

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-52541
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 02/16/2024

Additional Operator Remarks

Location of Well

0. SHL: NWSW / 2598 FSL / 850 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0279711 / LONG: -103.7030206 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2620 FSL / 1262 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0287034 / LONG: -103.7016909 (TVD: 11781 feet, MD: 11850 feet)

PPP: NWNW / 1 FNL / 838 FWL / TWSP: 26S / RANGE: 32E / SECTION: 29 / LAT: 32.020832 / LONG: -103.701696 (TVD: 11913 feet, MD: 14471 feet)

BHL: LOT 4 / 50 FSL / 1262 FWL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.0003544 / LONG: -103.7016684 (TVD: 11913 feet, MD: 21829 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
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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 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 30-025-52541	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code 334843	5 Property Name ZIA HILLS UNIT 2032 WC	6 Well Number 754H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3175.00'

¹⁰ Surface Location

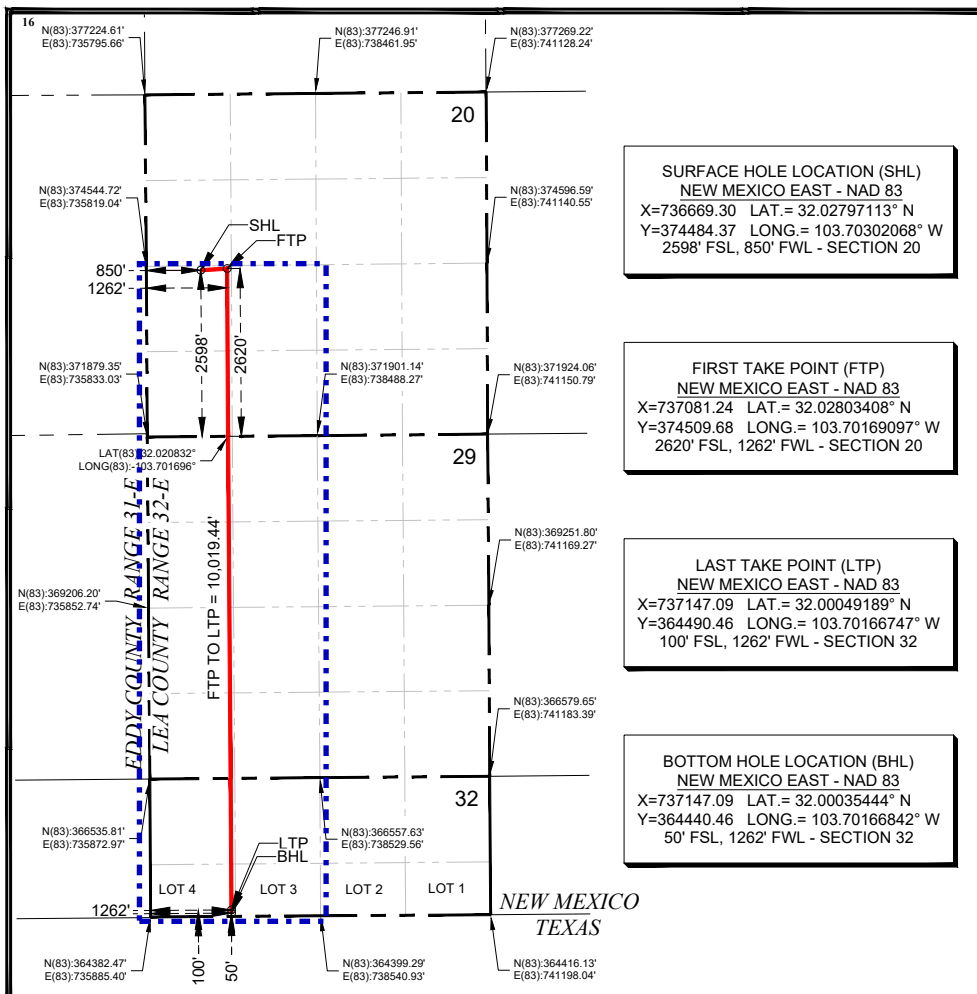
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	26-S	32-E		2598'	SOUTH	850'	WEST	LEA

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
4	32	26-S	32-E		50'	SOUTH	1262'	WEST	LEA

12 Dedicated Acres 609.10	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.



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.

Stan Wagner 2/28/23
Signature Date

Stan Wagner
Printed Name

E-mail Address

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.

Charles L. Jurica 02/24/2023
Date of Survey

Signature and Seal of Professional Surveyor:

Charles L. Jurica
25490
PROFESSIONAL SURVEYOR
Certificate Number

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil 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:** 02/21/2023**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 2032 WC 751H	30-025-	L-20-26S-32E	2649 FSL & 775 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 752H	30-025-	L-20-26S-32E	2632 FSL & 800 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 753H	30-025-	L-20-26S-32E	2615 FSL & 825 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 754H	30-025-	L-20-26S-32E	2598 FSL & 850 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 755H	30-025-	L-20-26S-32E	2581 FSL & 875 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 756H	30-025-	L-20-26S-32E	2564 FSL & 900 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 757H	30-025-	L-20-26S-32E	2547 FSL & 925 FWL	± 2245	± 6736	± 5165

IV. Central Delivery Point Name: Zia Hills Unit 2032 WC Facility SWNW 20-26S-32E [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 2032 WC 751H-757H	Pending	± 4/1/2024	± 25 days from spud	TBD	TBD	TBD

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: 02/21/2023
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

ConocoPhillips Company - Zia Hills Unit 2032 WC 754H

1. Geologic Formations

TVD of target	11,913' EOL	Pilot hole depth	NA
MD at TD:	21,829'	Deepest expected fresh water:	314'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1268	Water	
Top of Salt	1562	Salt	
Base of Salt	4094	Salt	
Lamar	4310	Salt Water	
Bell Canyon	4345	Salt Water	
Cherry Canyon	5232	Oil/Gas	
Brushy Canyon	6718	Oil/Gas	
Bone Spring Shale	8319	Oil/Gas	
1st Bone Spring Sand	9303	Oil/Gas	
2nd Bone Spring Sand	9985	Oil/Gas	
3rd Bone Spring Sand	11133	Oil/Gas	
Wolfcamp	11548	Oil/Gas	
Wolfcamp A	11756	Target	
Wolfcamp B	12060	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	1.11	11.64	12.96
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.45	1.12	2.88	2.90
8.750"	8500	11132	7.625"	29.7	P110-ICY	W513	1.38	1.69	3.23	1.94
6.75"	0	10632	5.5"	23	P110-CY	BTC	2.10	2.48	2.98	2.98
6.75"	10632	21,829	5.5"	23	P110-CY	W441	1.88	2.22	2.66	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 2032 WC 754H

	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 2032 WC 754H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	667	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	942	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	10,632'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2032 WC 754H

4. Pressure Control Equipment

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

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

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

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips Company - Zia Hills Unit 2032 WC 754H

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 - 9.2	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

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

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

ConocoPhillips Company - Zia Hills Unit 2032 WC 754H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7745 psi at 11913' 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

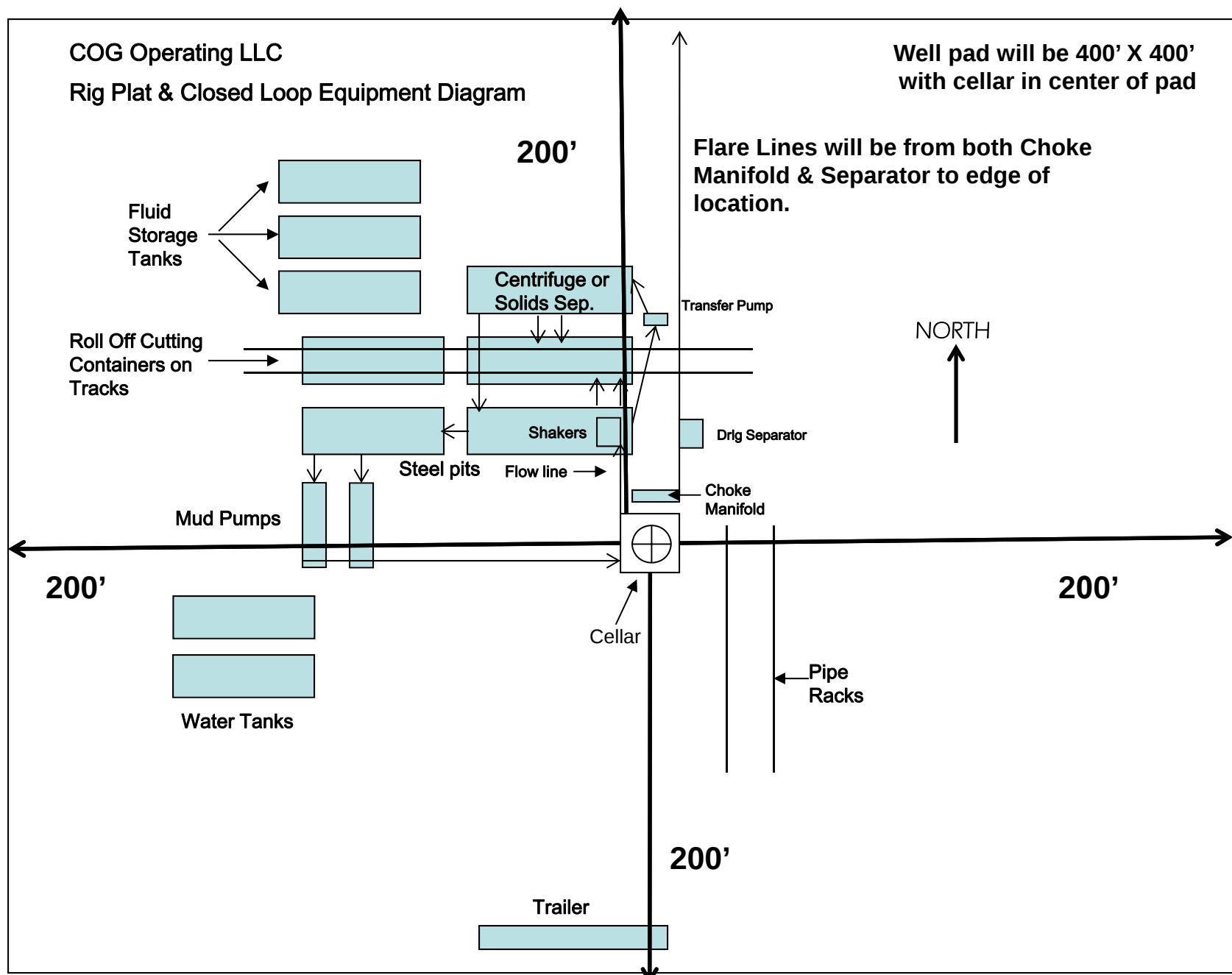


Exhibit 1

"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 2032 PROJECT

ZIA HILLS UNIT 2032 WC #754H

OWB

PWP0

Anticollision Report

25 January, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
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	1/25/2023	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Cont. rev.5
1,500.0	11,462.6	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
11,462.6	21,829.6	PWP0 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ODELL STATE						
ODELL STATE 54-1-6 LOV #2H - OWB - AWP						Out of range
ZIA HILLS 20 FED COM PROJECT						
BUCK 20 FEDERAL #3H (P&A) - OWB - AWP						Out of range
CONOCO A FEDERAL #2 - OWB - AWP						Out of range
CONOCO FEDERAL #1 - OWB - AWP						Out of range
RUSSELL FEDERAL #10 - OWB - AWP						Out of range
RUSSELL FEDERAL #12 - OWB - AWP	1,439.6	1,442.7	523.2	485.4	13.861	CC
RUSSELL FEDERAL #12 - OWB - AWP	1,600.0	1,602.7	525.0	482.5	12.341	ES
RUSSELL FEDERAL #12 - OWB - AWP	4,300.0	4,279.5	885.1	723.8	5.486	SF
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	4,400.0	4,378.0	529.2	358.9	3.106	SF
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	4,435.3	4,378.0	528.0	358.1	3.109	CC, ES
ZIA HILLS UNIT 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	1,896.2	1,893.2	213.8	202.5	18.986	CC
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	1,900.0	1,896.8	213.8	202.5	18.969	ES
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	2,000.0	1,991.7	215.9	204.4	18.694	SF
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	2,004.4	2,003.0	191.3	179.8	16.540	CC, ES
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	2,100.0	2,093.8	193.6	181.8	16.351	SF
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	2,274.2	2,273.9	151.3	139.0	12.308	CC, ES
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	2,400.0	2,396.7	153.9	141.2	12.157	SF
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	11,462.6	11,448.9	152.7	122.6	5.070	CC, ES, SF
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,934.0	1,912.7	201.1	189.4	17.260	CC, ES
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	4,600.0	4,572.1	277.3	247.5	9.291	SF
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	1,944.1	1,919.6	206.9	195.2	17.631	CC, ES
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	4,400.0	4,345.9	422.5	392.2	13.932	SF
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	1,950.1	1,922.4	216.7	204.9	18.377	CC, ES
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	4,400.0	4,324.3	509.7	478.9	16.581	SF
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	1,500.0	1,498.0	90.3	80.2	8.902	CC, ES, SF
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	1,500.0	1,499.0	60.3	50.1	5.939	CC, ES
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	21,829.6	21,409.6	848.0	691.7	5.426	SF
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	1,500.0	1,500.0	30.1	19.9	2.966	CC, ES
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	21,829.6	21,595.5	459.1	301.2	2.909	SF
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	1,500.0	1,500.0	30.3	20.1	2.985	CC

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

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 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	1,900.0	1,896.7	31.1	19.6	2.717	ES, SF
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	1,466.3	1,467.3	60.5	50.4	6.000	CC
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	1,800.0	1,795.9	61.2	50.3	5.571	ES
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	21,829.6	21,894.1	847.7	686.6	5.261	SF
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	1,466.3	1,467.3	90.7	80.6	8.996	CC
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	1,800.0	1,793.4	91.5	80.5	8.324	ES
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	2,000.0	1,988.3	94.1	82.2	7.923	SF

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
Offset Well - Wellbore - Design				Between Ellipses (usft)		
ODELL STATE						
ODELL STATE 54-1-6 LOV #2H - OWB - AWP	21,829.6	11,619.0				Out of Range @TD
ZIA HILLS 20 FED COM PROJECT						
BUCK 20 FEDERAL #3H (P&A) - OWB - AWP	21,829.6	13,729.0				Out of Range @TD
CONOCO A FEDERAL #2 - OWB - AWP	21,829.6	4,317.0				Out of Range @TD
CONOCO FEDERAL #1 - OWB - AWP	21,829.6	4,327.0				Out of Range @TD
RUSSELL FEDERAL #10 - OWB - AWP	21,829.6	4,500.0				Out of Range @TD
RUSSELL FEDERAL #12 - OWB - AWP	21,829.6	4,335.0				Out of Range @TD
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	21,829.6	4,378.0				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	21,829.6	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	21,829.6	11,500.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	21,829.6	11,300.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	21,829.6	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	21,829.6	11,350.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	21,829.6	11,575.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	21,829.6	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	21,829.6	21,026.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	21,829.6	21,409.6	848.0	691.7	5.426	SF
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	21,829.6	21,595.5	459.1	301.2	2.909	SF
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	21,829.6	21,692.8	458.4	297.8	2.854	
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	21,829.6	21,894.1	847.7	686.6	5.261	SF
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	21,829.6	21,747.3				Out of Range @TD

