,882.0	18,587.4	11,736.0	67.9	61.0	-74.24	-7,354.8	2,038.2	440.5	312.7	127.77	3.448	
19,500.0	11,882.0	18,687.4	11,736.0	68.5	61.7	-74.24	-7,454.8	2,038.8	440.5	311.4	129.10	3.412	
19,600.0	11,882.0	18,787.4	11,736.0	69.2	62.4	-74.24	-7,554.7	2,039.5	440.5	310.1	130.44	3.377	
19,700.0	11,882.0	18,887.4	11,736.0	69.8	63.1	-74.24	-7,654.7	2,040.1	440.5	308.7	131.79	3.343	
19,800.0	11,882.0	18,987.4	11,736.0	70.5	63.8	-74.24	-7,754.7	2,040.8	440.5	307.4	133.14	3.309	
19,900.0	11,882.0	19,087.4	11,736.0	71.1	64.6	-74.24	-7,854.7	2,041.4	440.5	306.0	134.49	3.276	
20,000.0	11,882.0	19,187.4	11,736.0	71.8	65.3	-74.24	-7,954.7	2,042.1	440.5	304.7	135.84	3.243	
20,100.0	11,882.0	19,287.4	11,736.0	72.5	66.0	-74.24	-8,054.7	2,042.7	440.5	303.3	137.20	3.211	
20,200.0	11,882.0	19,387.4	11,736.0	73.1	66.7	-74.24	-8,154.7	2,043.4	440.5	302.0	138.56	3.179	
20,300.0	11,882.0	19,487.4	11,736.0	73.8	67.4	-74.24	-8,254.7	2,044.0	440.5	300.6	139.93	3.148	
20,400.0	11,882.0	19,587.4	11,736.0	74.5	68.1	-74.24	-8,354.7	2,044.7	440.5	299.2	141.30	3.118	
20,500.0	11,882.0	19,687.4	11,736.0	75.1	68.9	-74.24	-8,454.7	2,045.3	440.5	297.9	142.67	3.088	

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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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 2032 PROJECT - ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11379-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		
20,600.0	11,882.0	19,787.4	11,736.0	75.8	69.6	-74.24	-8,554.7	2,046.0	440.5	296.5	144.04	3.058		
20,700.0	11,882.0	19,887.4	11,736.0	76.5	70.3	-74.24	-8,654.7	2,046.6	440.5	295.1	145.41	3.029		
20,800.0	11,882.0	19,987.4	11,736.0	77.1	71.0	-74.24	-8,754.7	2,047.3	440.5	293.7	146.79	3.001		
20,900.0	11,882.0	20,087.4	11,736.0	77.8	71.7	-74.24	-8,854.7	2,047.9	440.5	292.4	148.17	2.973		
21,000.0	11,882.0	20,187.4	11,736.0	78.5	72.5	-74.24	-8,954.7	2,048.6	440.5	291.0	149.56	2.946		
21,100.0	11,882.0	20,287.4	11,736.0	79.2	73.2	-74.24	-9,054.7	2,049.2	440.5	289.6	150.94	2.919		
21,200.0	11,882.0	20,387.4	11,736.0	79.9	73.9	-74.24	-9,154.7	2,049.9	440.5	288.2	152.33	2.892		
21,300.0	11,882.0	20,487.4	11,736.0	80.5	74.6	-74.24	-9,254.7	2,050.5	440.5	286.8	153.72	2.866		
21,400.0	11,882.0	20,587.4	11,736.0	81.2	75.4	-74.24	-9,354.7	2,051.2	440.5	285.4	155.12	2.840		
21,500.0	11,882.0	20,687.4	11,736.0	81.9	76.1	-74.24	-9,454.7	2,051.8	440.5	284.0	156.51	2.815		
21,600.0	11,882.0	20,787.4	11,736.0	82.6	76.8	-74.24	-9,554.7	2,052.5	440.5	282.6	157.91	2.790		
21,700.0	11,882.0	20,887.4	11,736.0	83.3	77.5	-74.24	-9,654.7	2,053.1	440.5	281.2	159.31	2.765		
21,788.4	11,882.0	20,975.9	11,736.0	83.9	78.2	-74.24	-9,743.1	2,053.7	440.5	280.0	160.54	2.744		
21,800.0	11,882.0	20,987.4	11,736.0	84.0	78.3	-74.24	-9,754.7	2,053.8	440.5	279.8	160.71	2.741		
21,838.4	11,882.0	21,025.9	11,736.0	84.2	78.5	-74.24	-9,793.1	2,054.0	440.5	279.3	161.24	2.732 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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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 @ 3199.3usft

Offset Depths are relative to Offset Datum

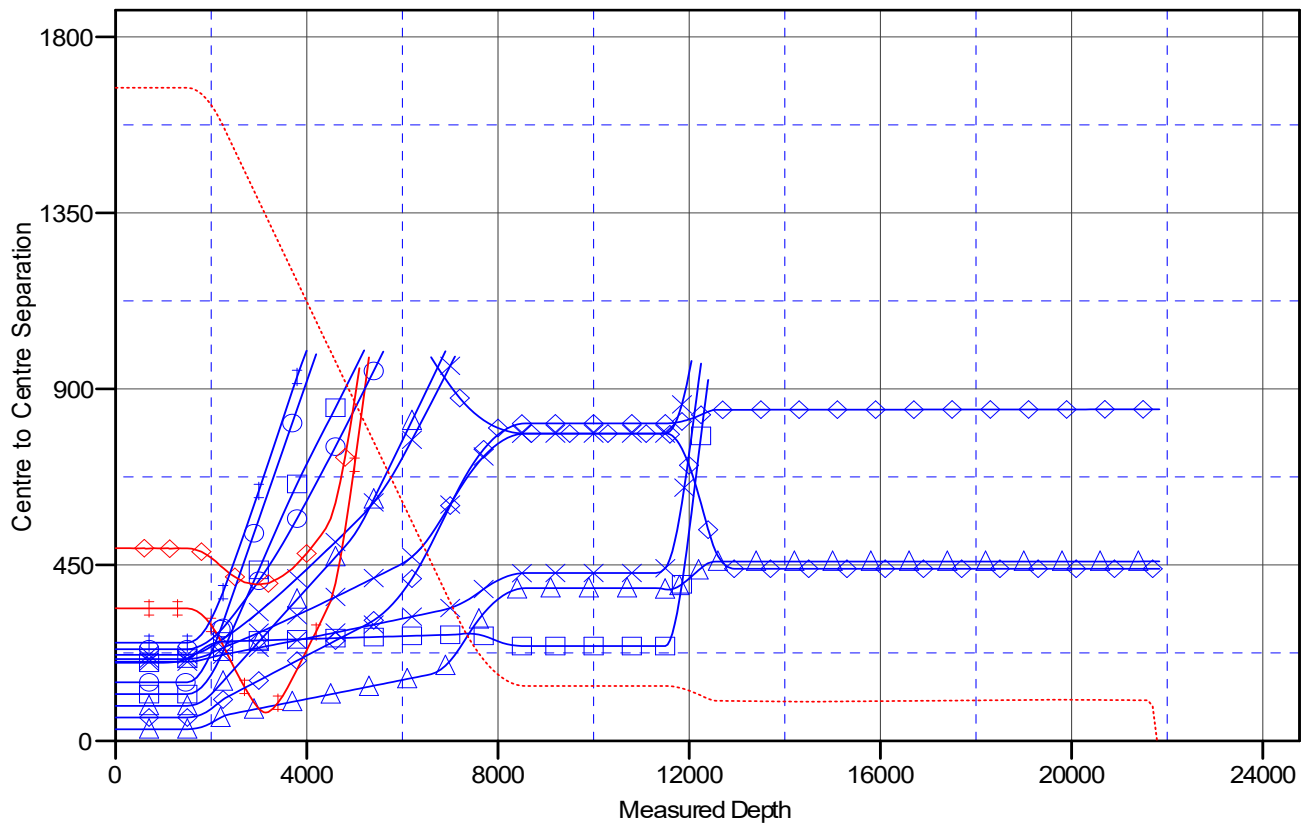
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #764H