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #12 - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 296-INC-ONLY													Offset Well Error: 3.0 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		Rule Assigned:	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
0.0	0.0	3.1	3.1	3.0	3.0	-96.84	-62.3	-519.6	523.3	516.4	6.89	75.927	
100.0	100.0	103.1	103.1	3.1	3.1	-96.84	-62.3	-519.6	523.3	516.2	7.15	73.210	
200.0	200.0	203.1	203.1	3.2	3.5	-96.84	-62.3	-519.6	523.3	515.7	7.63	68.609	
300.0	300.0	303.1	303.1	3.4	4.1	-96.84	-62.3	-519.6	523.3	515.0	8.33	62.798	
400.0	400.0	403.1	403.1	3.5	5.5	-96.84	-62.3	-519.6	523.3	513.3	9.99	52.398	
441.5	441.5	444.6	444.6	3.5	6.1	-96.82	-62.2	-519.6	523.3	512.5	10.78	48.542	
500.0	500.0	503.0	503.0	3.6	7.0	-96.83	-62.2	-519.6	523.3	511.3	11.97	43.714	
600.0	600.0	603.1	603.1	3.7	8.7	-96.84	-62.3	-519.6	523.3	509.2	14.16	36.971	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	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:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #12 - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 296-INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
700.0	700.0	703.1	703.1	3.9	10.5	-96.84	-62.3	-519.6	523.3	506.7	16.59	31.540	
734.1	734.1	737.2	737.2	3.9	11.2	-96.81	-62.0	-519.6	523.3	505.9	17.44	30.004	
800.0	800.0	803.0	803.0	4.0	12.4	-96.82	-62.1	-519.6	523.3	504.2	19.10	27.398	
900.0	900.0	903.1	903.1	4.1	14.3	-96.84	-62.3	-519.6	523.3	501.6	21.74	24.076	
1,000.0	1,000.0	1,003.1	1,003.1	4.2	16.4	-96.84	-62.3	-519.6	523.3	498.7	24.60	21.277	
1,031.4	1,031.4	1,034.5	1,034.5	4.3	17.1	-96.78	-61.7	-519.6	523.3	497.8	25.50	20.521	
1,100.0	1,100.0	1,102.8	1,102.8	4.3	18.5	-96.80	-61.9	-519.6	523.3	495.8	27.47	19.047	
1,200.0	1,200.0	1,203.2	1,203.1	4.5	20.7	-96.84	-62.3	-519.6	523.3	493.0	30.33	17.254	
1,300.0	1,300.0	1,303.2	1,303.1	4.6	22.9	-96.84	-62.3	-519.6	523.3	489.9	33.42	15.660	
1,400.0	1,400.0	1,403.2	1,403.1	4.7	25.2	-96.84	-62.3	-519.6	523.3	486.8	36.52	14.331	
1,439.6	1,439.6	1,442.7	1,442.6	4.7	26.1	-96.70	-61.0	-519.6	523.2	485.4	37.74	13.861 CC	
1,500.0	1,500.0	1,503.0	1,502.9	4.8	27.4	-96.71	-61.2	-519.6	523.2	483.6	39.62	13.206	
1,600.0	1,600.0	1,602.7	1,602.6	4.9	29.7	-179.78	-61.8	-519.6	525.0	482.5	42.54	12.341 ES	
1,700.0	1,699.8	1,703.1	1,702.9	5.1	32.1	-179.84	-62.3	-519.6	530.3	484.3	45.98	11.534	
1,800.0	1,799.5	1,802.5	1,802.3	5.3	34.8	-179.79	-61.8	-519.6	539.0	489.2	49.73	10.837	
1,900.0	1,898.7	1,902.1	1,901.8	5.6	37.6	-179.85	-62.3	-519.6	551.2	497.6	53.63	10.277	
2,000.0	1,997.7	2,000.3	2,000.0	5.8	40.5	-179.79	-61.8	-519.6	565.1	507.3	57.77	9.782	
2,100.0	2,096.8	2,100.3	2,099.9	6.1	43.6	-179.86	-62.3	-519.6	579.0	517.0	62.04	9.333	
2,200.0	2,195.8	2,199.1	2,198.7	6.4	46.6	-179.74	-61.1	-519.6	592.8	526.5	66.30	8.942	
2,300.0	2,294.8	2,297.4	2,296.9	6.7	49.7	-179.83	-62.0	-519.6	606.8	536.3	70.54	8.603	
2,400.0	2,393.8	2,397.6	2,396.9	7.0	52.8	-179.87	-62.3	-519.6	620.8	545.9	74.93	8.285	
2,500.0	2,492.9	2,496.6	2,496.0	7.3	55.9	-179.87	-62.3	-519.6	634.7	555.4	79.29	8.005	
2,600.0	2,591.9	2,595.4	2,594.7	7.6	59.0	-179.65	-59.8	-519.6	648.3	564.7	83.65	7.751	
2,700.0	2,690.9	2,693.9	2,693.1	8.0	62.1	-179.72	-60.6	-519.6	662.3	574.4	87.99	7.528	
2,800.0	2,789.9	2,794.1	2,793.0	8.3	65.3	-179.88	-62.3	-519.6	676.5	584.1	92.41	7.321	
2,900.0	2,889.0	2,893.1	2,892.1	8.7	68.4	-179.88	-62.3	-519.6	690.4	593.6	96.83	7.130	
3,000.0	2,988.0	2,991.8	2,990.8	9.0	71.5	-179.77	-61.0	-519.6	704.1	602.9	101.23	6.956	
3,100.0	3,087.0	3,090.1	3,089.0	9.4	74.7	-179.85	-61.9	-519.6	718.2	612.5	105.62	6.800	
3,200.0	3,186.1	3,190.4	3,189.2	9.8	78.1	-179.89	-62.3	-519.6	732.1	621.7	110.44	6.629	
3,300.0	3,285.1	3,288.9	3,287.5	10.2	81.6	-179.79	-61.1	-519.6	745.9	630.6	115.32	6.468	
3,400.0	3,384.1	3,388.8	3,387.2	10.6	85.1	-179.89	-62.3	-519.6	760.0	639.7	120.25	6.320	
3,500.0	3,483.1	3,487.8	3,486.2	10.9	88.5	-179.89	-62.3	-519.6	773.9	648.9	125.04	6.189	
3,600.0	3,582.2	3,586.4	3,584.8	11.3	91.9	-179.75	-60.3	-519.6	787.6	657.8	129.80	6.067	
3,700.0	3,681.2	3,684.3	3,682.6	11.7	95.3	-179.83	-61.5	-519.6	801.6	667.1	134.53	5.959	
3,800.0	3,780.2	3,785.2	3,783.3	12.1	98.6	-179.90	-62.3	-519.6	815.6	676.4	139.23	5.858	
3,900.0	3,879.2	3,884.2	3,882.3	12.5	101.8	-179.90	-62.3	-519.6	829.6	685.8	143.71	5.772	
4,000.0	3,978.3	3,982.6	3,980.7	12.9	105.0	-179.79	-60.7	-519.6	843.3	695.1	148.17	5.691	
4,100.0	4,077.3	4,080.7	4,078.8	13.3	108.1	-179.87	-61.9	-519.6	857.3	704.7	152.61	5.618	
4,200.0	4,176.3	4,181.6	4,179.4	13.7	111.3	-179.90	-62.3	-519.6	871.3	714.2	157.06	5.548	
4,281.5	4,257.0	4,261.4	4,259.2	14.1	113.8	-179.85	-61.5	-519.6	882.5	722.0	160.55	5.497	
4,300.0	4,275.3	4,279.5	4,277.2	14.1	114.3	-179.86	-61.7	-519.6	885.1	723.8	161.34	5.486 SF	
4,400.0	4,374.5	4,335.0	4,332.7	14.5	116.0	-179.91	-62.3	-519.6	899.1	735.5	163.57	5.497	
4,500.0	4,473.9	4,335.0	4,332.7	14.9	116.0	-179.91	-62.3	-519.6	920.3	758.5	161.82	5.687	
4,600.0	4,573.5	4,335.0	4,332.7	15.3	116.0	-179.91	-62.3	-519.6	950.0	791.6	158.46	5.995	
4,700.0	4,673.2	4,335.0	4,332.7	15.7	116.0	-179.91	-62.3	-519.6	987.4	833.6	153.85	6.418	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	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:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #6 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 500-INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	10.0	10.0	3.0	3.0	107.17	-250.4	810.4	848.2	841.2	6.98	121.475	
100.0	100.0	110.0	110.0	3.1	3.2	107.17	-250.4	810.4	848.2	841.1	7.11	119.258	
200.0	200.0	210.0	210.0	3.2	3.6	107.17	-250.4	810.4	848.2	840.6	7.64	111.053	
300.0	300.0	310.0	310.0	3.4	4.1	107.17	-250.4	810.4	848.2	839.8	8.35	101.555	
400.0	400.0	410.0	410.0	3.5	4.8	107.17	-250.4	810.4	848.2	839.0	9.21	92.129	
500.0	500.0	510.0	510.0	3.6	5.7	107.17	-250.4	810.4	848.2	837.9	10.26	82.669	
600.0	600.0	610.0	610.0	3.7	7.4	107.17	-250.4	810.4	848.2	835.8	12.38	68.510	
700.0	700.0	710.0	710.0	3.9	9.1	107.17	-250.4	810.4	848.2	833.5	14.69	57.751	
741.4	741.4	751.4	751.4	3.9	9.9	107.14	-249.9	810.4	848.0	832.4	15.68	54.101	
800.0	800.0	809.7	809.7	4.0	10.9	107.14	-249.9	810.4	848.0	830.9	17.09	49.609	
900.0	900.0	909.3	909.3	4.1	12.8	107.15	-250.1	810.4	848.1	828.5	19.56	43.353	
1,000.0	1,000.0	1,010.0	1,010.0	4.2	14.7	107.17	-250.4	810.4	848.2	826.2	22.03	38.497	
1,100.0	1,100.0	1,110.0	1,110.0	4.3	16.8	107.17	-250.4	810.4	848.2	823.2	24.94	34.008	
1,200.0	1,200.0	1,210.0	1,210.0	4.5	18.9	107.17	-250.4	810.4	848.2	820.3	27.87	30.429	
1,241.4	1,241.4	1,251.4	1,251.4	4.5	19.8	107.12	-249.6	810.4	847.9	818.9	29.09	29.145	
1,300.0	1,300.0	1,309.7	1,309.6	4.6	21.1	107.12	-249.6	810.4	848.0	817.1	30.82	27.517	
1,400.0	1,400.0	1,409.0	1,409.0	4.7	23.2	107.14	-249.9	810.4	848.0	814.3	33.76	25.117	
1,500.0	1,500.0	1,510.1	1,510.0	4.8	25.4	107.17	-250.4	810.4	848.2	811.4	36.83	23.027	
1,600.0	1,600.0	1,610.1	1,610.0	4.9	28.0	24.23	-250.4	810.4	846.6	806.4	40.23	21.042	
1,700.0	1,699.8	1,708.6	1,708.4	5.1	30.6	24.37	-249.6	810.4	841.6	797.8	43.81	19.211	
1,800.0	1,799.5	1,809.7	1,809.5	5.3	33.2	24.73	-250.4	810.4	833.9	786.4	47.50	17.555	
1,900.0	1,898.7	1,909.0	1,908.7	5.6	35.9	25.18	-250.4	810.4	822.8	771.6	51.21	16.069	
2,000.0	1,997.7	2,007.9	2,007.6	5.8	38.5	25.47	-248.5	810.4	809.6	754.8	54.89	14.751	
2,100.0	2,096.8	2,105.0	2,104.7	6.1	41.1	25.92	-248.9	810.4	797.2	738.7	58.51	13.626	
2,200.0	2,195.8	2,202.1	2,201.8	6.4	43.7	26.44	-250.1	810.4	785.1	723.0	62.13	12.636	
2,300.0	2,294.8	2,305.3	2,304.8	6.7	46.3	26.93	-250.4	810.4	772.7	706.9	65.79	11.746	
2,400.0	2,393.8	2,402.9	2,402.4	7.0	48.7	27.35	-249.7	810.4	760.1	690.9	69.22	10.981	
2,500.0	2,492.9	2,503.4	2,502.9	7.3	51.3	27.90	-250.4	810.4	748.0	675.1	72.88	10.263	
2,600.0	2,591.9	2,602.1	2,601.5	7.6	54.2	28.35	-249.7	810.4	735.4	658.5	76.89	9.564	
2,700.0	2,690.9	2,701.6	2,700.9	8.0	57.1	28.93	-250.4	810.4	723.4	642.5	80.95	8.937	
2,800.0	2,789.9	2,800.6	2,799.9	8.3	60.2	29.39	-249.3	810.4	710.8	625.6	85.29	8.335	
2,900.0	2,889.0	2,894.2	2,893.5	8.7	63.1	29.99	-250.3	810.4	699.1	609.7	89.39	7.821	
3,000.0	2,988.0	2,998.9	2,998.0	9.0	66.1	30.61	-250.4	810.4	687.1	593.5	93.58	7.342	
3,100.0	3,087.0	3,097.9	3,097.0	9.4	68.9	31.21	-250.4	810.4	675.1	577.6	97.52	6.923	
3,200.0	3,186.1	3,196.0	3,195.1	9.8	71.7	31.66	-248.3	810.4	662.4	560.9	101.43	6.530	
3,300.0	3,285.1	3,293.3	3,292.4	10.2	74.5	32.34	-249.0	810.4	650.8	545.5	105.30	6.180	
3,400.0	3,384.1	3,390.5	3,389.6	10.6	77.2	33.10	-250.3	810.4	639.6	530.5	109.17	5.859	
3,500.0	3,483.1	3,494.3	3,493.1	10.9	80.8	33.83	-250.4	810.4	628.0	513.9	114.18	5.500	
3,600.0	3,582.2	3,593.3	3,592.2	11.3	84.3	34.55	-250.4	810.4	616.5	497.4	119.04	5.179	
3,700.0	3,681.2	3,690.3	3,689.2	11.7	87.7	35.18	-249.2	810.4	604.5	480.7	123.81	4.882	
3,800.0	3,780.2	3,787.3	3,786.1	12.1	91.1	36.03	-250.3	810.4	593.7	465.1	128.57	4.617	
3,900.0	3,879.2	3,890.8	3,889.2	12.5	96.1	36.87	-250.4	810.4	582.5	446.9	135.56	4.297	
4,000.0	3,978.3	3,989.8	3,988.2	12.9	101.0	37.45	-247.4	810.4	569.9	427.5	142.40	4.002	
4,100.0	4,077.3	4,084.7	4,083.0	13.3	105.7	38.34	-248.2	810.4	559.2	410.3	148.95	3.754	
4,200.0	4,176.3	4,188.9	4,186.3	13.7	110.9	39.47	-250.4	810.4	549.5	393.3	156.17	3.519	
4,281.5	4,257.0	4,269.6	4,267.0	14.1	115.2	40.24	-250.4	810.4	540.8	378.5	162.24	3.333	
4,300.0	4,275.3	4,286.9	4,284.3	14.1	116.2	40.21	-248.5	810.4	537.8	374.2	163.55	3.288	
4,400.0	4,374.5	4,378.0	4,374.8	14.5	121.1	41.14	-250.4	810.4	529.2	358.9	170.38	3.106 SF	
4,435.3	4,409.6	4,378.0	4,374.8	14.7	121.1	41.13	-250.4	810.4	528.0	358.1	169.83	3.109 CC, ES	
4,500.0	4,473.9	4,378.0	4,374.8	14.9	121.1	41.16	-250.4	810.4	532.2	365.3	166.94	3.188	
4,600.0	4,573.5	4,378.0	4,374.8	15.3	121.1	41.31	-250.4	810.4	554.8	396.5	158.29	3.505	
4,700.0	4,673.2	4,378.0	4,374.8	15.7	121.1	41.60	-250.4	810.4	594.7	448.3	146.42	4.062	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #6 (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 500-INC-ONLY													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,800.0	4,773.0	4,378.0	4,374.8	16.0	121.1	42.03	-250.4	810.4	648.8	515.3	133.53	4.859		
4,900.0	4,873.0	4,378.0	4,374.8	16.3	121.1	42.61	-250.4	810.4	713.9	592.7	121.14	5.893		
5,000.0	4,972.9	4,378.0	4,374.8	16.6	121.1	43.35	-250.4	810.4	787.1	677.1	110.02	7.154		
5,081.5	5,054.4	4,378.0	4,374.8	16.7	121.1	127.07	-250.4	810.4	851.4	749.3	102.06	8.342		
5,100.0	5,072.9	4,378.0	4,374.8	16.7	121.1	127.07	-250.4	810.4	866.4	766.1	100.38	8.631		
5,200.0	5,172.9	4,378.0	4,374.8	16.8	121.1	127.07	-250.4	810.4	949.9	857.8	92.10	10.314		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11344-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	9.24	217.7	35.4	220.5	213.6	6.98	31.594	
100.0	100.0	98.0	98.0	3.1	3.1	9.24	217.7	35.4	220.5	213.3	7.22	30.530	
200.0	200.0	198.0	198.0	3.2	3.2	9.24	217.7	35.4	220.5	213.1	7.47	29.520	
300.0	300.0	298.0	298.0	3.4	3.4	9.24	217.7	35.4	220.5	212.8	7.71	28.587	
400.0	400.0	398.0	398.0	3.5	3.5	9.24	217.7	35.4	220.5	212.6	7.96	27.719	
500.0	500.0	498.0	498.0	3.6	3.6	9.24	217.7	35.4	220.5	212.3	8.20	26.906	
600.0	600.0	598.0	598.0	3.7	3.7	9.24	217.7	35.4	220.5	212.1	8.44	26.145	
700.0	700.0	698.0	698.0	3.9	3.9	9.24	217.7	35.4	220.5	211.9	8.67	25.429	
800.0	800.0	798.0	798.0	4.0	4.0	9.24	217.7	35.4	220.5	211.6	8.91	24.754	
900.0	900.0	898.0	898.0	4.1	4.1	9.24	217.7	35.4	220.5	211.4	9.14	24.117	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	9.24	217.7	35.4	220.5	211.2	9.38	23.514	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	9.24	217.7	35.4	220.5	210.9	9.61	22.943	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	9.24	217.7	35.4	220.5	210.7	9.85	22.401	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	9.24	217.7	35.4	220.5	210.5	10.08	21.885	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	9.24	217.7	35.4	220.5	210.2	10.31	21.394	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	9.24	217.7	35.4	220.5	210.0	10.54	20.926	
1,600.0	1,600.0	1,599.5	1,599.5	4.9	4.9	-74.66	217.6	33.7	219.7	209.3	10.41	21.109	
1,700.0	1,699.8	1,700.3	1,700.1	5.1	5.1	-77.40	217.3	28.4	217.5	206.8	10.71	20.307	
1,800.0	1,799.5	1,799.6	1,799.1	5.3	5.3	-81.97	216.9	19.8	215.0	204.0	11.00	19.548	
1,896.2	1,895.0	1,893.2	1,892.0	5.6	5.6	-87.99	216.3	8.5	213.8	202.5	11.26	18.986 CC	
1,900.0	1,898.7	1,896.8	1,895.5	5.6	5.6	-88.25	216.2	8.0	213.8	202.5	11.27	18.969 ES	
2,000.0	1,997.7	1,991.7	1,989.3	5.8	5.9	-95.59	215.5	-6.6	215.9	204.4	11.55	18.694 SF	
2,100.0	2,096.8	2,084.7	2,080.6	6.1	6.2	-103.26	214.6	-24.0	222.8	211.0	11.88	18.760	
2,200.0	2,195.8	2,178.3	2,172.2	6.4	6.5	-110.86	213.6	-43.4	234.9	222.6	12.28	19.124	
2,300.0	2,294.8	2,272.3	2,264.1	6.7	6.8	-117.73	212.5	-62.9	251.1	238.3	12.76	19.667	
2,400.0	2,393.8	2,366.2	2,356.0	7.0	7.1	-123.75	211.5	-82.4	270.6	257.3	13.32	20.316	
2,500.0	2,492.9	2,460.2	2,448.0	7.3	7.4	-128.98	210.5	-101.9	292.8	278.9	13.93	21.019	
2,600.0	2,591.9	2,554.2	2,539.9	7.6	7.7	-133.48	209.5	-121.4	317.2	302.6	14.59	21.741	
2,700.0	2,690.9	2,648.2	2,631.8	8.0	8.1	-137.35	208.4	-140.9	343.3	328.0	15.28	22.459	
2,800.0	2,789.9	2,742.1	2,723.7	8.3	8.4	-140.70	207.4	-160.4	370.6	354.6	16.00	23.161	
2,900.0	2,889.0	2,836.1	2,815.6	8.7	8.8	-143.59	206.4	-180.0	399.1	382.3	16.74	23.838	
3,000.0	2,988.0	2,930.1	2,907.6	9.0	9.1	-146.10	205.4	-199.5	428.3	410.8	17.49	24.484	
3,100.0	3,087.0	3,024.1	2,999.5	9.4	9.5	-148.30	204.3	-219.0	458.3	440.0	18.26	25.098	
3,200.0	3,186.1	3,118.0	3,091.4	9.8	9.9	-150.24	203.3	-238.5	488.8	469.7	19.03	25.678	
3,300.0	3,285.1	3,212.0	3,183.3	10.2	10.3	-151.95	202.3	-258.0	519.7	499.9	19.82	26.226	
3,400.0	3,384.1	3,306.0	3,275.3	10.6	10.7	-153.47	201.3	-277.5	551.1	530.5	20.61	26.742	
3,500.0	3,483.1	3,400.0	3,367.2	10.9	11.0	-154.83	200.3	-297.0	582.7	561.3	21.40	27.227	
3,600.0	3,582.2	3,493.9	3,459.1	11.3	11.4	-156.05	199.2	-316.5	614.7	592.5	22.20	27.683	
3,700.0	3,681.2	3,587.9	3,551.0	11.7	11.8	-157.16	198.2	-336.0	646.8	623.8	23.01	28.113	
3,800.0	3,780.2	3,681.9	3,643.0	12.1	12.3	-158.16	197.2	-355.6	679.2	655.4	23.82	28.517	
3,900.0	3,879.2	3,775.9	3,734.9	12.5	12.7	-159.06	196.2	-375.1	711.7	687.1	24.63	28.897	
4,000.0	3,978.3	3,869.8	3,826.8	12.9	13.1	-159.89	195.1	-394.6	744.4	719.0	25.45	29.256	
4,100.0	4,077.3	3,963.8	3,918.7	13.3	13.5	-160.66	194.1	-414.1	777.2	751.0	26.26	29.594	
4,200.0	4,176.3	4,057.8	4,010.6	13.7	13.9	-161.36	193.1	-433.6	810.1	783.1	27.08	29.913	
4,281.5	4,257.0	4,134.4	4,085.5	14.1	14.2	-161.89	192.3	-449.5	837.0	809.3	27.74	30.170	
4,300.0	4,275.3	4,151.8	4,102.6	14.1	14.3	-162.02	192.1	-453.1	843.1	815.2	27.89	30.231	
4,400.0	4,374.5	4,246.2	4,194.9	14.5	14.7	-162.70	191.1	-472.7	875.2	846.4	28.72	30.474	
4,500.0	4,473.9	4,341.1	4,287.8	14.9	15.2	-163.29	190.0	-492.4	905.7	876.2	29.53	30.670	
4,600.0	4,573.5	4,436.6	4,381.1	15.3	15.6	-163.81	189.0	-512.3	934.7	904.3	30.33	30.812	
4,700.0	4,673.2	4,532.6	4,475.0	15.7	16.0	-164.27	187.9	-532.2	962.1	930.9	31.13	30.908	
4,800.0	4,773.0	4,629.0	4,569.4	16.0	16.5	-164.67	186.9	-552.2	987.9	956.0	31.91	30.962	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11473-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	16.76	200.9	60.5	209.9	202.9	6.98	30.065	
100.0	100.0	98.0	98.0	3.1	3.1	16.76	200.9	60.5	209.9	202.6	7.22	29.053	
200.0	200.0	198.0	198.0	3.2	3.2	16.76	200.9	60.5	209.9	202.4	7.47	28.094	
300.0	300.0	298.0	298.0	3.4	3.4	16.76	200.9	60.5	209.9	202.2	7.71	27.210	
400.0	400.0	398.0	398.0	3.5	3.5	16.76	200.9	60.5	209.9	201.9	7.95	26.387	
500.0	500.0	498.0	498.0	3.6	3.6	16.76	200.9	60.5	209.9	201.7	8.19	25.619	
600.0	600.0	598.0	598.0	3.7	3.7	16.76	200.9	60.5	209.9	201.4	8.43	24.899	
700.0	700.0	698.0	698.0	3.9	3.9	16.76	200.9	60.5	209.9	201.2	8.66	24.223	
800.0	800.0	798.0	798.0	4.0	4.0	16.76	200.9	60.5	209.9	201.0	8.90	23.586	
900.0	900.0	898.0	898.0	4.1	4.1	16.76	200.9	60.5	209.9	200.7	9.13	22.984	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	16.76	200.9	60.5	209.9	200.5	9.36	22.416	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	16.76	200.9	60.5	209.9	200.3	9.59	21.877	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	16.76	200.9	60.5	209.9	200.0	9.82	21.366	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	16.76	200.9	60.5	209.9	199.8	10.05	20.880	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	16.76	200.9	60.5	209.9	199.6	10.28	20.417	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	16.76	200.9	60.5	209.9	199.4	10.51	19.976	
1,600.0	1,600.0	1,601.0	1,601.0	4.9	4.9	-67.16	200.7	58.7	208.5	198.1	10.40	20.046	
1,700.0	1,699.8	1,703.2	1,703.1	5.1	5.1	-70.01	199.9	53.4	204.5	193.8	10.73	19.060	
1,800.0	1,799.5	1,804.0	1,803.4	5.3	5.3	-74.88	198.7	44.6	199.0	188.0	11.03	18.035	
1,900.0	1,898.7	1,902.5	1,901.2	5.6	5.6	-81.82	197.0	32.6	193.7	182.4	11.30	17.140	
2,000.0	1,997.7	1,998.7	1,996.2	5.8	5.9	-90.18	194.9	17.6	191.3	179.8	11.56	16.557	
2,004.4	2,002.1	2,003.0	2,000.4	5.8	5.9	-90.57	194.8	16.9	191.3	179.8	11.57	16.540 CC, ES	
2,100.0	2,096.8	2,093.8	2,089.9	6.1	6.2	-98.92	192.6	1.3	193.6	181.8	11.84	16.351 SF	
2,200.0	2,195.8	2,188.9	2,183.5	6.4	6.4	-107.29	190.3	-15.1	200.6	188.5	12.19	16.455	
2,300.0	2,294.8	2,284.1	2,277.2	6.7	6.7	-114.99	188.0	-31.4	212.0	199.4	12.64	16.779	
2,400.0	2,393.8	2,379.2	2,370.9	7.0	7.0	-121.85	185.7	-47.8	227.1	213.9	13.17	17.246	
2,500.0	2,492.9	2,474.3	2,464.5	7.3	7.3	-127.85	183.4	-64.1	245.1	231.3	13.77	17.799	
2,600.0	2,591.9	2,569.4	2,558.2	7.6	7.7	-133.02	181.1	-80.5	265.5	251.1	14.43	18.400	
2,700.0	2,690.9	2,664.5	2,651.8	8.0	8.0	-137.46	178.8	-96.9	287.8	272.6	15.13	19.021	
2,800.0	2,789.9	2,759.6	2,745.5	8.3	8.3	-141.27	176.5	-113.2	311.5	295.7	15.86	19.646	
2,900.0	2,889.0	2,854.7	2,839.2	8.7	8.7	-144.55	174.2	-129.6	336.5	319.9	16.61	20.261	
3,000.0	2,988.0	2,949.8	2,932.8	9.0	9.1	-147.38	171.9	-145.9	362.3	344.9	17.37	20.859	
3,100.0	3,087.0	3,044.9	3,026.5	9.4	9.4	-149.85	169.6	-162.3	388.9	370.7	18.14	21.435	
3,200.0	3,186.1	3,140.0	3,120.2	9.8	9.8	-152.00	167.3	-178.6	416.1	397.1	18.92	21.986	
3,300.0	3,285.1	3,235.1	3,213.8	10.2	10.2	-153.89	165.0	-195.0	443.7	424.0	19.71	22.511	
3,400.0	3,384.1	3,330.2	3,307.5	10.6	10.6	-155.56	162.7	-211.3	471.8	451.3	20.50	23.010	
3,500.0	3,483.1	3,425.3	3,401.1	10.9	10.9	-157.04	160.4	-227.7	500.2	478.9	21.30	23.482	
3,600.0	3,582.2	3,520.4	3,494.8	11.3	11.3	-158.37	158.1	-244.0	528.9	506.8	22.10	23.930	
3,700.0	3,681.2	3,615.5	3,588.5	11.7	11.7	-159.56	155.8	-260.4	557.8	534.9	22.91	24.353	
3,800.0	3,780.2	3,710.6	3,682.1	12.1	12.1	-160.63	153.6	-276.7	586.9	563.2	23.71	24.752	
3,900.0	3,879.2	3,805.8	3,775.8	12.5	12.5	-161.61	151.3	-293.1	616.2	591.7	24.52	25.131	
4,000.0	3,978.3	3,900.9	3,869.4	12.9	12.9	-162.50	149.0	-309.5	645.7	620.3	25.33	25.488	
4,100.0	4,077.3	3,996.0	3,963.1	13.3	13.3	-163.31	146.7	-325.8	675.2	649.1	26.15	25.827	
4,200.0	4,176.3	4,096.9	4,062.5	13.7	13.7	-164.09	144.2	-343.0	704.8	677.8	26.98	26.121	
4,281.5	4,257.0	4,185.4	4,150.0	14.1	14.1	-164.69	142.3	-356.8	727.8	700.1	27.72	26.256	
4,300.0	4,275.3	4,205.7	4,170.0	14.1	14.2	-164.83	141.9	-359.7	732.9	705.0	27.88	26.284	
4,400.0	4,374.5	4,316.0	4,279.3	14.5	14.6	-165.50	139.8	-374.7	758.2	729.4	28.79	26.331	
4,500.0	4,473.9	4,428.0	4,390.5	14.9	15.1	-166.05	138.0	-387.7	780.1	750.4	29.67	26.293	
4,600.0	4,573.5	4,541.3	4,503.2	15.3	15.5	-166.49	136.4	-398.8	798.5	768.0	30.51	26.172	
4,700.0	4,673.2	4,655.7	4,617.3	15.7	15.9	-166.82	135.2	-407.6	813.4	782.1	31.31	25.977	
4,800.0	4,773.0	4,771.0	4,732.4	16.0	16.3	-167.07	134.2	-414.3	824.7	792.6	32.06	25.722	
4,900.0	4,873.0	4,887.0	4,848.3	16.3	16.7	-167.23	133.6	-418.7	832.3	799.6	32.74	25.420	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11473-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
5,000.0	4,972.9	5,003.4	4,964.7	16.6	17.0	-167.31	133.3	-420.7	836.3	802.9	33.32	25.098	
5,081.5	5,054.4	5,091.1	5,052.4	16.7	17.0	-84.33	133.3	-420.9	837.0	803.5	33.48	25.000	
5,100.0	5,072.9	5,109.6	5,070.9	16.7	17.0	-84.33	133.3	-420.9	837.0	803.5	33.49	24.994	
5,200.0	5,172.9	5,209.6	5,170.9	16.8	17.1	-84.33	133.3	-420.9	837.0	803.4	33.58	24.922	
5,300.0	5,272.9	5,309.6	5,270.9	16.8	17.1	-84.33	133.3	-420.9	837.0	803.3	33.67	24.858	
5,400.0	5,372.9	5,409.6	5,370.9	16.9	17.2	-84.33	133.3	-420.9	837.0	803.2	33.76	24.793	
5,500.0	5,472.9	5,509.6	5,470.9	16.9	17.2	-84.33	133.3	-420.9	837.0	803.1	33.85	24.728	
5,600.0	5,572.9	5,609.6	5,570.9	17.0	17.3	-84.33	133.3	-420.9	837.0	803.0	33.94	24.663	
5,700.0	5,672.9	5,709.6	5,670.9	17.0	17.3	-84.33	133.3	-420.9	837.0	802.9	34.03	24.598	
5,800.0	5,772.9	5,809.6	5,770.9	17.1	17.3	-84.33	133.3	-420.9	837.0	802.9	34.12	24.532	
5,900.0	5,872.9	5,909.6	5,870.9	17.1	17.4	-84.33	133.3	-420.9	837.0	802.8	34.21	24.467	
6,000.0	5,972.9	6,009.6	5,970.9	17.2	17.4	-84.33	133.3	-420.9	837.0	802.7	34.30	24.402	
6,100.0	6,072.9	6,109.6	6,070.9	17.2	17.5	-84.33	133.3	-420.9	837.0	802.6	34.39	24.337	
6,200.0	6,172.9	6,209.6	6,170.9	17.3	17.5	-84.33	133.3	-420.9	837.0	802.5	34.48	24.272	
6,300.0	6,272.9	6,309.6	6,270.9	17.3	17.6	-84.33	133.3	-420.9	837.0	802.4	34.58	24.207	
6,400.0	6,372.9	6,409.6	6,370.9	17.4	17.6	-84.33	133.3	-420.9	837.0	802.3	34.67	24.141	
6,500.0	6,472.9	6,509.6	6,470.9	17.4	17.7	-84.33	133.3	-420.9	837.0	802.2	34.76	24.076	
6,600.0	6,572.9	6,609.6	6,570.9	17.5	17.7	-84.33	133.3	-420.9	837.0	802.1	34.86	24.011	
6,700.0	6,672.9	6,709.6	6,670.9	17.5	17.7	-84.33	133.3	-420.9	837.0	802.0	34.95	23.946	
6,800.0	6,772.9	6,809.6	6,770.9	17.6	17.8	-84.33	133.3	-420.9	837.0	801.9	35.05	23.880	
6,900.0	6,872.9	6,909.6	6,870.9	17.6	17.8	-84.33	133.3	-420.9	837.0	801.8	35.14	23.815	
7,000.0	6,972.9	7,009.6	6,970.9	17.7	17.9	-84.33	133.3	-420.9	837.0	801.7	35.24	23.750	
7,100.0	7,072.9	7,109.6	7,070.9	17.7	17.9	-84.33	133.3	-420.9	837.0	801.6	35.34	23.685	
7,200.0	7,172.9	7,209.6	7,170.9	17.8	18.0	-84.33	133.3	-420.9	837.0	801.5	35.44	23.620	
7,300.0	7,272.9	7,309.6	7,270.9	17.8	18.0	-84.33	133.3	-420.9	837.0	801.4	35.53	23.555	
7,400.0	7,372.9	7,409.6	7,370.9	17.9	18.1	-84.33	133.3	-420.9	837.0	801.3	35.63	23.490	
7,500.0	7,472.9	7,509.6	7,470.9	17.9	18.1	-84.33	133.3	-420.9	837.0	801.2	35.73	23.425	
7,600.0	7,572.9	7,609.6	7,570.9	18.0	18.2	-84.33	133.3	-420.9	837.0	801.1	35.83	23.360	
7,700.0	7,672.9	7,709.6	7,670.9	18.0	18.2	-84.33	133.3	-420.9	837.0	801.0	35.93	23.295	
7,800.0	7,772.9	7,809.6	7,770.9	18.1	18.3	-84.33	133.3	-420.9	837.0	800.9	36.03	23.231	
7,900.0	7,872.9	7,909.6	7,870.9	18.1	18.3	-84.33	133.3	-420.9	837.0	800.8	36.13	23.166	
8,000.0	7,972.9	8,009.6	7,970.9	18.2	18.4	-84.33	133.3	-420.9	837.0	800.7	36.23	23.101	
8,100.0	8,072.9	8,109.6	8,070.9	18.2	18.4	-84.33	133.3	-420.9	837.0	800.6	36.33	23.037	
8,200.0	8,172.9	8,209.6	8,170.9	18.3	18.5	-84.33	133.3	-420.9	837.0	800.5	36.43	22.973	
8,300.0	8,272.9	8,309.6	8,270.9	18.3	18.5	-84.33	133.3	-420.9	837.0	800.4	36.54	22.908	
8,400.0	8,372.9	8,409.6	8,370.9	18.4	18.6	-84.33	133.3	-420.9	837.0	800.3	36.64	22.844	
8,500.0	8,472.9	8,509.6	8,470.9	18.4	18.6	-84.33	133.3	-420.9	837.0	800.2	36.74	22.780	
8,600.0	8,572.9	8,609.6	8,570.9	18.5	18.7	-84.33	133.3	-420.9	837.0	800.1	36.85	22.716	
8,700.0	8,672.9	8,709.6	8,670.9	18.5	18.7	-84.33	133.3	-420.9	837.0	800.0	36.95	22.652	
8,800.0	8,772.9	8,809.6	8,770.9	18.6	18.8	-84.33	133.3	-420.9	837.0	799.9	37.05	22.588	
8,900.0	8,872.9	8,909.6	8,870.9	18.7	18.8	-84.33	133.3	-420.9	837.0	799.8	37.16	22.524	
9,000.0	8,972.9	9,009.6	8,970.9	18.7	18.9	-84.33	133.3	-420.9	837.0	799.7	37.26	22.461	
9,100.0	9,072.9	9,109.6	9,070.9	18.8	18.9	-84.33	133.3	-420.9	837.0	799.6	37.37	22.397	
9,200.0	9,172.9	9,209.6	9,170.9	18.8	19.0	-84.33	133.3	-420.9	837.0	799.5	37.48	22.334	
9,300.0	9,272.9	9,309.6	9,270.9	18.9	19.0	-84.33	133.3	-420.9	837.0	799.4	37.58	22.270	
9,400.0	9,372.9	9,409.6	9,370.9	18.9	19.1	-84.33	133.3	-420.9	837.0	799.3	37.69	22.207	
9,500.0	9,472.9	9,509.6	9,470.9	19.0	19.1	-84.33	133.3	-420.9	837.0	799.2	37.80	22.144	
9,600.0	9,572.9	9,609.6	9,570.9	19.0	19.2	-84.33	133.3	-420.9	837.0	799.1	37.90	22.081	
9,700.0	9,672.9	9,709.6	9,670.9	19.1	19.2	-84.33	133.3	-420.9	837.0	799.0	38.01	22.019	
9,800.0	9,772.9	9,809.6	9,770.9	19.2	19.3	-84.33	133.3	-420.9	837.0	798.9	38.12	21.956	
9,900.0	9,872.9	9,909.6	9,870.9	19.2	19.3	-84.33	133.3	-420.9	837.0	798.7	38.23	21.894	
10,000.0	9,972.9	10,009.6	9,970.9	19.3	19.4	-84.33	133.3	-420.9	837.0	798.6	38.34	21.831	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11473-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		
10,100.0	10,072.9	10,109.6	10,070.9	19.3	19.4	-84.33	133.3	-420.9	837.0	798.5	38.45	21.769		
10,200.0	10,172.9	10,209.6	10,170.9	19.4	19.5	-84.33	133.3	-420.9	837.0	798.4	38.56	21.707		
10,300.0	10,272.9	10,309.6	10,270.9	19.4	19.5	-84.33	133.3	-420.9	837.0	798.3	38.67	21.645		
10,400.0	10,372.9	10,409.6	10,370.9	19.5	19.6	-84.33	133.3	-420.9	837.0	798.2	38.78	21.583		
10,500.0	10,472.9	10,509.6	10,470.9	19.5	19.6	-84.33	133.3	-420.9	837.0	798.1	38.89	21.522		
10,600.0	10,572.9	10,609.6	10,570.9	19.6	19.7	-84.33	133.3	-420.9	837.0	798.0	39.00	21.460		
10,700.0	10,672.9	10,709.6	10,670.9	19.7	19.8	-84.33	133.3	-420.9	837.0	797.9	39.11	21.399		
10,800.0	10,772.9	10,809.6	10,770.9	19.7	19.8	-84.33	133.3	-420.9	837.0	797.8	39.22	21.338		
10,900.0	10,872.9	10,909.6	10,870.9	19.8	19.9	-84.33	133.3	-420.9	837.0	797.6	39.34	21.277		
11,000.0	10,972.9	11,009.6	10,970.9	19.8	19.9	-84.33	133.3	-420.9	837.0	797.5	39.45	21.216		
11,100.0	11,072.9	11,109.6	11,070.9	19.9	20.0	-84.33	133.3	-420.9	837.0	797.4	39.56	21.156		
11,200.0	11,172.9	11,209.6	11,170.9	20.0	20.0	-84.33	133.3	-420.9	837.0	797.3	39.68	21.095		
11,300.0	11,272.9	11,309.6	11,270.9	20.0	20.1	-84.33	133.3	-420.9	837.0	797.2	39.79	21.035		
11,400.0	11,372.9	11,409.6	11,370.9	20.1	20.1	-84.33	133.3	-420.9	837.0	797.1	39.90	20.976		
11,462.6	11,435.5	11,472.2	11,433.5	20.1	20.2	-84.33	133.3	-420.9	837.0	797.0	39.95	20.951		
11,475.0	11,447.9	11,482.8	11,444.1	20.1	20.2	96.06	133.4	-420.9	837.0	797.3	39.74	21.065		
11,500.0	11,472.9	11,503.7	11,465.0	20.1	20.2	96.16	134.3	-420.9	837.3	797.5	39.74	21.070		
11,525.0	11,497.8	11,525.0	11,486.2	20.1	20.2	96.37	136.1	-420.9	837.8	798.1	39.72	21.092		
11,550.0	11,522.4	11,544.0	11,505.0	20.1	20.2	96.64	138.5	-420.9	838.6	798.9	39.70	21.126		
11,575.0	11,546.9	11,562.9	11,523.6	20.1	20.2	96.97	141.7	-421.0	839.8	800.1	39.66	21.174		
11,600.0	11,571.0	11,580.7	11,541.1	20.1	20.2	97.32	145.3	-421.0	841.4	801.8	39.62	21.238		
11,625.0	11,594.8	11,600.0	11,559.8	20.1	20.2	97.77	150.0	-421.0	843.4	803.9	39.56	21.322		
11,650.0	11,618.2	11,612.7	11,572.0	20.1	20.2	97.99	153.5	-421.1	846.0	806.5	39.50	21.415		
11,675.0	11,641.0	11,625.0	11,583.7	20.1	20.2	98.16	157.2	-421.1	849.1	809.7	39.44	21.527		
11,700.0	11,663.3	11,639.3	11,597.2	20.1	20.2	98.39	161.9	-421.2	852.9	813.5	39.37	21.665		
11,725.0	11,684.9	11,650.0	11,607.3	20.1	20.2	98.42	165.6	-421.2	857.3	818.0	39.29	21.818		
11,750.0	11,705.9	11,660.4	11,616.9	20.1	20.2	98.36	169.5	-421.2	862.5	823.3	39.21	21.993		
11,775.0	11,726.1	11,669.0	11,624.8	20.1	20.2	98.14	172.8	-421.3	868.3	829.2	39.14	22.188		
11,800.0	11,745.5	11,675.0	11,630.3	20.2	20.2	97.69	175.3	-421.3	874.9	835.9	39.06	22.398		
11,825.0	11,764.1	11,682.5	11,637.2	20.2	20.2	97.24	178.4	-421.3	882.3	843.3	38.97	22.638		
11,850.0	11,781.8	11,687.6	11,641.8	20.2	20.2	96.55	180.6	-421.3	890.4	851.5	38.89	22.893		
11,875.0	11,798.5	11,691.7	11,645.5	20.2	20.2	95.69	182.4	-421.3	899.2	860.4	38.81	23.168		
11,900.0	11,814.3	11,700.0	11,652.9	20.2	20.2	95.02	186.1	-421.4	908.7	870.0	38.69	23.490		
11,925.0	11,829.0	11,700.0	11,652.9	20.2	20.2	93.69	186.1	-421.4	918.9	880.3	38.62	23.792		
11,950.0	11,842.6	11,700.0	11,652.9	20.2	20.2	92.25	186.1	-421.4	929.7	891.1	38.55	24.116		
11,975.0	11,855.1	11,700.0	11,652.9	20.2	20.2	90.72	186.1	-421.4	941.1	902.6	38.47	24.461		
12,000.0	11,866.4	11,700.0	11,652.9	20.3	20.2	89.09	186.1	-421.4	953.0	914.6	38.38	24.828		
12,025.0	11,876.6	11,700.0	11,652.9	20.3	20.2	87.38	186.1	-421.4	965.4	927.1	38.29	25.215		
12,050.0	11,885.6	11,700.0	11,652.9	20.3	20.2	85.59	186.1	-421.4	978.2	940.0	38.18	25.622		
12,075.0	11,893.3	11,700.0	11,652.9	20.3	20.2	83.73	186.1	-421.4	991.4	953.3	38.06	26.049		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-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	24.95	184.2	85.7	203.2	196.2	6.98	29.103		
100.0	100.0	99.0	99.0	3.1	3.1	24.95	184.2	85.7	203.2	195.9	7.23	28.118		
200.0	200.0	199.0	199.0	3.2	3.2	24.95	184.2	85.7	203.2	195.7	7.47	27.197		
300.0	300.0	299.0	299.0	3.4	3.4	24.95	184.2	85.7	203.2	195.5	7.71	26.348		
400.0	400.0	399.0	399.0	3.5	3.5	24.95	184.2	85.7	203.2	195.2	7.95	25.558		
500.0	500.0	499.0	499.0	3.6	3.6	24.95	184.2	85.7	203.2	195.0	8.18	24.822		
600.0	600.0	599.0	599.0	3.7	3.7	24.95	184.2	85.7	203.2	194.7	8.42	24.133		
700.0	700.0	699.0	699.0	3.9	3.9	24.95	184.2	85.7	203.2	194.5	8.65	23.487		
800.0	800.0	799.0	799.0	4.0	4.0	24.95	184.2	85.7	203.2	194.3	8.88	22.878		
900.0	900.0	899.0	899.0	4.1	4.1	24.95	184.2	85.7	203.2	194.1	9.11	22.305		
1,000.0	1,000.0	999.0	999.0	4.2	4.2	24.95	184.2	85.7	203.2	193.8	9.34	21.762		
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	24.95	184.2	85.7	203.2	193.6	9.56	21.249		
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	24.95	184.2	85.7	203.2	193.4	9.79	20.762		
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	24.95	184.2	85.7	203.2	193.2	10.01	20.299		
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	24.95	184.2	85.7	203.2	192.9	10.23	19.858		
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	24.95	184.2	85.7	203.2	192.7	10.45	19.438		
1,600.0	1,600.0	1,605.0	1,605.0	4.9	5.0	-58.84	183.2	84.1	200.8	190.3	10.41	19.277		
1,700.0	1,699.8	1,710.4	1,710.2	5.1	5.2	-61.35	180.2	79.1	193.7	182.9	10.81	17.920		
1,800.0	1,799.5	1,811.1	1,810.5	5.3	5.3	-65.57	175.8	71.8	183.2	172.1	11.07	16.546		
1,900.0	1,898.7	1,909.0	1,908.0	5.6	5.5	-71.27	171.5	64.5	172.3	161.0	11.38	15.139		
2,000.0	1,997.7	2,006.5	2,005.2	5.8	5.7	-77.98	167.1	57.2	163.0	151.3	11.65	13.983		
2,100.0	2,096.8	2,104.0	2,102.4	6.1	5.9	-85.36	162.7	49.9	156.1	144.2	11.90	13.126		
2,200.0	2,195.8	2,201.6	2,199.5	6.4	6.2	-93.24	158.3	42.6	152.2	140.1	12.12	12.558		
2,274.2	2,269.2	2,273.9	2,271.6	6.6	6.4	-99.26	155.1	37.2	151.3	139.0	12.30	12.308 CC, ES		
2,300.0	2,294.8	2,299.1	2,296.7	6.7	6.4	-101.36	153.9	35.3	151.5	139.1	12.36	12.251		
2,400.0	2,393.8	2,396.7	2,393.9	7.0	6.7	-109.39	149.6	28.1	153.9	141.2	12.66	12.157 SF		
2,500.0	2,492.9	2,494.2	2,491.1	7.3	7.0	-117.04	145.2	20.8	159.3	146.3	13.04	12.222		
2,600.0	2,591.9	2,591.8	2,588.2	7.6	7.3	-124.09	140.8	13.5	167.5	154.0	13.51	12.398		
2,700.0	2,690.9	2,689.5	2,685.6	8.0	7.6	-130.42	136.4	6.2	178.1	164.0	14.03	12.690		
2,800.0	2,789.9	2,788.4	2,784.2	8.3	7.9	-135.74	132.6	-0.1	190.1	175.5	14.65	12.975		
2,900.0	2,889.0	2,887.9	2,883.6	8.7	8.2	-140.00	129.7	-5.0	202.9	187.6	15.31	13.251		
3,000.0	2,988.0	2,988.1	2,983.6	9.0	8.4	-143.36	127.6	-8.5	215.7	199.7	15.97	13.507		
3,100.0	3,087.0	3,088.8	3,084.3	9.4	8.7	-145.97	126.4	-10.4	228.3	211.6	16.62	13.736		
3,200.0	3,186.1	3,189.5	3,185.1	9.8	8.8	-147.97	126.2	-10.9	240.3	223.1	17.17	13.992		
3,300.0	3,285.1	3,288.5	3,284.1	10.2	8.9	-149.64	126.2	-10.9	252.2	234.5	17.72	14.235		
3,400.0	3,384.1	3,387.5	3,383.1	10.6	9.0	-151.16	126.2	-10.9	264.3	246.1	18.27	14.466		
3,500.0	3,483.1	3,486.6	3,482.1	10.9	9.0	-152.55	126.2	-10.9	276.6	257.8	18.83	14.690		
3,600.0	3,582.2	3,585.6	3,581.2	11.3	9.1	-153.82	126.2	-10.9	289.1	269.7	19.39	14.908		
3,700.0	3,681.2	3,684.6	3,680.2	11.7	9.2	-154.98	126.2	-10.9	301.7	281.7	19.95	15.118		
3,800.0	3,780.2	3,783.7	3,779.2	12.1	9.3	-156.05	126.2	-10.9	314.3	293.8	20.52	15.320		
3,900.0	3,879.2	3,882.7	3,878.2	12.5	9.4	-157.04	126.2	-10.9	327.1	306.0	21.08	15.515		
4,000.0	3,978.3	3,981.7	3,977.3	12.9	9.4	-157.96	126.2	-10.9	340.0	318.4	21.65	15.703		
4,100.0	4,077.3	4,080.7	4,076.3	13.3	9.5	-158.80	126.2	-10.9	353.0	330.7	22.22	15.884		
4,200.0	4,176.3	4,179.8	4,175.3	13.7	9.6	-159.59	126.2	-10.9	366.0	343.2	22.79	16.058		
4,281.5	4,257.0	4,260.4	4,256.0	14.1	9.6	-160.19	126.2	-10.9	376.6	353.4	23.25	16.203		
4,300.0	4,275.3	4,278.8	4,274.3	14.1	9.7	-160.33	126.2	-10.9	379.0	355.7	23.34	16.239		
4,400.0	4,374.5	4,378.0	4,373.5	14.5	9.7	-161.00	126.2	-10.9	391.1	367.2	23.92	16.352		
4,500.0	4,473.9	4,477.4	4,472.9	14.9	9.8	-161.54	126.2	-10.9	401.5	377.0	24.46	16.415		
4,600.0	4,573.5	4,576.9	4,572.5	15.3	9.9	-161.98	126.2	-10.9	410.3	385.3	24.98	16.424		
4,700.0	4,673.2	4,676.7	4,672.2	15.7	10.0	-162.32	126.2	-10.9	417.5	392.0	25.48	16.383		
4,800.0	4,773.0	4,776.5	4,772.0	16.0	10.0	-162.57	126.2	-10.9	423.0	397.0	25.95	16.297		
4,900.0	4,873.0	4,876.4	4,872.0	16.3	10.1	-162.75	126.2	-10.9	426.8	400.4	26.39	16.172		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-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
5,000.0	4,972.9	4,976.4	4,971.9	16.6	10.2	-162.84	126.2	-10.9	429.0	402.2	26.79	16.017	
5,081.5	5,054.4	5,057.8	5,053.4	16.7	10.3	-79.87	126.2	-10.9	429.6	402.6	26.97	15.928	
5,100.0	5,072.9	5,076.4	5,071.9	16.7	10.3	-79.87	126.2	-10.9	429.6	402.6	26.98	15.921	
5,200.0	5,172.9	5,176.4	5,171.9	16.8	10.4	-79.87	126.2	-10.9	429.6	402.5	27.11	15.846	
5,300.0	5,272.9	5,276.4	5,271.9	16.8	10.4	-79.87	126.2	-10.9	429.6	402.3	27.23	15.778	
5,400.0	5,372.9	5,376.4	5,371.9	16.9	10.5	-79.87	126.2	-10.9	429.6	402.2	27.34	15.710	
5,500.0	5,472.9	5,476.4	5,471.9	16.9	10.6	-79.87	126.2	-10.9	429.6	402.1	27.46	15.643	
5,600.0	5,572.9	5,576.4	5,571.9	17.0	10.7	-79.87	126.2	-10.9	429.6	402.0	27.58	15.577	
5,700.0	5,672.9	5,676.4	5,671.9	17.0	10.8	-79.87	126.2	-10.9	429.6	401.9	27.70	15.510	
5,800.0	5,772.9	5,776.4	5,771.9	17.1	10.8	-79.87	126.2	-10.9	429.6	401.8	27.82	15.444	
5,900.0	5,872.9	5,876.4	5,871.9	17.1	10.9	-79.87	126.2	-10.9	429.6	401.6	27.93	15.378	
6,000.0	5,972.9	5,976.4	5,971.9	17.2	11.0	-79.87	126.2	-10.9	429.6	401.5	28.05	15.313	
6,100.0	6,072.9	6,076.4	6,071.9	17.2	11.1	-79.87	126.2	-10.9	429.6	401.4	28.17	15.247	
6,200.0	6,172.9	6,176.4	6,171.9	17.3	11.1	-79.87	126.2	-10.9	429.6	401.3	28.29	15.183	
6,300.0	6,272.9	6,276.4	6,271.9	17.3	11.2	-79.87	126.2	-10.9	429.6	401.2	28.41	15.118	
6,400.0	6,372.9	6,376.4	6,371.9	17.4	11.3	-79.87	126.2	-10.9	429.6	401.0	28.54	15.054	
6,500.0	6,472.9	6,476.4	6,471.9	17.4	11.4	-79.87	126.2	-10.9	429.6	400.9	28.66	14.990	
6,600.0	6,572.9	6,576.4	6,571.9	17.5	11.5	-79.87	126.2	-10.9	429.6	400.8	28.78	14.926	
6,700.0	6,672.9	6,676.4	6,671.9	17.5	11.5	-79.87	126.2	-10.9	429.6	400.7	28.90	14.863	
6,800.0	6,772.9	6,776.4	6,771.9	17.6	11.6	-79.87	126.2	-10.9	429.6	400.5	29.02	14.800	
6,900.0	6,872.9	6,876.4	6,871.9	17.6	11.7	-79.87	126.2	-10.9	429.6	400.4	29.15	14.738	
7,000.0	6,972.9	6,976.4	6,971.9	17.7	11.8	-79.87	126.2	-10.9	429.6	400.3	29.27	14.676	
7,100.0	7,072.9	7,076.4	7,071.9	17.7	11.9	-79.87	126.2	-10.9	429.6	400.2	29.39	14.614	
7,200.0	7,172.9	7,176.4	7,171.9	17.8	11.9	-79.87	126.2	-10.9	429.6	400.1	29.52	14.552	
7,300.0	7,272.9	7,276.4	7,271.9	17.8	12.0	-79.87	126.2	-10.9	429.6	399.9	29.64	14.491	
7,400.0	7,372.9	7,376.4	7,371.9	17.9	12.1	-79.87	126.2	-10.9	429.6	399.8	29.77	14.430	
7,500.0	7,472.9	7,476.4	7,471.9	17.9	12.2	-79.87	126.2	-10.9	429.6	399.7	29.89	14.370	
7,600.0	7,572.9	7,576.4	7,571.9	18.0	12.3	-79.87	126.2	-10.9	429.6	399.6	30.02	14.310	
7,700.0	7,672.9	7,676.4	7,671.9	18.0	12.3	-79.87	126.2	-10.9	429.6	399.4	30.15	14.250	
7,800.0	7,772.9	7,776.4	7,771.9	18.1	12.4	-79.87	126.2	-10.9	429.6	399.3	30.27	14.191	
7,900.0	7,872.9	7,876.4	7,871.9	18.1	12.5	-79.87	126.2	-10.9	429.6	399.2	30.40	14.131	
8,000.0	7,972.9	7,976.4	7,971.9	18.2	12.6	-79.87	126.2	-10.9	429.6	399.0	30.53	14.073	
8,100.0	8,072.9	8,076.4	8,071.9	18.2	12.6	-79.87	126.2	-10.9	429.6	398.9	30.65	14.014	
8,200.0	8,172.9	8,176.4	8,171.9	18.3	12.7	-79.87	126.2	-10.9	429.6	398.8	30.78	13.956	
8,300.0	8,272.9	8,276.4	8,271.9	18.3	12.8	-79.87	126.2	-10.9	429.6	398.7	30.91	13.898	
8,400.0	8,372.9	8,376.4	8,371.9	18.4	12.9	-79.87	126.2	-10.9	429.6	398.5	31.04	13.841	
8,500.0	8,472.9	8,476.4	8,471.9	18.4	13.0	-79.87	126.2	-10.9	429.6	398.4	31.17	13.784	
8,600.0	8,572.9	8,576.4	8,571.9	18.5	13.0	-79.87	126.2	-10.9	429.6	398.3	31.29	13.727	
8,700.0	8,672.9	8,676.4	8,671.9	18.5	13.1	-79.87	126.2	-10.9	429.6	398.1	31.42	13.670	
8,800.0	8,772.9	8,776.4	8,771.9	18.6	13.2	-79.87	126.2	-10.9	429.6	398.0	31.55	13.614	
8,900.0	8,872.9	8,876.4	8,871.9	18.7	13.3	-79.87	126.2	-10.9	429.6	397.9	31.68	13.559	
9,000.0	8,972.9	8,976.4	8,971.9	18.7	13.4	-79.87	126.2	-10.9	429.6	397.8	31.81	13.503	
9,100.0	9,072.9	9,076.4	9,071.9	18.8	13.4	-79.87	126.2	-10.9	429.6	397.6	31.94	13.448	
9,200.0	9,172.9	9,176.4	9,171.9	18.8	13.5	-79.87	126.2	-10.9	429.6	397.5	32.07	13.393	
9,300.0	9,272.9	9,276.4	9,271.9	18.9	13.6	-79.87	126.2	-10.9	429.6	397.4	32.20	13.339	
9,400.0	9,372.9	9,376.4	9,371.9	18.9	13.7	-79.87	126.2	-10.9	429.6	397.2	32.34	13.285	
9,500.0	9,472.9	9,476.4	9,471.9	19.0	13.8	-79.87	126.2	-10.9	429.6	397.1	32.47	13.231	
9,600.0	9,572.9	9,576.4	9,571.9	19.0	13.8	-79.87	126.2	-10.9	429.6	397.0	32.60	13.177	
9,700.0	9,672.9	9,676.4	9,671.9	19.1	13.9	-79.87	126.2	-10.9	429.6	396.8	32.73	13.124	
9,800.0	9,772.9	9,776.4	9,771.9	19.2	14.0	-79.87	126.2	-10.9	429.6	396.7	32.86	13.071	
9,900.0	9,872.9	9,876.4	9,871.9	19.2	14.1	-79.87	126.2	-10.9	429.6	396.6	33.00	13.019	
10,000.0	9,972.9	9,976.4	9,971.9	19.3	14.2	-79.87	126.2	-10.9	429.6	396.4	33.13	12.967	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-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	10,072.9	10,076.4	10,071.9	19.3	14.2	-79.87	126.2	-10.9	429.6	396.3	33.26	12.915	
10,200.0	10,172.9	10,176.4	10,171.9	19.4	14.3	-79.87	126.2	-10.9	429.6	396.2	33.40	12.863	
10,300.0	10,272.9	10,276.4	10,271.9	19.4	14.4	-79.87	126.2	-10.9	429.6	396.0	33.53	12.812	
10,400.0	10,372.9	10,376.4	10,371.9	19.5	14.5	-79.87	126.2	-10.9	429.6	395.9	33.66	12.761	
10,500.0	10,472.9	10,476.4	10,471.9	19.5	14.6	-79.87	126.2	-10.9	429.6	395.8	33.80	12.711	
10,600.0	10,572.9	10,576.4	10,571.9	19.6	14.6	-79.87	126.2	-10.9	429.6	395.6	33.93	12.660	
10,700.0	10,672.9	10,676.4	10,671.9	19.7	14.7	-79.87	126.2	-10.9	429.6	395.5	34.07	12.610	
10,800.0	10,772.9	10,776.4	10,771.9	19.7	14.8	-79.87	126.2	-10.9	429.6	395.4	34.20	12.561	
10,900.0	10,872.9	10,876.4	10,871.9	19.8	14.9	-79.87	126.2	-10.9	429.6	395.2	34.34	12.511	
11,000.0	10,972.9	10,976.4	10,971.9	19.8	15.0	-79.87	126.2	-10.9	429.6	395.1	34.47	12.462	
11,100.0	11,072.9	11,076.4	11,071.9	19.9	15.0	-79.87	126.2	-10.9	429.6	395.0	34.61	12.413	
11,200.0	11,172.9	11,176.4	11,171.9	20.0	15.1	-79.87	126.2	-10.9	429.6	394.8	34.74	12.365	
11,211.4	11,184.4	11,187.8	11,183.4	20.0	15.1	-79.87	126.2	-10.9	429.6	394.8	34.76	12.359	
11,300.0	11,272.9	11,275.0	11,270.6	20.0	15.2	-79.85	126.3	-10.9	429.6	394.8	34.76	12.360	
11,400.0	11,372.9	11,359.2	11,354.2	20.1	15.2	-78.66	135.4	-11.0	431.7	397.0	34.75	12.426	
11,462.6	11,435.5	11,409.6	11,402.9	20.1	15.2	-77.05	147.9	-11.1	435.3	400.6	34.69	12.546	
11,475.0	11,447.9	11,419.1	11,412.0	20.1	15.2	103.60	150.8	-11.1	436.2	401.7	34.52	12.636	
11,500.0	11,472.9	11,437.8	11,429.6	20.1	15.2	104.22	157.1	-11.2	438.8	404.3	34.49	12.723	
11,525.0	11,497.8	11,455.3	11,445.8	20.1	15.2	104.87	163.6	-11.2	442.1	407.6	34.45	12.833	
11,550.0	11,522.4	11,471.6	11,460.7	20.1	15.2	105.49	170.2	-11.3	446.3	411.9	34.41	12.968	
11,575.0	11,546.9	11,486.6	11,474.3	20.1	15.2	106.03	176.7	-11.4	451.4	417.1	34.40	13.125	
11,600.0	11,571.0	11,500.0	11,486.2	20.1	15.2	106.42	182.8	-11.4	457.7	423.3	34.40	13.306	
11,625.0	11,594.8	11,512.5	11,497.1	20.1	15.3	106.67	188.9	-11.5	465.0	430.6	34.42	13.511	
11,650.0	11,618.2	11,525.0	11,507.9	20.1	15.3	106.85	195.2	-11.5	473.5	439.1	34.44	13.750	
11,675.0	11,641.0	11,533.0	11,514.7	20.1	15.3	106.47	199.4	-11.6	483.2	448.7	34.54	13.988	
11,700.0	11,663.3	11,541.4	11,521.7	20.1	15.3	105.98	203.9	-11.6	494.0	459.4	34.65	14.260	
11,725.0	11,684.9	11,550.0	11,528.9	20.1	15.3	105.38	208.7	-11.6	506.0	471.3	34.74	14.567	
11,750.0	11,705.9	11,550.0	11,528.9	20.1	15.3	103.59	208.7	-11.6	519.1	484.1	35.01	14.826	
11,775.0	11,726.1	11,559.4	11,536.6	20.1	15.3	102.73	214.1	-11.7	533.2	498.1	35.07	15.203	
11,800.0	11,745.5	11,563.3	11,539.8	20.2	15.3	101.00	216.3	-11.7	548.2	513.0	35.23	15.560	
11,825.0	11,764.1	11,566.2	11,542.2	20.2	15.3	98.95	218.1	-11.7	564.1	528.7	35.39	15.937	
11,850.0	11,781.8	11,568.3	11,543.9	20.2	15.3	96.57	219.3	-11.7	580.7	545.2	35.55	16.334	
11,875.0	11,798.5	11,575.0	11,549.2	20.2	15.3	94.59	223.3	-11.8	598.1	562.6	35.58	16.812	
11,900.0	11,814.3	11,575.0	11,549.2	20.2	15.3	91.51	223.3	-11.8	616.1	580.3	35.73	17.242	
11,925.0	11,829.0	11,575.0	11,549.2	20.2	15.3	88.24	223.3	-11.8	634.5	598.6	35.85	17.698	
11,950.0	11,842.6	11,575.0	11,549.2	20.2	15.3	84.81	223.3	-11.8	653.3	617.4	35.94	18.178	
11,975.0	11,855.1	11,567.9	11,543.6	20.2	15.3	80.33	219.1	-11.7	672.4	636.2	36.16	18.595	
12,000.0	11,866.4	11,566.0	11,542.0	20.3	15.3	76.49	218.0	-11.7	691.7	655.5	36.23	19.095	
12,025.0	11,876.6	11,563.7	11,540.1	20.3	15.3	72.59	216.6	-11.7	711.3	675.0	36.27	19.610	
12,050.0	11,885.6	11,560.8	11,537.8	20.3	15.3	68.69	214.9	-11.7	730.8	694.5	36.29	20.136	
12,075.0	11,893.3	11,557.5	11,535.1	20.3	15.3	64.86	213.0	-11.7	750.4	714.1	36.30	20.674	
12,100.0	11,899.8	11,550.0	11,528.9	20.4	15.3	60.76	208.7	-11.6	770.0	733.6	36.36	21.174	
12,125.0	11,905.0	11,550.0	11,528.9	20.4	15.3	57.60	208.7	-11.6	789.4	753.1	36.24	21.781	
12,150.0	11,908.9	11,550.0	11,528.9	20.4	15.3	54.59	208.7	-11.6	808.6	772.5	36.10	22.402	
12,175.0	11,911.5	11,540.9	11,521.3	20.4	15.3	51.09	203.7	-11.6	827.6	791.5	36.11	22.916	
12,200.0	11,912.8	11,535.9	11,517.2	20.5	15.3	48.17	201.0	-11.6	846.3	810.3	36.02	23.493	
12,212.6	11,913.0	11,533.3	11,515.0	20.5	15.3	46.79	199.6	-11.6	855.6	819.7	35.97	23.787	
12,300.0	11,913.0	11,516.2	11,500.3	20.6	15.3	45.75	190.7	-11.5	921.4	885.8	35.63	25.863	
12,400.0	11,913.0	11,500.0	11,486.2	20.8	15.2	44.78	182.8	-11.4	999.8	964.6	35.25	28.362	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11450-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	33.52	167.3	110.8	200.7	193.7	6.98	28.754	
100.0	100.0	99.0	99.0	3.1	3.1	33.52	167.3	110.8	200.7	193.5	7.22	27.782	
200.0	200.0	199.0	199.0	3.2	3.2	33.52	167.3	110.8	200.7	193.3	7.47	26.877	
300.0	300.0	299.0	299.0	3.4	3.4	33.52	167.3	110.8	200.7	193.0	7.71	26.045	
400.0	400.0	399.0	399.0	3.5	3.5	33.52	167.3	110.8	200.7	192.8	7.94	25.274	
500.0	500.0	499.0	499.0	3.6	3.6	33.52	167.3	110.8	200.7	192.6	8.17	24.556	
600.0	600.0	599.0	599.0	3.7	3.7	33.52	167.3	110.8	200.7	192.3	8.40	23.886	
700.0	700.0	699.0	699.0	3.9	3.9	33.52	167.3	110.8	200.7	192.1	8.63	23.258	
800.0	800.0	799.0	799.0	4.0	4.0	33.52	167.3	110.8	200.7	191.9	8.85	22.668	
900.0	900.0	899.0	899.0	4.1	4.1	33.52	167.3	110.8	200.7	191.6	9.08	22.112	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	33.52	167.3	110.8	200.7	191.4	9.30	21.588	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	33.52	167.3	110.8	200.7	191.2	9.52	21.091	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	33.52	167.3	110.8	200.7	191.0	9.73	20.620	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	33.52	167.3	110.8	200.7	190.8	9.95	20.173	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	33.52	167.3	110.8	200.7	190.6	10.16	19.748	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	33.52	167.3	110.8	200.7	190.3	10.38	19.342	
1,600.0	1,600.0	1,594.7	1,594.7	4.9	4.9	-49.50	167.5	112.4	200.7	190.3	10.30	19.474	
1,700.0	1,699.8	1,690.3	1,690.2	5.1	5.1	-49.56	168.1	117.1	200.5	189.8	10.68	18.769	
1,800.0	1,799.5	1,786.0	1,785.5	5.3	5.2	-49.65	169.1	125.0	200.2	189.1	11.07	18.086	
1,900.0	1,898.7	1,885.4	1,884.3	5.6	5.5	-50.06	170.3	135.3	199.1	187.6	11.45	17.380	
2,000.0	1,997.7	1,985.3	1,983.7	5.8	5.7	-50.84	171.6	145.7	196.8	185.0	11.81	16.668	
2,100.0	2,096.8	2,085.2	2,083.1	6.1	5.9	-51.63	172.9	156.0	194.7	182.5	12.18	15.985	
2,200.0	2,195.8	2,185.2	2,182.5	6.4	6.2	-52.45	174.2	166.4	192.5	180.0	12.55	15.336	
2,300.0	2,294.8	2,285.1	2,281.9	6.7	6.5	-53.28	175.4	176.8	190.4	177.5	12.93	14.722	
2,400.0	2,393.8	2,385.0	2,381.3	7.0	6.8	-54.13	176.7	187.1	188.3	175.0	13.32	14.143	
2,500.0	2,492.9	2,485.0	2,480.7	7.3	7.1	-55.00	178.0	197.5	186.3	172.6	13.70	13.600	
2,600.0	2,591.9	2,584.9	2,580.1	7.6	7.4	-55.89	179.3	207.9	184.3	170.3	14.08	13.091	
2,700.0	2,690.9	2,684.9	2,679.5	8.0	7.7	-56.79	180.5	218.2	182.4	167.9	14.46	12.616	
2,800.0	2,789.9	2,784.8	2,778.9	8.3	8.1	-57.72	181.8	228.6	180.5	165.7	14.83	12.174	
2,900.0	2,889.0	2,884.7	2,878.3	8.7	8.4	-58.67	183.1	239.0	178.7	163.5	15.19	11.761	
3,000.0	2,988.0	2,984.7	2,977.6	9.0	8.7	-59.63	184.3	249.3	176.9	161.3	15.55	11.378	
3,100.0	3,087.0	3,084.6	3,077.0	9.4	9.1	-60.62	185.6	259.7	175.1	159.2	15.89	11.021	
3,200.0	3,186.1	3,184.6	3,176.4	9.8	9.4	-61.62	186.9	270.1	173.5	157.2	16.22	10.691	
3,300.0	3,285.1	3,284.5	3,275.8	10.2	9.8	-62.64	188.2	280.4	171.8	155.3	16.55	10.384	
3,400.0	3,384.1	3,384.4	3,375.2	10.6	10.2	-63.69	189.4	290.8	170.2	153.4	16.86	10.099	
3,500.0	3,483.1	3,484.4	3,474.6	10.9	10.5	-64.75	190.7	301.2	168.7	151.6	17.15	9.836	
3,600.0	3,582.2	3,584.3	3,574.0	11.3	10.9	-65.83	192.0	311.5	167.3	149.8	17.44	9.592	
3,700.0	3,681.2	3,684.3	3,673.4	11.7	11.3	-66.93	193.3	321.9	165.9	148.2	17.71	9.367	
3,800.0	3,780.2	3,784.2	3,772.8	12.1	11.6	-68.05	194.5	332.3	164.5	146.6	17.96	9.159	
3,900.0	3,879.2	3,884.1	3,872.2	12.5	12.0	-69.18	195.8	342.7	163.3	145.0	18.21	8.966	
4,000.0	3,978.3	3,984.1	3,971.6	12.9	12.4	-70.33	197.1	353.0	162.0	143.6	18.44	8.788	
4,100.0	4,077.3	4,084.0	4,071.0	13.3	12.7	-71.50	198.3	363.4	160.9	142.2	18.66	8.624	
4,200.0	4,176.3	4,184.5	4,170.9	13.7	13.1	-72.81	199.6	373.5	159.7	140.9	18.83	8.483	
4,281.5	4,257.0	4,266.5	4,252.6	14.1	13.4	-74.32	200.4	380.5	158.5	139.6	18.91	8.383	
4,300.0	4,275.3	4,285.1	4,271.2	14.1	13.5	-74.71	200.6	381.9	158.2	139.3	18.91	8.366	
4,400.0	4,374.5	4,385.6	4,371.4	14.5	13.8	-76.83	201.4	388.7	156.7	137.7	19.00	8.249	
4,500.0	4,473.9	4,486.0	4,471.7	14.9	14.2	-78.99	202.1	393.6	155.5	136.4	19.06	8.156	
4,600.0	4,573.5	4,586.3	4,571.9	15.3	14.5	-81.19	202.5	396.8	154.4	135.3	19.12	8.075	
4,700.0	4,673.2	4,686.5	4,672.1	15.7	14.7	-83.41	202.6	398.3	153.6	134.4	19.19	8.002	
4,800.0	4,773.0	4,786.4	4,772.0	16.0	14.8	-85.52	202.6	398.4	153.1	133.8	19.26	7.946	
4,900.0	4,873.0	4,886.3	4,872.0	16.3	14.8	-87.03	202.6	398.4	152.8	133.4	19.39	7.879	
5,000.0	4,972.9	4,986.3	4,971.9	16.6	14.9	-87.88	202.6	398.4	152.7	133.1	19.56	7.808	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11450-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
5,081.5	5,054.4	5,067.8	5,053.4	16.7	14.9	-5.10	202.6	398.4	152.7	133.0	19.68	7.758	
5,100.0	5,072.9	5,086.3	5,071.9	16.7	14.9	-5.10	202.6	398.4	152.7	133.0	19.70	7.751	
5,200.0	5,172.9	5,186.3	5,171.9	16.8	15.0	-5.10	202.6	398.4	152.7	132.8	19.88	7.680	
5,300.0	5,272.9	5,286.3	5,271.9	16.8	15.0	-5.10	202.6	398.4	152.7	132.6	20.04	7.616	
5,400.0	5,372.9	5,386.3	5,371.9	16.9	15.1	-5.10	202.6	398.4	152.7	132.5	20.21	7.554	
5,500.0	5,472.9	5,486.3	5,471.9	16.9	15.1	-5.10	202.6	398.4	152.7	132.3	20.38	7.493	
5,600.0	5,572.9	5,586.3	5,571.9	17.0	15.2	-5.10	202.6	398.4	152.7	132.1	20.54	7.432	
5,700.0	5,672.9	5,686.3	5,671.9	17.0	15.3	-5.10	202.6	398.4	152.7	132.0	20.71	7.373	
5,800.0	5,772.9	5,786.3	5,771.9	17.1	15.3	-5.10	202.6	398.4	152.7	131.8	20.87	7.315	
5,900.0	5,872.9	5,886.3	5,871.9	17.1	15.4	-5.10	202.6	398.4	152.7	131.6	21.04	7.257	
6,000.0	5,972.9	5,986.3	5,971.9	17.2	15.4	-5.10	202.6	398.4	152.7	131.5	21.20	7.201	
6,100.0	6,072.9	6,086.3	6,071.9	17.2	15.5	-5.10	202.6	398.4	152.7	131.3	21.37	7.145	
6,200.0	6,172.9	6,186.3	6,171.9	17.3	15.5	-5.10	202.6	398.4	152.7	131.1	21.53	7.091	
6,300.0	6,272.9	6,286.3	6,271.9	17.3	15.6	-5.10	202.6	398.4	152.7	131.0	21.70	7.037	
6,400.0	6,372.9	6,386.3	6,371.9	17.4	15.6	-5.10	202.6	398.4	152.7	130.8	21.86	6.984	
6,500.0	6,472.9	6,486.3	6,471.9	17.4	15.7	-5.10	202.6	398.4	152.7	130.6	22.03	6.931	
6,600.0	6,572.9	6,586.3	6,571.9	17.5	15.7	-5.10	202.6	398.4	152.7	130.5	22.19	6.880	
6,700.0	6,672.9	6,686.3	6,671.9	17.5	15.8	-5.10	202.6	398.4	152.7	130.3	22.35	6.829	
6,800.0	6,772.9	6,786.3	6,771.9	17.6	15.9	-5.10	202.6	398.4	152.7	130.1	22.52	6.779	
6,900.0	6,872.9	6,886.3	6,871.9	17.6	15.9	-5.10	202.6	398.4	152.7	130.0	22.68	6.730	
7,000.0	6,972.9	6,986.3	6,971.9	17.7	16.0	-5.10	202.6	398.4	152.7	129.8	22.85	6.682	
7,100.0	7,072.9	7,086.3	7,071.9	17.7	16.0	-5.10	202.6	398.4	152.7	129.7	23.01	6.634	
7,200.0	7,172.9	7,186.3	7,171.9	17.8	16.1	-5.10	202.6	398.4	152.7	129.5	23.18	6.587	
7,300.0	7,272.9	7,286.3	7,271.9	17.8	16.1	-5.10	202.6	398.4	152.7	129.3	23.34	6.541	
7,400.0	7,372.9	7,386.3	7,371.9	17.9	16.2	-5.10	202.6	398.4	152.7	129.2	23.51	6.495	
7,500.0	7,472.9	7,486.3	7,471.9	17.9	16.3	-5.10	202.6	398.4	152.7	129.0	23.67	6.450	
7,600.0	7,572.9	7,586.3	7,571.9	18.0	16.3	-5.10	202.6	398.4	152.7	128.8	23.83	6.406	
7,700.0	7,672.9	7,686.3	7,671.9	18.0	16.4	-5.10	202.6	398.4	152.7	128.7	24.00	6.362	
7,800.0	7,772.9	7,786.3	7,771.9	18.1	16.4	-5.10	202.6	398.4	152.7	128.5	24.16	6.319	
7,900.0	7,872.9	7,886.3	7,871.9	18.1	16.5	-5.10	202.6	398.4	152.7	128.3	24.33	6.276	
8,000.0	7,972.9	7,986.3	7,971.9	18.2	16.6	-5.10	202.6	398.4	152.7	128.2	24.49	6.234	
8,100.0	8,072.9	8,086.3	8,071.9	18.2	16.6	-5.10	202.6	398.4	152.7	128.0	24.65	6.192	
8,200.0	8,172.9	8,186.3	8,171.9	18.3	16.7	-5.10	202.6	398.4	152.7	127.8	24.82	6.152	
8,300.0	8,272.9	8,286.3	8,271.9	18.3	16.7	-5.10	202.6	398.4	152.7	127.7	24.98	6.111	
8,400.0	8,372.9	8,386.3	8,371.9	18.4	16.8	-5.10	202.6	398.4	152.7	127.5	25.15	6.071	
8,500.0	8,472.9	8,486.3	8,471.9	18.4	16.8	-5.10	202.6	398.4	152.7	127.4	25.31	6.032	
8,600.0	8,572.9	8,586.3	8,571.9	18.5	16.9	-5.10	202.6	398.4	152.7	127.2	25.47	5.993	
8,700.0	8,672.9	8,686.3	8,671.9	18.5	17.0	-5.10	202.6	398.4	152.7	127.0	25.64	5.955	
8,800.0	8,772.9	8,786.3	8,771.9	18.6	17.0	-5.10	202.6	398.4	152.7	126.9	25.80	5.917	
8,900.0	8,872.9	8,886.3	8,871.9	18.7	17.1	-5.10	202.6	398.4	152.7	126.7	25.96	5.880	
9,000.0	8,972.9	8,986.3	8,971.9	18.7	17.1	-5.10	202.6	398.4	152.7	126.5	26.13	5.843	
9,100.0	9,072.9	9,086.3	9,071.9	18.8	17.2	-5.10	202.6	398.4	152.7	126.4	26.29	5.807	
9,200.0	9,172.9	9,186.3	9,171.9	18.8	17.3	-5.10	202.6	398.4	152.7	126.2	26.45	5.771	
9,300.0	9,272.9	9,286.3	9,271.9	18.9	17.3	-5.10	202.6	398.4	152.7	126.0	26.62	5.736	
9,400.0	9,372.9	9,386.3	9,371.9	18.9	17.4	-5.10	202.6	398.4	152.7	125.9	26.78	5.701	
9,500.0	9,472.9	9,486.3	9,471.9	19.0	17.5	-5.10	202.6	398.4	152.7	125.7	26.94	5.666	
9,600.0	9,572.9	9,586.3	9,571.9	19.0	17.5	-5.10	202.6	398.4	152.7	125.6	27.11	5.632	
9,700.0	9,672.9	9,686.3	9,671.9	19.1	17.6	-5.10	202.6	398.4	152.7	125.4	27.27	5.598	
9,800.0	9,772.9	9,786.3	9,771.9	19.2	17.6	-5.10	202.6	398.4	152.7	125.2	27.43	5.565	
9,900.0	9,872.9	9,886.3	9,871.9	19.2	17.7	-5.10	202.6	398.4	152.7	125.1	27.60	5.532	
10,000.0	9,972.9	9,986.3	9,971.9	19.3	17.8	-5.10	202.6	398.4	152.7	124.9	27.76	5.499	
10,100.0	10,072.9	10,086.3	10,071.9	19.3	17.8	-5.10	202.6	398.4	152.7	124.7	27.92	5.467	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11450-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			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	
10,200.0	10,172.9	10,186.3	10,171.9	19.4	17.9	-5.10	202.6	398.4	152.7	124.6	28.09	5.435		
10,300.0	10,272.9	10,286.3	10,271.9	19.4	18.0	-5.10	202.6	398.4	152.7	124.4	28.25	5.404		
10,400.0	10,372.9	10,386.3	10,371.9	19.5	18.0	-5.10	202.6	398.4	152.7	124.3	28.41	5.373		
10,500.0	10,472.9	10,486.3	10,471.9	19.5	18.1	-5.10	202.6	398.4	152.7	124.1	28.58	5.342		
10,600.0	10,572.9	10,586.3	10,571.9	19.6	18.1	-5.10	202.6	398.4	152.7	123.9	28.74	5.312		
10,700.0	10,672.9	10,686.3	10,671.9	19.7	18.2	-5.10	202.6	398.4	152.7	123.8	28.90	5.282		
10,800.0	10,772.9	10,786.3	10,771.9	19.7	18.3	-5.10	202.6	398.4	152.7	123.6	29.07	5.252		
10,900.0	10,872.9	10,886.3	10,871.9	19.8	18.3	-5.10	202.6	398.4	152.7	123.4	29.23	5.223		
11,000.0	10,972.9	10,986.3	10,971.9	19.8	18.4	-5.10	202.6	398.4	152.7	123.3	29.39	5.194		
11,100.0	11,072.9	11,086.3	11,071.9	19.9	18.5	-5.10	202.6	398.4	152.7	123.1	29.56	5.165		
11,200.0	11,172.9	11,186.3	11,171.9	20.0	18.5	-5.10	202.6	398.4	152.7	122.9	29.72	5.137		
11,300.0	11,272.9	11,286.3	11,271.9	20.0	18.6	-5.10	202.6	398.4	152.7	122.8	29.88	5.109		
11,400.0	11,372.9	11,386.3	11,371.9	20.1	18.6	-5.10	202.6	398.4	152.7	122.6	30.04	5.081		
11,462.6	11,435.5	11,448.9	11,434.5	20.1	18.7	-5.10	202.6	398.4	152.7	122.6	30.11	5.070	CC, ES, SF	
11,475.0	11,447.9	11,458.5	11,444.2	20.1	18.7	175.28	202.7	398.4	152.9	123.0	29.92	5.112		
11,500.0	11,472.9	11,475.0	11,460.6	20.1	18.7	175.30	203.3	398.4	155.2	125.1	30.07	5.160		
11,525.0	11,497.8	11,495.9	11,481.4	20.1	18.7	175.36	204.9	398.4	159.7	129.5	30.20	5.286		
11,550.0	11,522.4	11,513.8	11,499.3	20.1	18.7	175.43	206.9	398.4	166.4	135.9	30.45	5.463		
11,575.0	11,546.9	11,531.1	11,516.3	20.1	18.7	175.51	209.5	398.3	175.2	144.4	30.75	5.696		
11,600.0	11,571.0	11,550.0	11,534.9	20.1	18.7	175.62	213.1	398.3	186.0	155.0	30.97	6.006		
11,625.0	11,594.8	11,562.8	11,547.4	20.1	18.7	175.66	215.9	398.3	198.7	167.2	31.48	6.311		
11,650.0	11,618.2	11,575.0	11,559.2	20.1	18.7	175.68	218.9	398.3	213.2	181.2	32.00	6.662		
11,675.0	11,641.0	11,590.1	11,573.7	20.1	18.7	175.73	223.1	398.2	229.2	196.9	32.28	7.100		
11,700.0	11,663.3	11,600.0	11,583.2	20.1	18.7	175.68	226.0	398.2	246.7	213.9	32.80	7.522		
11,725.0	11,684.9	11,612.7	11,595.2	20.1	18.7	175.66	230.1	398.2	265.5	232.4	33.07	8.029		
11,750.0	11,705.9	11,625.0	11,606.7	20.1	18.7	175.61	234.4	398.1	285.5	252.2	33.29	8.577		
11,775.0	11,726.1	11,630.6	11,612.0	20.1	18.7	175.38	236.4	398.1	306.5	272.7	33.77	9.075		
11,800.0	11,745.5	11,637.9	11,618.7	20.2	18.7	175.13	239.2	398.1	328.3	294.3	34.08	9.634		
11,825.0	11,764.1	11,644.1	11,624.4	20.2	18.7	174.76	241.6	398.1	351.0	316.6	34.36	10.215		
11,850.0	11,781.8	11,650.0	11,629.8	20.2	18.7	174.25	244.0	398.0	374.2	339.7	34.57	10.825		
11,875.0	11,798.5	11,650.0	11,629.8	20.2	18.7	173.23	244.0	398.0	398.0	363.1	34.97	11.383		
11,900.0	11,814.3	11,656.8	11,636.0	20.2	18.7	172.19	246.8	398.0	422.2	387.2	35.00	12.063		
11,925.0	11,829.0	11,659.3	11,638.3	20.2	18.7	170.10	247.8	398.0	446.7	411.6	35.15	12.710		
11,950.0	11,842.6	11,661.0	11,639.9	20.2	18.7	165.93	248.6	398.0	471.5	436.2	35.27	13.369		
11,975.0	11,855.1	11,662.0	11,640.8	20.2	18.7	154.33	249.0	398.0	496.4	461.0	35.36	14.039		
12,000.0	11,866.4	11,662.4	11,641.1	20.3	18.7	90.61	249.1	398.0	521.4	486.0	35.42	14.719		
12,025.0	11,876.6	11,662.1	11,640.8	20.3	18.7	24.33	249.0	398.0	546.4	510.9	35.46	15.409		
12,050.0	11,885.6	11,661.2	11,640.0	20.3	18.7	12.33	248.6	398.0	571.3	535.8	35.47	16.107		
12,075.0	11,893.3	11,659.8	11,638.7	20.3	18.7	8.05	248.0	398.0	596.1	560.6	35.46	16.811		
12,100.0	11,899.8	11,657.8	11,637.0	20.4	18.7	5.89	247.2	398.0	620.7	585.3	35.42	17.522		
12,125.0	11,905.0	11,650.0	11,629.8	20.4	18.7	4.45	244.0	398.0	645.1	609.6	35.52	18.164		
12,150.0	11,908.9	11,650.0	11,629.8	20.4	18.7	3.70	244.0	398.0	669.2	633.8	35.36	18.922		
12,175.0	11,911.5	11,650.0	11,629.8	20.4	18.7	3.16	244.0	398.0	692.9	657.7	35.19	19.688		
12,200.0	11,912.8	11,650.0	11,629.8	20.5	18.7	2.75	244.0	398.0	716.3	681.3	35.00	20.463		
12,212.6	11,913.0	11,650.0	11,629.8	20.5	18.7	2.58	244.0	398.0	728.0	693.1	34.90	20.858		