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 2032 WC #751H OWB, PWP0 V0	◆ ZIA HILLS UNIT 1932 WC #762H OWB, PWP1 V0	✕ ZIA HILLS UNIT 1932 WC #712H OWB, PWP1 V0
✕ ZIA HILLS UNIT 1932 WC #711H OWB, PWP1 V0	✕ ZIA HILLS UNIT 1932 WC #713H OWB, PWP1 V0	▲ ZIA HILLS UNIT 1932 WC #761H OWB, PWP1 V0
▲ ZIA HILLS UNIT 1932 WC #763H OWB, PWP1 V0	▲ ZIA HILLS UNIT 1932 WC #710H OWB, PWP1 V0	▲ ZIA HILLS UNIT 1932 WC #709H OWB, PWP1 V0
● CONOCO FEDERAL #2, OWB, AWP V0	● ZIA HILLS UNIT 1932 WC #759H OWB, PWP1 V0	■ ZIA HILLS UNIT 1932 WC #714H OWB, PWP1 V0
■ ZIA HILLS UNIT 1932 WC #760H OWB, PWP1 V0	● RUSSELL 19 FEDERAL #2 (P&A), OWB, AWP 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 #764H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3199.3usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3199.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #764H	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 @ 3199.3usft

Offset Depths are relative to Offset Datum

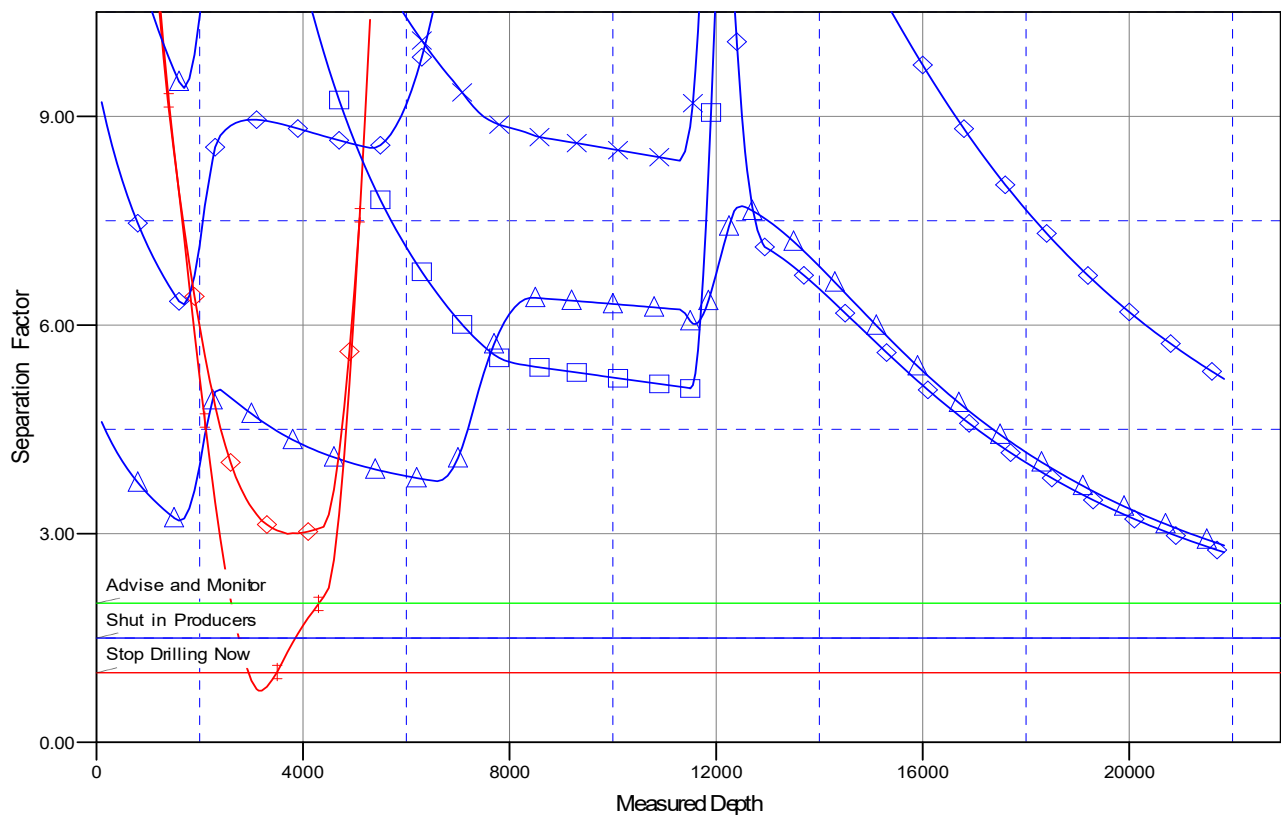
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #764H

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 #751H OWB, PWP0 V0	◆ ZIA HILLS UNIT 1932 WC #762H OWB, PWP1 V0	✕ ZIA HILLS UNIT 1932 WC #712H OWB, PWP1 V0
✕ ZIA HILLS UNIT 1932 WC #711H OWB, PWP1 V0	✕ ZIA HILLS UNIT 1932 WC #713H OWB, PWP1 V0	▲ ZIA HILLS UNIT 1932 WC #761H OWB, PWP1 V0
▲ ZIA HILLS UNIT 1932 WC #763H OWB, PWP1 V0	● ZIA HILLS UNIT 1932 WC #710H OWB, PWP1 V0	▲ ZIA HILLS UNIT 1932 WC #709H OWB, PWP1 V0
● CONOCO FEDERAL #2, OWB, AWP V0	▲ ZIA HILLS UNIT 1932 WC #759H OWB, PWP1 V0	■ ZIA HILLS UNIT 1932 WC #714H OWB, PWP1 V0
■ ZIA HILLS UNIT 1932 WC #760H OWB, PWP1 V0	● RUSSELL 19 FEDERAL #2 (P&A), OWB, AWP 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 #764H