12,300.0	11,913.0	11,625.0	11,606.7	20.6	18.7	2.38	234.4	398.1	808.7	773.9	34.80	23.241		
12,400.0	11,913.0	11,625.0	11,606.7	20.8	18.7	2.38	234.4	398.1	902.1	867.9	34.21	26.366		
12,500.0	11,913.0	11,600.0	11,583.2	21.0	18.7	2.20	226.0	398.2	996.3	962.2	34.17	29.160		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11314-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	42.08	150.6	136.0	202.9	195.9	6.98	29.064	
100.0	100.0	100.0	100.0	3.1	3.1	42.08	150.6	136.0	202.9	195.7	7.23	28.075	
200.0	200.0	200.0	200.0	3.2	3.2	42.08	150.6	136.0	202.9	195.4	7.47	27.171	
300.0	300.0	300.0	300.0	3.4	3.4	42.08	150.6	136.0	202.9	195.2	7.70	26.338	
400.0	400.0	400.0	400.0	3.5	3.5	42.08	150.6	136.0	202.9	195.0	7.93	25.569	
500.0	500.0	500.0	500.0	3.6	3.6	42.08	150.6	136.0	202.9	194.7	8.16	24.855	
600.0	600.0	600.0	600.0	3.7	3.7	42.08	150.6	136.0	202.9	194.5	8.39	24.190	
700.0	700.0	700.0	700.0	3.9	3.9	42.08	150.6	136.0	202.9	194.3	8.61	23.568	
800.0	800.0	800.0	800.0	4.0	4.0	42.08	150.6	136.0	202.9	194.1	8.83	22.985	
900.0	900.0	900.0	900.0	4.1	4.1	42.08	150.6	136.0	202.9	193.8	9.04	22.436	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	42.08	150.6	136.0	202.9	193.6	9.26	21.919	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	42.08	150.6	136.0	202.9	193.4	9.47	21.430	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	42.08	150.6	136.0	202.9	193.2	9.68	20.966	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	42.08	150.6	136.0	202.9	193.0	9.88	20.527	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	42.08	150.6	136.0	202.9	192.8	10.09	20.109	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	42.08	150.6	136.0	202.9	192.6	10.29	19.711	
1,600.0	1,600.0	1,595.1	1,595.1	4.9	4.9	-40.93	150.7	137.5	202.8	192.5	10.24	19.799	
1,700.0	1,699.8	1,690.1	1,690.0	5.1	5.0	-40.94	151.1	142.3	202.5	191.8	10.65	19.011	
1,800.0	1,799.5	1,785.2	1,784.8	5.3	5.2	-40.97	151.8	150.1	202.0	190.9	11.07	18.239	
1,900.0	1,898.7	1,880.3	1,879.2	5.6	5.5	-41.00	152.8	161.1	201.2	189.7	11.51	17.480	
1,934.0	1,932.4	1,912.7	1,911.2	5.7	5.6	-40.97	153.2	165.5	201.1	189.4	11.65	17.260 CC, ES	
2,000.0	1,997.7	1,975.4	1,973.2	5.8	5.8	-40.72	154.0	175.2	201.6	189.7	11.93	16.906	
2,100.0	2,096.8	2,074.1	2,070.4	6.1	6.1	-39.99	155.5	192.1	203.8	191.4	12.36	16.483	
2,200.0	2,195.8	2,174.0	2,168.9	6.4	6.4	-39.24	157.0	209.4	206.1	193.3	12.83	16.060	
2,300.0	2,294.8	2,274.0	2,267.3	6.7	6.7	-38.50	158.5	226.7	208.4	195.1	13.33	15.634	
2,400.0	2,393.8	2,373.9	2,365.7	7.0	7.0	-37.78	160.0	244.0	210.8	196.9	13.86	15.209	
2,500.0	2,492.9	2,473.8	2,464.1	7.3	7.3	-37.08	161.6	261.3	213.2	198.8	14.41	14.790	
2,600.0	2,591.9	2,573.8	2,562.5	7.6	7.7	-36.40	163.1	278.6	215.6	200.6	14.99	14.379	
2,700.0	2,690.9	2,673.7	2,660.9	8.0	8.0	-35.73	164.6	295.9	218.1	202.5	15.60	13.980	
2,800.0	2,789.9	2,773.7	2,759.4	8.3	8.4	-35.07	166.1	313.2	220.6	204.3	16.22	13.595	
2,900.0	2,889.0	2,873.6	2,857.8	8.7	8.8	-34.43	167.6	330.4	223.1	206.2	16.87	13.224	
3,000.0	2,988.0	2,973.5	2,956.2	9.0	9.1	-33.80	169.1	347.7	225.6	208.1	17.53	12.868	
3,100.0	3,087.0	3,073.5	3,054.6	9.4	9.5	-33.19	170.6	365.0	228.2	210.0	18.21	12.528	
3,200.0	3,186.1	3,173.4	3,153.0	9.8	9.9	-32.59	172.1	382.3	230.8	211.9	18.91	12.203	
3,300.0	3,285.1	3,273.3	3,251.5	10.2	10.3	-32.01	173.7	399.6	233.4	213.8	19.62	11.894	
3,400.0	3,384.1	3,373.3	3,349.9	10.6	10.7	-31.44	175.2	416.9	236.0	215.7	20.35	11.600	
3,500.0	3,483.1	3,473.2	3,448.3	10.9	11.1	-30.88	176.7	434.2	238.7	217.6	21.09	11.320	
3,600.0	3,582.2	3,573.2	3,546.7	11.3	11.5	-30.33	178.2	451.5	241.4	219.5	21.84	11.055	
3,700.0	3,681.2	3,673.1	3,645.1	11.7	12.0	-29.79	179.7	468.8	244.1	221.5	22.60	10.803	
3,800.0	3,780.2	3,773.0	3,743.6	12.1	12.4	-29.27	181.2	486.0	246.8	223.5	23.37	10.563	
3,900.0	3,879.2	3,873.0	3,842.0	12.5	12.8	-28.76	182.7	503.3	249.6	225.4	24.15	10.336	
4,000.0	3,978.3	3,972.9	3,940.4	12.9	13.2	-28.26	184.2	520.6	252.3	227.4	24.93	10.121	
4,100.0	4,077.3	4,072.8	4,038.8	13.3	13.6	-27.77	185.8	537.9	255.1	229.4	25.73	9.916	
4,200.0	4,176.3	4,172.8	4,137.2	13.7	14.1	-27.29	187.3	555.2	257.9	231.4	26.53	9.721	
4,281.5	4,257.0	4,254.2	4,217.4	14.1	14.4	-26.91	188.5	569.3	260.2	233.1	27.18	9.574	
4,300.0	4,275.3	4,272.7	4,235.7	14.1	14.5	-26.82	188.8	572.5	260.8	233.5	27.32	9.544	
4,400.0	4,374.5	4,372.6	4,334.0	14.5	14.9	-26.26	190.3	589.8	264.7	236.5	28.16	9.400	
4,500.0	4,473.9	4,472.4	4,432.3	14.9	15.4	-25.57	191.8	607.0	270.2	241.2	29.00	9.318	
4,600.0	4,573.5	4,572.1	4,530.5	15.3	15.8	-24.76	193.3	624.3	277.3	247.5	29.85	9.291 SF	
4,700.0	4,673.2	4,672.4	4,629.3	15.7	16.2	-23.85	194.8	641.6	286.1	255.4	30.69	9.320	
4,800.0	4,773.0	4,774.2	4,729.6	16.0	16.6	-22.92	196.3	658.4	295.8	264.3	31.54	9.378	
4,900.0	4,873.0	4,875.9	4,830.1	16.3	17.1	-21.99	197.7	674.3	306.4	274.1	32.38	9.465	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11314-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
5,000.0	4,972.9	4,977.7	4,930.7	16.6	17.5	-21.07	199.0	689.4	318.0	284.8	33.17	9.586	
5,081.5	5,054.4	5,060.6	5,012.8	16.7	17.9	62.66	200.0	701.0	328.0	294.3	33.71	9.730	
5,100.0	5,072.9	5,079.4	5,031.5	16.7	17.9	62.83	200.2	703.5	330.3	296.5	33.81	9.770	
5,200.0	5,172.9	5,181.3	5,132.5	16.8	18.4	63.68	201.4	716.8	342.5	308.1	34.38	9.962	
5,300.0	5,272.9	5,283.5	5,233.9	16.8	18.8	64.41	202.5	729.2	353.9	319.0	34.93	10.133	
5,400.0	5,372.9	5,385.9	5,335.6	16.9	19.2	65.06	203.5	740.8	364.5	329.1	35.45	10.283	
5,500.0	5,472.9	5,488.4	5,437.6	16.9	19.6	65.62	204.4	751.4	374.4	338.4	35.96	10.410	
5,600.0	5,572.9	5,591.2	5,539.9	17.0	20.0	66.11	205.3	761.2	383.4	346.9	36.46	10.515	
5,700.0	5,672.9	5,694.1	5,642.5	17.0	20.4	66.53	206.1	770.1	391.6	354.6	36.94	10.600	
5,800.0	5,772.9	5,797.2	5,745.2	17.1	20.8	66.89	206.8	778.0	398.9	361.5	37.41	10.665	
5,900.0	5,872.9	5,900.4	5,848.2	17.1	21.1	67.21	207.4	785.1	405.5	367.6	37.85	10.711	
6,000.0	5,972.9	6,003.7	5,951.4	17.2	21.5	67.47	207.9	791.2	411.1	372.8	38.28	10.739	
6,100.0	6,072.9	6,107.2	6,054.7	17.2	21.9	67.68	208.4	796.4	416.0	377.3	38.70	10.749	
6,200.0	6,172.9	6,210.7	6,158.1	17.3	22.2	67.86	208.7	800.7	419.9	380.8	39.09	10.743	
6,300.0	6,272.9	6,314.3	6,261.6	17.3	22.5	67.99	209.0	804.0	423.0	383.6	39.46	10.721	
6,400.0	6,372.9	6,417.9	6,365.2	17.4	22.8	68.09	209.3	806.5	425.3	385.5	39.79	10.686	
6,500.0	6,472.9	6,521.6	6,468.9	17.4	23.1	68.15	209.4	807.9	426.6	386.5	40.09	10.641	
6,600.0	6,572.9	6,625.3	6,572.6	17.5	23.3	68.17	209.4	808.5	427.1	386.8	40.31	10.596	
6,700.0	6,672.9	6,725.6	6,672.9	17.5	23.3	68.17	209.4	808.5	427.2	386.8	40.39	10.577	
6,800.0	6,772.9	6,825.6	6,772.9	17.6	23.3	68.17	209.4	808.5	427.2	386.7	40.47	10.556	
6,900.0	6,872.9	6,925.6	6,872.9	17.6	23.4	68.17	209.4	808.5	427.2	386.6	40.55	10.534	
7,000.0	6,972.9	7,025.6	6,972.9	17.7	23.4	68.17	209.4	808.5	427.2	386.5	40.63	10.513	
7,100.0	7,072.9	7,125.6	7,072.9	17.7	23.4	68.17	209.4	808.5	427.2	386.4	40.71	10.492	
7,200.0	7,172.9	7,225.6	7,172.9	17.8	23.5	68.17	209.4	808.5	427.2	386.4	40.80	10.470	
7,300.0	7,272.9	7,325.6	7,272.9	17.8	23.5	68.17	209.4	808.5	427.2	386.3	40.88	10.449	
7,400.0	7,372.9	7,425.6	7,372.9	17.9	23.5	68.17	209.4	808.5	427.2	386.2	40.96	10.428	
7,500.0	7,472.9	7,525.6	7,472.9	17.9	23.6	68.17	209.4	808.5	427.2	386.1	41.05	10.406	
7,600.0	7,572.9	7,625.6	7,572.9	18.0	23.6	68.17	209.4	808.5	427.2	386.0	41.13	10.385	
7,700.0	7,672.9	7,725.6	7,672.9	18.0	23.6	68.17	209.4	808.5	427.2	385.9	41.22	10.363	
7,800.0	7,772.9	7,825.6	7,772.9	18.1	23.7	68.17	209.4	808.5	427.2	385.8	41.30	10.341	
7,900.0	7,872.9	7,925.6	7,872.9	18.1	23.7	68.17	209.4	808.5	427.2	385.8	41.39	10.320	
8,000.0	7,972.9	8,025.6	7,972.9	18.2	23.7	68.17	209.4	808.5	427.2	385.7	41.48	10.298	
8,100.0	8,072.9	8,125.6	8,072.9	18.2	23.8	68.17	209.4	808.5	427.2	385.6	41.57	10.277	
8,200.0	8,172.9	8,225.6	8,172.9	18.3	23.8	68.17	209.4	808.5	427.2	385.5	41.65	10.255	
8,300.0	8,272.9	8,325.6	8,272.9	18.3	23.9	68.17	209.4	808.5	427.2	385.4	41.74	10.233	
8,400.0	8,372.9	8,425.6	8,372.9	18.4	23.9	68.17	209.4	808.5	427.2	385.3	41.83	10.212	
8,500.0	8,472.9	8,525.6	8,472.9	18.4	23.9	68.17	209.4	808.5	427.2	385.2	41.92	10.190	
8,600.0	8,572.9	8,625.6	8,572.9	18.5	24.0	68.17	209.4	808.5	427.2	385.1	42.01	10.168	
8,700.0	8,672.9	8,725.6	8,672.9	18.5	24.0	68.17	209.4	808.5	427.2	385.1	42.10	10.147	
8,800.0	8,772.9	8,825.6	8,772.9	18.6	24.0	68.17	209.4	808.5	427.2	385.0	42.19	10.125	
8,900.0	8,872.9	8,925.6	8,872.9	18.7	24.1	68.17	209.4	808.5	427.2	384.9	42.28	10.103	
9,000.0	8,972.9	9,025.6	8,972.9	18.7	24.1	68.17	209.4	808.5	427.2	384.8	42.37	10.081	
9,100.0	9,072.9	9,125.6	9,072.9	18.8	24.2	68.17	209.4	808.5	427.2	384.7	42.46	10.060	
9,200.0	9,172.9	9,225.6	9,172.9	18.8	24.2	68.17	209.4	808.5	427.2	384.6	42.55	10.038	
9,300.0	9,272.9	9,325.6	9,272.9	18.9	24.2	68.17	209.4	808.5	427.2	384.5	42.65	10.016	
9,400.0	9,372.9	9,425.6	9,372.9	18.9	24.3	68.17	209.4	808.5	427.2	384.4	42.74	9.994	
9,500.0	9,472.9	9,525.6	9,472.9	19.0	24.3	68.17	209.4	808.5	427.2	384.3	42.83	9.973	
9,600.0	9,572.9	9,625.6	9,572.9	19.0	24.3	68.17	209.4	808.5	427.2	384.2	42.93	9.951	
9,700.0	9,672.9	9,725.6	9,672.9	19.1	24.4	68.17	209.4	808.5	427.2	384.1	43.02	9.929	
9,800.0	9,772.9	9,825.6	9,772.9	19.2	24.4	68.17	209.4	808.5	427.2	384.0	43.11	9.907	
9,900.0	9,872.9	9,925.6	9,872.9	19.2	24.5	68.17	209.4	808.5	427.2	383.9	43.21	9.886	
10,000.0	9,972.9	10,025.6	9,972.9	19.3	24.5	68.17	209.4	808.5	427.2	383.8	43.30	9.864	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11314-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	10,072.9	10,125.6	10,072.9	19.3	24.5	68.17	209.4	808.5	427.2	383.7	43.40	9.842	
10,200.0	10,172.9	10,225.6	10,172.9	19.4	24.6	68.17	209.4	808.5	427.2	383.7	43.50	9.820	
10,300.0	10,272.9	10,325.6	10,272.9	19.4	24.6	68.17	209.4	808.5	427.2	383.6	43.59	9.799	
10,400.0	10,372.9	10,425.6	10,372.9	19.5	24.7	68.17	209.4	808.5	427.2	383.5	43.69	9.777	
10,500.0	10,472.9	10,525.6	10,472.9	19.5	24.7	68.17	209.4	808.5	427.2	383.4	43.79	9.755	
10,600.0	10,572.9	10,625.6	10,572.9	19.6	24.7	68.17	209.4	808.5	427.2	383.3	43.88	9.733	
10,700.0	10,672.9	10,725.6	10,672.9	19.7	24.8	68.17	209.4	808.5	427.2	383.2	43.98	9.712	
10,800.0	10,772.9	10,825.6	10,772.9	19.7	24.8	68.17	209.4	808.5	427.2	383.1	44.08	9.690	
10,900.0	10,872.9	10,925.6	10,872.9	19.8	24.9	68.17	209.4	808.5	427.2	383.0	44.18	9.668	
11,000.0	10,972.9	11,025.6	10,972.9	19.8	24.9	68.17	209.4	808.5	427.2	382.9	44.28	9.647	
11,100.0	11,072.9	11,125.6	11,072.9	19.9	25.0	68.17	209.4	808.5	427.2	382.8	44.38	9.625	
11,200.0	11,172.9	11,225.6	11,172.9	20.0	25.0	68.17	209.4	808.5	427.2	382.7	44.48	9.604	
11,212.4	11,185.3	11,238.0	11,185.3	20.0	25.0	68.17	209.4	808.5	427.2	382.7	44.49	9.601	
11,300.0	11,272.9	11,322.8	11,270.1	20.0	25.0	68.16	209.5	808.5	427.2	382.7	44.50	9.600	
11,400.0	11,372.9	11,400.0	11,346.8	20.1	25.0	67.22	217.1	808.4	430.8	386.2	44.64	9.651	
11,462.6	11,435.5	11,442.4	11,388.1	20.1	25.0	66.06	226.5	808.3	436.2	391.5	44.71	9.758	
11,475.0	11,447.9	11,450.0	11,395.5	20.1	25.0	-113.66	228.6	808.3	437.7	393.1	44.63	9.808	
11,500.0	11,472.9	11,467.8	11,412.5	20.1	25.0	-114.00	233.9	808.3	441.4	396.8	44.61	9.895	
11,525.0	11,497.8	11,483.8	11,427.6	20.1	25.0	-114.29	239.2	808.2	446.2	401.6	44.58	10.007	
11,550.0	11,522.4	11,500.0	11,442.7	20.1	25.0	-114.61	245.1	808.2	452.0	407.5	44.53	10.151	
11,575.0	11,546.9	11,512.9	11,454.5	20.1	25.1	-114.70	250.2	808.1	459.0	414.5	44.49	10.316	
11,600.0	11,571.0	11,525.0	11,465.5	20.1	25.1	-114.68	255.2	808.1	467.1	422.7	44.44	10.511	
11,625.0	11,594.8	11,537.5	11,476.8	20.1	25.1	-114.61	260.7	808.0	476.5	432.1	44.36	10.742	
11,650.0	11,618.2	11,550.0	11,487.8	20.1	25.1	-114.46	266.5	808.0	487.0	442.8	44.24	11.008	
11,675.0	11,641.0	11,557.5	11,494.4	20.1	25.1	-113.73	270.1	807.9	498.8	454.6	44.20	11.285	
11,700.0	11,663.3	11,565.8	11,501.6	20.1	25.1	-112.92	274.2	807.9	511.6	467.5	44.11	11.599	
11,725.0	11,684.9	11,575.0	11,509.5	20.1	25.1	-112.03	278.9	807.9	525.6	481.6	43.98	11.952	
11,750.0	11,705.9	11,575.0	11,509.5	20.1	25.1	-109.92	278.9	807.9	540.7	496.7	44.01	12.285	
11,775.0	11,726.1	11,584.5	11,517.6	20.1	25.1	-108.69	283.9	807.8	556.6	512.8	43.83	12.700	
11,800.0	11,745.5	11,588.7	11,521.2	20.2	25.1	-106.61	286.2	807.8	573.5	529.7	43.73	13.115	
11,825.0	11,764.1	11,592.1	11,524.0	20.2	25.1	-104.16	288.0	807.8	591.1	547.5	43.62	13.550	
11,850.0	11,781.8	11,600.0	11,530.5	20.2	25.1	-102.06	292.4	807.7	609.5	566.1	43.41	14.042	
11,875.0	11,798.5	11,600.0	11,530.5	20.2	25.1	-98.64	292.4	807.7	628.5	585.1	43.34	14.502	
11,900.0	11,814.3	11,600.0	11,530.5	20.2	25.1	-94.94	292.4	807.7	647.9	604.7	43.24	14.983	
11,925.0	11,829.0	11,600.0	11,530.5	20.2	25.1	-91.00	292.4	807.7	667.8	624.7	43.13	15.484	
11,950.0	11,842.6	11,600.0	11,530.5	20.2	25.1	-86.85	292.4	807.7	688.1	645.1	43.00	16.001	
11,975.0	11,855.1	11,600.0	11,530.5	20.2	25.1	-82.56	292.4	807.7	708.6	665.7	42.85	16.535	
12,000.0	11,866.4	11,600.0	11,530.5	20.3	25.1	-78.20	292.4	807.7	729.3	686.6	42.69	17.083	
12,025.0	11,876.6	11,600.0	11,530.5	20.3	25.1	-73.82	292.4	807.7	750.1	707.6	42.51	17.645	
12,050.0	11,885.6	11,591.6	11,523.6	20.3	25.1	-68.48	287.7	807.8	770.9	728.4	42.48	18.149	
12,075.0	11,893.3	11,588.9	11,521.3	20.3	25.1	-64.06	286.3	807.8	791.7	749.3	42.32	18.708	
12,100.0	11,899.8	11,585.8	11,518.7	20.4	25.1	-59.83	284.6	807.8	812.3	770.2	42.15	19.273	
12,125.0	11,905.0	11,575.0	11,509.5	20.4	25.1	-55.18	278.9	807.9	833.0	790.9	42.10	19.783	
12,150.0	11,908.9	11,575.0	11,509.5	20.4	25.1	-51.85	278.9	807.9	853.2	811.3	41.85	20.385	
12,175.0	11,911.5	11,575.0	11,509.5	20.4	25.1	-48.76	278.9	807.9	873.2	831.6	41.59	20.994	
12,200.0	11,912.8	11,575.0	11,509.5	20.5	25.1	-45.91	278.9	807.9	893.0	851.7	41.33	21.608	
12,212.6	11,913.0	11,575.0	11,509.5	20.5	25.1	-44.56	278.9	807.9	902.9	861.7	41.19	21.921	
12,300.0	11,913.0	11,550.0	11,487.8	20.6	25.1	-43.07	266.5	808.0	971.7	931.0	40.69	23.878	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11557-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	50.29	133.8	161.2	209.5	202.5	6.98	30.010	
100.0	100.0	100.0	100.0	3.1	3.1	50.29	133.8	161.2	209.5	202.3	7.23	28.991	
200.0	200.0	200.0	200.0	3.2	3.2	50.29	133.8	161.2	209.5	202.0	7.47	28.063	
300.0	300.0	300.0	300.0	3.4	3.4	50.29	133.8	161.2	209.5	201.8	7.70	27.213	
400.0	400.0	400.0	400.0	3.5	3.5	50.29	133.8	161.2	209.5	201.6	7.93	26.429	
500.0	500.0	500.0	500.0	3.6	3.6	50.29	133.8	161.2	209.5	201.3	8.15	25.703	
600.0	600.0	600.0	600.0	3.7	3.7	50.29	133.8	161.2	209.5	201.1	8.37	25.029	
700.0	700.0	700.0	700.0	3.9	3.9	50.29	133.8	161.2	209.5	200.9	8.59	24.399	
800.0	800.0	800.0	800.0	4.0	4.0	50.29	133.8	161.2	209.5	200.7	8.80	23.810	
900.0	900.0	900.0	900.0	4.1	4.1	50.29	133.8	161.2	209.5	200.5	9.01	23.257	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	50.29	133.8	161.2	209.5	200.3	9.21	22.737	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	50.29	133.8	161.2	209.5	200.1	9.42	22.245	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	50.29	133.8	161.2	209.5	199.9	9.62	21.780	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	50.29	133.8	161.2	209.5	199.7	9.82	21.339	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	50.29	133.8	161.2	209.5	199.5	10.01	20.920	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	50.29	133.8	161.2	209.5	199.3	10.21	20.522	
1,600.0	1,600.0	1,594.5	1,594.4	4.9	4.9	-32.70	133.9	162.7	209.3	199.2	10.18	20.568	
1,700.0	1,699.8	1,688.9	1,688.8	5.1	5.0	-32.67	134.2	167.4	208.9	198.3	10.61	19.683	
1,800.0	1,799.5	1,783.4	1,782.9	5.3	5.2	-32.62	134.6	175.2	208.2	197.1	11.07	18.809	
1,900.0	1,898.7	1,877.9	1,876.8	5.6	5.5	-32.56	135.1	186.0	207.2	195.6	11.54	17.946	
1,944.1	1,942.4	1,919.6	1,918.1	5.7	5.6	-32.47	135.4	191.8	206.9	195.2	11.73	17.631 CC, ES	
2,000.0	1,997.7	1,972.4	1,970.3	5.8	5.8	-32.21	135.9	200.0	207.3	195.3	11.98	17.299	
2,100.0	2,096.8	2,066.7	2,063.0	6.1	6.1	-31.37	136.8	217.0	210.2	197.7	12.46	16.866	
2,200.0	2,195.8	2,160.7	2,154.8	6.4	6.5	-30.09	137.8	236.9	215.8	202.8	12.98	16.627	
2,300.0	2,294.8	2,257.7	2,249.0	6.7	6.8	-28.47	139.0	260.1	223.8	210.2	13.54	16.528	
2,400.0	2,393.8	2,357.1	2,345.5	7.0	7.1	-26.88	140.3	284.1	232.2	218.1	14.15	16.416	
2,500.0	2,492.9	2,456.6	2,442.0	7.3	7.5	-25.41	141.5	308.1	240.8	226.0	14.79	16.283	
2,600.0	2,591.9	2,556.0	2,538.5	7.6	7.8	-24.03	142.8	332.2	249.6	234.1	15.47	16.137	
2,700.0	2,690.9	2,655.5	2,635.0	8.0	8.2	-22.76	144.1	356.2	258.5	242.3	16.17	15.983	
2,800.0	2,789.9	2,754.9	2,731.5	8.3	8.6	-21.56	145.3	380.2	267.5	250.6	16.90	15.825	
2,900.0	2,889.0	2,854.3	2,828.0	8.7	8.9	-20.45	146.6	404.2	276.6	258.9	17.66	15.666	
3,000.0	2,988.0	2,953.8	2,924.4	9.0	9.3	-19.40	147.8	428.3	285.8	267.4	18.43	15.509	
3,100.0	3,087.0	3,053.2	3,020.9	9.4	9.8	-18.43	149.1	452.3	295.1	275.9	19.22	15.356	
3,200.0	3,186.1	3,152.7	3,117.4	9.8	10.2	-17.51	150.4	476.3	304.5	284.5	20.02	15.208	
3,300.0	3,285.1	3,252.1	3,213.9	10.2	10.6	-16.64	151.6	500.3	313.9	293.1	20.84	15.065	
3,400.0	3,384.1	3,351.6	3,310.4	10.6	11.0	-15.83	152.9	524.4	323.4	301.8	21.67	14.929	
3,500.0	3,483.1	3,451.0	3,406.9	10.9	11.4	-15.06	154.1	548.4	333.0	310.5	22.50	14.798	
3,600.0	3,582.2	3,550.4	3,503.4	11.3	11.9	-14.34	155.4	572.4	342.7	319.3	23.35	14.674	
3,700.0	3,681.2	3,649.9	3,599.9	11.7	12.3	-13.66	156.7	596.4	352.3	328.1	24.21	14.556	
3,800.0	3,780.2	3,749.3	3,696.4	12.1	12.8	-13.01	157.9	620.5	362.1	337.0	25.07	14.445	
3,900.0	3,879.2	3,848.8	3,792.9	12.5	13.2	-12.40	159.2	644.5	371.9	345.9	25.93	14.339	
4,000.0	3,978.3	3,948.2	3,889.3	12.9	13.7	-11.81	160.4	668.5	381.7	354.9	26.81	14.238	
4,100.0	4,077.3	4,047.7	3,985.8	13.3	14.1	-11.26	161.7	692.5	391.5	363.8	27.68	14.143	
4,200.0	4,176.3	4,147.1	4,082.3	13.7	14.6	-10.74	162.9	716.6	401.4	372.8	28.56	14.053	
4,281.5	4,257.0	4,228.1	4,160.9	14.1	14.9	-10.33	164.0	736.1	409.5	380.2	29.27	13.988	
4,300.0	4,275.3	4,246.6	4,178.8	14.1	15.0	-10.24	164.2	740.6	411.4	381.9	29.43	13.977	
4,400.0	4,374.5	4,345.9	4,275.2	14.5	15.5	-9.75	165.5	764.6	422.5	392.2	30.32	13.932 SF	
4,500.0	4,473.9	4,445.0	4,371.3	14.9	15.9	-9.26	166.7	788.5	435.3	404.1	31.20	13.955	
4,600.0	4,573.5	4,543.8	4,467.2	15.3	16.4	-8.76	168.0	812.4	449.9	417.9	32.06	14.036	
4,700.0	4,673.2	4,642.4	4,562.9	15.7	16.9	-8.27	169.2	836.2	466.3	433.4	32.90	14.171	
4,800.0	4,773.0	4,740.6	4,658.2	16.0	17.3	-7.78	170.5	859.9	484.4	450.6	33.73	14.360	
4,900.0	4,873.0	4,838.6	4,753.2	16.3	17.8	-7.31	171.7	883.6	504.2	469.7	34.53	14.600	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11557-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
5,000.0	4,972.9	4,936.1	4,847.9	16.6	18.2	-6.85	172.9	907.2	525.7	490.4	35.30	14.893	
5,081.5	5,054.4	5,015.3	4,924.7	16.7	18.6	76.51	173.9	926.3	544.6	508.7	35.82	15.202	
5,100.0	5,072.9	5,033.3	4,942.2	16.7	18.7	76.60	174.2	930.6	549.0	513.1	35.92	15.284	
5,200.0	5,172.9	5,130.3	5,036.3	16.8	19.1	77.03	175.4	954.1	572.8	536.3	36.48	15.701	
5,300.0	5,272.9	5,227.3	5,130.5	16.8	19.6	77.44	176.6	977.5	596.7	559.6	37.04	16.109	
5,400.0	5,372.9	5,324.4	5,224.6	16.9	20.1	77.81	177.9	1,001.0	620.6	583.0	37.60	16.504	
5,500.0	5,472.9	5,421.4	5,318.8	16.9	20.5	78.15	179.1	1,024.4	644.5	606.3	38.17	16.886	
5,600.0	5,572.9	5,518.4	5,412.9	17.0	21.0	78.47	180.3	1,047.9	668.4	629.7	38.73	17.258	
5,700.0	5,672.9	5,628.2	5,519.7	17.0	21.5	78.79	181.6	1,073.4	691.5	652.1	39.38	17.557	
5,800.0	5,772.9	5,739.4	5,628.2	17.1	22.0	79.07	182.9	1,097.2	712.7	672.7	40.03	17.803	
5,900.0	5,872.9	5,851.5	5,738.2	17.1	22.5	79.31	184.0	1,119.1	732.1	691.4	40.66	18.003	
6,000.0	5,972.9	5,964.4	5,849.3	17.2	23.0	79.52	185.1	1,138.9	749.5	708.3	41.27	18.159	
6,100.0	6,072.9	6,078.0	5,961.6	17.2	23.5	79.69	186.0	1,156.7	765.1	723.2	41.86	18.275	
6,200.0	6,172.9	6,192.4	6,074.9	17.3	24.0	79.84	186.8	1,172.3	778.6	736.2	42.42	18.354	
6,300.0	6,272.9	6,307.3	6,189.0	17.3	24.5	79.96	187.5	1,185.7	790.2	747.3	42.96	18.397	
6,400.0	6,372.9	6,422.7	6,303.9	17.4	24.9	80.06	188.1	1,196.9	799.9	756.4	43.45	18.409	
6,500.0	6,472.9	6,538.6	6,419.4	17.4	25.4	80.14	188.6	1,205.8	807.5	763.6	43.91	18.391	
6,600.0	6,572.9	6,654.7	6,535.3	17.5	25.8	80.19	188.9	1,212.4	813.1	768.8	44.32	18.347	
6,700.0	6,672.9	6,771.1	6,651.6	17.5	26.1	80.23	189.2	1,216.6	816.7	772.1	44.67	18.283	
6,800.0	6,772.9	6,887.6	6,768.1	17.6	26.4	80.24	189.3	1,218.5	818.3	773.4	44.93	18.213	
6,900.0	6,872.9	6,992.4	6,872.9	17.6	26.5	80.24	189.3	1,218.6	818.4	773.4	45.01	18.184	
7,000.0	6,972.9	7,092.4	6,972.9	17.7	26.5	80.24	189.3	1,218.6	818.4	773.3	45.08	18.155	
7,100.0	7,072.9	7,192.4	7,072.9	17.7	26.6	80.24	189.3	1,218.6	818.4	773.3	45.15	18.126	
7,200.0	7,172.9	7,292.4	7,172.9	17.8	26.6	80.24	189.3	1,218.6	818.4	773.2	45.23	18.097	
7,300.0	7,272.9	7,392.4	7,272.9	17.8	26.6	80.24	189.3	1,218.6	818.4	773.1	45.30	18.067	
7,400.0	7,372.9	7,492.4	7,372.9	17.9	26.7	80.24	189.3	1,218.6	818.4	773.1	45.37	18.038	
7,500.0	7,472.9	7,592.4	7,472.9	17.9	26.7	80.24	189.3	1,218.6	818.4	773.0	45.45	18.008	
7,600.0	7,572.9	7,692.4	7,572.9	18.0	26.7	80.24	189.3	1,218.6	818.4	772.9	45.52	17.979	
7,700.0	7,672.9	7,792.4	7,672.9	18.0	26.7	80.24	189.3	1,218.6	818.4	772.8	45.60	17.949	
7,800.0	7,772.9	7,892.4	7,772.9	18.1	26.8	80.24	189.3	1,218.6	818.4	772.8	45.67	17.919	
7,900.0	7,872.9	7,992.4	7,872.9	18.1	26.8	80.24	189.3	1,218.6	818.4	772.7	45.75	17.889	
8,000.0	7,972.9	8,092.4	7,972.9	18.2	26.8	80.24	189.3	1,218.6	818.4	772.6	45.83	17.859	
8,100.0	8,072.9	8,192.4	8,072.9	18.2	26.9	80.24	189.3	1,218.6	818.4	772.5	45.90	17.829	
8,200.0	8,172.9	8,292.4	8,172.9	18.3	26.9	80.24	189.3	1,218.6	818.4	772.4	45.98	17.799	
8,300.0	8,272.9	8,392.4	8,272.9	18.3	26.9	80.24	189.3	1,218.6	818.4	772.4	46.06	17.769	
8,400.0	8,372.9	8,492.4	8,372.9	18.4	27.0	80.24	189.3	1,218.6	818.4	772.3	46.14	17.739	
8,500.0	8,472.9	8,592.4	8,472.9	18.4	27.0	80.24	189.3	1,218.6	818.4	772.2	46.22	17.708	
8,600.0	8,572.9	8,692.4	8,572.9	18.5	27.0	80.24	189.3	1,218.6	818.4	772.1	46.30	17.678	
8,700.0	8,672.9	8,792.4	8,672.9	18.5	27.1	80.24	189.3	1,218.6	818.4	772.1	46.38	17.648	
8,800.0	8,772.9	8,892.4	8,772.9	18.6	27.1	80.24	189.3	1,218.6	818.4	772.0	46.46	17.617	
8,900.0	8,872.9	8,992.4	8,872.9	18.7	27.1	80.24	189.3	1,218.6	818.4	771.9	46.54	17.587	
9,000.0	8,972.9	9,092.4	8,972.9	18.7	27.2	80.24	189.3	1,218.6	818.4	771.8	46.62	17.556	
9,100.0	9,072.9	9,192.4	9,072.9	18.8	27.2	80.24	189.3	1,218.6	818.4	771.7	46.70	17.525	
9,200.0	9,172.9	9,292.4	9,172.9	18.8	27.2	80.24	189.3	1,218.6	818.4	771.6	46.78	17.495	
9,300.0	9,272.9	9,392.4	9,272.9	18.9	27.2	80.24	189.3	1,218.6	818.4	771.6	46.86	17.464	
9,400.0	9,372.9	9,492.4	9,372.9	18.9	27.3	80.24	189.3	1,218.6	818.4	771.5	46.95	17.433	
9,500.0	9,472.9	9,592.4	9,472.9	19.0	27.3	80.24	189.3	1,218.6	818.4	771.4	47.03	17.402	
9,600.0	9,572.9	9,692.4	9,572.9	19.0	27.4	80.24	189.3	1,218.6	818.4	771.3	47.11	17.371	
9,700.0	9,672.9	9,792.4	9,672.9	19.1	27.4	80.24	189.3	1,218.6	818.4	771.2	47.20	17.341	
9,800.0	9,772.9	9,892.4	9,772.9	19.2	27.4	80.24	189.3	1,218.6	818.4	771.1	47.28	17.310	
9,900.0	9,872.9	9,992.4	9,872.9	19.2	27.5	80.24	189.3	1,218.6	818.4	771.1	47.37	17.279	
10,000.0	9,972.9	10,092.4	9,972.9	19.3	27.5	80.24	189.3	1,218.6	818.4	771.0	47.45	17.248	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11557-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	10,072.9	10,192.4	10,072.9	19.3	27.5	80.24	189.3	1,218.6	818.4	770.9	47.54	17.217	
10,200.0	10,172.9	10,292.4	10,172.9	19.4	27.6	80.24	189.3	1,218.6	818.4	770.8	47.62	17.186	
10,300.0	10,272.9	10,392.4	10,272.9	19.4	27.6	80.24	189.3	1,218.6	818.4	770.7	47.71	17.154	
10,400.0	10,372.9	10,492.4	10,372.9	19.5	27.6	80.24	189.3	1,218.6	818.4	770.6	47.80	17.123	
10,500.0	10,472.9	10,592.4	10,472.9	19.5	27.7	80.24	189.3	1,218.6	818.4	770.5	47.88	17.092	
10,600.0	10,572.9	10,692.4	10,572.9	19.6	27.7	80.24	189.3	1,218.6	818.4	770.5	47.97	17.061	
10,700.0	10,672.9	10,792.4	10,672.9	19.7	27.7	80.24	189.3	1,218.6	818.4	770.4	48.06	17.030	
10,800.0	10,772.9	10,892.4	10,772.9	19.7	27.8	80.24	189.3	1,218.6	818.4	770.3	48.15	16.998	
10,900.0	10,872.9	10,992.4	10,872.9	19.8	27.8	80.24	189.3	1,218.6	818.4	770.2	48.24	16.967	
11,000.0	10,972.9	11,092.4	10,972.9	19.8	27.8	80.24	189.3	1,218.6	818.4	770.1	48.32	16.936	
11,100.0	11,072.9	11,192.4	11,072.9	19.9	27.9	80.24	189.3	1,218.6	818.4	770.0	48.41	16.905	
11,200.0	11,172.9	11,292.4	11,172.9	20.0	27.9	80.24	189.3	1,218.6	818.4	769.9	48.50	16.873	
11,300.0	11,272.9	11,392.4	11,272.9	20.0	28.0	80.24	189.3	1,218.6	818.4	769.8	48.59	16.842	
11,400.0	11,372.9	11,492.4	11,372.9	20.1	28.0	80.24	189.3	1,218.6	818.4	769.7	48.69	16.811	
11,462.6	11,435.5	11,555.0	11,435.5	20.1	28.0	80.24	189.3	1,218.6	818.4	769.7	48.72	16.798	
11,475.0	11,447.9	11,565.2	11,447.9	20.1	28.0	-99.39	189.3	1,218.6	818.5	769.9	48.52	16.869	
11,500.0	11,472.9	11,584.7	11,465.2	20.1	28.0	-99.47	190.1	1,218.6	818.8	770.3	48.56	16.863	
11,525.0	11,497.8	11,603.8	11,484.2	20.1	28.0	-99.62	191.5	1,218.6	819.6	771.0	48.59	16.868	
11,550.0	11,522.4	11,625.0	11,505.3	20.1	28.0	-99.88	194.1	1,218.5	820.8	772.2	48.60	16.888	
11,575.0	11,546.9	11,640.1	11,520.2	20.1	28.0	-100.07	196.5	1,218.5	822.4	773.8	48.65	16.906	
11,600.0	11,571.0	11,657.0	11,536.8	20.1	28.0	-100.32	199.7	1,218.5	824.5	775.9	48.67	16.942	
11,625.0	11,594.8	11,675.0	11,554.3	20.1	28.0	-100.64	203.8	1,218.4	827.2	778.6	48.67	16.997	
11,650.0	11,618.2	11,687.4	11,566.3	20.1	28.0	-100.75	206.9	1,218.4	830.5	781.8	48.70	17.053	
11,675.0	11,641.0	11,700.0	11,578.4	20.1	28.0	-100.84	210.5	1,218.4	834.5	785.7	48.72	17.129	
11,700.0	11,663.3	11,712.9	11,590.7	20.1	28.0	-100.91	214.5	1,218.3	839.1	790.4	48.71	17.225	
11,725.0	11,684.9	11,725.0	11,602.1	20.1	28.0	-100.89	218.5	1,218.3	844.4	795.7	48.70	17.340	
11,750.0	11,705.9	11,733.5	11,610.0	20.1	28.0	-100.62	221.5	1,218.3	850.5	801.8	48.69	17.467	
11,775.0	11,726.1	11,742.0	11,617.9	20.1	28.0	-100.27	224.6	1,218.3	857.4	808.7	48.67	17.616	
11,800.0	11,745.5	11,750.0	11,625.3	20.2	28.0	-99.81	227.7	1,218.2	865.0	816.4	48.63	17.787	
11,825.0	11,764.1	11,755.5	11,630.4	20.2	28.0	-99.10	229.9	1,218.2	873.4	824.8	48.60	17.973	
11,850.0	11,781.8	11,760.7	11,635.1	20.2	28.0	-98.27	232.0	1,218.2	882.6	834.0	48.54	18.181	
11,875.0	11,798.5	11,764.9	11,638.9	20.2	28.0	-97.27	233.8	1,218.2	892.5	844.0	48.48	18.409	
11,900.0	11,814.3	11,768.2	11,641.9	20.2	28.0	-96.09	235.2	1,218.2	903.1	854.7	48.41	18.657	
11,925.0	11,829.0	11,775.0	11,648.0	20.2	28.0	-95.06	238.1	1,218.1	914.4	866.1	48.28	18.940	
11,950.0	11,842.6	11,775.0	11,648.0	20.2	28.0	-93.44	238.1	1,218.1	926.3	878.1	48.20	19.218	
11,975.0	11,855.1	11,775.0	11,648.0	20.2	28.0	-91.72	238.1	1,218.1	938.7	890.6	48.10	19.516	
12,000.0	11,866.4	11,775.0	11,648.0	20.3	28.0	-89.89	238.1	1,218.1	951.7	903.7	47.99	19.832	
12,025.0	11,876.6	11,775.0	11,648.0	20.3	28.0	-87.97	238.1	1,218.1	965.2	917.3	47.86	20.168	
12,050.0	11,885.6	11,775.0	11,648.0	20.3	28.0	-85.97	238.1	1,218.1	979.1	931.3	47.71	20.520	
12,075.0	11,893.3	11,775.0	11,648.0	20.3	28.0	-83.90	238.1	1,218.1	993.3	945.7	47.55	20.889	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11185-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	57.88	116.9	186.2	219.9	212.9	6.98	31.497	
100.0	100.0	100.0	100.0	3.1	3.1	57.88	116.9	186.2	219.9	212.7	7.23	30.430	
200.0	200.0	200.0	200.0	3.2	3.2	57.88	116.9	186.2	219.9	212.4	7.46	29.462	
300.0	300.0	300.0	300.0	3.4	3.4	57.88	116.9	186.2	219.9	212.2	7.69	28.577	
400.0	400.0	400.0	400.0	3.5	3.5	57.88	116.9	186.2	219.9	212.0	7.92	27.764	
500.0	500.0	500.0	500.0	3.6	3.6	57.88	116.9	186.2	219.9	211.7	8.14	27.013	
600.0	600.0	600.0	600.0	3.7	3.7	57.88	116.9	186.2	219.9	211.5	8.36	26.317	
700.0	700.0	700.0	700.0	3.9	3.9	57.88	116.9	186.2	219.9	211.3	8.57	25.669	
800.0	800.0	800.0	800.0	4.0	4.0	57.88	116.9	186.2	219.9	211.1	8.77	25.063	
900.0	900.0	900.0	900.0	4.1	4.1	57.88	116.9	186.2	219.9	210.9	8.98	24.495	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	57.88	116.9	186.2	219.9	210.7	9.18	23.961	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	57.88	116.9	186.2	219.9	210.5	9.37	23.458	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	57.88	116.9	186.2	219.9	210.3	9.57	22.983	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	57.88	116.9	186.2	219.9	210.1	9.76	22.533	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	57.88	116.9	186.2	219.9	209.9	9.95	22.106	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	57.88	116.9	186.2	219.9	209.7	10.13	21.700	
1,600.0	1,600.0	1,593.8	1,593.8	4.9	4.9	-25.10	116.9	187.8	219.7	209.6	10.12	21.710	
1,700.0	1,699.8	1,687.7	1,687.5	5.1	5.0	-25.03	117.0	192.4	219.2	208.6	10.58	20.719	
1,800.0	1,799.5	1,781.5	1,781.1	5.3	5.2	-24.90	117.2	200.0	218.3	207.2	11.06	19.740	
1,900.0	1,898.7	1,875.4	1,874.3	5.6	5.5	-24.73	117.3	210.8	217.0	205.5	11.56	18.772	
1,950.1	1,948.3	1,922.4	1,920.9	5.7	5.7	-24.57	117.5	217.3	216.7	204.9	11.79	18.377 CC, ES	
2,000.0	1,997.7	1,969.2	1,967.2	5.8	5.8	-24.31	117.6	224.6	217.0	205.0	12.02	18.049	
2,100.0	2,096.8	2,063.0	2,059.3	6.1	6.1	-23.50	117.9	241.3	219.9	207.4	12.52	17.558	
2,200.0	2,195.8	2,156.3	2,150.6	6.4	6.5	-22.33	118.2	261.1	225.7	212.6	13.06	17.279	
2,300.0	2,294.8	2,249.1	2,240.6	6.7	6.8	-20.90	118.6	283.6	234.4	220.8	13.64	17.194	
2,400.0	2,393.8	2,344.4	2,332.3	7.0	7.2	-19.24	119.1	309.4	246.0	231.7	14.26	17.255	
2,500.0	2,492.9	2,443.4	2,427.5	7.3	7.5	-17.64	119.5	336.7	258.2	243.2	14.92	17.298	
2,600.0	2,591.9	2,542.4	2,522.7	7.6	7.8	-16.17	120.0	364.0	270.5	254.9	15.63	17.313	
2,700.0	2,690.9	2,641.4	2,617.8	8.0	8.2	-14.84	120.5	391.3	283.0	266.7	16.36	17.306	
2,800.0	2,789.9	2,740.4	2,713.0	8.3	8.6	-13.62	121.0	418.6	295.7	278.6	17.11	17.283	
2,900.0	2,889.0	2,839.4	2,808.2	8.7	9.0	-12.50	121.5	445.8	308.5	290.6	17.88	17.249	
3,000.0	2,988.0	2,938.4	2,903.3	9.0	9.4	-11.47	121.9	473.1	321.4	302.7	18.68	17.207	
3,100.0	3,087.0	3,037.4	2,998.5	9.4	9.8	-10.52	122.4	500.4	334.4	314.9	19.49	17.160	
3,200.0	3,186.1	3,136.4	3,093.7	9.8	10.2	-9.64	122.9	527.7	347.4	327.1	20.31	17.110	
3,300.0	3,285.1	3,235.5	3,188.9	10.2	10.6	-8.82	123.4	555.0	360.6	339.4	21.14	17.058	
3,400.0	3,384.1	3,334.5	3,284.0	10.6	11.1	-8.06	123.8	582.3	373.8	351.8	21.98	17.005	
3,500.0	3,483.1	3,433.5	3,379.2	10.9	11.5	-7.35	124.3	609.6	387.1	364.2	22.83	16.952	
3,600.0	3,582.2	3,532.5	3,474.4	11.3	11.9	-6.69	124.8	636.8	400.4	376.7	23.69	16.899	
3,700.0	3,681.2	3,631.5	3,569.5	11.7	12.4	-6.07	125.3	664.1	413.8	389.2	24.56	16.848	
3,800.0	3,780.2	3,730.5	3,664.7	12.1	12.8	-5.50	125.7	691.4	427.2	401.8	25.43	16.798	
3,900.0	3,879.2	3,829.5	3,759.9	12.5	13.3	-4.95	126.2	718.7	440.6	414.3	26.31	16.750	
4,000.0	3,978.3	3,928.5	3,855.1	12.9	13.8	-4.44	126.7	746.0	454.1	427.0	27.19	16.703	
4,100.0	4,077.3	4,027.5	3,950.2	13.3	14.2	-3.96	127.2	773.3	467.7	439.6	28.08	16.658	
4,200.0	4,176.3	4,126.5	4,045.4	13.7	14.7	-3.50	127.6	800.6	481.2	452.3	28.96	16.615	
4,281.5	4,257.0	4,207.2	4,122.9	14.1	15.1	-3.15	128.0	822.8	492.3	462.6	29.68	16.586	
4,300.0	4,275.3	4,225.5	4,140.6	14.1	15.1	-3.07	128.1	827.8	494.9	465.0	29.84	16.583	
4,400.0	4,374.5	4,324.3	4,235.6	14.5	15.6	-2.67	128.6	855.1	509.7	478.9	30.74	16.581 SF	
4,500.0	4,473.9	4,422.9	4,330.3	14.9	16.1	-2.28	129.1	882.2	526.2	494.6	31.61	16.644	
4,600.0	4,573.5	4,521.1	4,424.7	15.3	16.5	-1.90	129.5	909.3	544.5	512.0	32.48	16.765	
4,700.0	4,673.2	4,619.1	4,518.9	15.7	17.0	-1.55	130.0	936.3	564.5	531.2	33.32	16.941	
4,800.0	4,773.0	4,716.6	4,612.6	16.0	17.5	-1.22	130.5	963.2	586.2	552.1	34.15	17.167	
4,900.0	4,873.0	4,813.8	4,706.0	16.3	17.9	-0.90	130.9	990.0	609.7	574.8	34.95	17.445	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11185-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,972.9	4,910.5	4,799.0	16.6	18.4	-0.61	131.4	1,016.6	634.9	599.2	35.72	17.776		
5,081.5	5,054.4	4,989.0	4,874.4	16.7	18.8	82.61	131.8	1,038.2	656.6	620.4	36.24	18.120		
5,100.0	5,072.9	5,006.8	4,891.6	16.7	18.9	82.66	131.9	1,043.2	661.7	625.4	36.34	18.211		
5,200.0	5,172.9	5,102.9	4,984.0	16.8	19.3	82.91	132.3	1,069.6	689.1	652.2	36.90	18.675		
5,300.0	5,272.9	5,199.0	5,076.4	16.8	19.8	83.15	132.8	1,096.1	716.6	679.1	37.47	19.126		
5,400.0	5,372.9	5,295.2	5,168.8	16.9	20.3	83.36	133.3	1,122.6	744.0	706.0	38.03	19.562		
5,500.0	5,472.9	5,391.3	5,261.2	16.9	20.7	83.56	133.7	1,149.1	771.4	732.8	38.61	19.982		
5,600.0	5,572.9	5,487.4	5,353.6	17.0	21.2	83.75	134.2	1,175.6	798.9	759.7	39.18	20.388		
5,700.0	5,672.9	5,583.5	5,446.0	17.0	21.7	83.93	134.7	1,202.1	826.4	786.6	39.77	20.781		
5,800.0	5,772.9	5,679.7	5,538.4	17.1	22.2	84.09	135.1	1,228.6	853.8	813.5	40.35	21.159		
5,900.0	5,872.9	5,775.8	5,630.8	17.1	22.6	84.24	135.6	1,255.1	881.3	840.4	40.94	21.525		
6,000.0	5,972.9	5,871.9	5,723.2	17.2	23.1	84.39	136.0	1,281.6	908.8	867.2	41.54	21.879		
6,100.0	6,072.9	5,968.0	5,815.6	17.2	23.6	84.52	136.5	1,308.1	936.3	894.1	42.13	22.221		
6,200.0	6,172.9	6,064.2	5,908.0	17.3	24.0	84.65	137.0	1,334.6	963.7	921.0	42.74	22.551		
6,300.0	6,272.9	6,160.3	6,000.4	17.3	24.5	84.77	137.4	1,361.1	991.2	947.9	43.34	22.870		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	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	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-56.19	50.3	-75.1	90.4	83.4	6.98	12.946		
100.0	100.0	98.0	98.0	3.1	3.1	-56.19	50.3	-75.1	90.3	83.1	7.22	12.510		
200.0	200.0	198.0	198.0	3.2	3.2	-56.19	50.3	-75.1	90.3	82.9	7.46	12.107		
300.0	300.0	298.0	298.0	3.4	3.4	-56.19	50.3	-75.1	90.3	82.6	7.69	11.743		
400.0	400.0	398.0	398.0	3.5	3.5	-56.19	50.3	-75.1	90.3	82.4	7.92	11.407		
500.0	500.0	498.0	498.0	3.6	3.6	-56.19	50.3	-75.1	90.3	82.2	8.14	11.098		
600.0	600.0	598.0	598.0	3.7	3.7	-56.19	50.3	-75.1	90.3	82.0	8.36	10.810		
700.0	700.0	698.0	698.0	3.9	3.9	-56.19	50.3	-75.1	90.3	81.8	8.57	10.543		
800.0	800.0	798.0	798.0	4.0	4.0	-56.19	50.3	-75.1	90.3	81.6	8.78	10.293		
900.0	900.0	898.0	898.0	4.1	4.1	-56.19	50.3	-75.1	90.3	81.4	8.98	10.058		
1,000.0	1,000.0	998.0	998.0	4.2	4.2	-56.19	50.3	-75.1	90.3	81.2	9.18	9.837		
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	-56.19	50.3	-75.1	90.3	81.0	9.38	9.630		
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	-56.19	50.3	-75.1	90.3	80.8	9.58	9.433		
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	-56.19	50.3	-75.1	90.3	80.6	9.77	9.247		
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	-56.19	50.3	-75.1	90.3	80.4	9.96	9.070		
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	-56.19	50.3	-75.1	90.3	80.2	10.15	8.902 CC, ES, SF		
1,600.0	1,600.0	1,597.2	1,597.2	4.9	5.0	-140.87	49.1	-76.3	92.1	82.0	10.04	9.173		
1,700.0	1,699.8	1,695.7	1,695.6	5.1	5.2	-145.58	45.7	-79.9	97.8	87.4	10.40	9.403		
1,800.0	1,799.5	1,793.0	1,792.5	5.3	5.4	-152.17	40.0	-86.0	108.6	97.8	10.82	10.040		
1,900.0	1,898.7	1,888.4	1,887.2	5.6	5.7	-159.26	32.3	-94.3	125.7	114.4	11.32	11.108		
2,000.0	1,997.7	1,981.9	1,979.6	5.8	6.0	-165.79	22.7	-104.6	148.1	136.2	11.80	12.545		
2,100.0	2,096.8	2,073.6	2,069.8	6.1	6.3	-171.27	11.2	-116.9	174.1	161.7	12.33	14.122		
2,200.0	2,195.8	2,163.5	2,157.6	6.4	6.6	-175.83	-1.9	-131.0	203.6	190.7	12.88	15.810		
2,300.0	2,294.8	2,254.9	2,246.3	6.7	6.9	-179.69	-16.8	-147.0	236.1	222.7	13.46	17.546		
2,400.0	2,393.8	2,348.2	2,336.9	7.0	7.2	177.28	-32.2	-163.5	269.6	255.6	14.06	19.172		
2,500.0	2,492.9	2,441.6	2,427.5	7.3	7.5	174.90	-47.6	-180.0	303.7	289.0	14.69	20.674		
2,600.0	2,591.9	2,534.9	2,518.1	7.6	7.8	173.01	-63.0	-196.6	338.1	322.7	15.33	22.050		
2,700.0	2,690.9	2,628.3	2,608.6	8.0	8.2	171.46	-78.4	-213.1	372.7	356.7	15.99	23.308		
2,800.0	2,789.9	2,721.7	2,699.2	8.3	8.5	170.17	-93.8	-229.6	407.6	390.9	16.67	24.456		
2,900.0	2,889.0	2,815.0	2,789.8	8.7	8.9	169.09	-109.3	-246.1	442.6	425.3	17.36	25.503		
3,000.0	2,988.0	2,908.4	2,880.4	9.0	9.2	168.17	-124.7	-262.6	477.8	459.7	18.06	26.459		
3,100.0	3,087.0	3,001.8	2,971.0	9.4	9.6	167.37	-140.1	-279.2	513.0	494.2	18.77	27.332		
3,200.0	3,186.1	3,095.1	3,061.6	9.8	10.0	166.67	-155.5	-295.7	548.3	528.8	19.49	28.131		
3,300.0	3,285.1	3,188.5	3,152.2	10.2	10.4	166.06	-170.9	-312.2	583.7	563.5	20.22	28.862		
3,400.0	3,384.1	3,281.8	3,242.8	10.6	10.8	165.51	-186.3	-328.7	619.1	598.2	20.96	29.534		
3,500.0	3,483.1	3,375.2	3,333.3	10.9	11.2	165.03	-201.7	-345.2	654.6	632.9	21.71	30.152		
3,600.0	3,582.2	3,468.6	3,423.9	11.3	11.6	164.59	-217.1	-361.7	690.1	667.6	22.46	30.722		
3,700.0	3,681.2	3,561.9	3,514.5	11.7	12.0	164.20	-232.5	-378.3	725.6	702.4	23.22	31.248		
3,800.0	3,780.2	3,655.3	3,605.1	12.1	12.4	163.85	-247.9	-394.8	761.2	737.2	23.99	31.734		
3,900.0	3,879.2	3,748.6	3,695.7	12.5	12.8	163.52	-263.3	-411.3	796.8	772.0	24.76	32.185		
4,000.0	3,978.3	3,842.0	3,786.3	12.9	13.2	163.23	-278.7	-427.8	832.4	806.9	25.53	32.604		
4,100.0	4,077.3	3,935.4	3,876.9	13.3	13.6	162.95	-294.1	-444.3	868.0	841.7	26.31	32.994		
4,200.0	4,176.3	4,028.7	3,967.5	13.7	14.1	162.70	-309.5	-460.9	903.7	876.6	27.09	33.358		
4,281.5	4,257.0	4,104.8	4,041.3	14.1	14.4	162.51	-322.0	-474.3	932.7	905.0	27.72	33.647		
4,300.0	4,275.3	4,122.1	4,058.1	14.1	14.5	162.49	-324.9	-477.4	939.3	911.5	27.86	33.716		
4,400.0	4,374.5	4,215.8	4,149.0	14.5	14.9	162.37	-340.4	-494.0	973.9	945.3	28.65	33.989		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-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	-56.22	33.5	-50.1	60.3	53.3	6.98	8.635		
100.0	100.0	99.0	99.0	3.1	3.1	-56.22	33.5	-50.1	60.3	53.0	7.22	8.343		
200.0	200.0	199.0	199.0	3.2	3.2	-56.22	33.5	-50.1	60.3	52.8	7.46	8.076		
300.0	300.0	299.0	299.0	3.4	3.4	-56.22	33.5	-50.1	60.3	52.6	7.69	7.833		
400.0	400.0	399.0	399.0	3.5	3.5	-56.22	33.5	-50.1	60.3	52.3	7.92	7.609		
500.0	500.0	499.0	499.0	3.6	3.6	-56.22	33.5	-50.1	60.3	52.1	8.14	7.403		
600.0	600.0	599.0	599.0	3.7	3.7	-56.22	33.5	-50.1	60.3	51.9	8.36	7.211		
700.0	700.0	699.0	699.0	3.9	3.9	-56.22	33.5	-50.1	60.3	51.7	8.57	7.033		
800.0	800.0	799.0	799.0	4.0	4.0	-56.22	33.5	-50.1	60.3	51.5	8.78	6.866		
900.0	900.0	899.0	899.0	4.1	4.1	-56.22	33.5	-50.1	60.3	51.3	8.98	6.709		
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.22	33.5	-50.1	60.3	51.1	9.18	6.562		
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.22	33.5	-50.1	60.3	50.9	9.38	6.424		
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.22	33.5	-50.1	60.3	50.7	9.58	6.293		
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.22	33.5	-50.1	60.3	50.5	9.77	6.169		
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.22	33.5	-50.1	60.3	50.3	9.96	6.051		
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.22	33.5	-50.1	60.3	50.1	10.15	5.939 CC, ES		
1,600.0	1,600.0	1,598.6	1,598.6	4.9	5.0	-141.80	32.2	-51.2	61.9	51.9	10.03	6.172		
1,700.0	1,699.8	1,697.6	1,697.4	5.1	5.2	-148.75	28.4	-54.6	67.5	57.1	10.38	6.499		
1,800.0	1,799.5	1,795.3	1,794.8	5.3	5.5	-157.80	22.2	-60.3	78.6	67.8	10.82	7.264		
1,900.0	1,898.7	1,891.2	1,890.0	5.6	5.7	-166.58	13.7	-67.9	96.5	85.1	11.35	8.500		
2,000.0	1,997.7	1,985.2	1,982.9	5.8	6.0	-173.82	3.1	-77.5	119.8	108.0	11.86	10.107		
2,100.0	2,096.8	2,080.4	2,076.7	6.1	6.3	-179.33	-9.2	-88.6	146.0	133.6	12.38	11.793		
2,200.0	2,195.8	2,176.1	2,170.9	6.4	6.5	176.81	-21.6	-99.7	173.1	160.2	12.92	13.394		
2,300.0	2,294.8	2,271.8	2,265.2	6.7	6.8	174.00	-33.9	-110.8	200.7	187.2	13.49	14.881		
2,400.0	2,393.8	2,367.5	2,359.4	7.0	7.1	171.86	-46.3	-121.9	228.7	214.6	14.08	16.249		
2,500.0	2,492.9	2,463.2	2,453.7	7.3	7.4	170.20	-58.6	-133.0	256.9	242.2	14.68	17.500		
2,600.0	2,591.9	2,558.9	2,547.9	7.6	7.7	168.86	-71.0	-144.2	285.3	270.0	15.30	18.641		
2,700.0	2,690.9	2,654.6	2,642.2	8.0	8.1	167.76	-83.3	-155.3	313.8	297.8	15.94	19.681		
2,800.0	2,789.9	2,750.3	2,736.4	8.3	8.4	166.84	-95.7	-166.4	342.3	325.8	16.60	20.628		
2,900.0	2,889.0	2,846.0	2,830.6	8.7	8.8	166.07	-108.0	-177.5	371.0	353.7	17.26	21.492		
3,000.0	2,988.0	2,941.7	2,924.9	9.0	9.1	165.40	-120.4	-188.6	399.7	381.8	17.94	22.279		
3,100.0	3,087.0	3,037.4	3,019.1	9.4	9.5	164.83	-132.7	-199.8	428.4	409.8	18.63	22.999		
3,200.0	3,186.1	3,133.1	3,113.4	9.8	9.9	164.33	-145.1	-210.9	457.2	437.9	19.33	23.659		
3,300.0	3,285.1	3,228.8	3,207.6	10.2	10.2	163.88	-157.4	-222.0	486.0	466.0	20.03	24.263		
3,400.0	3,384.1	3,324.5	3,301.9	10.6	10.6	163.49	-169.8	-233.1	514.8	494.1	20.74	24.819		
3,500.0	3,483.1	3,420.2	3,396.1	10.9	11.0	163.14	-182.1	-244.2	543.7	522.2	21.46	25.330		
3,600.0	3,582.2	3,515.9	3,490.4	11.3	11.4	162.82	-194.5	-255.4	572.5	550.4	22.19	25.802		
3,700.0	3,681.2	3,611.6	3,584.6	11.7	11.8	162.54	-206.8	-266.5	601.4	578.5	22.92	26.239		
3,800.0	3,780.2	3,707.3	3,678.8	12.1	12.2	162.28	-219.2	-277.6	630.3	606.7	23.66	26.643		
3,900.0	3,879.2	3,803.0	3,773.1	12.5	12.6	162.04	-231.5	-288.7	659.2	634.8	24.40	27.018		
4,000.0	3,978.3	3,898.7	3,867.3	12.9	13.0	161.82	-243.9	-299.8	688.1	663.0	25.14	27.367		
4,100.0	4,077.3	3,994.4	3,961.6	13.3	13.4	161.62	-256.2	-310.9	717.0	691.1	25.89	27.692		
4,200.0	4,176.3	4,090.1	4,055.8	13.7	13.8	161.44	-268.6	-322.1	746.0	719.3	26.65	27.995		
4,281.5	4,257.0	4,168.1	4,132.6	14.1	14.1	161.30	-278.6	-331.1	769.5	742.3	27.25	28.238		
4,300.0	4,275.3	4,185.8	4,150.1	14.1	14.2	161.29	-280.9	-333.2	774.9	747.5	27.38	28.296		
4,400.0	4,374.5	4,281.8	4,244.6	14.5	14.6	161.19	-293.3	-344.3	802.7	774.6	28.15	28.517		
4,500.0	4,473.9	4,378.3	4,339.6	14.9	15.0	161.06	-305.7	-355.6	829.0	800.1	28.90	28.688		
4,600.0	4,573.5	4,475.1	4,435.0	15.3	15.4	160.91	-318.2	-366.8	853.7	824.1	29.64	28.803		
4,700.0	4,673.2	4,576.8	4,535.2	15.7	15.8	160.71	-331.3	-378.6	876.7	846.3	30.38	28.855		
4,800.0	4,773.0	4,691.2	4,648.0	16.0	16.3	160.48	-344.8	-390.7	896.8	865.6	31.21	28.731		
4,900.0	4,873.0	4,806.7	4,762.5	16.3	16.8	160.26	-356.6	-401.4	913.5	881.5	32.02	28.532		
5,000.0	4,972.9	4,923.2	4,878.2	16.6	17.3	160.05	-366.9	-410.6	926.7	893.9	32.77	28.283		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-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	
5,081.5	5,054.4	5,018.7	4,973.2	16.7	17.6	-117.12	-374.0	-417.0	934.9	901.6	33.26	28.109	
5,100.0	5,072.9	5,040.5	4,994.9	16.7	17.7	-117.16	-375.5	-418.3	936.4	903.1	33.34	28.083	
5,200.0	5,172.9	5,158.3	5,112.3	16.8	18.2	-117.36	-382.3	-424.5	943.7	909.8	33.85	27.882	
5,300.0	5,272.9	5,276.4	5,230.2	16.8	18.6	-117.51	-387.3	-429.0	949.0	914.7	34.30	27.666	
5,400.0	5,372.9	5,394.7	5,348.5	16.9	18.9	-117.60	-390.5	-431.9	952.5	917.8	34.72	27.436	
5,500.0	5,472.9	5,513.2	5,466.9	16.9	19.2	-117.64	-391.9	-433.1	954.0	918.9	35.04	27.225	
5,600.0	5,572.9	5,618.2	5,571.9	17.0	19.3	-117.64	-392.0	-433.2	954.0	918.9	35.12	27.163	
5,700.0	5,672.9	5,718.2	5,671.9	17.0	19.3	-117.64	-392.0	-433.2	954.0	918.8	35.20	27.105	
5,800.0	5,772.9	5,818.2	5,771.9	17.1	19.3	-117.64	-392.0	-433.2	954.0	918.8	35.27	27.047	
5,900.0	5,872.9	5,918.2	5,871.9	17.1	19.4	-117.64	-392.0	-433.2	954.0	918.7	35.35	26.988	
6,000.0	5,972.9	6,018.2	5,971.9	17.2	19.4	-117.64	-392.0	-433.2	954.0	918.6	35.43	26.930	
6,100.0	6,072.9	6,118.2	6,071.9	17.2	19.4	-117.64	-392.0	-433.2	954.0	918.5	35.50	26.871	
6,200.0	6,172.9	6,218.2	6,171.9	17.3	19.4	-117.64	-392.0	-433.2	954.0	918.4	35.58	26.812	
6,300.0	6,272.9	6,318.2	6,271.9	17.3	19.5	-117.64	-392.0	-433.2	954.0	918.4	35.66	26.753	
6,400.0	6,372.9	6,418.2	6,371.9	17.4	19.5	-117.64	-392.0	-433.2	954.0	918.3	35.74	26.693	
6,500.0	6,472.9	6,518.2	6,471.9	17.4	19.5	-117.64	-392.0	-433.2	954.0	918.2	35.82	26.634	
6,600.0	6,572.9	6,618.2	6,571.9	17.5	19.6	-117.64	-392.0	-433.2	954.0	918.1	35.90	26.574	
6,700.0	6,672.9	6,718.2	6,671.9	17.5	19.6	-117.64	-392.0	-433.2	954.0	918.0	35.98	26.515	
6,800.0	6,772.9	6,818.2	6,771.9	17.6	19.6	-117.64	-392.0	-433.2	954.0	918.0	36.06	26.455	
6,900.0	6,872.9	6,918.2	6,871.9	17.6	19.7	-117.64	-392.0	-433.2	954.0	917.9	36.14	26.395	
7,000.0	6,972.9	7,018.2	6,971.9	17.7	19.7	-117.64	-392.0	-433.2	954.0	917.8	36.23	26.334	
7,100.0	7,072.9	7,118.2	7,071.9	17.7	19.7	-117.64	-392.0	-433.2	954.0	917.7	36.31	26.274	
7,200.0	7,172.9	7,218.2	7,171.9	17.8	19.8	-117.64	-392.0	-433.2	954.0	917.6	36.39	26.214	
7,300.0	7,272.9	7,318.2	7,271.9	17.8	19.8	-117.64	-392.0	-433.2	954.0	917.6	36.48	26.153	
7,400.0	7,372.9	7,418.2	7,371.9	17.9	19.8	-117.64	-392.0	-433.2	954.0	917.5	36.56	26.093	
7,500.0	7,472.9	7,518.2	7,471.9	17.9	19.9	-117.64	-392.0	-433.2	954.0	917.4	36.65	26.032	
7,600.0	7,572.9	7,618.2	7,571.9	18.0	19.9	-117.64	-392.0	-433.2	954.0	917.3	36.73	25.971	
7,700.0	7,672.9	7,718.2	7,671.9	18.0	19.9	-117.64	-392.0	-433.2	954.0	917.2	36.82	25.911	
7,800.0	7,772.9	7,818.2	7,771.9	18.1	20.0	-117.64	-392.0	-433.2	954.0	917.1	36.91	25.850	
7,900.0	7,872.9	7,918.2	7,871.9	18.1	20.0	-117.64	-392.0	-433.2	954.0	917.0	36.99	25.789	
8,000.0	7,972.9	8,018.2	7,971.9	18.2	20.0	-117.64	-392.0	-433.2	954.0	916.9	37.08	25.728	
8,100.0	8,072.9	8,118.2	8,071.9	18.2	20.1	-117.64	-392.0	-433.2	954.0	916.9	37.17	25.667	
8,200.0	8,172.9	8,218.2	8,171.9	18.3	20.1	-117.64	-392.0	-433.2	954.0	916.8	37.26	25.605	
8,300.0	8,272.9	8,318.2	8,271.9	18.3	20.1	-117.64	-392.0	-433.2	954.0	916.7	37.35	25.544	
8,400.0	8,372.9	8,418.2	8,371.9	18.4	20.2	-117.64	-392.0	-433.2	954.0	916.6	37.44	25.483	
8,500.0	8,472.9	8,518.2	8,471.9	18.4	20.2	-117.64	-392.0	-433.2	954.0	916.5	37.53	25.422	
8,600.0	8,572.9	8,618.2	8,571.9	18.5	20.2	-117.64	-392.0	-433.2	954.0	916.4	37.62	25.360	
8,700.0	8,672.9	8,718.2	8,671.9	18.5	20.3	-117.64	-392.0	-433.2	954.0	916.3	37.71	25.299	
8,800.0	8,772.9	8,818.2	8,771.9	18.6	20.3	-117.64	-392.0	-433.2	954.0	916.2	37.80	25.238	
8,900.0	8,872.9	8,918.2	8,871.9	18.7	20.4	-117.64	-392.0	-433.2	954.0	916.1	37.89	25.176	
9,000.0	8,972.9	9,018.2	8,971.9	18.7	20.4	-117.64	-392.0	-433.2	954.0	916.0	37.99	25.115	
9,100.0	9,072.9	9,118.2	9,071.9	18.8	20.4	-117.64	-392.0	-433.2	954.0	916.0	38.08	25.054	
9,200.0	9,172.9	9,218.2	9,171.9	18.8	20.5	-117.64	-392.0	-433.2	954.0	915.9	38.17	24.992	
9,300.0	9,272.9	9,318.2	9,271.9	18.9	20.5	-117.64	-392.0	-433.2	954.0	915.8	38.27	24.931	
9,400.0	9,372.9	9,418.2	9,371.9	18.9	20.5	-117.64	-392.0	-433.2	954.0	915.7	38.36	24.870	
9,500.0	9,472.9	9,518.2	9,471.9	19.0	20.6	-117.64	-392.0	-433.2	954.0	915.6	38.46	24.808	
9,600.0	9,572.9	9,618.2	9,571.9	19.0	20.6	-117.64	-392.0	-433.2	954.0	915.5	38.55	24.747	
9,700.0	9,672.9	9,718.2	9,671.9	19.1	20.7	-117.64	-392.0	-433.2	954.0	915.4	38.65	24.686	
9,800.0	9,772.9	9,818.2	9,771.9	19.2	20.7	-117.64	-392.0	-433.2	954.0	915.3	38.74	24.624	
9,900.0	9,872.9	9,918.2	9,871.9	19.2	20.7	-117.64	-392.0	-433.2	954.0	915.2	38.84	24.563	
10,000.0	9,972.9	10,018.2	9,971.9	19.3	20.8	-117.64	-392.0	-433.2	954.0	915.1	38.94	24.502	
10,100.0	10,072.9	10,118.2	10,071.9	19.3	20.8	-117.64	-392.0	-433.2	954.0	915.0	39.03	24.441	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-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
10,200.0	10,172.9	10,218.2	10,171.9	19.4	20.9	-117.64	-392.0	-433.2	954.0	914.9	39.13	24.379	
10,300.0	10,272.9	10,318.2	10,271.9	19.4	20.9	-117.64	-392.0	-433.2	954.0	914.8	39.23	24.318	
10,400.0	10,372.9	10,418.2	10,371.9	19.5	20.9	-117.64	-392.0	-433.2	954.0	914.7	39.33	24.257	
10,500.0	10,472.9	10,518.2	10,471.9	19.5	21.0	-117.64	-392.0	-433.2	954.0	914.6	39.43	24.196	
10,600.0	10,572.9	10,618.2	10,571.9	19.6	21.0	-117.64	-392.0	-433.2	954.0	914.5	39.53	24.135	
10,700.0	10,672.9	10,718.2	10,671.9	19.7	21.1	-117.64	-392.0	-433.2	954.0	914.4	39.63	24.074	
10,800.0	10,772.9	10,818.2	10,771.9	19.7	21.1	-117.64	-392.0	-433.2	954.0	914.3	39.73	24.013	
10,900.0	10,872.9	10,918.2	10,871.9	19.8	21.2	-117.64	-392.0	-433.2	954.0	914.2	39.83	23.953	
11,000.0	10,972.9	11,018.2	10,971.9	19.8	21.2	-117.64	-392.0	-433.2	954.0	914.1	39.93	23.892	
11,100.0	11,072.9	11,118.2	11,071.9	19.9	21.2	-117.64	-392.0	-433.2	954.0	914.0	40.03	23.831	
11,200.0	11,172.9	11,218.2	11,171.9	20.0	21.3	-117.64	-392.0	-433.2	954.0	913.9	40.13	23.771	
11,300.0	11,272.9	11,318.2	11,271.9	20.0	21.3	-117.64	-392.0	-433.2	954.0	913.8	40.24	23.710	
11,400.0	11,372.9	11,418.2	11,371.9	20.1	21.4	-117.64	-392.0	-433.2	954.0	913.7	40.34	23.651	
11,441.4	11,414.3	11,459.6	11,413.3	20.1	21.4	-117.64	-392.0	-433.2	954.0	913.7	40.37	23.634	
11,462.6	11,435.5	11,479.8	11,433.5	20.1	21.4	-117.64	-392.0	-433.2	954.0	913.6	40.38	23.624	
11,475.0	11,447.9	11,486.8	11,440.5	20.1	21.4	62.74	-392.0	-433.2	954.0	913.8	40.17	23.747	
11,500.0	11,472.9	11,500.0	11,453.7	20.1	21.4	62.79	-392.4	-433.2	953.7	913.5	40.19	23.732	
11,525.0	11,497.8	11,512.9	11,466.6	20.1	21.4	62.88	-393.1	-433.2	953.2	913.0	40.20	23.708	
11,550.0	11,522.4	11,525.0	11,478.7	20.1	21.4	63.02	-394.1	-433.2	952.3	912.1	40.22	23.676	
11,575.0	11,546.9	11,539.0	11,492.6	20.1	21.4	63.21	-395.6	-433.2	951.2	911.0	40.24	23.638	
11,600.0	11,571.0	11,550.0	11,503.5	20.1	21.4	63.43	-397.1	-433.2	949.8	909.6	40.26	23.590	
11,625.0	11,594.8	11,565.1	11,518.4	20.1	21.4	63.73	-399.6	-433.1	948.2	907.9	40.28	23.538	
11,650.0	11,618.2	11,575.0	11,528.1	20.1	21.4	64.03	-401.4	-433.1	946.2	905.9	40.31	23.475	
11,675.0	11,641.0	11,591.3	11,544.0	20.1	21.4	64.44	-404.9	-433.1	944.0	903.7	40.32	23.412	
11,700.0	11,663.3	11,600.0	11,552.5	20.1	21.4	64.81	-407.0	-433.1	941.6	901.3	40.35	23.336	
11,725.0	11,684.9	11,617.5	11,569.3	20.1	21.4	65.34	-411.7	-433.1	939.0	898.6	40.36	23.264	
11,750.0	11,705.9	11,625.0	11,576.5	20.1	21.4	65.76	-413.9	-433.0	936.1	895.7	40.39	23.177	
11,775.0	11,726.1	11,643.7	11,594.2	20.1	21.4	66.41	-419.8	-433.0	933.0	892.6	40.39	23.099	
11,800.0	11,745.5	11,656.8	11,606.5	20.2	21.4	67.01	-424.4	-433.0	929.7	889.3	40.40	23.011	
11,825.0	11,764.1	11,675.0	11,623.3	20.2	21.4	67.76	-431.3	-432.9	926.3	885.9	40.40	22.928	
11,850.0	11,781.8	11,683.1	11,630.7	20.2	21.4	68.35	-434.6	-432.9	922.6	882.2	40.41	22.831	
11,875.0	11,798.5	11,700.0	11,646.0	20.2	21.5	69.16	-441.8	-432.9	918.9	878.5	40.40	22.743	
11,900.0	11,814.3	11,709.4	11,654.4	20.2	21.5	69.84	-446.1	-432.8	914.9	874.5	40.40	22.648	
11,925.0	11,829.0	11,725.0	11,668.1	20.2	21.5	70.70	-453.6	-432.8	910.9	870.6	40.38	22.560	
11,950.0	11,842.6	11,735.8	11,677.5	20.2	21.5	71.47	-459.0	-432.8	906.8	866.5	40.36	22.469	
11,975.0	11,855.1	11,750.0	11,689.5	20.2	21.5	72.36	-466.4	-432.7	902.7	862.4	40.33	22.383	
12,000.0	11,866.4	11,762.3	11,699.9	20.3	21.5	73.23	-473.1	-432.7	898.5	858.2	40.29	22.299	
12,025.0	11,876.6	11,775.0	11,710.3	20.3	21.5	74.13	-480.3	-432.6	894.3	854.0	40.25	22.220	
12,050.0	11,885.6	11,788.9	11,721.5	20.3	21.5	75.09	-488.6	-432.6	890.1	849.9	40.19	22.146	
12,075.0	11,893.3	11,800.0	11,730.3	20.3	21.5	75.97	-495.4	-432.5	885.9	845.8	40.13	22.077	
12,100.0	11,899.8	11,815.6	11,742.4	20.4	21.5	77.04	-505.3	-432.5	881.9	841.8	40.06	22.013	
12,125.0	11,905.0	11,829.1	11,752.5	20.4	21.5	78.03	-514.1	-432.4	877.9	837.9	39.98	21.956	
12,150.0	11,908.9	11,842.5	11,762.3	20.4	21.5	79.03	-523.2	-432.3	874.0	834.1	39.90	21.905	
12,175.0	11,911.5	11,856.0	11,772.0	20.4	21.5	80.04	-532.7	-432.3	870.3	830.5	39.81	21.862	
12,200.0	11,912.8	11,869.5	11,781.4	20.5	21.5	81.05	-542.4	-432.2	866.7	827.0	39.71	21.825	
12,212.6	11,913.0	11,875.0	11,785.1	20.5	21.5	81.49	-546.4	-432.2	865.0	825.4	39.66	21.812	
12,300.0	11,913.0	11,928.5	11,819.0	20.6	21.6	83.74	-587.7	-431.9	855.8	816.4	39.37	21.739	
12,400.0	11,913.0	12,000.0	11,856.8	20.8	21.6	86.27	-648.4	-431.5	850.3	811.1	39.21	21.686	
12,500.0	11,913.0	12,085.1	11,889.2	21.0	21.7	88.46	-726.9	-431.0	848.4	809.1	39.31	21.580	
12,600.0	11,913.0	12,180.4	11,908.5	21.3	21.8	89.76	-820.1	-430.4	848.0	808.4	39.66	21.383	
12,650.1	11,913.0	12,230.3	11,911.0	21.4	21.8	89.93	-869.9	-430.1	848.0	808.1	39.89	21.257	
12,700.0	11,913.0	12,280.2	11,911.0	21.5	21.8	89.93	-919.8	-429.8	848.0	807.9	40.14	21.126	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-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)			
12,800.0	11,913.0	12,380.2	11,911.0	21.8	21.9	89.93	-1,019.8	-429.1	848.0	807.3	40.69	20.841	
12,900.0	11,913.0	12,480.2	11,911.0	22.1	22.1	89.93	-1,119.8	-428.5	848.0	806.7	41.29	20.540	
13,000.0	11,913.0	12,580.2	11,911.0	22.5	22.2	89.93	-1,219.8	-427.8	848.0	806.1	41.93	20.225	
13,100.0	11,913.0	12,680.2	11,911.0	22.8	22.3	89.93	-1,319.8	-427.1	848.0	805.4	42.62	19.899	
13,200.0	11,913.0	12,780.2	11,911.0	23.2	22.5	89.93	-1,419.8	-426.5	848.0	804.7	43.35	19.564	
13,300.0	11,913.0	12,880.2	11,911.0	23.6	22.7	89.93	-1,519.8	-425.8	848.0	803.9	44.12	19.223	
13,400.0	11,913.0	12,980.2	11,911.0	24.0	22.9	89.93	-1,619.8	-425.2	848.0	803.1	44.92	18.878	
13,500.0	11,913.0	13,080.2	11,911.0	24.4	23.2	89.93	-1,719.8	-424.5	848.0	802.3	45.77	18.530	
13,600.0	11,913.0	13,180.2	11,911.0	24.8	23.5	89.93	-1,819.8	-423.9	848.0	801.4	46.64	18.182	
13,700.0	11,913.0	13,280.2	11,911.0	25.3	23.8	89.93	-1,919.8	-423.2	848.0	800.5	47.55	17.835	
13,800.0	11,913.0	13,380.2	11,911.0	25.8	24.1	89.93	-2,019.8	-422.6	848.0	799.5	48.49	17.489	
13,900.0	11,913.0	13,480.2	11,911.0	26.2	24.5	89.93	-2,119.8	-421.9	848.0	798.6	49.45	17.148	
14,000.0	11,913.0	13,580.2	11,911.0	26.7	24.9	89.93	-2,219.7	-421.3	848.0	797.6	50.45	16.810	
14,100.0	11,913.0	13,680.2	11,911.0	27.2	25.3	89.93	-2,319.7	-420.6	848.0	796.6	51.47	16.477	
14,200.0	11,913.0	13,780.2	11,911.0	27.8	25.7	89.93	-2,419.7	-420.0	848.0	795.5	52.51	16.150	
14,300.0	11,913.0	13,880.2	11,911.0	28.3	26.2	89.93	-2,519.7	-419.3	848.0	794.5	53.57	15.829	
14,400.0	11,913.0	13,980.2	11,911.0	28.8	26.7	89.93	-2,619.7	-418.7	848.0	793.4	54.66	15.515	
14,500.0	11,913.0	14,080.2	11,911.0	29.4	27.2	89.93	-2,719.7	-418.0	848.0	792.3	55.76	15.207	
14,600.0	11,913.0	14,180.2	11,911.0	29.9	27.7	89.93	-2,819.7	-417.4	848.0	791.1	56.89	14.907	
14,700.0	11,913.0	14,280.2	11,911.0	30.5	28.2	89.93	-2,919.7	-416.7	848.0	790.0	58.03	14.614	
14,800.0	11,913.0	14,380.2	11,911.0	31.1	28.8	89.93	-3,019.7	-416.1	848.0	788.8	59.19	14.328	
14,900.0	11,913.0	14,480.2	11,911.0	31.7	29.4	89.93	-3,119.7	-415.4	848.0	787.7	60.36	14.049	
15,000.0	11,913.0	14,580.2	11,911.0	32.3	29.9	89.93	-3,219.7	-414.8	848.0	786.5	61.55	13.778	
15,100.0	11,913.0	14,680.2	11,911.0	32.9	30.5	89.93	-3,319.7	-414.1	848.0	785.3	62.75	13.514	
15,200.0	11,913.0	14,780.2	11,911.0	33.5	31.1	89.93	-3,419.7	-413.5	848.0	784.1	63.96	13.258	
15,300.0	11,913.0	14,880.2	11,911.0	34.1	31.7	89.93	-3,519.7	-412.8	848.0	782.8	65.19	13.008	
15,400.0	11,913.0	14,980.2	11,911.0	34.7	32.3	89.93	-3,619.7	-412.2	848.0	781.6	66.43	12.766	
15,500.0	11,913.0	15,080.2	11,911.0	35.3	33.0	89.93	-3,719.7	-411.5	848.0	780.3	67.68	12.530	
15,600.0	11,913.0	15,180.2	11,911.0	36.0	33.6	89.93	-3,819.7	-410.9	848.0	779.1	68.94	12.301	
15,700.0	11,913.0	15,280.2	11,911.0	36.6	34.2	89.93	-3,919.7	-410.2	848.0	777.8	70.21	12.079	
15,800.0	11,913.0	15,380.2	11,911.0	37.2	34.9	89.93	-4,019.7	-409.6	848.0	776.5	71.49	11.863	
15,900.0	11,913.0	15,480.2	11,911.0	37.9	35.5	89.93	-4,119.7	-408.9	848.0	775.2	72.77	11.653	
16,000.0	11,913.0	15,580.2	11,911.0	38.5	36.2	89.93	-4,219.7	-408.3	848.0	773.9	74.07	11.449	
16,100.0	11,913.0	15,680.2	11,911.0	39.2	36.8	89.93	-4,319.7	-407.6	848.0	772.6	75.37	11.251	
16,200.0	11,913.0	15,780.2	11,911.0	39.8	37.5	89.93	-4,419.7	-407.0	848.0	771.3	76.69	11.058	
16,300.0	11,913.0	15,880.2	11,911.0	40.5	38.2	89.93	-4,519.7	-406.3	848.0	770.0	78.00	10.871	
16,400.0	11,913.0	15,980.2	11,911.0	41.2	38.8	89.93	-4,619.7	-405.6	848.0	768.7	79.33	10.690	
16,500.0	11,913.0	16,080.2	11,911.0	41.8	39.5	89.93	-4,719.7	-405.0	848.0	767.4	80.66	10.513	
16,600.0	11,913.0	16,180.2	11,911.0	42.5	40.2	89.93	-4,819.7	-404.3	848.0	766.0	82.00	10.342	
16,700.0	11,913.0	16,280.2	11,911.0	43.2	40.9	89.93	-4,919.7	-403.7	848.0	764.7	83.34	10.175	