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 #764H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3199.3usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3199.3usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #764H	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	Latitude: 32° 1' 37.871 N
From:	Map	Easting:	692,465.85 usft	Longitude: 103° 42' 44.234 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	

Well	ZIA HILLS UNIT 1932 WC #764H			
Well Position	+N/-S	0.0 usft	Northing:	374,168.67 usft
	+E/-W	0.0 usft	Easting:	692,633.63 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
Grid Convergence:		0.33 °	Ground Level:	3,169.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2023	8/1/2024	6.28	59.51	47,172.04970076

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	170.55

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	11,499.3 PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	11,499.3	21,838.4 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 #764H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3199.3usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3199.3usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,250.0	15.00	82.00	2,241.5	13.6	96.7	2.00	2.00	0.00	82.00	
7,081.2	15.00	82.00	6,908.0	187.6	1,334.9	0.00	0.00	0.00	0.00	
8,581.2	0.00	0.00	8,390.9	214.8	1,528.2	1.00	-1.00	0.00	180.00	
11,499.3	0.00	0.00	11,309.0	214.8	1,528.2	0.00	0.00	0.00	0.00	
12,399.3	90.00	176.40	11,882.0	-357.0	1,564.2	10.00	10.00	0.00	176.40	
12,560.7	90.00	179.63	11,882.0	-518.3	1,569.8	2.00	0.00	2.00	90.00	
21,788.4	90.00	179.63	11,882.0	-9,745.9	1,629.7	0.00	0.00	0.00	0.00	
21,838.4	90.00	179.63	11,882.0	-9,795.9	1,630.1	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 #764H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3199.3usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3199.3usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #764H	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	82.00	1,600.0	0.2	1.7	0.0	2.00	2.00	0.00
1,700.0	4.00	82.00	1,699.8	1.0	6.9	0.2	2.00	2.00	0.00
1,800.0	6.00	82.00	1,799.5	2.2	15.5	0.4	2.00	2.00	0.00
1,900.0	8.00	82.00	1,898.7	3.9	27.6	0.7	2.00	2.00	0.00
2,000.0	10.00	82.00	1,997.5	6.1	43.1	1.1	2.00	2.00	0.00
2,100.0	12.00	82.00	2,095.6	8.7	62.0	1.6	2.00	2.00	0.00
2,200.0	14.00	82.00	2,193.1	11.8	84.3	2.1	2.00	2.00	0.00
2,250.0	15.00	82.00	2,241.5	13.6	96.7	2.5	2.00	2.00	0.00
Start 4831.2 hold at 2250.0 MD									
2,300.0	15.00	82.00	2,289.8	15.4	109.5	2.8	0.00	0.00	0.00
2,400.0	15.00	82.00	2,386.4	19.0	135.1	3.4	0.00	0.00	0.00
2,500.0	15.00	82.00	2,482.9	22.6	160.7	4.1	0.00	0.00	0.00
2,600.0	15.00	82.00	2,579.5	26.2	186.4	4.8	0.00	0.00	0.00
2,700.0	15.00	82.00	2,676.1	29.8	212.0	5.4	0.00	0.00	0.00
2,800.0	15.00	82.00	2,772.7	33.4	237.6	6.1	0.00	0.00	0.00
2,900.0	15.00	82.00	2,869.3	37.0	263.3	6.7	0.00	0.00	0.00
3,000.0	15.00	82.00	2,965.9	40.6	288.9	7.4	0.00	0.00	0.00
3,100.0	15.00	82.00	3,062.5	44.2	314.5	8.0	0.00	0.00	0.00
3,200.0	15.00	82.00	3,159.1	47.8	340.2	8.7	0.00	0.00	0.00
3,300.0	15.00	82.00	3,255.7	51.4	365.8	9.3	0.00	0.00	0.00
3,400.0	15.00	82.00	3,352.3	55.0	391.4	10.0	0.00	0.00	0.00
3,500.0	15.00	82.00	3,448.9	58.6	417.0	10.6	0.00	0.00	0.00
3,600.0	15.00	82.00	3,545.5	62.2	442.7	11.3	0.00	0.00	0.00
3,700.0	15.00	82.00	3,642.1	65.8	468.3	11.9	0.00	0.00	0.00
3,800.0	15.00	82.00	3,738.6	69.4	493.9	12.6	0.00	0.00	0.00
3,900.0	15.00	82.00	3,835.2	73.0	519.6	13.3	0.00	0.00	0.00
4,000.0	15.00	82.00	3,931.8	76.6	545.2	13.9	0.00	0.00	0.00
4,100.0	15.00	82.00	4,028.4	80.2	570.8	14.6	0.00	0.00	0.00
4,200.0	15.00	82.00	4,125.0	83.8	596.5	15.2	0.00	0.00	0.00
4,300.0	15.00	82.00	4,221.6	87.4	622.1	15.9	0.00	0.00	0.00
4,400.0	15.00	82.00	4,318.2	91.0	647.7	16.5	0.00	0.00	0.00
4,500.0	15.00	82.00	4,414.8	94.6	673.3	17.2	0.00	0.00	0.00