16,800.0	11,913.0	16,380.2	11,911.0	43.8	41.6	89.93	-5,019.7	-403.0	848.0	763.3	84.69	10.013	
16,900.0	11,913.0	16,480.2	11,911.0	44.5	42.3	89.93	-5,119.7	-402.4	848.0	762.0	86.04	9.856	
17,000.0	11,913.0	16,580.2	11,911.0	45.2	42.9	89.93	-5,219.7	-401.7	848.0	760.6	87.40	9.702	
17,100.0	11,913.0	16,680.2	11,911.0	45.9	43.6	89.93	-5,319.7	-401.1	848.0	759.2	88.77	9.553	
17,200.0	11,913.0	16,780.2	11,911.0	46.6	44.3	89.93	-5,419.7	-400.4	848.0	757.9	90.13	9.408	
17,300.0	11,913.0	16,880.2	11,911.0	47.3	45.0	89.93	-5,519.7	-399.8	848.0	756.5	91.51	9.267	
17,400.0	11,913.0	16,980.2	11,911.0	48.0	45.7	89.93	-5,619.7	-399.1	848.0	755.1	92.88	9.130	
17,500.0	11,913.0	17,080.2	11,911.0	48.7	46.4	89.93	-5,719.7	-398.5	848.0	753.7	94.27	8.996	
17,600.0	11,913.0	17,180.2	11,911.0	49.4	47.1	89.93	-5,819.7	-397.8	848.0	752.4	95.65	8.866	
17,700.0	11,913.0	17,280.2	11,911.0	50.1	47.8	89.93	-5,919.7	-397.2	848.0	751.0	97.04	8.739	
17,800.0	11,913.0	17,380.2	11,911.0	50.8	48.6	89.93	-6,019.7	-396.5	848.0	749.6	98.43	8.615	
17,900.0	11,913.0	17,480.2	11,911.0	51.5	49.3	89.93	-6,119.7	-395.9	848.0	748.2	99.82	8.495	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS						Rule Assigned:				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)				
18,000.0	11,913.0	17,580.2	11,911.0	52.2	50.0	89.93	-6,219.7	-395.2	848.0	746.8	101.22	8.378		
18,100.0	11,913.0	17,680.2	11,911.0	52.9	50.7	89.93	-6,319.7	-394.6	848.0	745.4	102.62	8.263		
18,200.0	11,913.0	17,780.2	11,911.0	53.6	51.4	89.93	-6,419.7	-393.9	848.0	744.0	104.03	8.152		
18,300.0	11,913.0	17,880.2	11,911.0	54.3	52.1	89.93	-6,519.7	-393.3	848.0	742.6	105.44	8.043		
18,400.0	11,913.0	17,980.2	11,911.0	55.0	52.8	89.93	-6,619.7	-392.6	848.0	741.2	106.85	7.937		
18,500.0	11,913.0	18,080.2	11,911.0	55.7	53.6	89.93	-6,719.7	-392.0	848.0	739.7	108.26	7.833		
18,600.0	11,913.0	18,180.2	11,911.0	56.4	54.3	89.93	-6,819.7	-391.3	848.0	738.3	109.67	7.732		
18,700.0	11,913.0	18,280.2	11,911.0	57.1	55.0	89.93	-6,919.7	-390.7	848.0	736.9	111.09	7.633		
18,800.0	11,913.0	18,380.2	11,911.0	57.8	55.7	89.93	-7,019.6	-390.0	848.0	735.5	112.51	7.537		
18,900.0	11,913.0	18,480.2	11,911.0	58.6	56.5	89.93	-7,119.6	-389.4	848.0	734.1	113.93	7.443		
19,000.0	11,913.0	18,580.2	11,911.0	59.3	57.2	89.93	-7,219.6	-388.7	848.0	732.6	115.36	7.351		
19,100.0	11,913.0	18,680.2	11,911.0	60.0	57.9	89.93	-7,319.6	-388.1	848.0	731.2	116.78	7.261		
19,200.0	11,913.0	18,780.2	11,911.0	60.7	58.6	89.93	-7,419.6	-387.4	848.0	729.8	118.21	7.174		
19,300.0	11,913.0	18,880.2	11,911.0	61.4	59.4	89.93	-7,519.6	-386.8	848.0	728.4	119.64	7.088		
19,400.0	11,913.0	18,980.2	11,911.0	62.2	60.1	89.93	-7,619.6	-386.1	848.0	726.9	121.07	7.004		
19,500.0	11,913.0	19,080.2	11,911.0	62.9	60.8	89.93	-7,719.6	-385.5	848.0	725.5	122.51	6.922		
19,600.0	11,913.0	19,180.2	11,911.0	63.6	61.6	89.93	-7,819.6	-384.8	848.0	724.1	123.94	6.842		
19,700.0	11,913.0	19,280.2	11,911.0	64.3	62.3	89.93	-7,919.6	-384.1	848.0	722.6	125.38	6.764		
19,800.0	11,913.0	19,380.2	11,911.0	65.1	63.0	89.93	-8,019.6	-383.5	848.0	721.2	126.82	6.687		
19,900.0	11,913.0	19,480.2	11,911.0	65.8	63.7	89.93	-8,119.6	-382.8	848.0	719.7	128.26	6.612		
20,000.0	11,913.0	19,580.2	11,911.0	66.5	64.5	89.93	-8,219.6	-382.2	848.0	718.3	129.70	6.538		
20,100.0	11,913.0	19,680.2	11,911.0	67.2	65.2	89.93	-8,319.6	-381.5	848.0	716.9	131.14	6.466		
20,200.0	11,913.0	19,780.2	11,911.0	68.0	66.0	89.93	-8,419.6	-380.9	848.0	715.4	132.59	6.396		
20,300.0	11,913.0	19,880.2	11,911.0	68.7	66.7	89.93	-8,519.6	-380.2	848.0	714.0	134.03	6.327		
20,400.0	11,913.0	19,980.2	11,911.0	69.4	67.4	89.93	-8,619.6	-379.6	848.0	712.5	135.48	6.259		
20,500.0	11,913.0	20,080.2	11,911.0	70.2	68.2	89.93	-8,719.6	-378.9	848.0	711.1	136.93	6.193		
20,600.0	11,913.0	20,180.2	11,911.0	70.9	68.9	89.93	-8,819.6	-378.3	848.0	709.6	138.38	6.128		
20,700.0	11,913.0	20,280.2	11,911.0	71.6	69.6	89.93	-8,919.6	-377.6	848.0	708.2	139.83	6.064		
20,800.0	11,913.0	20,380.2	11,911.0	72.3	70.4	89.93	-9,019.6	-377.0	848.0	706.7	141.28	6.002		
20,900.0	11,913.0	20,480.2	11,911.0	73.1	71.1	89.93	-9,119.6	-376.3	848.0	705.3	142.73	5.941		
21,000.0	11,913.0	20,580.2	11,911.0	73.8	71.9	89.93	-9,219.6	-375.7	848.0	703.8	144.19	5.881		
21,100.0	11,913.0	20,680.2	11,911.0	74.6	72.6	89.93	-9,319.6	-375.0	848.0	702.3	145.64	5.822		
21,200.0	11,913.0	20,780.2	11,911.0	75.3	73.3	89.93	-9,419.6	-374.4	848.0	700.9	147.10	5.765		
21,300.0	11,913.0	20,880.2	11,911.0	76.0	74.1	89.93	-9,519.6	-373.7	848.0	699.4	148.56	5.708		
21,400.0	11,913.0	20,980.2	11,911.0	76.8	74.8	89.93	-9,619.6	-373.1	848.0	698.0	150.02	5.653		
21,500.0	11,913.0	21,080.2	11,911.0	77.5	75.6	89.93	-9,719.6	-372.4	848.0	696.5	151.48	5.598		
21,600.0	11,913.0	21,180.2	11,911.0	78.2	76.3	89.93	-9,819.6	-371.8	848.0	695.1	152.94	5.545		
21,700.0	11,913.0	21,280.2	11,911.0	79.0	77.0	89.93	-9,919.6	-371.1	848.0	693.6	154.40	5.492		
21,779.6	11,913.0	21,359.8	11,911.0	79.6	77.6	89.93	-9,999.2	-370.6	848.0	692.4	155.56	5.451		
21,800.0	11,913.0	21,380.2	11,911.0	79.7	77.8	89.93	-10,019.6	-370.5	848.0	692.1	155.85	5.441		
21,829.1	11,913.0	21,409.2	11,911.0	79.9	78.0	89.93	-10,048.7	-370.3	848.0	691.7	156.28	5.426		
21,829.6	11,913.0	21,409.6	11,911.0	79.9	78.0	89.93	-10,049.1	-370.3	848.0	691.7	156.28	5.426 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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-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	-56.38	16.7	-25.1	30.1	23.1	6.98	4.311	
100.0	100.0	100.0	100.0	3.1	3.1	-56.38	16.7	-25.1	30.1	22.9	7.23	4.165	
200.0	200.0	200.0	200.0	3.2	3.2	-56.38	16.7	-25.1	30.1	22.6	7.46	4.032	
300.0	300.0	300.0	300.0	3.4	3.4	-56.38	16.7	-25.1	30.1	22.4	7.70	3.911	
400.0	400.0	400.0	400.0	3.5	3.5	-56.38	16.7	-25.1	30.1	22.2	7.92	3.799	
500.0	500.0	500.0	500.0	3.6	3.6	-56.38	16.7	-25.1	30.1	22.0	8.14	3.696	
600.0	600.0	600.0	600.0	3.7	3.7	-56.38	16.7	-25.1	30.1	21.7	8.36	3.600	
700.0	700.0	700.0	700.0	3.9	3.9	-56.38	16.7	-25.1	30.1	21.5	8.57	3.511	
800.0	800.0	800.0	800.0	4.0	4.0	-56.38	16.7	-25.1	30.1	21.3	8.78	3.428	
900.0	900.0	900.0	900.0	4.1	4.1	-56.38	16.7	-25.1	30.1	21.1	8.98	3.350	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.38	16.7	-25.1	30.1	20.9	9.18	3.277	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.38	16.7	-25.1	30.1	20.7	9.38	3.208	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	-56.38	16.7	-25.1	30.1	20.5	9.58	3.142	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-56.38	16.7	-25.1	30.1	20.3	9.77	3.080	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-56.38	16.7	-25.1	30.1	20.1	9.96	3.021	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.38	16.7	-25.1	30.1	19.9	10.15	2.966 CC, ES	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	5.0	-141.44	16.7	-25.1	31.4	21.3	10.11	3.108	
1,700.0	1,699.8	1,699.8	1,699.8	5.1	5.1	-146.63	16.7	-25.1	35.7	25.2	10.46	3.411	
1,800.0	1,799.5	1,799.5	1,799.5	5.3	5.3	-152.93	16.7	-25.1	43.2	32.4	10.84	3.987	
1,900.0	1,898.7	1,898.7	1,898.7	5.6	5.4	-158.69	16.7	-25.1	54.4	43.1	11.27	4.824	
2,000.0	1,997.7	1,997.7	1,997.7	5.8	5.6	-162.98	16.7	-25.1	67.5	55.9	11.66	5.795	
2,100.0	2,096.8	2,096.8	2,096.8	6.1	5.7	-165.87	16.7	-25.1	81.0	68.9	12.06	6.714	
2,200.0	2,195.8	2,195.8	2,195.8	6.4	5.8	-167.93	16.7	-25.1	94.5	82.0	12.48	7.574	
2,300.0	2,294.8	2,294.8	2,294.8	6.7	6.0	-169.47	16.7	-25.1	108.2	95.3	12.92	8.374	
2,400.0	2,393.8	2,393.8	2,393.8	7.0	6.1	-170.66	16.7	-25.1	121.9	108.5	13.37	9.115	
2,500.0	2,492.9	2,492.9	2,492.9	7.3	6.2	-171.62	16.7	-25.1	135.6	121.8	13.84	9.802	
2,600.0	2,591.9	2,591.9	2,591.9	7.6	6.3	-172.39	16.7	-25.1	149.4	135.1	14.32	10.437	
2,700.0	2,690.9	2,690.9	2,690.9	8.0	6.5	-173.04	16.7	-25.1	163.2	148.4	14.81	11.025	
2,800.0	2,789.9	2,789.9	2,789.9	8.3	6.6	-173.59	16.7	-25.1	177.1	161.8	15.30	11.569	
2,900.0	2,889.0	2,889.0	2,889.0	8.7	6.7	-174.05	16.7	-25.1	190.9	175.1	15.81	12.074	
3,000.0	2,988.0	2,988.0	2,988.0	9.0	6.8	-174.46	16.7	-25.1	204.8	188.4	16.33	12.541	
3,100.0	3,087.0	3,087.0	3,087.0	9.4	6.9	-174.81	16.7	-25.1	218.6	201.8	16.85	12.975	
3,200.0	3,186.1	3,186.1	3,186.1	9.8	7.1	-175.12	16.7	-25.1	232.5	215.1	17.38	13.379	
3,300.0	3,285.1	3,285.1	3,285.1	10.2	7.2	-175.39	16.7	-25.1	246.3	228.4	17.91	13.755	
3,400.0	3,384.1	3,384.1	3,384.1	10.6	7.3	-175.64	16.7	-25.1	260.2	241.8	18.45	14.105	
3,500.0	3,483.1	3,483.1	3,483.1	10.9	7.4	-175.86	16.7	-25.1	274.1	255.1	18.99	14.432	
3,600.0	3,582.2	3,582.2	3,582.2	11.3	7.5	-176.06	16.7	-25.1	288.0	268.4	19.54	14.737	
3,700.0	3,681.2	3,681.2	3,681.2	11.7	7.6	-176.24	16.7	-25.1	301.9	281.8	20.09	15.023	
3,800.0	3,780.2	3,780.2	3,780.2	12.1	7.8	-176.41	16.7	-25.1	315.8	295.1	20.65	15.291	
3,900.0	3,879.2	3,879.2	3,879.2	12.5	7.9	-176.56	16.7	-25.1	329.7	308.4	21.21	15.543	
4,000.0	3,978.3	3,978.3	3,978.3	12.9	8.0	-176.70	16.7	-25.1	343.5	321.8	21.77	15.779	
4,100.0	4,077.3	4,077.3	4,077.3	13.3	8.1	-176.83	16.7	-25.1	357.4	335.1	22.34	16.002	
4,200.0	4,176.3	4,176.3	4,176.3	13.7	8.2	-176.95	16.7	-25.1	371.3	348.4	22.91	16.212	
4,281.5	4,257.0	4,257.0	4,257.0	14.1	8.3	-177.04	16.7	-25.1	382.7	359.3	23.36	16.383	
4,300.0	4,275.3	4,275.3	4,275.3	14.1	8.3	-177.06	16.7	-25.1	385.2	361.8	23.45	16.424	
4,400.0	4,374.5	4,374.5	4,374.5	14.5	8.4	-177.16	16.7	-25.1	397.9	373.9	24.03	16.559	
4,500.0	4,473.9	4,473.9	4,473.9	14.9	8.5	-177.24	16.7	-25.1	408.9	384.3	24.58	16.635	
4,600.0	4,573.5	4,573.5	4,573.5	15.3	8.6	-177.31	16.7	-25.1	418.2	393.0	25.12	16.648	
4,700.0	4,673.2	4,673.2	4,673.2	15.7	8.7	-177.36	16.7	-25.1	425.7	400.0	25.63	16.606	
4,800.0	4,773.0	4,773.0	4,773.0	16.0	8.8	-177.39	16.7	-25.1	431.5	405.3	26.13	16.513	
4,900.0	4,873.0	4,873.0	4,873.0	16.3	9.0	-177.42	16.7	-25.1	435.5	408.9	26.59	16.377	
5,000.0	4,972.9	4,972.9	4,972.9	16.6	9.1	-177.44	16.7	-25.1	437.8	410.8	27.01	16.209	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside Toolface	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,081.5	5,054.4	5,054.4	5,054.4	16.7	9.1	-94.44	16.7	-25.1	438.4	411.1	27.21	16.111	
5,100.0	5,072.9	5,072.9	5,072.9	16.7	9.2	-94.44	16.7	-25.1	438.4	411.1	27.22	16.102	
5,200.0	5,172.9	5,172.9	5,172.9	16.8	9.3	-94.44	16.7	-25.1	438.4	411.0	27.36	16.021	
5,300.0	5,272.9	5,272.9	5,272.9	16.8	9.4	-94.44	16.7	-25.1	438.4	410.9	27.49	15.947	
5,400.0	5,372.9	5,372.9	5,372.9	16.9	9.5	-94.44	16.7	-25.1	438.4	410.7	27.62	15.873	
5,500.0	5,472.9	5,472.9	5,472.9	16.9	9.6	-94.44	16.7	-25.1	438.4	410.6	27.75	15.799	
5,600.0	5,572.9	5,572.9	5,572.9	17.0	9.7	-94.44	16.7	-25.1	438.4	410.5	27.87	15.727	
5,700.0	5,672.9	5,672.9	5,672.9	17.0	9.8	-94.44	16.7	-25.1	438.4	410.4	28.00	15.654	
5,800.0	5,772.9	5,772.9	5,772.9	17.1	9.9	-94.44	16.7	-25.1	438.4	410.2	28.13	15.583	
5,900.0	5,872.9	5,872.9	5,872.9	17.1	10.0	-94.44	16.7	-25.1	438.4	410.1	28.26	15.511	
6,000.0	5,972.9	5,972.9	5,972.9	17.2	10.1	-94.44	16.7	-25.1	438.4	410.0	28.39	15.440	
6,100.0	6,072.9	6,072.9	6,072.9	17.2	10.2	-94.44	16.7	-25.1	438.4	409.8	28.52	15.370	
6,200.0	6,172.9	6,172.9	6,172.9	17.3	10.3	-94.44	16.7	-25.1	438.4	409.7	28.65	15.300	
6,300.0	6,272.9	6,272.9	6,272.9	17.3	10.4	-94.44	16.7	-25.1	438.4	409.6	28.78	15.230	
6,400.0	6,372.9	6,372.9	6,372.9	17.4	10.5	-94.44	16.7	-25.1	438.4	409.4	28.91	15.161	
6,500.0	6,472.9	6,472.9	6,472.9	17.4	10.6	-94.44	16.7	-25.1	438.4	409.3	29.04	15.093	
6,600.0	6,572.9	6,572.9	6,572.9	17.5	10.7	-94.44	16.7	-25.1	438.4	409.2	29.18	15.025	
6,700.0	6,672.9	6,672.9	6,672.9	17.5	10.8	-94.44	16.7	-25.1	438.4	409.1	29.31	14.957	
6,800.0	6,772.9	6,772.9	6,772.9	17.6	10.9	-94.44	16.7	-25.1	438.4	408.9	29.44	14.890	
6,900.0	6,872.9	6,872.9	6,872.9	17.6	11.0	-94.44	16.7	-25.1	438.4	408.8	29.57	14.823	
7,000.0	6,972.9	6,972.9	6,972.9	17.7	11.1	-94.44	16.7	-25.1	438.4	408.7	29.71	14.757	
7,100.0	7,072.9	7,072.9	7,072.9	17.7	11.2	-94.44	16.7	-25.1	438.4	408.5	29.84	14.691	
7,200.0	7,172.9	7,172.9	7,172.9	17.8	11.3	-94.44	16.7	-25.1	438.4	408.4	29.97	14.626	
7,300.0	7,272.9	7,272.9	7,272.9	17.8	11.4	-94.44	16.7	-25.1	438.4	408.3	30.11	14.561	
7,400.0	7,372.9	7,372.9	7,372.9	17.9	11.5	-94.44	16.7	-25.1	438.4	408.1	30.24	14.496	
7,500.0	7,472.9	7,472.9	7,472.9	17.9	11.6	-94.44	16.7	-25.1	438.4	408.0	30.37	14.432	
7,600.0	7,572.9	7,572.9	7,572.9	18.0	11.7	-94.44	16.7	-25.1	438.4	407.8	30.51	14.368	
7,700.0	7,672.9	7,672.9	7,672.9	18.0	11.8	-94.44	16.7	-25.1	438.4	407.7	30.64	14.305	
7,800.0	7,772.9	7,772.9	7,772.9	18.1	11.9	-94.44	16.7	-25.1	438.4	407.6	30.78	14.243	
7,900.0	7,872.9	7,872.9	7,872.9	18.1	12.0	-94.44	16.7	-25.1	438.4	407.4	30.91	14.180	
8,000.0	7,972.9	7,972.9	7,972.9	18.2	12.1	-94.44	16.7	-25.1	438.4	407.3	31.05	14.118	
8,100.0	8,072.9	8,072.9	8,072.9	18.2	12.2	-94.44	16.7	-25.1	438.4	407.2	31.18	14.057	
8,200.0	8,172.9	8,172.9	8,172.9	18.3	12.3	-94.44	16.7	-25.1	438.4	407.0	31.32	13.996	
8,300.0	8,272.9	8,272.9	8,272.9	18.3	12.4	-94.44	16.7	-25.1	438.4	406.9	31.46	13.935	
8,400.0	8,372.9	8,372.9	8,372.9	18.4	12.5	-94.44	16.7	-25.1	438.4	406.8	31.59	13.875	
8,500.0	8,472.9	8,472.9	8,472.9	18.4	12.5	-94.44	16.7	-25.1	438.4	406.6	31.73	13.815	
8,600.0	8,572.9	8,572.9	8,572.9	18.5	12.6	-94.44	16.7	-25.1	438.4	406.5	31.87	13.756	
8,700.0	8,672.9	8,672.9	8,672.9	18.5	12.7	-94.44	16.7	-25.1	438.4	406.4	32.00	13.697	
8,800.0	8,772.9	8,772.9	8,772.9	18.6	12.8	-94.44	16.7	-25.1	438.4	406.2	32.14	13.638	
8,900.0	8,872.9	8,872.9	8,872.9	18.7	12.9	-94.44	16.7	-25.1	438.4	406.1	32.28	13.580	
9,000.0	8,972.9	8,972.9	8,972.9	18.7	13.0	-94.44	16.7	-25.1	438.4	405.9	32.42	13.523	
9,100.0	9,072.9	9,072.9	9,072.9	18.8	13.1	-94.44	16.7	-25.1	438.4	405.8	32.55	13.465	
9,200.0	9,172.9	9,172.9	9,172.9	18.8	13.2	-94.44	16.7	-25.1	438.4	405.7	32.69	13.408	
9,300.0	9,272.9	9,272.9	9,272.9	18.9	13.3	-94.44	16.7	-25.1	438.4	405.5	32.83	13.352	
9,400.0	9,372.9	9,372.9	9,372.9	18.9	13.4	-94.44	16.7	-25.1	438.4	405.4	32.97	13.296	
9,500.0	9,472.9	9,472.9	9,472.9	19.0	13.5	-94.44	16.7	-25.1	438.4	405.2	33.11	13.240	
9,600.0	9,572.9	9,572.9	9,572.9	19.0	13.6	-94.44	16.7	-25.1	438.4	405.1	33.25	13.184	
9,700.0	9,672.9	9,672.9	9,672.9	19.1	13.7	-94.44	16.7	-25.1	438.4	405.0	33.39	13.129	
9,800.0	9,772.9	9,772.9	9,772.9	19.2	13.8	-94.44	16.7	-25.1	438.4	404.8	33.53	13.075	
9,900.0	9,872.9	9,872.9	9,872.9	19.2	13.9	-94.44	16.7	-25.1	438.4	404.7	33.67	13.020	
10,000.0	9,972.9	9,972.9	9,972.9	19.3	14.0	-94.44	16.7	-25.1	438.4	404.6	33.81	12.967	
10,100.0	10,072.9	10,072.9	10,072.9	19.3	14.0	-94.44	16.7	-25.1	438.4	404.4	33.95	12.913	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-r.5 MWD+IFR1+MS													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		
10,200.0	10,172.9	10,172.9	10,172.9	19.4	14.1	-94.44	16.7	-25.1	438.4	404.3	34.09	12.860		
10,300.0	10,272.9	10,272.9	10,272.9	19.4	14.2	-94.44	16.7	-25.1	438.4	404.1	34.23	12.807		
10,400.0	10,372.9	10,372.9	10,372.9	19.5	14.3	-94.44	16.7	-25.1	438.4	404.0	34.37	12.755		
10,500.0	10,472.9	10,472.9	10,472.9	19.5	14.4	-94.44	16.7	-25.1	438.4	403.8	34.51	12.703		
10,600.0	10,572.9	10,572.9	10,572.9	19.6	14.5	-94.44	16.7	-25.1	438.4	403.7	34.65	12.651		
10,700.0	10,672.9	10,672.9	10,672.9	19.7	14.6	-94.44	16.7	-25.1	438.4	403.6	34.79	12.600		
10,800.0	10,772.9	10,772.9	10,772.9	19.7	14.7	-94.44	16.7	-25.1	438.4	403.4	34.93	12.549		
10,900.0	10,872.9	10,872.9	10,872.9	19.8	14.8	-94.44	16.7	-25.1	438.4	403.3	35.07	12.498		
11,000.0	10,972.9	10,972.9	10,972.9	19.8	14.9	-94.44	16.7	-25.1	438.4	403.1	35.22	12.448		
11,100.0	11,072.9	11,072.9	11,072.9	19.9	15.0	-94.44	16.7	-25.1	438.4	403.0	35.36	12.398		
11,200.0	11,172.9	11,172.9	11,172.9	20.0	15.1	-94.44	16.7	-25.1	438.4	402.9	35.50	12.348		
11,211.5	11,184.5	11,184.5	11,184.5	20.0	15.1	-94.44	16.7	-25.1	438.4	402.8	35.52	12.343		
11,300.0	11,272.9	11,272.4	11,272.4	20.0	15.1	-94.46	16.5	-25.1	438.4	402.8	35.53	12.337		
11,400.0	11,372.9	11,366.6	11,365.7	20.1	15.2	-96.00	4.7	-24.7	439.1	403.5	35.61	12.331		
11,462.6	11,435.5	11,422.0	11,418.8	20.1	15.2	-98.00	-10.7	-24.2	440.8	405.1	35.65	12.364		
11,475.0	11,447.9	11,432.5	11,428.7	20.1	15.2	81.87	-14.3	-24.1	441.2	405.7	35.51	12.427		
11,500.0	11,472.9	11,453.6	11,448.3	20.1	15.2	80.86	-22.2	-23.8	442.3	406.8	35.51	12.455		
11,525.0	11,497.8	11,475.0	11,467.8	20.1	15.3	79.85	-31.1	-23.5	443.4	407.9	35.52	12.484		
11,550.0	11,522.4	11,495.0	11,485.5	20.1	15.3	78.92	-40.2	-23.2	444.6	409.1	35.53	12.513		
11,575.0	11,546.9	11,515.3	11,503.3	20.1	15.3	77.99	-50.2	-22.9	445.8	410.3	35.55	12.540		
11,600.0	11,571.0	11,535.5	11,520.4	20.1	15.3	77.10	-60.8	-22.6	447.1	411.6	35.58	12.566		
11,625.0	11,594.8	11,555.4	11,536.8	20.1	15.3	76.24	-72.1	-22.2	448.5	412.8	35.62	12.589		
11,650.0	11,618.2	11,575.0	11,552.5	20.1	15.4	75.42	-83.8	-21.8	449.8	414.1	35.67	12.608		
11,675.0	11,641.0	11,594.8	11,568.0	20.1	15.4	74.62	-96.3	-21.4	451.1	415.4	35.74	12.624		
11,700.0	11,663.3	11,614.3	11,582.6	20.1	15.4	73.86	-109.1	-21.0	452.4	416.6	35.81	12.634		
11,725.0	11,684.9	11,633.6	11,596.5	20.1	15.4	73.14	-122.5	-20.6	453.7	417.8	35.90	12.640		
11,750.0	11,705.9	11,652.8	11,609.8	20.1	15.5	72.46	-136.3	-20.1	455.0	419.0	35.99	12.641		
11,775.0	11,726.1	11,671.9	11,622.5	20.1	15.5	71.82	-150.5	-19.7	456.2	420.1	36.10	12.637		
11,800.0	11,745.5	11,690.9	11,634.6	20.2	15.5	71.22	-165.2	-19.2	457.3	421.1	36.22	12.627		
11,825.0	11,764.1	11,709.8	11,645.9	20.2	15.5	70.66	-180.2	-18.7	458.4	422.1	36.34	12.613		
11,850.0	11,781.8	11,728.5	11,656.7	20.2	15.5	70.14	-195.6	-18.2	459.4	422.9	36.48	12.595		
11,875.0	11,798.5	11,750.0	11,668.2	20.2	15.6	69.61	-213.7	-17.6	460.3	423.7	36.59	12.581		
11,900.0	11,814.3	11,765.8	11,676.1	20.2	15.6	69.23	-227.4	-17.2	461.1	424.4	36.76	12.544		
11,925.0	11,829.0	11,784.4	11,684.9	20.2	15.6	68.84	-243.8	-16.6	461.8	424.9	36.90	12.514		
11,950.0	11,842.6	11,800.0	11,691.8	20.2	15.6	68.53	-257.8	-16.2	462.4	425.3	37.08	12.472		
11,975.0	11,855.1	11,821.3	11,700.4	20.2	15.6	68.18	-277.2	-15.6	462.9	425.7	37.20	12.444		
12,000.0	11,866.4	11,839.7	11,707.1	20.3	15.7	67.92	-294.3	-15.0	463.2	425.9	37.34	12.406		
12,025.0	11,876.6	11,858.0	11,713.2	20.3	15.7	67.71	-311.6	-14.5	463.4	426.0	37.48	12.366		
12,050.0	11,885.6	11,875.0	11,718.2	20.3	15.7	67.54	-327.9	-13.9	463.5	425.9	37.62	12.323		
12,075.0	11,893.3	11,894.6	11,723.2	20.3	15.7	67.40	-346.8	-13.3	463.5	425.7	37.73	12.283		
12,100.0	11,899.8	11,912.8	11,727.2	20.4	15.7	67.32	-364.6	-12.7	463.3	425.4	37.85	12.240		
12,125.0	11,905.0	11,931.1	11,730.6	20.4	15.7	67.28	-382.5	-12.2	462.9	425.0	37.95	12.198		
12,150.0	11,908.9	11,950.0	11,733.3	20.4	15.7	67.28	-401.2	-11.6	462.5	424.4	38.05	12.156		
12,175.0	11,911.5	11,967.5	11,735.2	20.4	15.7	67.33	-418.6	-11.0	461.9	423.7	38.13	12.113		
12,200.0	11,912.8	11,985.8	11,736.4	20.5	15.7	67.43	-436.8	-10.4	461.1	422.9	38.20	12.071		
12,212.6	11,913.0	11,995.0	11,736.8	20.5	15.7	67.49	-446.0	-10.1	460.7	422.4	38.23	12.050		
12,300.0	11,913.0	12,068.3	11,737.0	20.6	15.8	67.46	-519.3	-8.4	459.1	420.6	38.50	11.926		
12,340.3	11,913.0	12,106.4	11,737.0	20.7	15.8	67.46	-557.4	-8.1	459.1	420.4	38.64	11.880		
12,400.0	11,913.0	12,166.0	11,737.0	20.8	15.9	67.46	-617.0	-7.7	459.1	420.2	38.88	11.809		
12,500.0	11,913.0	12,266.0	11,737.0	21.0	16.2	67.46	-717.0	-7.0	459.1	419.8	39.31	11.677		
12,600.0	11,913.0	12,366.0	11,737.0	21.3	16.5	67.46	-817.0	-6.4	459.1	419.3	39.81	11.533		
12,700.0	11,913.0	12,466.0	11,737.0	21.5	16.8	67.46	-917.0	-5.7	459.1	418.7	40.35	11.378		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-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)			
12,800.0	11,913.0	12,566.0	11,737.0	21.8	17.2	67.46	-1,017.0	-5.1	459.1	418.1	40.94	11.213	
12,900.0	11,913.0	12,666.0	11,737.0	22.1	17.6	67.46	-1,117.0	-4.4	459.1	417.5	41.58	11.041	
13,000.0	11,913.0	12,766.0	11,737.0	22.5	18.0	67.46	-1,217.0	-3.8	459.1	416.8	42.26	10.862	
13,100.0	11,913.0	12,866.0	11,737.0	22.8	18.4	67.46	-1,317.0	-3.1	459.1	416.1	42.99	10.678	
13,200.0	11,913.0	12,966.0	11,737.0	23.2	18.9	67.46	-1,417.0	-2.5	459.1	415.3	43.76	10.491	
13,300.0	11,913.0	13,066.0	11,737.0	23.6	19.3	67.46	-1,517.0	-1.8	459.1	414.5	44.56	10.301	
13,400.0	11,913.0	13,166.0	11,737.0	24.0	19.8	67.46	-1,617.0	-1.2	459.1	413.7	45.41	10.110	
13,500.0	11,913.0	13,266.0	11,737.0	24.4	20.3	67.46	-1,717.0	-0.5	459.1	412.8	46.28	9.919	
13,600.0	11,913.0	13,366.0	11,737.0	24.8	20.9	67.46	-1,817.0	0.1	459.1	411.9	47.19	9.728	
13,700.0	11,913.0	13,466.0	11,737.0	25.3	21.4	67.46	-1,917.0	0.8	459.1	410.9	48.13	9.538	
13,800.0	11,913.0	13,566.0	11,737.0	25.8	21.9	67.46	-2,017.0	1.4	459.1	410.0	49.10	9.350	
13,900.0	11,913.0	13,666.0	11,737.0	26.2	22.5	67.46	-2,117.0	2.1	459.1	409.0	50.10	9.164	
14,000.0	11,913.0	13,766.0	11,737.0	26.7	23.1	67.46	-2,217.0	2.7	459.1	408.0	51.12	8.981	
14,100.0	11,913.0	13,866.0	11,737.0	27.2	23.7	67.46	-2,317.0	3.4	459.1	406.9	52.16	8.801	
14,200.0	11,913.0	13,966.0	11,737.0	27.8	24.3	67.46	-2,417.0	4.0	459.1	405.8	53.23	8.624	
14,300.0	11,913.0	14,066.0	11,737.0	28.3	24.9	67.46	-2,517.0	4.7	459.1	404.8	54.32	8.451	
14,400.0	11,913.0	14,166.0	11,737.0	28.8	25.5	67.46	-2,617.0	5.3	459.1	403.6	55.43	8.282	
14,500.0	11,913.0	14,266.0	11,737.0	29.4	26.1	67.46	-2,717.0	6.0	459.1	402.5	56.56	8.117	
14,600.0	11,913.0	14,366.0	11,737.0	29.9	26.7	67.46	-2,817.0	6.6	459.1	401.4	57.70	7.956	
14,700.0	11,913.0	14,466.0	11,737.0	30.5	27.4	67.46	-2,917.0	7.3	459.1	400.2	58.87	7.799	
14,800.0	11,913.0	14,566.0	11,737.0	31.1	28.0	67.46	-3,017.0	7.9	459.1	399.0	60.04	7.646	
14,900.0	11,913.0	14,666.0	11,737.0	31.7	28.7	67.46	-3,117.0	8.6	459.1	397.8	61.24	7.497	
15,000.0	11,913.0	14,766.0	11,737.0	32.3	29.3	67.46	-3,217.0	9.3	459.1	396.6	62.44	7.352	
15,100.0	11,913.0	14,866.0	11,737.0	32.9	30.0	67.46	-3,317.0	9.9	459.1	395.4	63.66	7.211	
15,200.0	11,913.0	14,966.0	11,737.0	33.5	30.6	67.46	-3,417.0	10.6	459.1	394.2	64.90	7.074	
15,300.0	11,913.0	15,066.0	11,737.0	34.1	31.3	67.46	-3,517.0	11.2	459.1	392.9	66.14	6.941	
15,400.0	11,913.0	15,166.0	11,737.0	34.7	32.0	67.46	-3,617.0	11.9	459.1	391.7	67.39	6.812	
15,500.0	11,913.0	15,266.0	11,737.0	35.3	32.7	67.46	-3,717.0	12.5	459.1	390.4	68.66	6.686	
15,600.0	11,913.0	15,366.0	11,737.0	36.0	33.3	67.46	-3,817.0	13.2	459.1	389.1	69.93	6.564	
15,700.0	11,913.0	15,466.0	11,737.0	36.6	34.0	67.46	-3,916.9	13.8	459.1	387.9	71.22	6.446	
15,800.0	11,913.0	15,566.0	11,737.0	37.2	34.7	67.46	-4,016.9	14.5	459.1	386.6	72.51	6.331	
15,900.0	11,913.0	15,666.0	11,737.0	37.9	35.4	67.46	-4,116.9	15.1	459.1	385.3	73.81	6.219	
16,000.0	11,913.0	15,766.0	11,737.0	38.5	36.1	67.46	-4,216.9	15.8	459.1	383.9	75.12	6.111	
16,100.0	11,913.0	15,866.0	11,737.0	39.2	36.8	67.46	-4,316.9	16.4	459.1	382.6	76.44	6.006	
16,200.0	11,913.0	15,966.0	11,737.0	39.8	37.5	67.46	-4,416.9	17.1	459.1	381.3	77.76	5.903	
16,300.0	11,913.0	16,066.0	11,737.0	40.5	38.2	67.46	-4,516.9	17.7	459.1	380.0	79.09	5.804	
16,400.0	11,913.0	16,166.0	11,737.0	41.2	38.9	67.46	-4,616.9	18.4	459.1	378.6	80.43	5.708	
16,500.0	11,913.0	16,266.0	11,737.0	41.8	39.6	67.46	-4,716.9	19.0	459.1	377.3	81.77	5.614	
16,600.0	11,913.0	16,366.0	11,737.0	42.5	40.3	67.46	-4,816.9	19.7	459.1	375.9	83.12	5.523	
16,700.0	11,913.0	16,466.0	11,737.0	43.2	41.0	67.46	-4,916.9	20.3	459.1	374.6	84.48	5.434	
16,800.0	11,913.0	16,566.0	11,737.0	43.8	41.7	67.46	-5,016.9	21.0	459.1	373.2	85.84	5.348	
16,900.0	11,913.0	16,666.0	11,737.0	44.5	42.4	67.46	-5,116.9	21.6	459.1	371.9	87.20	5.264	
17,000.0	11,913.0	16,766.0	11,737.0	45.2	43.2	67.46	-5,216.9	22.3	459.1	370.5	88.57	5.183	
17,100.0	11,913.0	16,866.0	11,737.0	45.9	43.9	67.46	-5,316.9	22.9	459.1	369.1	89.95	5.104	
17,200.0	11,913.0	16,966.0	11,737.0	46.6	44.6	67.46	-5,416.9	23.6	459.1	367.7	91.33	5.027	
17,300.0	11,913.0	17,066.0	11,737.0	47.3	45.3	67.46	-5,516.9	24.2	459.1	366.4	92.71	4.952	
17,400.0	11,913.0	17,166.0	11,737.0	48.0	46.0	67.46	-5,616.9	24.9	459.1	365.0	94.10	4.879	
17,500.0	11,913.0	17,266.0	11,737.0	48.7	46.7	67.46	-5,716.9	25.5	459.1	363.6	95.49	4.808	
17,600.0	11,913.0	17,366.0	11,737.0	49.4	47.5	67.46	-5,816.9	26.2	459.1	362.2	96.88	4.739	
17,700.0	11,913.0	17,466.0	11,737.0	50.1	48.2	67.46	-5,916.9	26.8	459.1	360.8	98.28	4.671	
17,800.0	11,913.0	17,566.0	11,737.0	50.8	48.9	67.46	-6,016.9	27.5	459.1	359.4	99.68	4.605	
17,900.0	11,913.0	17,666.0	11,737.0	51.5	49.7	67.46	-6,116.9	28.1	459.1	358.0	101.08	4.542	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-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
18,000.0	11,913.0	17,766.0	11,737.0	52.2	50.4	67.46	-6,216.9	28.8	459.1	356.6	102.49	4.479	
18,100.0	11,913.0	17,866.0	11,737.0	52.9	51.1	67.46	-6,316.9	29.4	459.1	355.2	103.90	4.418	
18,200.0	11,913.0	17,966.0	11,737.0	53.6	51.8	67.46	-6,416.9	30.1	459.1	353.8	105.31	4.359	
18,300.0	11,913.0	18,066.0	11,737.0	54.3	52.6	67.46	-6,516.9	30.7	459.1	352.3	106.73	4.301	
18,400.0	11,913.0	18,166.0	11,737.0	55.0	53.3	67.46	-6,616.9	31.4	459.1	350.9	108.15	4.245	
18,500.0	11,913.0	18,266.0	11,737.0	55.7	54.0	67.46	-6,716.9	32.0	459.1	349.5	109.57	4.190	
18,600.0	11,913.0	18,366.0	11,737.0	56.4	54.8	67.46	-6,816.9	32.7	459.1	348.1	110.99	4.136	
18,700.0	11,913.0	18,466.0	11,737.0	57.1	55.5	67.46	-6,916.9	33.3	459.1	346.7	112.42	4.084	
18,800.0	11,913.0	18,566.0	11,737.0	57.8	56.2	67.46	-7,016.9	34.0	459.1	345.2	113.84	4.032	
18,900.0	11,913.0	18,666.0	11,737.0	58.6	57.0	67.46	-7,116.9	34.6	459.1	343.8	115.27	3.982	
19,000.0	11,913.0	18,766.0	11,737.0	59.3	57.7	67.46	-7,216.9	35.3	459.1	342.4	116.71	3.934	
19,100.0	11,913.0	18,866.0	11,737.0	60.0	58.5	67.46	-7,316.9	35.9	459.1	340.9	118.14	3.886	
19,200.0	11,913.0	18,966.0	11,737.0	60.7	59.2	67.46	-7,416.9	36.6	459.1	339.5	119.58	3.839	
19,300.0	11,913.0	19,066.0	11,737.0	61.4	59.9	67.46	-7,516.9	37.2	459.1	338.1	121.01	3.794	
19,400.0	11,913.0	19,166.0	11,737.0	62.2	60.7	67.46	-7,616.9	37.9	459.1	336.6	122.45	3.749	
19,500.0	11,913.0	19,266.0	11,737.0	62.9	61.4	67.46	-7,716.9	38.5	459.1	335.2	123.89	3.705	
19,600.0	11,913.0	19,366.0	11,737.0	63.6	62.1	67.46	-7,816.9	39.2	459.1	333.7	125.34	3.663	
19,700.0	11,913.0	19,466.0	11,737.0	64.3	62.9	67.46	-7,916.9	39.9	459.1	332.3	126.78	3.621	
19,800.0	11,913.0	19,566.0	11,737.0	65.1	63.6	67.46	-8,016.9	40.5	459.1	330.8	128.23	3.580	
19,900.0	11,913.0	19,666.0	11,737.0	65.8	64.4	67.46	-8,116.9	41.2	459.1	329.4	129.67	3.540	
20,000.0	11,913.0	19,766.0	11,737.0	66.5	65.1	67.46	-8,216.9	41.8	459.1	327.9	131.12	3.501	
20,100.0	11,913.0	19,866.0	11,737.0	67.2	65.9	67.46	-8,316.9	42.5	459.1	326.5	132.57	3.463	
20,200.0	11,913.0	19,966.0	11,737.0	68.0	66.6	67.46	-8,416.9	43.1	459.1	325.0	134.03	3.425	
20,300.0	11,913.0	20,066.0	11,737.0	68.7	67.3	67.46	-8,516.9	43.8	459.1	323.6	135.48	3.388	
20,400.0	11,913.0	20,166.0	11,737.0	69.4	68.1	67.46	-8,616.8	44.4	459.1	322.1	136.93	3.353	
20,500.0	11,913.0	20,266.0	11,737.0	70.2	68.8	67.46	-8,716.8	45.1	459.1	320.7	138.39	3.317	
20,600.0	11,913.0	20,366.0	11,737.0	70.9	69.6	67.46	-8,816.8	45.7	459.1	319.2	139.84	3.283	
20,700.0	11,913.0	20,466.0	11,737.0	71.6	70.3	67.46	-8,916.8	46.4	459.1	317.8	141.30	3.249	
20,800.0	11,913.0	20,566.0	11,737.0	72.3	71.1	67.46	-9,016.8	47.0	459.1	316.3	142.76	3.216	
20,900.0	11,913.0	20,666.0	11,737.0	73.1	71.8	67.46	-9,116.8	47.7	459.1	314.8	144.22	3.183	
21,000.0	11,913.0	20,766.0	11,737.0	73.8	72.6	67.46	-9,216.8	48.3	459.1	313.4	145.68	3.151	
21,100.0	11,913.0	20,866.0	11,737.0	74.6	73.3	67.46	-9,316.8	49.0	459.1	311.9	147.14	3.120	
21,200.0	11,913.0	20,966.0	11,737.0	75.3	74.1	67.46	-9,416.8	49.6	459.1	310.5	148.61	3.089	
21,300.0	11,913.0	21,066.0	11,737.0	76.0	74.8	67.46	-9,516.8	50.3	459.1	309.0	150.07	3.059	
21,400.0	11,913.0	21,166.0	11,737.0	76.8	75.6	67.46	-9,616.8	50.9	459.1	307.5	151.54	3.029	
21,500.0	11,913.0	21,266.0	11,737.0	77.5	76.3	67.46	-9,716.8	51.6	459.1	306.1	153.00	3.000	
21,600.0	11,913.0	21,366.0	11,737.0	78.2	77.1	67.46	-9,816.8	52.2	459.1	304.6	154.47	2.972	