4,600.0	15.00	82.00	4,511.4	98.2	699.0	17.8	0.00	0.00	0.00
4,700.0	15.00	82.00	4,608.0	101.8	724.6	18.5	0.00	0.00	0.00
4,800.0	15.00	82.00	4,704.6	105.4	750.2	19.1	0.00	0.00	0.00
4,900.0	15.00	82.00	4,801.2	109.0	775.9	19.8	0.00	0.00	0.00
5,000.0	15.00	82.00	4,897.8	112.6	801.5	20.4	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 #764H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3199.3usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3199.3usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #764H	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)	
5,100.0	15.00	82.00	4,994.4	116.2	827.1	21.1	0.00	0.00	0.00	
5,200.0	15.00	82.00	5,090.9	119.8	852.8	21.8	0.00	0.00	0.00	
5,300.0	15.00	82.00	5,187.5	123.4	878.4	22.4	0.00	0.00	0.00	
5,400.0	15.00	82.00	5,284.1	127.1	904.0	23.1	0.00	0.00	0.00	
5,500.0	15.00	82.00	5,380.7	130.7	929.6	23.7	0.00	0.00	0.00	
5,600.0	15.00	82.00	5,477.3	134.3	955.3	24.4	0.00	0.00	0.00	
5,700.0	15.00	82.00	5,573.9	137.9	980.9	25.0	0.00	0.00	0.00	
5,800.0	15.00	82.00	5,670.5	141.5	1,006.5	25.7	0.00	0.00	0.00	
5,900.0	15.00	82.00	5,767.1	145.1	1,032.2	26.3	0.00	0.00	0.00	
6,000.0	15.00	82.00	5,863.7	148.7	1,057.8	27.0	0.00	0.00	0.00	
6,100.0	15.00	82.00	5,960.3	152.3	1,083.4	27.6	0.00	0.00	0.00	
6,200.0	15.00	82.00	6,056.9	155.9	1,109.1	28.3	0.00	0.00	0.00	
6,300.0	15.00	82.00	6,153.5	159.5	1,134.7	28.9	0.00	0.00	0.00	
6,400.0	15.00	82.00	6,250.1	163.1	1,160.3	29.6	0.00	0.00	0.00	
6,500.0	15.00	82.00	6,346.6	166.7	1,185.9	30.2	0.00	0.00	0.00	
6,600.0	15.00	82.00	6,443.2	170.3	1,211.6	30.9	0.00	0.00	0.00	
6,700.0	15.00	82.00	6,539.8	173.9	1,237.2	31.6	0.00	0.00	0.00	
6,800.0	15.00	82.00	6,636.4	177.5	1,262.8	32.2	0.00	0.00	0.00	
6,900.0	15.00	82.00	6,733.0	181.1	1,288.5	32.9	0.00	0.00	0.00	
7,000.0	15.00	82.00	6,829.6	184.7	1,314.1	33.5	0.00	0.00	0.00	
7,081.2	15.00	82.00	6,908.0	187.6	1,334.9	34.0	0.00	0.00	0.00	
Start Drop -1.00										
7,100.0	14.81	82.00	6,926.2	188.3	1,339.7	34.2	1.00	-1.00	0.00	
7,200.0	13.81	82.00	7,023.1	191.7	1,364.2	34.8	1.00	-1.00	0.00	
7,300.0	12.81	82.00	7,120.4	194.9	1,387.0	35.4	1.00	-1.00	0.00	
7,400.0	11.81	82.00	7,218.1	197.9	1,408.1	35.9	1.00	-1.00	0.00	
7,500.0	10.81	82.00	7,316.2	200.6	1,427.5	36.4	1.00	-1.00	0.00	
7,600.0	9.81	82.00	7,414.6	203.1	1,445.2	36.9	1.00	-1.00	0.00	
7,700.0	8.81	82.00	7,513.2	205.4	1,461.3	37.3	1.00	-1.00	0.00	
7,800.0	7.81	82.00	7,612.2	207.4	1,475.6	37.6	1.00	-1.00	0.00	
7,900.0	6.81	82.00	7,711.4	209.1	1,488.2	38.0	1.00	-1.00	0.00	
8,000.0	5.81	82.00	7,810.8	210.7	1,499.1	38.2	1.00	-1.00	0.00	
8,100.0	4.81	82.00	7,910.3	212.0	1,508.2	38.5	1.00	-1.00	0.00	
8,200.0	3.81	82.00	8,010.0	213.0	1,515.7	38.7	1.00	-1.00	0.00	
8,300.0	2.81	82.00	8,109.9	213.8	1,521.4	38.8	1.00	-1.00	0.00	
8,400.0	1.81	82.00	8,209.8	214.4	1,525.4	38.9	1.00	-1.00	0.00	
8,500.0	0.81	82.00	8,309.8	214.7	1,527.7	39.0	1.00	-1.00	0.00	
8,581.2	0.00	0.00	8,390.9	214.8	1,528.2	39.0	1.00	-1.00	0.00	
Start 2918.1 hold at 8581.2 MD										
8,600.0	0.00	0.00	8,409.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,509.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,609.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,709.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,809.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,909.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,009.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,109.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,209.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,309.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,409.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,509.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,609.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,709.8	214.8	1,528.2	39.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,809.8	214.8	1,528.2	39.0	0.00	0.00	0.00	

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3199.3usft
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Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #764H	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	9,909.8	214.8	1,528.2	39.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,009.8	214.8	1,528.2	39.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,109.8	214.8	1,528.2	39.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,209.8	214.8	1,528.2	39.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,309.8	214.8	1,528.2	39.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,409.8	214.8	1,528.2	39.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,509.8	214.8	1,528.2	39.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,609.8	214.8	1,528.2	39.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,709.8	214.8	1,528.2	39.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,809.8	214.8	1,528.2	39.0	0.00	0.00	0.00
11,100.0	0.00	0.00	10,909.8	214.8	1,528.2	39.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,009.8	214.8	1,528.2	39.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,109.8	214.8	1,528.2	39.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,209.8	214.8	1,528.2	39.0	0.00	0.00	0.00
11,499.3	0.00	0.00	11,309.0	214.8	1,528.2	39.0	0.00	0.00	0.00
Start Build 10.00									
11,550.0	5.07	176.40	11,359.7	212.5	1,528.4	41.2	10.00	10.00	0.00
11,600.0	10.07	176.40	11,409.2	206.0	1,528.8	47.8	10.00	10.00	0.00
11,650.0	15.07	176.40	11,458.0	195.1	1,529.5	58.6	10.00	10.00	0.00
11,700.0	20.07	176.40	11,505.7	180.0	1,530.4	73.6	10.00	10.00	0.00
11,750.0	25.07	176.40	11,551.8	160.9	1,531.6	92.7	10.00	10.00	0.00
11,800.0	30.07	176.40	11,596.1	137.8	1,533.1	115.7	10.00	10.00	0.00
11,850.0	35.07	176.40	11,638.3	110.9	1,534.8	142.5	10.00	10.00	0.00
11,900.0	40.07	176.40	11,677.9	80.5	1,536.7	172.8	10.00	10.00	0.00
11,950.0	45.07	176.40	11,714.7	46.8	1,538.8	206.4	10.00	10.00	0.00
12,000.0	50.07	176.40	11,748.4	10.0	1,541.1	243.1	10.00	10.00	0.00
12,050.0	55.07	176.40	11,778.8	-29.7	1,543.6	282.6	10.00	10.00	0.00
12,100.0	60.07	176.40	11,805.6	-71.8	1,546.2	324.6	10.00	10.00	0.00
12,150.0	65.07	176.40	11,828.6	-116.0	1,549.0	368.7	10.00	10.00	0.00
12,200.0	70.07	176.40	11,847.7	-162.2	1,551.9	414.7	10.00	10.00	0.00
12,250.0	75.07	176.40	11,862.7	-209.7	1,554.9	462.1	10.00	10.00	0.00
12,300.0	80.07	176.40	11,873.4	-258.5	1,558.0	510.7	10.00	10.00	0.00
12,350.0	85.07	176.40	11,879.9	-307.9	1,561.1	560.0	10.00	10.00	0.00
12,399.3	90.00	176.40	11,882.0	-357.0	1,564.2	609.0	10.00	10.00	0.00
Start DLS 2.00 TFO 90.00									
12,500.0	90.00	178.41	11,882.0	-457.7	1,568.8	709.0	2.00	0.00	2.00
12,560.7	90.00	179.63	11,882.0	-518.3	1,569.8	769.0	2.00	0.00	2.00
Start 9227.8 hold at 12560.7 MD									
12,600.0	90.00	179.63	11,882.0	-557.7	1,570.0	807.8	0.00	0.00	0.00
12,700.0	90.00	179.63	11,882.0	-657.7	1,570.7	906.5	0.00	0.00	0.00
12,800.0	90.00	179.63	11,882.0	-757.7	1,571.3	1,005.3	0.00	0.00	0.00
12,900.0	90.00	179.63	11,882.0	-857.7	1,572.0	1,104.0	0.00	0.00	0.00
13,000.0	90.00	179.63	11,882.0	-957.6	1,572.6	1,202.8	0.00	0.00	0.00
13,100.0	90.00	179.63	11,882.0	-1,057.6	1,573.3	1,301.5	0.00	0.00	0.00
13,200.0	90.00	179.63	11,882.0	-1,157.6	1,573.9	1,400.3	0.00	0.00	0.00
13,300.0	90.00	179.63	11,882.0	-1,257.6	1,574.6	1,499.0	0.00	0.00	0.00
13,400.0	90.00	179.63	11,882.0	-1,357.6	1,575.2	1,597.8	0.00	0.00	0.00
13,500.0	90.00	179.63	11,882.0	-1,457.6	1,575.9	1,696.5	0.00	0.00	0.00
13,600.0	90.00	179.63	11,882.0	-1,557.6	1,576.5	1,795.3	0.00	0.00	0.00
13,700.0	90.00	179.63	11,882.0	-1,657.6	1,577.2	1,894.0	0.00	0.00	0.00
13,800.0	90.00	179.63	11,882.0	-1,757.6	1,577.8	1,992.8	0.00	0.00	0.00
13,900.0	90.00	179.63	11,882.0	-1,857.6	1,578.5	2,091.5	0.00	0.00	0.00
14,000.0	90.00	179.63	11,882.0	-1,957.6	1,579.1	2,190.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3199.3usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3199.3usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #764H	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	179.63	11,882.0	-2,057.6	1,579.8	2,289.0	0.00	0.00	0.00
14,200.0	90.00	179.63	11,882.0	-2,157.6	1,580.4	2,387.8	0.00	0.00	0.00
14,300.0	90.00	179.63	11,882.0	-2,257.6	1,581.1	2,486.5	0.00	0.00	0.00
14,400.0	90.00	179.63	11,882.0	-2,357.6	1,581.7	2,585.3	0.00	0.00	0.00
14,500.0	90.00	179.63	11,882.0	-2,457.6	1,582.4	2,684.0	0.00	0.00	0.00
14,600.0	90.00	179.63	11,882.0	-2,557.6	1,583.0	2,782.8	0.00	0.00	0.00
14,700.0	90.00	179.63	11,882.0	-2,657.6	1,583.7	2,881.5	0.00	0.00	0.00
14,800.0	90.00	179.63	11,882.0	-2,757.6	1,584.3	2,980.3	0.00	0.00	0.00
14,900.0	90.00	179.63	11,882.0	-2,857.6	1,585.0	3,079.0	0.00	0.00	0.00
15,000.0	90.00	179.63	11,882.0	-2,957.6	1,585.6	3,177.8	0.00	0.00	0.00
15,100.0	90.00	179.63	11,882.0	-3,057.6	1,586.3	3,276.5	0.00	0.00	0.00
15,200.0	90.00	179.63	11,882.0	-3,157.6	1,586.9	3,375.3	0.00	0.00	0.00
15,300.0	90.00	179.63	11,882.0	-3,257.6	1,587.6	3,474.0	0.00	0.00	0.00
15,400.0	90.00	179.63	11,882.0	-3,357.6	1,588.2	3,572.8	0.00	0.00	0.00
15,500.0	90.00	179.63	11,882.0	-3,457.6	1,588.9	3,671.5	0.00	0.00	0.00
15,600.0	90.00	179.63	11,882.0	-3,557.6	1,589.5	3,770.2	0.00	0.00	0.00
15,700.0	90.00	179.63	11,882.0	-3,657.6	1,590.2	3,869.0	0.00	0.00	0.00
15,800.0	90.00	179.63	11,882.0	-3,757.6	1,590.8	3,967.7	0.00	0.00	0.00