21,700.0	11,913.0	21,466.0	11,737.0	79.0	77.8	67.46	-9,916.8	52.9	459.1	303.1	155.94	2.944	
21,779.6	11,913.0	21,545.6	11,737.0	79.6	78.4	67.46	-9,996.4	53.4	459.1	302.0	157.10	2.922	
21,800.0	11,913.0	21,566.0	11,737.0	79.7	78.6	67.46	-10,016.8	53.5	459.1	301.7	157.40	2.917	
21,828.7	11,913.0	21,594.7	11,737.0	79.9	78.8	67.46	-10,045.5	53.7	459.1	301.2	157.82	2.909	
21,829.6	11,913.0	21,595.5	11,737.0	79.9	78.8	67.46	-10,046.3	53.7	459.1	301.2	157.83	2.909 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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-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	123.86	-16.9	25.2	30.3	23.3	6.98	4.340		
100.0	100.0	100.0	100.0	3.1	3.1	123.86	-16.9	25.2	30.3	23.1	7.23	4.193		
200.0	200.0	200.0	200.0	3.2	3.2	123.86	-16.9	25.2	30.3	22.8	7.46	4.059		
300.0	300.0	300.0	300.0	3.4	3.4	123.86	-16.9	25.2	30.3	22.6	7.70	3.937		
400.0	400.0	400.0	400.0	3.5	3.5	123.86	-16.9	25.2	30.3	22.4	7.92	3.825		
500.0	500.0	500.0	500.0	3.6	3.6	123.86	-16.9	25.2	30.3	22.2	8.14	3.721		
600.0	600.0	600.0	600.0	3.7	3.7	123.86	-16.9	25.2	30.3	21.9	8.36	3.625		
700.0	700.0	700.0	700.0	3.9	3.9	123.86	-16.9	25.2	30.3	21.7	8.57	3.535		
800.0	800.0	800.0	800.0	4.0	4.0	123.86	-16.9	25.2	30.3	21.5	8.78	3.451		
900.0	900.0	900.0	900.0	4.1	4.1	123.86	-16.9	25.2	30.3	21.3	8.98	3.373		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	123.86	-16.9	25.2	30.3	21.1	9.18	3.299		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	123.86	-16.9	25.2	30.3	20.9	9.38	3.229		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	123.86	-16.9	25.2	30.3	20.7	9.58	3.163		
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	123.86	-16.9	25.2	30.3	20.5	9.77	3.101		
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	123.86	-16.9	25.2	30.3	20.3	9.96	3.041		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	123.86	-16.9	25.2	30.3	20.1	10.15	2.985 CC		
1,600.0	1,600.0	1,599.2	1,599.2	4.9	4.9	41.01	-16.8	26.9	30.3	20.2	10.11	3.002		
1,700.0	1,699.8	1,698.3	1,698.2	5.1	5.1	41.45	-16.4	32.0	30.5	19.9	10.54	2.891		
1,800.0	1,799.5	1,797.5	1,797.0	5.3	5.3	42.17	-15.8	40.6	30.7	19.7	10.99	2.797		
1,900.0	1,898.7	1,896.7	1,895.4	5.6	5.6	43.17	-15.0	52.5	31.1	19.6	11.44	2.717 ES, SF		
2,000.0	1,997.7	1,995.8	1,993.4	5.8	5.9	42.31	-13.9	67.9	32.8	20.9	11.87	2.762		
2,100.0	2,096.8	2,094.7	2,090.5	6.1	6.2	38.25	-12.6	86.5	37.3	24.9	12.39	3.009		
2,200.0	2,195.8	2,194.4	2,188.0	6.4	6.5	33.72	-11.1	107.2	43.5	30.6	12.96	3.361		
2,300.0	2,294.8	2,294.2	2,285.6	6.7	6.8	30.34	-9.7	127.9	50.0	36.5	13.57	3.687		
2,400.0	2,393.8	2,393.9	2,383.1	7.0	7.2	27.74	-8.2	148.6	56.6	42.4	14.21	3.986		
2,500.0	2,492.9	2,493.7	2,480.7	7.3	7.5	25.68	-6.8	169.3	63.3	48.4	14.87	4.258		
2,600.0	2,591.9	2,593.4	2,578.3	7.6	7.9	24.02	-5.4	190.0	70.1	54.5	15.57	4.503		
2,700.0	2,690.9	2,693.2	2,675.9	8.0	8.2	22.66	-3.9	210.6	76.9	60.6	16.28	4.724		
2,800.0	2,789.9	2,793.0	2,773.4	8.3	8.6	21.51	-2.5	231.3	83.7	66.7	17.01	4.923		
2,900.0	2,889.0	2,892.7	2,871.0	8.7	9.0	20.54	-1.0	252.0	90.6	72.9	17.76	5.103		
3,000.0	2,988.0	2,992.5	2,968.6	9.0	9.4	19.71	0.4	272.7	97.5	79.0	18.52	5.266		
3,100.0	3,087.0	3,092.2	3,066.2	9.4	9.8	18.98	1.9	293.4	104.4	85.1	19.29	5.413		
3,200.0	3,186.1	3,192.0	3,163.7	9.8	10.2	18.35	3.3	314.1	111.4	91.3	20.08	5.546		
3,300.0	3,285.1	3,291.7	3,261.3	10.2	10.6	17.79	4.8	334.8	118.3	97.4	20.87	5.668		
3,400.0	3,384.1	3,391.5	3,358.9	10.6	11.0	17.30	6.2	355.5	125.3	103.6	21.68	5.778		
3,500.0	3,483.1	3,491.2	3,456.4	10.9	11.4	16.85	7.7	376.2	132.2	109.7	22.49	5.879		
3,600.0	3,582.2	3,591.0	3,554.0	11.3	11.9	16.45	9.1	396.8	139.2	115.9	23.31	5.972		
3,700.0	3,681.2	3,690.7	3,651.6	11.7	12.3	16.09	10.6	417.5	146.2	122.0	24.13	6.057		
3,800.0	3,780.2	3,790.5	3,749.2	12.1	12.7	15.76	12.0	438.2	153.1	128.2	24.96	6.136		
3,900.0	3,879.2	3,890.2	3,846.7	12.5	13.2	15.46	13.5	458.9	160.1	134.3	25.79	6.208		
4,000.0	3,978.3	3,990.0	3,944.3	12.9	13.6	15.18	14.9	479.6	167.1	140.5	26.63	6.275		
4,100.0	4,077.3	4,089.7	4,041.9	13.3	14.0	14.93	16.3	500.3	174.1	146.6	27.48	6.337		
4,200.0	4,176.3	4,189.5	4,139.4	13.7	14.5	14.70	17.8	521.0	181.1	152.8	28.32	6.395		
4,281.5	4,257.0	4,270.8	4,218.9	14.1	14.8	14.52	19.0	537.8	186.8	157.8	29.00	6.441		
4,300.0	4,275.3	4,289.2	4,237.0	14.1	14.9	14.48	19.2	541.7	188.1	159.0	29.15	6.453		
4,400.0	4,374.5	4,388.9	4,334.5	14.5	15.4	14.21	20.7	562.3	196.3	166.3	30.02	6.540		
4,500.0	4,473.9	4,488.4	4,431.8	14.9	15.8	13.86	22.1	583.0	206.1	175.3	30.86	6.679		
4,600.0	4,573.5	4,587.7	4,529.0	15.3	16.3	13.43	23.6	603.6	217.7	186.0	31.71	6.865		
4,700.0	4,673.2	4,686.8	4,625.9	15.7	16.7	12.95	25.0	624.1	230.9	198.4	32.54	7.096		
4,800.0	4,773.0	4,785.7	4,722.6	16.0	17.2	12.45	26.4	644.6	245.9	212.5	33.36	7.370		
4,900.0	4,873.0	4,884.2	4,819.0	16.3	17.6	11.92	27.9	665.1	262.5	228.4	34.16	7.686		
5,000.0	4,972.9	4,982.5	4,915.1	16.6	18.1	11.40	29.3	685.5	280.9	246.0	34.92	8.043		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-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)			
5,081.5	5,054.4	5,062.3	4,993.2	16.7	18.4	93.97	30.4	702.0	297.1	261.7	35.44	8.383	
5,100.0	5,072.9	5,080.4	5,010.9	16.7	18.5	93.87	30.7	705.8	300.9	265.4	35.54	8.467	
5,200.0	5,172.9	5,182.6	5,110.9	16.8	19.0	93.35	32.2	726.4	321.0	284.9	36.13	8.886	
5,300.0	5,272.9	5,286.8	5,213.3	16.8	19.4	92.93	33.5	745.7	339.5	302.8	36.71	9.248	
5,400.0	5,372.9	5,391.7	5,316.8	16.9	19.9	92.58	34.7	763.3	356.1	318.9	37.27	9.556	
5,500.0	5,472.9	5,497.2	5,421.1	16.9	20.4	92.30	35.8	779.1	371.0	333.2	37.81	9.813	
5,600.0	5,572.9	5,603.3	5,526.3	17.0	20.8	92.07	36.8	793.0	384.1	345.7	38.32	10.022	
5,700.0	5,672.9	5,709.9	5,632.2	17.0	21.2	91.89	37.6	805.0	395.3	356.5	38.82	10.184	
5,800.0	5,772.9	5,816.9	5,738.7	17.1	21.6	91.74	38.4	815.0	404.7	365.4	39.28	10.303	
5,900.0	5,872.9	5,924.2	5,845.7	17.1	22.0	91.62	38.9	823.1	412.2	372.5	39.71	10.381	
6,000.0	5,972.9	6,031.8	5,953.1	17.2	22.4	91.54	39.3	829.3	417.9	377.8	40.11	10.420	
6,100.0	6,072.9	6,139.6	6,060.8	17.2	22.8	91.49	39.6	833.4	421.7	381.3	40.45	10.425	
6,200.0	6,172.9	6,247.5	6,168.7	17.3	23.0	91.46	39.8	835.5	423.7	383.0	40.69	10.412	
6,300.0	6,272.9	6,351.7	6,272.9	17.3	23.1	91.46	39.8	835.8	423.9	383.1	40.80	10.391	
6,400.0	6,372.9	6,451.7	6,372.9	17.4	23.1	91.46	39.8	835.8	423.9	383.1	40.87	10.372	
6,500.0	6,472.9	6,551.7	6,472.9	17.4	23.2	91.46	39.8	835.8	423.9	383.0	40.95	10.352	
6,600.0	6,572.9	6,651.7	6,572.9	17.5	23.2	91.46	39.8	835.8	423.9	382.9	41.03	10.332	
6,700.0	6,672.9	6,751.7	6,672.9	17.5	23.2	91.46	39.8	835.8	423.9	382.8	41.11	10.312	
6,800.0	6,772.9	6,851.7	6,772.9	17.6	23.3	91.46	39.8	835.8	423.9	382.7	41.19	10.292	
6,900.0	6,872.9	6,951.7	6,872.9	17.6	23.3	91.46	39.8	835.8	423.9	382.7	41.27	10.272	
7,000.0	6,972.9	7,051.7	6,972.9	17.7	23.3	91.46	39.8	835.8	423.9	382.6	41.35	10.252	
7,100.0	7,072.9	7,151.7	7,072.9	17.7	23.4	91.46	39.8	835.8	423.9	382.5	41.43	10.232	
7,200.0	7,172.9	7,251.7	7,172.9	17.8	23.4	91.46	39.8	835.8	423.9	382.4	41.51	10.212	
7,300.0	7,272.9	7,351.7	7,272.9	17.8	23.4	91.46	39.8	835.8	423.9	382.3	41.59	10.192	
7,400.0	7,372.9	7,451.7	7,372.9	17.9	23.5	91.46	39.8	835.8	423.9	382.2	41.68	10.172	
7,500.0	7,472.9	7,551.7	7,472.9	17.9	23.5	91.46	39.8	835.8	423.9	382.2	41.76	10.151	
7,600.0	7,572.9	7,651.7	7,572.9	18.0	23.6	91.46	39.8	835.8	423.9	382.1	41.84	10.131	
7,700.0	7,672.9	7,751.7	7,672.9	18.0	23.6	91.46	39.8	835.8	423.9	382.0	41.93	10.111	
7,800.0	7,772.9	7,851.7	7,772.9	18.1	23.6	91.46	39.8	835.8	423.9	381.9	42.01	10.091	
7,900.0	7,872.9	7,951.7	7,872.9	18.1	23.7	91.46	39.8	835.8	423.9	381.8	42.10	10.070	
8,000.0	7,972.9	8,051.7	7,972.9	18.2	23.7	91.46	39.8	835.8	423.9	381.7	42.18	10.050	
8,100.0	8,072.9	8,151.7	8,072.9	18.2	23.7	91.46	39.8	835.8	423.9	381.7	42.27	10.030	
8,200.0	8,172.9	8,251.7	8,172.9	18.3	23.8	91.46	39.8	835.8	423.9	381.6	42.35	10.009	
8,300.0	8,272.9	8,351.7	8,272.9	18.3	23.8	91.46	39.8	835.8	423.9	381.5	42.44	9.989	
8,400.0	8,372.9	8,451.7	8,372.9	18.4	23.8	91.46	39.8	835.8	423.9	381.4	42.53	9.968	
8,500.0	8,472.9	8,551.7	8,472.9	18.4	23.9	91.46	39.8	835.8	423.9	381.3	42.62	9.948	
8,600.0	8,572.9	8,651.7	8,572.9	18.5	23.9	91.46	39.8	835.8	423.9	381.2	42.70	9.927	
8,700.0	8,672.9	8,751.7	8,672.9	18.5	24.0	91.46	39.8	835.8	423.9	381.1	42.79	9.907	
8,800.0	8,772.9	8,851.7	8,772.9	18.6	24.0	91.46	39.8	835.8	423.9	381.0	42.88	9.886	
8,900.0	8,872.9	8,951.7	8,872.9	18.7	24.0	91.46	39.8	835.8	423.9	381.0	42.97	9.866	
9,000.0	8,972.9	9,051.7	8,972.9	18.7	24.1	91.46	39.8	835.8	423.9	380.9	43.06	9.845	
9,100.0	9,072.9	9,151.7	9,072.9	18.8	24.1	91.46	39.8	835.8	423.9	380.8	43.15	9.825	
9,200.0	9,172.9	9,251.7	9,172.9	18.8	24.2	91.46	39.8	835.8	423.9	380.7	43.24	9.804	
9,300.0	9,272.9	9,351.7	9,272.9	18.9	24.2	91.46	39.8	835.8	423.9	380.6	43.33	9.784	
9,400.0	9,372.9	9,451.7	9,372.9	18.9	24.2	91.46	39.8	835.8	423.9	380.5	43.42	9.763	
9,500.0	9,472.9	9,551.7	9,472.9	19.0	24.3	91.46	39.8	835.8	423.9	380.4	43.51	9.742	
9,600.0	9,572.9	9,651.7	9,572.9	19.0	24.3	91.46	39.8	835.8	423.9	380.3	43.61	9.722	
9,700.0	9,672.9	9,751.7	9,672.9	19.1	24.4	91.46	39.8	835.8	423.9	380.2	43.70	9.701	
9,800.0	9,772.9	9,851.7	9,772.9	19.2	24.4	91.46	39.8	835.8	423.9	380.1	43.79	9.681	
9,900.0	9,872.9	9,951.7	9,872.9	19.2	24.4	91.46	39.8	835.8	423.9	380.0	43.88	9.660	
10,000.0	9,972.9	10,051.7	9,972.9	19.3	24.5	91.46	39.8	835.8	423.9	379.9	43.98	9.639	
10,100.0	10,072.9	10,151.7	10,072.9	19.3	24.5	91.46	39.8	835.8	423.9	379.9	44.07	9.619	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-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	
10,200.0	10,172.9	10,251.7	10,172.9	19.4	24.6	91.46	39.8	835.8	423.9	379.8	44.17	9.598	
10,300.0	10,272.9	10,351.7	10,272.9	19.4	24.6	91.46	39.8	835.8	423.9	379.7	44.26	9.578	
10,400.0	10,372.9	10,451.7	10,372.9	19.5	24.6	91.46	39.8	835.8	423.9	379.6	44.36	9.557	
10,500.0	10,472.9	10,551.7	10,472.9	19.5	24.7	91.46	39.8	835.8	423.9	379.5	44.45	9.536	
10,600.0	10,572.9	10,651.7	10,572.9	19.6	24.7	91.46	39.8	835.8	423.9	379.4	44.55	9.516	
10,700.0	10,672.9	10,751.7	10,672.9	19.7	24.8	91.46	39.8	835.8	423.9	379.3	44.65	9.495	
10,800.0	10,772.9	10,851.7	10,772.9	19.7	24.8	91.46	39.8	835.8	423.9	379.2	44.74	9.475	
10,900.0	10,872.9	10,951.7	10,872.9	19.8	24.9	91.46	39.8	835.8	423.9	379.1	44.84	9.454	
11,000.0	10,972.9	11,051.7	10,972.9	19.8	24.9	91.46	39.8	835.8	423.9	379.0	44.94	9.434	
11,100.0	11,072.9	11,151.7	11,072.9	19.9	24.9	91.46	39.8	835.8	423.9	378.9	45.04	9.413	
11,200.0	11,172.9	11,251.7	11,172.9	20.0	25.0	91.46	39.8	835.8	423.9	378.8	45.13	9.393	
11,212.0	11,184.9	11,263.7	11,184.9	20.0	25.0	91.46	39.8	835.8	423.9	378.8	45.15	9.390	
11,300.0	11,272.9	11,351.4	11,272.6	20.0	25.0	91.48	39.7	835.8	423.9	378.8	45.13	9.394	
11,400.0	11,372.9	11,446.8	11,367.1	20.1	25.0	93.08	27.8	835.9	424.5	379.4	45.15	9.403	
11,462.6	11,435.5	11,502.8	11,420.8	20.1	25.0	95.19	12.1	836.0	426.0	380.9	45.11	9.443	
11,475.0	11,447.9	11,513.5	11,430.8	20.1	25.0	-83.91	8.4	836.0	426.4	381.4	44.98	9.481	
11,500.0	11,472.9	11,534.8	11,450.5	20.1	25.0	-82.86	0.4	836.0	427.4	382.5	44.96	9.507	
11,525.0	11,497.8	11,555.8	11,469.6	20.1	25.0	-81.83	-8.4	836.1	428.5	383.6	44.95	9.535	
11,550.0	11,522.4	11,575.0	11,486.7	20.1	25.0	-80.88	-17.2	836.1	429.8	384.8	44.97	9.558	
11,575.0	11,546.9	11,597.1	11,506.0	20.1	25.0	-79.84	-28.1	836.2	431.1	386.2	44.95	9.591	
11,600.0	11,571.0	11,617.4	11,523.2	20.1	25.0	-78.89	-38.9	836.3	432.5	387.6	44.97	9.619	
11,625.0	11,594.8	11,637.6	11,539.8	20.1	25.0	-77.96	-50.4	836.4	434.0	389.0	45.00	9.645	
11,650.0	11,618.2	11,657.5	11,555.7	20.1	25.0	-77.07	-62.4	836.4	435.6	390.5	45.04	9.670	
11,675.0	11,641.0	11,677.3	11,571.0	20.1	25.1	-76.22	-74.9	836.5	437.2	392.1	45.10	9.693	
11,700.0	11,663.3	11,696.9	11,585.6	20.1	25.1	-75.39	-88.0	836.6	438.8	393.6	45.17	9.714	
11,725.0	11,684.9	11,716.4	11,599.6	20.1	25.1	-74.61	-101.5	836.7	440.4	395.1	45.25	9.732	
11,750.0	11,705.9	11,735.7	11,613.0	20.1	25.1	-73.86	-115.5	836.8	442.0	396.7	45.35	9.747	
11,775.0	11,726.1	11,755.0	11,625.6	20.1	25.1	-73.15	-130.0	836.9	443.6	398.2	45.46	9.759	
11,800.0	11,745.5	11,775.0	11,638.2	20.2	25.1	-72.45	-145.5	837.0	445.2	399.6	45.56	9.772	
11,825.0	11,764.1	11,793.0	11,649.0	20.2	25.1	-71.84	-160.0	837.1	446.7	401.0	45.71	9.774	
11,850.0	11,781.8	11,811.9	11,659.6	20.2	25.1	-71.25	-175.6	837.2	448.2	402.4	45.84	9.777	
11,875.0	11,798.5	11,830.7	11,669.7	20.2	25.1	-70.70	-191.5	837.3	449.6	403.6	45.99	9.777	
11,900.0	11,814.3	11,850.0	11,679.3	20.2	25.1	-70.19	-208.2	837.4	451.0	404.8	46.13	9.776	
11,925.0	11,829.0	11,868.1	11,687.6	20.2	25.1	-69.73	-224.2	837.5	452.2	405.9	46.29	9.768	
11,950.0	11,842.6	11,886.6	11,695.6	20.2	25.1	-69.31	-241.0	837.6	453.4	406.9	46.45	9.760	
11,975.0	11,855.1	11,905.1	11,702.9	20.2	25.2	-68.93	-258.0	837.7	454.4	407.8	46.61	9.750	
12,000.0	11,866.4	11,925.0	11,710.0	20.3	25.2	-68.58	-276.5	837.8	455.4	408.6	46.74	9.742	
12,025.0	11,876.6	11,942.0	11,715.5	20.3	25.2	-68.31	-292.7	837.9	456.2	409.3	46.92	9.723	
12,050.0	11,885.6	11,960.4	11,720.7	20.3	25.2	-68.06	-310.3	838.1	456.9	409.9	47.08	9.706	
12,075.0	11,893.3	11,978.7	11,725.2	20.3	25.2	-67.86	-328.0	838.2	457.5	410.3	47.23	9.688	
12,100.0	11,899.8	12,000.0	11,729.7	20.4	25.2	-67.69	-348.8	838.3	458.0	410.7	47.33	9.677	
12,125.0	11,905.0	12,015.4	11,732.3	20.4	25.3	-67.59	-364.0	838.4	458.3	410.8	47.50	9.649	
12,150.0	11,908.9	12,033.6	11,734.8	20.4	25.3	-67.52	-382.1	838.5	458.6	410.9	47.63	9.627	
12,175.0	11,911.5	12,050.0	11,736.4	20.4	25.3	-67.50	-398.4	838.6	458.6	410.9	47.77	9.601	
12,200.0	11,912.8	12,070.2	11,737.6	20.5	25.3	-67.52	-418.5	838.8	458.6	410.7	47.86	9.582	
12,212.6	11,913.0	12,079.4	11,737.9	20.5	25.3	-67.55	-427.7	838.8	458.5	410.6	47.91	9.570	
12,247.1	11,913.0	12,110.3	11,738.0	20.5	25.4	-67.56	-458.6	839.0	458.4	410.4	48.02	9.547	
12,300.0	11,913.0	12,163.2	11,738.0	20.6	25.4	-67.56	-511.5	839.4	458.4	410.3	48.16	9.519	
12,400.0	11,913.0	12,263.2	11,738.0	20.8	25.6	-67.56	-611.5	840.0	458.4	410.0	48.46	9.459	
12,500.0	11,913.0	12,363.2	11,738.0	21.0	25.8	-67.56	-711.5	840.7	458.4	409.6	48.81	9.391	
12,600.0	11,913.0	12,463.2	11,738.0	21.3	26.0	-67.56	-811.5	841.3	458.4	409.2	49.21	9.316	
12,700.0	11,913.0	12,563.2	11,738.0	21.5	26.2	-67.56	-911.5	842.0	458.4	408.8	49.65	9.233	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-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)			
12,800.0	11,913.0	12,663.2	11,738.0	21.8	26.4	-67.56	-1,011.5	842.6	458.4	408.3	50.13	9.145	
12,900.0	11,913.0	12,763.2	11,738.0	22.1	26.7	-67.56	-1,111.5	843.3	458.4	407.8	50.65	9.050	
13,000.0	11,913.0	12,863.2	11,738.0	22.5	27.0	-67.56	-1,211.5	843.9	458.4	407.2	51.22	8.951	
13,100.0	11,913.0	12,963.2	11,738.0	22.8	27.2	-67.56	-1,311.5	844.6	458.4	406.6	51.82	8.847	
13,200.0	11,913.0	13,063.2	11,738.0	23.2	27.6	-67.56	-1,411.5	845.2	458.4	406.0	52.45	8.740	
13,300.0	11,913.0	13,163.2	11,738.0	23.6	27.9	-67.56	-1,511.5	845.9	458.4	405.3	53.13	8.629	
13,400.0	11,913.0	13,263.2	11,738.0	24.0	28.2	-67.56	-1,611.5	846.5	458.4	404.6	53.84	8.515	
13,500.0	11,913.0	13,363.2	11,738.0	24.4	28.6	-67.56	-1,711.5	847.2	458.4	403.8	54.58	8.400	
13,600.0	11,913.0	13,463.2	11,738.0	24.8	29.0	-67.56	-1,811.5	847.8	458.4	403.1	55.35	8.282	
13,700.0	11,913.0	13,563.2	11,738.0	25.3	29.4	-67.56	-1,911.5	848.5	458.4	402.3	56.15	8.164	
13,800.0	11,913.0	13,663.2	11,738.0	25.8	29.8	-67.56	-2,011.5	849.1	458.4	401.4	56.99	8.045	
13,900.0	11,913.0	13,763.2	11,738.0	26.2	30.2	-67.56	-2,111.5	849.8	458.4	400.6	57.85	7.925	
14,000.0	11,913.0	13,863.2	11,738.0	26.7	30.6	-67.56	-2,211.5	850.4	458.4	399.7	58.73	7.805	
14,100.0	11,913.0	13,963.2	11,738.0	27.2	31.1	-67.56	-2,311.5	851.1	458.4	398.8	59.65	7.686	
14,200.0	11,913.0	14,063.2	11,738.0	27.8	31.5	-67.56	-2,411.5	851.7	458.4	397.8	60.58	7.567	
14,300.0	11,913.0	14,163.2	11,738.0	28.3	32.0	-67.56	-2,511.5	852.4	458.4	396.9	61.54	7.449	
14,400.0	11,913.0	14,263.2	11,738.0	28.8	32.5	-67.56	-2,611.5	853.0	458.4	395.9	62.52	7.332	
14,500.0	11,913.0	14,363.2	11,738.0	29.4	33.0	-67.56	-2,711.5	853.7	458.4	394.9	63.53	7.216	
14,600.0	11,913.0	14,463.2	11,738.0	29.9	33.5	-67.56	-2,811.5	854.3	458.4	393.9	64.55	7.102	
14,700.0	11,913.0	14,563.2	11,738.0	30.5	34.0	-67.56	-2,911.5	855.0	458.4	392.8	65.59	6.989	
14,800.0	11,913.0	14,663.2	11,738.0	31.1	34.5	-67.56	-3,011.4	855.6	458.4	391.8	66.65	6.878	
14,900.0	11,913.0	14,763.2	11,738.0	31.7	35.0	-67.56	-3,111.4	856.3	458.4	390.7	67.73	6.768	
15,000.0	11,913.0	14,863.2	11,738.0	32.3	35.6	-67.56	-3,211.4	856.9	458.4	389.6	68.83	6.661	
15,100.0	11,913.0	14,963.2	11,738.0	32.9	36.1	-67.56	-3,311.4	857.6	458.4	388.5	69.94	6.555	
15,200.0	11,913.0	15,063.2	11,738.0	33.5	36.7	-67.56	-3,411.4	858.2	458.4	387.4	71.06	6.451	
15,300.0	11,913.0	15,163.2	11,738.0	34.1	37.2	-67.56	-3,511.4	858.9	458.4	386.2	72.20	6.349	
15,400.0	11,913.0	15,263.2	11,738.0	34.7	37.8	-67.56	-3,611.4	859.5	458.4	385.1	73.35	6.250	
15,500.0	11,913.0	15,363.2	11,738.0	35.3	38.4	-67.56	-3,711.4	860.2	458.4	383.9	74.52	6.152	
15,600.0	11,913.0	15,463.2	11,738.0	36.0	38.9	-67.56	-3,811.4	860.8	458.4	382.7	75.70	6.056	
15,700.0	11,913.0	15,563.2	11,738.0	36.6	39.5	-67.56	-3,911.4	861.5	458.4	381.5	76.89	5.962	
15,800.0	11,913.0	15,663.2	11,738.0	37.2	40.1	-67.56	-4,011.4	862.1	458.4	380.3	78.09	5.871	
15,900.0	11,913.0	15,763.2	11,738.0	37.9	40.7	-67.56	-4,111.4	862.8	458.4	379.1	79.30	5.781	
16,000.0	11,913.0	15,863.2	11,738.0	38.5	41.3	-67.56	-4,211.4	863.4	458.4	377.9	80.52	5.693	
16,100.0	11,913.0	15,963.2	11,738.0	39.2	41.9	-67.56	-4,311.4	864.1	458.4	376.7	81.76	5.607	
16,200.0	11,913.0	16,063.2	11,738.0	39.8	42.5	-67.56	-4,411.4	864.7	458.4	375.4	83.00	5.523	
16,300.0	11,913.0	16,163.2	11,738.0	40.5	43.1	-67.56	-4,511.4	865.4	458.4	374.2	84.25	5.441	
16,400.0	11,913.0	16,263.2	11,738.0	41.2	43.8	-67.56	-4,611.4	866.1	458.4	372.9	85.51	5.361	
16,500.0	11,913.0	16,363.2	11,738.0	41.8	44.4	-67.56	-4,711.4	866.7	458.4	371.7	86.77	5.283	
16,600.0	11,913.0	16,463.2	11,738.0	42.5	45.0	-67.56	-4,811.4	867.4	458.4	370.4	88.05	5.206	
16,700.0	11,913.0	16,563.2	11,738.0	43.2	45.7	-67.56	-4,911.4	868.0	458.4	369.1	89.33	5.132	
16,800.0	11,913.0	16,663.2	11,738.0	43.8	46.3	-67.56	-5,011.4	868.7	458.4	367.8	90.62	5.059	
16,900.0	11,913.0	16,763.2	11,738.0	44.5	46.9	-67.56	-5,111.4	869.3	458.4	366.5	91.92	4.987	
17,000.0	11,913.0	16,863.2	11,738.0	45.2	47.6	-67.56	-5,211.4	870.0	458.4	365.2	93.22	4.918	
17,100.0	11,913.0	16,963.2	11,738.0	45.9	48.2	-67.56	-5,311.4	870.6	458.4	363.9	94.53	4.849	
17,200.0	11,913.0	17,063.2	11,738.0	46.6	48.9	-67.56	-5,411.4	871.3	458.4	362.6	95.85	4.783	
17,300.0	11,913.0	17,163.2	11,738.0	47.3	49.5	-67.56	-5,511.4	871.9	458.4	361.3	97.17	4.718	
17,400.0	11,913.0	17,263.2	11,738.0	48.0	50.2	-67.56	-5,611.4	872.6	458.4	359.9	98.49	4.654	
17,500.0	11,913.0	17,363.2	11,738.0	48.7	50.9	-67.56	-5,711.4	873.2	458.4	358.6	99.83	4.592	
17,600.0	11,913.0	17,463.2	11,738.0	49.4	51.5	-67.56	-5,811.4	873.9	458.4	357.3	101.16	4.532	
17,700.0	11,913.0	17,563.2	11,738.0	50.1	52.2	-67.56	-5,911.4	874.5	458.4	355.9	102.51	4.472	
17,800.0	11,913.0	17,663.2	11,738.0	50.8	52.9	-67.56	-6,011.4	875.2	458.4	354.6	103.85	4.414	
17,900.0	11,913.0	17,763.2	11,738.0	51.5	53.5	-67.56	-6,111.4	875.8	458.4	353.2	105.20	4.357	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-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)			
18,000.0	11,913.0	17,863.2	11,738.0	52.2	54.2	-67.56	-6,211.4	876.5	458.4	351.9	106.56	4.302	
18,100.0	11,913.0	17,963.2	11,738.0	52.9	54.9	-67.56	-6,311.4	877.1	458.4	350.5	107.92	4.248	
18,200.0	11,913.0	18,063.2	11,738.0	53.6	55.6	-67.56	-6,411.4	877.8	458.4	349.1	109.28	4.195	
18,300.0	11,913.0	18,163.2	11,738.0	54.3	56.3	-67.56	-6,511.4	878.4	458.4	347.8	110.65	4.143	
18,400.0	11,913.0	18,263.2	11,738.0	55.0	56.9	-67.56	-6,611.4	879.1	458.4	346.4	112.02	4.092	
18,500.0	11,913.0	18,363.2	11,738.0	55.7	57.6	-67.56	-6,711.4	879.7	458.4	345.0	113.40	4.043	
18,600.0	11,913.0	18,463.2	11,738.0	56.4	58.3	-67.56	-6,811.4	880.4	458.4	343.6	114.78	3.994	
18,700.0	11,913.0	18,563.2	11,738.0	57.1	59.0	-67.56	-6,911.4	881.0	458.4	342.3	116.16	3.946	
18,800.0	11,913.0	18,663.2	11,738.0	57.8	59.7	-67.56	-7,011.4	881.7	458.4	340.9	117.55	3.900	
18,900.0	11,913.0	18,763.2	11,738.0	58.6	60.4	-67.56	-7,111.4	882.3	458.4	339.5	118.94	3.854	
19,000.0	11,913.0	18,863.2	11,738.0	59.3	61.1	-67.56	-7,211.4	883.0	458.4	338.1	120.33	3.810	
19,100.0	11,913.0	18,963.2	11,738.0	60.0	61.8	-67.56	-7,311.4	883.6	458.4	336.7	121.72	3.766	
19,200.0	11,913.0	19,063.2	11,738.0	60.7	62.5	-67.56	-7,411.4	884.3	458.4	335.3	123.12	3.723	
19,300.0	11,913.0	19,163.2	11,738.0	61.4	63.2	-67.56	-7,511.4	884.9	458.4	333.9	124.52	3.682	
19,400.0	11,913.0	19,263.2	11,738.0	62.2	63.9	-67.56	-7,611.4	885.6	458.4	332.5	125.92	3.641	
19,500.0	11,913.0	19,363.2	11,738.0	62.9	64.6	-67.56	-7,711.4	886.2	458.4	331.1	127.33	3.600	
19,600.0	11,913.0	19,463.2	11,738.0	63.6	65.3	-67.56	-7,811.3	886.9	458.4	329.7	128.74	3.561	
19,700.0	11,913.0	19,563.2	11,738.0	64.3	66.0	-67.56	-7,911.3	887.5	458.4	328.3	130.15	3.522	
19,800.0	11,913.0	19,663.2	11,738.0	65.1	66.7	-67.56	-8,011.3	888.2	458.4	326.9	131.56	3.485	
19,900.0	11,913.0	19,763.2	11,738.0	65.8	67.4	-67.56	-8,111.3	888.8	458.4	325.5	132.97	3.448	
20,000.0	11,913.0	19,863.2	11,738.0	66.5	68.1	-67.56	-8,211.3	889.5	458.4	324.0	134.39	3.411	
20,100.0	11,913.0	19,963.2	11,738.0	67.2	68.8	-67.56	-8,311.3	890.1	458.4	322.6	135.81	3.376	
20,200.0	11,913.0	20,063.2	11,738.0	68.0	69.5	-67.56	-8,411.3	890.8	458.4	321.2	137.23	3.341	
20,300.0	11,913.0	20,163.2	11,738.0	68.7	70.2	-67.56	-8,511.3	891.4	458.4	319.8	138.65	3.306	
20,400.0	11,913.0	20,263.2	11,738.0	69.4	71.0	-67.56	-8,611.3	892.1	458.4	318.3	140.08	3.273	
20,500.0	11,913.0	20,363.2	11,738.0	70.2	71.7	-67.56	-8,711.3	892.7	458.4	316.9	141.50	3.240	
20,600.0	11,913.0	20,463.2	11,738.0	70.9	72.4	-67.56	-8,811.3	893.4	458.4	315.5	142.93	3.207	
20,700.0	11,913.0	20,563.2	11,738.0	71.6	73.1	-67.56	-8,911.3	894.0	458.4	314.1	144.36	3.176	
20,800.0	11,913.0	20,663.2	11,738.0	72.3	73.8	-67.56	-9,011.3	894.7	458.4	312.6	145.79	3.144	
20,900.0	11,913.0	20,763.2	11,738.0	73.1	74.5	-67.56	-9,111.3	895.3	458.4	311.2	147.23	3.114	
21,000.0	11,913.0	20,863.2	11,738.0	73.8	75.3	-67.56	-9,211.3	896.0	458.4	309.8	148.66	3.084	
21,100.0	11,913.0	20,963.2	11,738.0	74.6	76.0	-67.56	-9,311.3	896.6	458.4	308.3	150.10	3.054	
21,200.0	11,913.0	21,063.2	11,738.0	75.3	76.7	-67.56	-9,411.3	897.3	458.4	306.9	151.54	3.025	
21,300.0	11,913.0	21,163.2	11,738.0	76.0	77.4	-67.56	-9,511.3	897.9	458.4	305.4	152.98	2.997	
21,400.0	11,913.0	21,263.2	11,738.0	76.8	78.1	-67.56	-9,611.3	898.6	458.4	304.0	154.42	2.969	
21,500.0	11,913.0	21,363.2	11,738.0	77.5	78.9	-67.56	-9,711.3	899.2	458.4	302.6	155.86	2.941	
21,600.0	11,913.0	21,463.2	11,738.0	78.2	79.6	-67.56	-9,811.3	899.9	458.4	301.1	157.31	2.914	
21,700.0	11,913.0	21,563.2	11,738.0	79.0	80.3	-67.56	-9,911.3	900.6	458.4	299.7	158.75	2.888	
21,779.6	11,913.0	21,642.8	11,738.0	79.6	80.9	-67.56	-9,990.9	901.1	458.4	298.5	159.90	2.867	
21,800.0	11,913.0	21,663.2	11,738.0	79.7	81.0	-67.56	-10,011.3	901.2	458.4	298.2	160.19	2.862	
21,829.6	11,913.0	21,692.8	11,738.0	79.9	81.2	-67.56	-10,040.9	901.4	458.4	297.8	160.62	2.854	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	1.0	1.0	3.0	3.0	123.77	-33.6	50.3	60.5	53.5	6.98	8.669		
100.0	100.0	101.0	101.0	3.1	3.1	123.77	-33.6	50.3	60.5	53.3	7.23	8.374		
200.0	200.0	201.0	201.0	3.2	3.3	123.77	-33.6	50.3	60.5	53.1	7.46	8.108		
300.0	300.0	301.0	301.0	3.4	3.4	123.77	-33.6	50.3	60.5	52.8	7.70	7.864		
400.0	400.0	401.0	401.0	3.5	3.5	123.77	-33.6	50.3	60.5	52.6	7.92	7.639		
500.0	500.0	501.0	501.0	3.6	3.6	123.77	-33.6	50.3	60.5	52.4	8.14	7.432		
600.0	600.0	601.0	601.0	3.7	3.7	123.77	-33.6	50.3	60.5	52.2	8.36	7.240		
700.0	700.0	701.0	701.0	3.9	3.9	123.77	-33.6	50.3	60.5	51.9	8.57	7.061		
800.0	800.0	801.0	801.0	4.0	4.0	123.77	-33.6	50.3	60.5	51.7	8.78	6.893		
900.0	900.0	901.0	901.0	4.1	4.1	123.77	-33.6	50.3	60.5	51.5	8.98	6.736		
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	123.77	-33.6	50.3	60.5	51.3	9.19	6.589		
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	123.77	-33.6	50.3	60.5	51.1	9.38	6.450		
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	123.77	-33.6	50.3	60.5	50.9	9.58	6.318		
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	123.77	-33.6	50.3	60.5	50.7	9.77	6.193		
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	123.77	-33.6	50.3	60.5	50.6	9.96	6.075		
1,466.3	1,466.3	1,467.3	1,467.3	4.8	4.8	123.77	-33.6	50.3	60.5	50.4	10.09	6.000 CC		
1,500.0	1,500.0	1,501.0	1,501.0	4.8	4.8	123.77	-33.6	50.3	60.5	50.5	10.02	6.040		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	40.88	-33.6	52.1	60.6	50.5	10.12	5.993		
1,604.4	1,604.4	1,603.7	1,603.6	4.9	4.9	40.89	-33.6	52.2	60.6	50.5	10.13	5.984		
1,700.0	1,699.8	1,697.6	1,697.5	5.1	5.1	41.23	-33.4	57.1	60.9	50.3	10.55	5.769		
1,800.0	1,799.5	1,795.9	1,795.4	5.3	5.3	41.83	-33.1	65.6	61.2	50.3	10.99	5.571 ES		
1,900.0	1,898.7	1,894.2	1,893.0	5.6	5.6	42.67	-32.7	77.4	61.8	50.3	11.45	5.397		
2,000.0	1,997.7	1,992.5	1,990.1	5.8	5.9	42.67	-32.2	92.5	63.8	51.9	11.88	5.369		
2,100.0	2,096.8	2,090.6	2,086.4	6.1	6.2	40.95	-31.5	110.9	68.5	56.1	12.36	5.543		
2,200.0	2,195.8	2,188.2	2,181.6	6.4	6.6	38.03	-30.8	132.5	76.1	63.2	12.90	5.900		
2,300.0	2,294.8	2,287.4	2,277.8	6.7	6.9	34.89	-29.9	156.5	85.7	72.2	13.49	6.350		
2,400.0	2,393.8	2,386.8	2,374.3	7.0	7.2	32.37	-29.1	180.5	95.5	81.4	14.12	6.761		
2,500.0	2,492.9	2,486.2	2,470.8	7.3	7.6	30.32	-28.3	204.6	105.4	90.7	14.79	7.132		
2,600.0	2,591.9	2,585.7	2,567.3	7.6	7.9	28.63	-27.4	228.6	115.5	100.0	15.47	7.464		
2,700.0	2,690.9	2,685.1	2,663.8	8.0	8.3	27.21	-26.6	252.6	125.7	109.5	16.19	7.762		
2,800.0	2,789.9	2,784.6	2,760.3	8.3	8.7	26.01	-25.7	276.7	135.9	119.0	16.92	8.029		
2,900.0	2,889.0	2,884.0	2,856.7	8.7	9.1	24.97	-24.9	300.7	146.1	128.5	17.67	8.269		
3,000.0	2,988.0	2,983.4	2,953.2	9.0	9.5	24.07	-24.1	324.8	156.4	138.0	18.44	8.483		
3,100.0	3,087.0	3,082.9	3,049.7	9.4	9.9	23.28	-23.2	348.8	166.8	147.6	19.22	8.677		
3,200.0	3,186.1	3,182.3	3,146.2	9.8	10.3	22.58	-22.4	372.9	177.1	157.1	20.01	8.851		
3,300.0	3,285.1	3,281.8	3,242.7	10.2	10.7	21.96	-21.5	396.9	187.5	166.7	20.82	9.008		
3,400.0	3,384.1	3,381.2	3,339.2	10.6	11.1	21.40	-20.7	420.9	197.9	176.3	21.63	9.151		
3,500.0	3,483.1	3,480.6	3,435.7	10.9	11.6	20.90	-19.9	445.0	208.4	185.9	22.45	9.281		
3,600.0	3,582.2	3,580.1	3,532.1	11.3	12.0	20.45	-19.0	469.0	218.8	195.5	23.28	9.399		
3,700.0	3,681.2	3,679.5	3,628.6	11.7	12.5	20.04	-18.2	493.1	229.3	205.2	24.11	9.508		
3,800.0	3,780.2	3,779.0	3,725.1	12.1	12.9	19.66	-17.3	517.1	239.7	214.8	24.95	9.607		
3,900.0	3,879.2	3,878.4	3,821.6	12.5	13.3	19.32	-16.5	541.1	250.2	224.4	25.80	9.698		
4,000.0	3,978.3	3,977.8	3,918.1	12.9	13.8	19.00	-15.7	565.2	260.7	234.0	26.65	9.781		
4,100.0	4,077.3	4,077.3	4,014.6	13.3	14.2	18.71	-14.8	589.2	271.2	243.7	27.51	9.859		
4,200.0	4,176.3	4,176.7	4,111.1	13.7	14.7	18.44	-14.0	613.3	281.7	253.3	28.36	9.930		
4,281.5	4,257.0	4,257.7	4,189.7	14.1	15.1	18.24	-13.3	632.9	290.2	261.2	29.06	9.988		
4,300.0	4,275.3	4,276.2	4,207.5	14.1	15.2	18.20	-13.1	637.3	292.2	263.0	29.21	10.003		
4,400.0	4,374.5	4,375.5	4,303.9	14.5	15.6	17.93	-12.3	661.3	303.8	273.7	30.08	10.099		
4,500.0	4,473.9	4,474.6	4,400.0	14.9	16.1	17.59	-11.5	685.3	317.1	286.2	30.95	10.248		
4,600.0	4,573.5	4,573.4	4,496.0	15.3	16.5	17.20	-10.6	709.2	332.1	300.3	31.80	10.442		
4,700.0	4,673.2	4,672.0	4,591.6	15.7	17.0	16.77	-9.8	733.0	348.7	316.1	32.65	10.680		
4,800.0	4,773.0	4,770.2	4,686.9	16.0	17.5	16.30	-9.0	756.8	367.0	333.5	33.48	10.961		