15,900.0	90.00	179.63	11,882.0	-3,857.6	1,591.5	4,066.5	0.00	0.00	0.00
16,000.0	90.00	179.63	11,882.0	-3,957.6	1,592.1	4,165.2	0.00	0.00	0.00
16,100.0	90.00	179.63	11,882.0	-4,057.6	1,592.8	4,264.0	0.00	0.00	0.00
16,200.0	90.00	179.63	11,882.0	-4,157.6	1,593.4	4,362.7	0.00	0.00	0.00
16,300.0	90.00	179.63	11,882.0	-4,257.6	1,594.1	4,461.5	0.00	0.00	0.00
16,400.0	90.00	179.63	11,882.0	-4,357.6	1,594.7	4,560.2	0.00	0.00	0.00
16,500.0	90.00	179.63	11,882.0	-4,457.6	1,595.4	4,659.0	0.00	0.00	0.00
16,600.0	90.00	179.63	11,882.0	-4,557.6	1,596.0	4,757.7	0.00	0.00	0.00
16,700.0	90.00	179.63	11,882.0	-4,657.6	1,596.7	4,856.5	0.00	0.00	0.00
16,800.0	90.00	179.63	11,882.0	-4,757.6	1,597.3	4,955.2	0.00	0.00	0.00
16,900.0	90.00	179.63	11,882.0	-4,857.6	1,598.0	5,054.0	0.00	0.00	0.00
17,000.0	90.00	179.63	11,882.0	-4,957.6	1,598.6	5,152.7	0.00	0.00	0.00
17,100.0	90.00	179.63	11,882.0	-5,057.6	1,599.3	5,251.5	0.00	0.00	0.00
17,200.0	90.00	179.63	11,882.0	-5,157.6	1,599.9	5,350.2	0.00	0.00	0.00
17,300.0	90.00	179.63	11,882.0	-5,257.6	1,600.6	5,449.0	0.00	0.00	0.00
17,400.0	90.00	179.63	11,882.0	-5,357.6	1,601.2	5,547.7	0.00	0.00	0.00
17,500.0	90.00	179.63	11,882.0	-5,457.6	1,601.9	5,646.5	0.00	0.00	0.00
17,600.0	90.00	179.63	11,882.0	-5,557.6	1,602.5	5,745.2	0.00	0.00	0.00
17,700.0	90.00	179.63	11,882.0	-5,657.5	1,603.2	5,844.0	0.00	0.00	0.00
17,800.0	90.00	179.63	11,882.0	-5,757.5	1,603.8	5,942.7	0.00	0.00	0.00
17,900.0	90.00	179.63	11,882.0	-5,857.5	1,604.5	6,041.5	0.00	0.00	0.00
18,000.0	90.00	179.63	11,882.0	-5,957.5	1,605.1	6,140.2	0.00	0.00	0.00
18,100.0	90.00	179.63	11,882.0	-6,057.5	1,605.8	6,239.0	0.00	0.00	0.00
18,200.0	90.00	179.63	11,882.0	-6,157.5	1,606.4	6,337.7	0.00	0.00	0.00
18,300.0	90.00	179.63	11,882.0	-6,257.5	1,607.1	6,436.5	0.00	0.00	0.00
18,400.0	90.00	179.63	11,882.0	-6,357.5	1,607.7	6,535.2	0.00	0.00	0.00
18,500.0	90.00	179.63	11,882.0	-6,457.5	1,608.4	6,633.9	0.00	0.00	0.00
18,600.0	90.00	179.63	11,882.0	-6,557.5	1,609.0	6,732.7	0.00	0.00	0.00
18,700.0	90.00	179.63	11,882.0	-6,657.5	1,609.7	6,831.4	0.00	0.00	0.00
18,800.0	90.00	179.63	11,882.0	-6,757.5	1,610.3	6,930.2	0.00	0.00	0.00
18,900.0	90.00	179.63	11,882.0	-6,857.5	1,611.0	7,028.9	0.00	0.00	0.00
19,000.0	90.00	179.63	11,882.0	-6,957.5	1,611.6	7,127.7	0.00	0.00	0.00
19,100.0	90.00	179.63	11,882.0	-7,057.5	1,612.3	7,226.4	0.00	0.00	0.00
19,200.0	90.00	179.63	11,882.0	-7,157.5	1,612.9	7,325.2	0.00	0.00	0.00
19,300.0	90.00	179.63	11,882.0	-7,257.5	1,613.6	7,423.9	0.00	0.00	0.00
19,400.0	90.00	179.63	11,882.0	-7,357.5	1,614.2	7,522.7	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 #764H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3199.3usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3199.3usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #764H	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	179.63	11,882.0	-7,457.5	1,614.9	7,621.4	0.00	0.00	0.00
19,600.0	90.00	179.63	11,882.0	-7,557.5	1,615.5	7,720.2	0.00	0.00	0.00
19,700.0	90.00	179.63	11,882.0	-7,657.5	1,616.2	7,818.9	0.00	0.00	0.00
19,800.0	90.00	179.63	11,882.0	-7,757.5	1,616.8	7,917.7	0.00	0.00	0.00
19,900.0	90.00	179.63	11,882.0	-7,857.5	1,617.5	8,016.4	0.00	0.00	0.00
20,000.0	90.00	179.63	11,882.0	-7,957.5	1,618.1	8,115.2	0.00	0.00	0.00
20,100.0	90.00	179.63	11,882.0	-8,057.5	1,618.8	8,213.9	0.00	0.00	0.00
20,200.0	90.00	179.63	11,882.0	-8,157.5	1,619.4	8,312.7	0.00	0.00	0.00
20,300.0	90.00	179.63	11,882.0	-8,257.5	1,620.1	8,411.4	0.00	0.00	0.00
20,400.0	90.00	179.63	11,882.0	-8,357.5	1,620.7	8,510.2	0.00	0.00	0.00
20,500.0	90.00	179.63	11,882.0	-8,457.5	1,621.4	8,608.9	0.00	0.00	0.00
20,600.0	90.00	179.63	11,882.0	-8,557.5	1,622.0	8,707.7	0.00	0.00	0.00
20,700.0	90.00	179.63	11,882.0	-8,657.5	1,622.7	8,806.4	0.00	0.00	0.00
20,800.0	90.00	179.63	11,882.0	-8,757.5	1,623.3	8,905.2	0.00	0.00	0.00
20,900.0	90.00	179.63	11,882.0	-8,857.5	1,624.0	9,003.9	0.00	0.00	0.00
21,000.0	90.00	179.63	11,882.0	-8,957.5	1,624.6	9,102.7	0.00	0.00	0.00
21,100.0	90.00	179.63	11,882.0	-9,057.5	1,625.3	9,201.4	0.00	0.00	0.00
21,200.0	90.00	179.63	11,882.0	-9,157.5	1,625.9	9,300.1	0.00	0.00	0.00
21,300.0	90.00	179.63	11,882.0	-9,257.5	1,626.6	9,398.9	0.00	0.00	0.00
21,400.0	90.00	179.63	11,882.0	-9,357.5	1,627.2	9,497.6	0.00	0.00	0.00
21,500.0	90.00	179.63	11,882.0	-9,457.5	1,627.9	9,596.4	0.00	0.00	0.00
21,600.0	90.00	179.63	11,882.0	-9,557.5	1,628.5	9,695.1	0.00	0.00	0.00
21,700.0	90.00	179.63	11,882.0	-9,657.5	1,629.2	9,793.9	0.00	0.00	0.00
21,788.4	90.00	179.63	11,882.0	-9,745.9	1,629.7	9,881.2	0.00	0.00	0.00
Start 50.0 hold at 21788.4 MD									
21,800.0	90.00	179.63	11,882.0	-9,757.5	1,629.8	9,892.6	0.00	0.00	0.00
21,838.4	90.00	179.63	11,882.0	-9,795.9	1,630.1	9,930.6	0.00	0.00	0.00
TD at 21838.4									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (ZHU 1932 WC #764H) - hit/miss target - Shape - Rectangle (sides W100.0 H10,072.1 D20.0)	0.00	179.63	11,882.0	-9,795.9	1,630.0	364,372.78	694,263.64	32° 0' 0.816 N	103° 42' 24.011 W
FTP (ZHU 1932 WC #764H) - plan misses target center by 282.9usft at 11919.4usft MD (11692.6 TVD, 67.8 N, 1537.5 E) - Circle (radius 50.0)	0.00	0.00	11,882.0	276.1	1,564.6	374,444.78	694,198.19	32° 1' 40.493 N	103° 42' 24.093 W
LTP (ZHU 1932 WC #764H) - plan hits target center - Point	0.00	0.00	11,882.0	-9,745.9	1,629.7	364,422.78	694,263.36	32° 0' 1.311 N	103° 42' 24.011 W

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #764H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3199.3usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3199.3usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #764H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

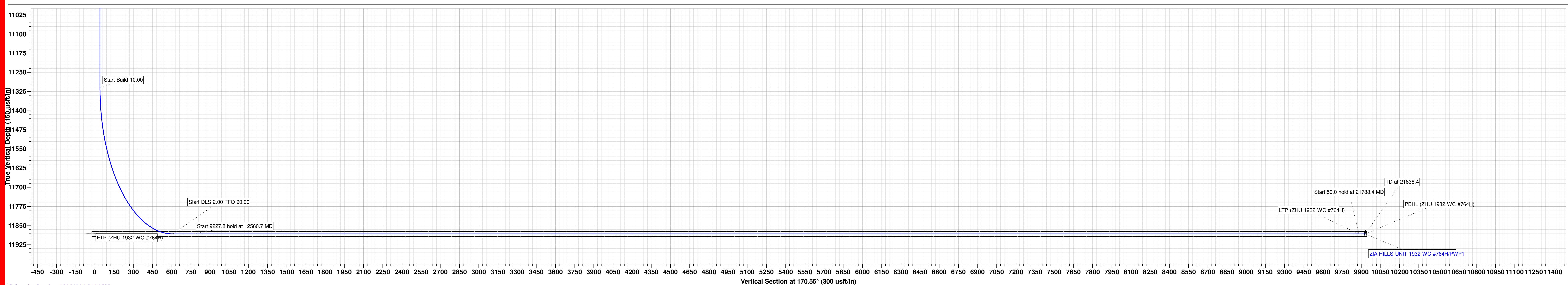
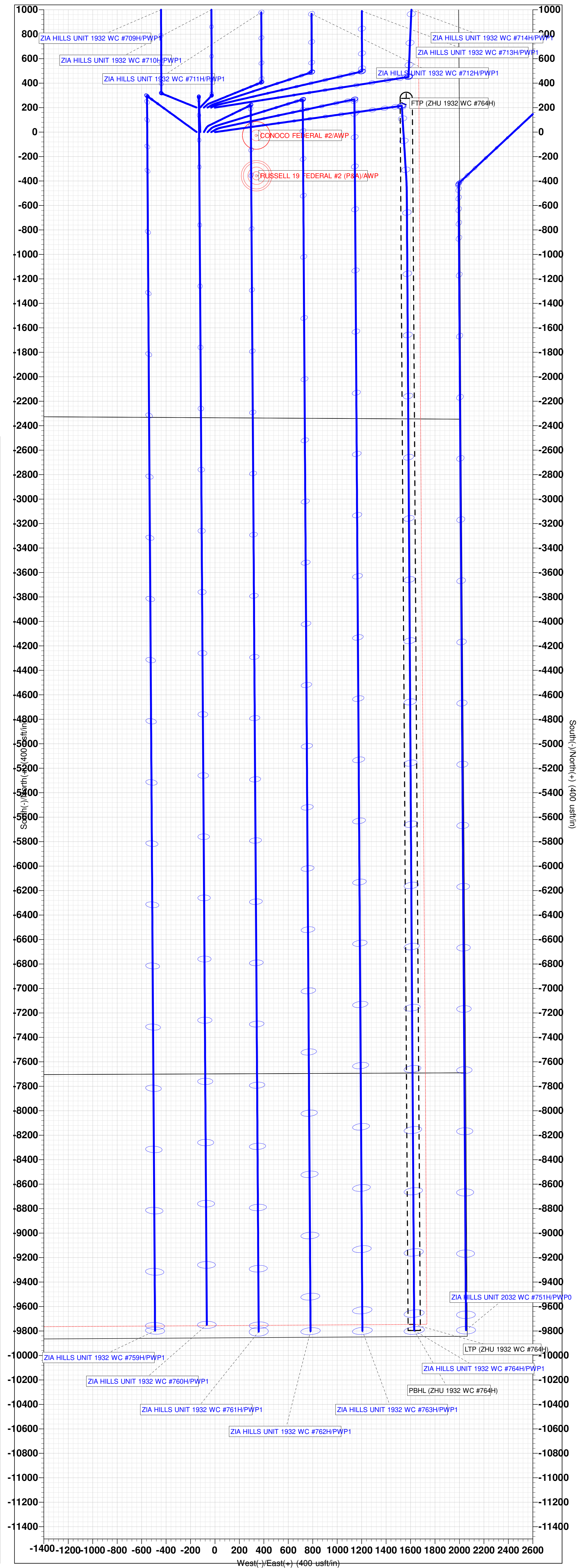
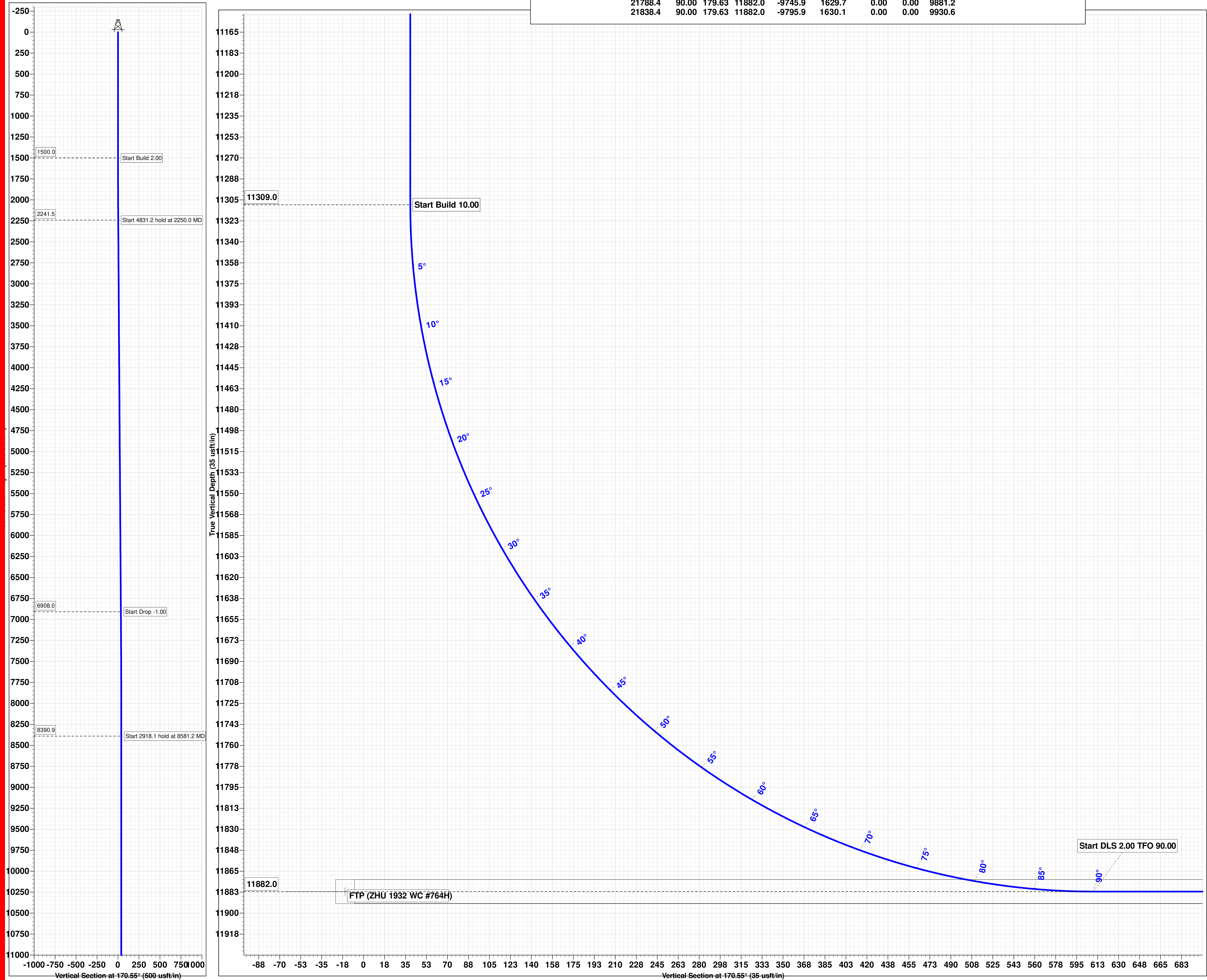
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,250.0	2,241.5	13.6	96.7	Start 4831.2 hold at 2250.0 MD
7,081.2	6,908.0	187.6	1,334.9	Start Drop -1.00
8,581.2	8,390.9	214.8	1,528.2	Start 2918.1 hold at 8581.2 MD
11,499.3	11,309.0	214.8	1,528.2	Start Build 10.00
12,399.3	11,882.0	-357.0	1,564.2	Start DLS 2.00 TFO 90.00
12,560.7	11,882.0	-518.3	1,569.8	Start 9227.8 hold at 12560.7 MD
21,788.4	11,882.0	-9,745.9	1,629.7	Start 50.0 hold at 21788.4 MD
21,838.4	11,882.0	-9,795.9	1,630.1	TD at 21838.4

Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS UNIT 1932 PROJECT
Well: ZIA HILLS UNIT 1932 WC #764H
Wellbore: OWB
Design: PWP1
GL: 3169.3
RKB=30ft @ 3199.3usft

WELL DETAILS: ZIA HILLS UNIT 1932 WC #764H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374168.67	692633.63	32° 1' 37.850 N	103° 42' 42.285 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (ZHU 1932 WC #764H)	11882.0	276.1	1564.6	374444.78	694198.19
LTP (ZHU 1932 WC #764H)	11882.0	-9745.9	1629.7	364422.78	694263.36
PBHL (ZHU 1932 WC #764H)	11882.0	-9795.9	1630.0	364372.78	694263.64

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
2250.0	15.00	82.00	2241.5	13.6	96.7	2.00	82.00	2.5
7081.2	15.00	82.00	6908.0	187.6	1334.9	0.00	0.00	34.0
8581.2	0.00	0.00	8390.9	214.8	1528.2	1.00	180.00	39.0
11499.3	0.00	0.00	11309.0	214.8	1528.2	0.00	0.00	39.0
12399.3	90.00	176.40	11882.0	-357.0	1564.2	10.00	176.40	609.0
12560.7	90.00	179.63	11882.0	-518.3	1569.8	2.00	90.00	769.0
21788.4	90.00	179.63	11882.0	-9745.9	1629.7	0.00	0.00	9881.2
21838.4	90.00	179.63	11882.0	-9795.9	1630.1	0.00	0.00	9930.6



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1350** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)**Unit Wells**

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

Commercial Well Determination

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.

- BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

- c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.

- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 10/30/2023

COG OPERATING LLC
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

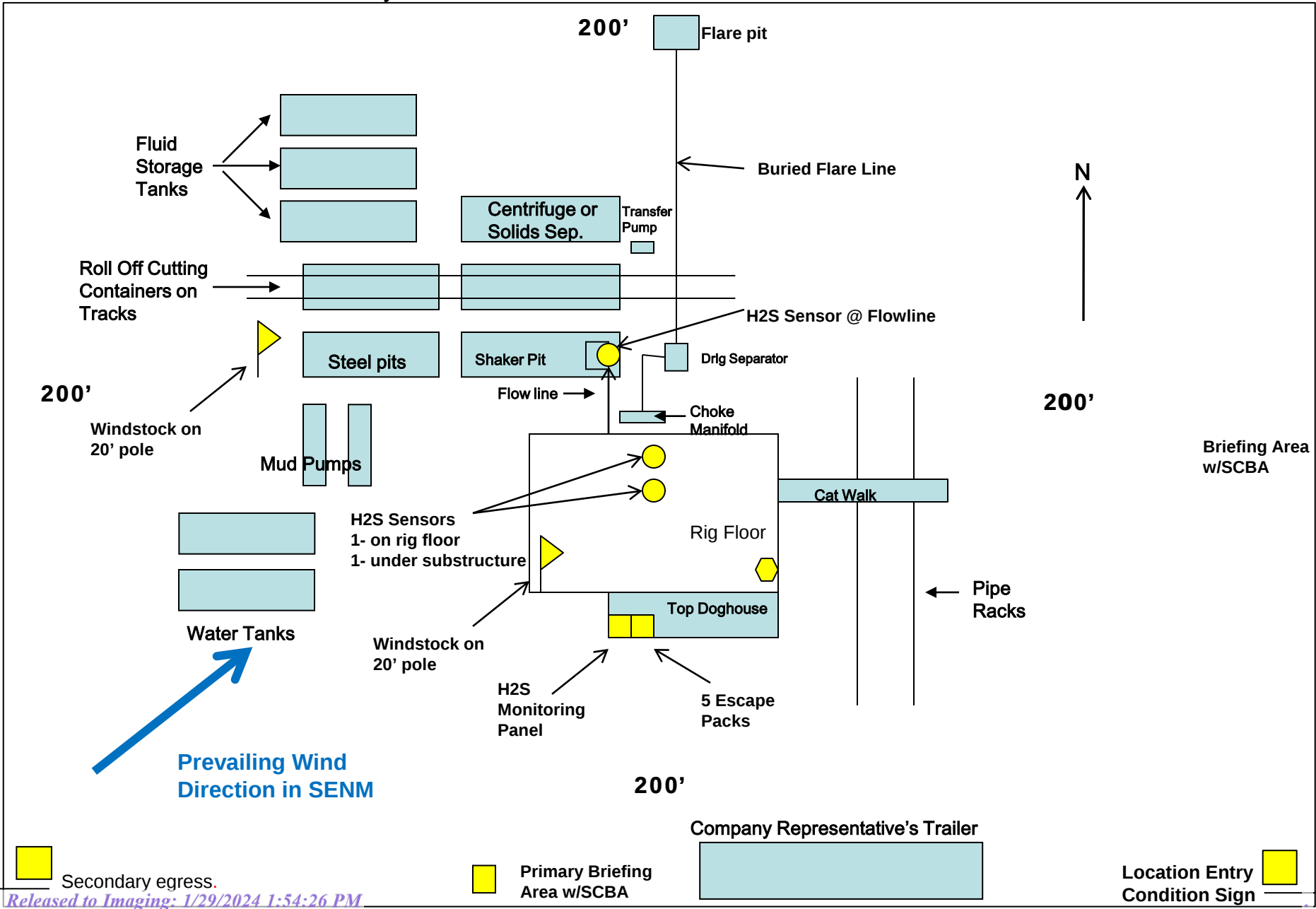
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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

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

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



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 306351

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 306351
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/29/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	1/29/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	1/29/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	1/29/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	1/29/2024