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,873.0	4,868.1	4,781.9	16.3	17.9	15.82	-8.1	780.4	387.0	352.7	34.30	11.283	
5,000.0	4,972.9	4,965.7	4,876.6	16.6	18.4	15.33	-7.3	804.0	408.6	373.5	35.08	11.649	
5,081.5	5,054.4	5,044.9	4,953.4	16.7	18.7	97.92	-6.7	823.2	427.5	391.9	35.62	12.002	
5,100.0	5,072.9	5,062.9	4,970.9	16.7	18.8	97.82	-6.5	827.5	431.9	396.2	35.72	12.092	
5,200.0	5,172.9	5,159.9	5,065.0	16.8	19.3	97.30	-5.7	851.0	455.8	419.5	36.31	12.554	
5,300.0	5,272.9	5,256.9	5,159.2	16.8	19.7	96.84	-4.9	874.4	479.7	442.8	36.89	13.004	
5,400.0	5,372.9	5,354.0	5,253.3	16.9	20.2	96.41	-4.0	897.9	503.6	466.2	37.47	13.442	
5,500.0	5,472.9	5,451.0	5,347.5	16.9	20.7	96.03	-3.2	921.4	527.6	489.5	38.05	13.866	
5,600.0	5,572.9	5,548.0	5,441.6	17.0	21.1	95.68	-2.4	944.8	551.6	512.9	38.63	14.277	
5,700.0	5,672.9	5,645.0	5,535.8	17.0	21.6	95.36	-1.6	968.3	575.6	536.3	39.22	14.675	
5,800.0	5,772.9	5,742.1	5,629.9	17.1	22.1	95.06	-0.8	991.7	599.6	559.8	39.81	15.062	
5,900.0	5,872.9	5,839.1	5,724.1	17.1	22.5	94.79	0.1	1,015.2	623.6	583.2	40.40	15.437	
6,000.0	5,972.9	5,936.1	5,818.2	17.2	23.0	94.54	0.9	1,038.7	647.6	606.7	40.99	15.800	
6,100.0	6,072.9	6,033.2	5,912.4	17.2	23.4	94.30	1.7	1,062.1	671.7	630.1	41.58	16.153	
6,200.0	6,172.9	6,130.2	6,006.5	17.3	23.9	94.08	2.5	1,085.6	695.7	653.6	42.17	16.497	
6,300.0	6,272.9	6,238.5	6,111.8	17.3	24.4	93.86	3.4	1,111.1	719.2	676.4	42.84	16.788	
6,400.0	6,372.9	6,350.3	6,220.9	17.4	24.9	93.67	4.2	1,135.3	740.8	697.3	43.52	17.022	
6,500.0	6,472.9	6,463.0	6,331.4	17.4	25.5	93.50	5.0	1,157.6	760.5	716.3	44.18	17.215	
6,600.0	6,572.9	6,576.6	6,443.1	17.5	26.0	93.35	5.7	1,177.9	778.3	733.5	44.81	17.367	
6,700.0	6,672.9	6,691.0	6,556.0	17.5	26.5	93.23	6.4	1,196.0	794.1	748.7	45.42	17.482	
6,800.0	6,772.9	6,806.0	6,670.0	17.6	27.0	93.12	6.9	1,212.0	808.0	762.0	46.01	17.562	
6,900.0	6,872.9	6,921.7	6,784.8	17.6	27.4	93.04	7.4	1,225.8	819.8	773.3	46.55	17.611	
7,000.0	6,972.9	7,037.8	6,900.4	17.7	27.9	92.97	7.8	1,237.3	829.7	782.6	47.06	17.630	
7,100.0	7,072.9	7,154.4	7,016.6	17.7	28.3	92.91	8.1	1,246.5	837.6	790.0	47.53	17.621	
7,200.0	7,172.9	7,271.3	7,133.3	17.8	28.8	92.87	8.4	1,253.3	843.4	795.4	47.95	17.588	
7,300.0	7,272.9	7,388.5	7,250.4	17.8	29.1	92.85	8.5	1,257.8	847.2	798.9	48.31	17.536	
7,400.0	7,372.9	7,505.8	7,367.7	17.9	29.4	92.83	8.6	1,259.9	848.9	800.4	48.59	17.473	
7,500.0	7,472.9	7,612.0	7,473.9	17.9	29.5	92.83	8.6	1,260.0	849.1	800.5	48.63	17.461	
7,600.0	7,572.9	7,712.0	7,573.9	18.0	29.5	92.83	8.6	1,260.0	849.1	800.4	48.69	17.437	
7,700.0	7,672.9	7,812.0	7,673.9	18.0	29.5	92.83	8.6	1,260.0	849.1	800.3	48.76	17.412	
7,800.0	7,772.9	7,912.0	7,773.9	18.1	29.6	92.83	8.6	1,260.0	849.1	800.2	48.83	17.388	
7,900.0	7,872.9	8,012.0	7,873.9	18.1	29.6	92.83	8.6	1,260.0	849.1	800.2	48.90	17.363	
8,000.0	7,972.9	8,112.0	7,973.9	18.2	29.6	92.83	8.6	1,260.0	849.1	800.1	48.97	17.338	
8,100.0	8,072.9	8,212.0	8,073.9	18.2	29.7	92.83	8.6	1,260.0	849.1	800.0	49.04	17.314	
8,200.0	8,172.9	8,312.0	8,173.9	18.3	29.7	92.83	8.6	1,260.0	849.1	800.0	49.11	17.289	
8,300.0	8,272.9	8,412.0	8,273.9	18.3	29.7	92.83	8.6	1,260.0	849.1	799.9	49.18	17.264	
8,400.0	8,372.9	8,512.0	8,373.9	18.4	29.7	92.83	8.6	1,260.0	849.1	799.8	49.25	17.239	
8,500.0	8,472.9	8,612.0	8,473.9	18.4	29.8	92.83	8.6	1,260.0	849.1	799.8	49.33	17.214	
8,600.0	8,572.9	8,712.0	8,573.9	18.5	29.8	92.83	8.6	1,260.0	849.1	799.7	49.40	17.188	
8,700.0	8,672.9	8,812.0	8,673.9	18.5	29.8	92.83	8.6	1,260.0	849.1	799.6	49.47	17.163	
8,800.0	8,772.9	8,912.0	8,773.9	18.6	29.8	92.83	8.6	1,260.0	849.1	799.5	49.54	17.138	
8,900.0	8,872.9	9,012.0	8,873.9	18.7	29.9	92.83	8.6	1,260.0	849.1	799.5	49.62	17.112	
9,000.0	8,972.9	9,112.0	8,973.9	18.7	29.9	92.83	8.6	1,260.0	849.1	799.4	49.69	17.087	
9,100.0	9,072.9	9,212.0	9,073.9	18.8	29.9	92.83	8.6	1,260.0	849.1	799.3	49.77	17.061	
9,200.0	9,172.9	9,312.0	9,173.9	18.8	30.0	92.83	8.6	1,260.0	849.1	799.2	49.84	17.036	
9,300.0	9,272.9	9,412.0	9,273.9	18.9	30.0	92.83	8.6	1,260.0	849.1	799.2	49.92	17.010	
9,400.0	9,372.9	9,512.0	9,373.9	18.9	30.0	92.83	8.6	1,260.0	849.1	799.1	49.99	16.984	
9,500.0	9,472.9	9,612.0	9,473.9	19.0	30.0	92.83	8.6	1,260.0	849.1	799.0	50.07	16.958	
9,600.0	9,572.9	9,712.0	9,573.9	19.0	30.1	92.83	8.6	1,260.0	849.1	798.9	50.14	16.933	
9,700.0	9,672.9	9,812.0	9,673.9	19.1	30.1	92.83	8.6	1,260.0	849.1	798.9	50.22	16.907	
9,800.0	9,772.9	9,912.0	9,773.9	19.2	30.1	92.83	8.6	1,260.0	849.1	798.8	50.30	16.881	
9,900.0	9,872.9	10,012.0	9,873.9	19.2	30.2	92.83	8.6	1,260.0	849.1	798.7	50.38	16.855	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.0	9,972.9	10,112.0	9,973.9	19.3	30.2	92.83	8.6	1,260.0	849.1	798.6	50.45	16.829	
10,100.0	10,072.9	10,212.0	10,073.9	19.3	30.2	92.83	8.6	1,260.0	849.1	798.5	50.53	16.802	
10,200.0	10,172.9	10,312.0	10,173.9	19.4	30.3	92.83	8.6	1,260.0	849.1	798.5	50.61	16.776	
10,300.0	10,272.9	10,412.0	10,273.9	19.4	30.3	92.83	8.6	1,260.0	849.1	798.4	50.69	16.750	
10,400.0	10,372.9	10,512.0	10,373.9	19.5	30.3	92.83	8.6	1,260.0	849.1	798.3	50.77	16.724	
10,500.0	10,472.9	10,612.0	10,473.9	19.5	30.3	92.83	8.6	1,260.0	849.1	798.2	50.85	16.697	
10,600.0	10,572.9	10,712.0	10,573.9	19.6	30.4	92.83	8.6	1,260.0	849.1	798.1	50.93	16.671	
10,700.0	10,672.9	10,812.0	10,673.9	19.7	30.4	92.83	8.6	1,260.0	849.1	798.1	51.01	16.645	
10,800.0	10,772.9	10,912.0	10,773.9	19.7	30.4	92.83	8.6	1,260.0	849.1	798.0	51.09	16.618	
10,900.0	10,872.9	11,012.0	10,873.9	19.8	30.5	92.83	8.6	1,260.0	849.1	797.9	51.17	16.592	
11,000.0	10,972.9	11,112.0	10,973.9	19.8	30.5	92.83	8.6	1,260.0	849.1	797.8	51.26	16.565	
11,100.0	11,072.9	11,212.0	11,073.9	19.9	30.5	92.83	8.6	1,260.0	849.1	797.7	51.34	16.539	
11,200.0	11,172.9	11,312.0	11,173.9	20.0	30.6	92.83	8.6	1,260.0	849.1	797.7	51.42	16.512	
11,300.0	11,272.9	11,412.0	11,273.9	20.0	30.6	92.83	8.6	1,260.0	849.1	797.6	51.51	16.485	
11,400.0	11,372.9	11,512.0	11,373.9	20.1	30.6	92.83	8.6	1,260.0	849.1	797.5	51.59	16.459	
11,462.6	11,435.5	11,574.6	11,436.5	20.1	30.6	92.83	8.6	1,260.0	849.1	797.5	51.63	16.447	
11,475.0	11,447.9	11,585.9	11,447.8	20.1	30.7	-86.79	8.5	1,260.0	849.1	797.7	51.42	16.513	
11,500.0	11,472.9	11,608.7	11,470.5	20.1	30.7	-86.80	7.4	1,260.0	849.1	797.6	51.44	16.506	
11,525.0	11,497.8	11,631.4	11,493.2	20.1	30.7	-86.82	5.2	1,260.0	849.1	797.6	51.46	16.499	
11,550.0	11,522.4	11,654.2	11,515.7	20.1	30.7	-86.84	2.0	1,260.1	849.0	797.6	51.48	16.491	
11,575.0	11,546.9	11,676.9	11,538.0	20.1	30.7	-86.87	-2.3	1,260.1	849.0	797.5	51.51	16.484	
11,600.0	11,571.0	11,700.0	11,560.5	20.1	30.7	-86.91	-7.8	1,260.1	849.0	797.5	51.53	16.477	
11,625.0	11,594.8	11,722.6	11,582.1	20.1	30.7	-86.96	-14.1	1,260.2	848.9	797.4	51.55	16.469	
11,650.0	11,618.2	11,745.4	11,603.7	20.1	30.7	-87.02	-21.6	1,260.2	848.9	797.3	51.57	16.461	
11,675.0	11,641.0	11,768.3	11,624.9	20.1	30.7	-87.08	-30.1	1,260.3	848.9	797.3	51.59	16.453	
11,700.0	11,663.3	11,791.2	11,645.8	20.1	30.7	-87.15	-39.7	1,260.3	848.8	797.2	51.61	16.445	
11,725.0	11,684.9	11,814.2	11,666.2	20.1	30.7	-87.23	-50.2	1,260.4	848.7	797.1	51.63	16.438	
11,750.0	11,705.9	11,837.2	11,686.1	20.1	30.7	-87.31	-61.8	1,260.5	848.7	797.0	51.66	16.430	
11,775.0	11,726.1	11,860.3	11,705.4	20.1	30.7	-87.40	-74.3	1,260.6	848.6	796.9	51.68	16.422	
11,800.0	11,745.5	11,883.4	11,724.2	20.2	30.7	-87.50	-87.8	1,260.7	848.6	796.9	51.70	16.415	
11,825.0	11,764.1	11,906.6	11,742.4	20.2	30.7	-87.61	-102.2	1,260.7	848.5	796.8	51.71	16.407	
11,850.0	11,781.8	11,929.9	11,759.9	20.2	30.7	-87.72	-117.5	1,260.8	848.4	796.7	51.73	16.400	
11,875.0	11,798.5	11,953.2	11,776.6	20.2	30.7	-87.83	-133.7	1,260.9	848.4	796.6	51.75	16.392	
11,900.0	11,814.3	11,976.6	11,792.7	20.2	30.7	-87.96	-150.8	1,261.1	848.3	796.5	51.77	16.385	
11,925.0	11,829.0	12,000.0	11,807.8	20.2	30.7	-88.08	-168.7	1,261.2	848.2	796.4	51.79	16.377	
11,950.0	11,842.6	12,023.6	11,822.2	20.2	30.7	-88.22	-187.4	1,261.3	848.2	796.3	51.81	16.370	
11,975.0	11,855.1	12,047.3	11,835.7	20.2	30.7	-88.36	-206.8	1,261.4	848.1	796.3	51.83	16.362	
12,000.0	11,866.4	12,071.0	11,848.2	20.3	30.7	-88.50	-227.0	1,261.6	848.0	796.2	51.85	16.355	
12,025.0	11,876.6	12,094.9	11,859.8	20.3	30.7	-88.65	-247.9	1,261.7	848.0	796.1	51.87	16.347	
12,050.0	11,885.6	12,118.8	11,870.3	20.3	30.8	-88.80	-269.4	1,261.8	847.9	796.0	51.90	16.339	
12,075.0	11,893.3	12,142.9	11,879.8	20.3	30.8	-88.95	-291.4	1,262.0	847.9	796.0	51.92	16.331	
12,100.0	11,899.8	12,167.0	11,888.2	20.4	30.8	-89.11	-314.1	1,262.1	847.9	795.9	51.94	16.322	
12,125.0	11,905.0	12,191.3	11,895.5	20.4	30.8	-89.27	-337.2	1,262.3	847.8	795.8	51.97	16.314	
12,150.0	11,908.9	12,215.7	11,901.6	20.4	30.8	-89.43	-360.9	1,262.4	847.8	795.8	52.00	16.305	
12,175.0	11,911.5	12,240.2	11,906.6	20.4	30.8	-89.59	-384.9	1,262.6	847.8	795.7	52.02	16.296	
12,200.0	11,912.8	12,264.8	11,910.3	20.5	30.9	-89.76	-409.2	1,262.7	847.8	795.7	52.05	16.286	
12,212.6	11,913.0	12,277.3	11,911.7	20.5	30.9	-89.84	-421.6	1,262.8	847.8	795.7	52.07	16.281	
12,254.1	11,913.0	12,318.6	11,914.0	20.6	30.9	-90.00	-462.8	1,263.1	847.7	795.6	52.14	16.258	
12,300.0	11,913.0	12,364.5	11,914.0	20.6	31.0	-90.00	-508.7	1,263.4	847.7	795.5	52.25	16.224	
12,400.0	11,913.0	12,464.5	11,914.0	20.8	31.1	-90.00	-608.7	1,264.0	847.7	795.2	52.53	16.139	
12,500.0	11,913.0	12,564.5	11,914.0	21.0	31.2	-90.00	-708.7	1,264.7	847.7	794.9	52.85	16.041	
12,600.0	11,913.0	12,664.5	11,914.0	21.3	31.4	-90.00	-808.7	1,265.3	847.7	794.5	53.21	15.933	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-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	
12,700.0	11,913.0	12,764.5	11,914.0	21.5	31.6	-90.00	-908.7	1,266.0	847.7	794.1	53.61	15.814	
12,800.0	11,913.0	12,864.5	11,914.0	21.8	31.8	-90.00	-1,008.7	1,266.6	847.7	793.7	54.05	15.685	
12,900.0	11,913.0	12,964.5	11,914.0	22.1	32.0	-90.00	-1,108.7	1,267.3	847.7	793.2	54.53	15.547	
13,000.0	11,913.0	13,064.5	11,914.0	22.5	32.2	-90.00	-1,208.7	1,267.9	847.7	792.7	55.04	15.401	
13,100.0	11,913.0	13,164.5	11,914.0	22.8	32.5	-90.00	-1,308.7	1,268.6	847.7	792.1	55.60	15.248	
13,200.0	11,913.0	13,264.5	11,914.0	23.2	32.7	-90.00	-1,408.7	1,269.2	847.7	791.6	56.18	15.089	
13,300.0	11,913.0	13,364.5	11,914.0	23.6	33.0	-90.00	-1,508.7	1,269.9	847.7	790.9	56.81	14.924	
13,400.0	11,913.0	13,464.5	11,914.0	24.0	33.3	-90.00	-1,608.7	1,270.5	847.7	790.3	57.46	14.754	
13,500.0	11,913.0	13,564.5	11,914.0	24.4	33.6	-90.00	-1,708.7	1,271.2	847.7	789.6	58.15	14.579	
13,600.0	11,913.0	13,664.5	11,914.0	24.8	33.9	-90.00	-1,808.7	1,271.8	847.7	788.9	58.86	14.402	
13,700.0	11,913.0	13,764.5	11,914.0	25.3	34.3	-90.00	-1,908.7	1,272.5	847.7	788.1	59.61	14.221	
13,800.0	11,913.0	13,864.5	11,914.0	25.8	34.6	-90.00	-2,008.7	1,273.1	847.7	787.4	60.39	14.038	
13,900.0	11,913.0	13,964.5	11,914.0	26.2	35.0	-90.00	-2,108.7	1,273.8	847.7	786.5	61.19	13.854	
14,000.0	11,913.0	14,064.5	11,914.0	26.7	35.3	-90.00	-2,208.7	1,274.4	847.7	785.7	62.02	13.669	
14,100.0	11,913.0	14,164.5	11,914.0	27.2	35.7	-90.00	-2,308.7	1,275.1	847.7	784.9	62.88	13.483	
14,200.0	11,913.0	14,264.5	11,914.0	27.8	36.1	-90.00	-2,408.7	1,275.7	847.7	784.0	63.75	13.297	
14,300.0	11,913.0	14,364.5	11,914.0	28.3	36.5	-90.00	-2,508.7	1,276.4	847.7	783.1	64.66	13.111	
14,400.0	11,913.0	14,464.5	11,914.0	28.8	37.0	-90.00	-2,608.7	1,277.0	847.7	782.2	65.58	12.926	
14,500.0	11,913.0	14,564.5	11,914.0	29.4	37.4	-90.00	-2,708.7	1,277.7	847.7	781.2	66.53	12.742	
14,600.0	11,913.0	14,664.5	11,914.0	29.9	37.8	-90.00	-2,808.7	1,278.3	847.7	780.2	67.50	12.560	
14,700.0	11,913.0	14,764.5	11,914.0	30.5	38.3	-90.00	-2,908.7	1,279.0	847.7	779.3	68.48	12.379	
14,800.0	11,913.0	14,864.5	11,914.0	31.1	38.7	-90.00	-3,008.7	1,279.7	847.7	778.2	69.49	12.200	
14,900.0	11,913.0	14,964.5	11,914.0	31.7	39.2	-90.00	-3,108.7	1,280.3	847.7	777.2	70.51	12.023	
15,000.0	11,913.0	15,064.5	11,914.0	32.3	39.7	-90.00	-3,208.7	1,281.0	847.7	776.2	71.55	11.848	
15,100.0	11,913.0	15,164.5	11,914.0	32.9	40.2	-90.00	-3,308.7	1,281.6	847.7	775.1	72.61	11.676	
15,200.0	11,913.0	15,264.5	11,914.0	33.5	40.7	-90.00	-3,408.7	1,282.3	847.7	774.1	73.68	11.506	
15,300.0	11,913.0	15,364.5	11,914.0	34.1	41.2	-90.00	-3,508.7	1,282.9	847.7	773.0	74.77	11.338	
15,400.0	11,913.0	15,464.5	11,914.0	34.7	41.7	-90.00	-3,608.7	1,283.6	847.7	771.9	75.87	11.173	
15,500.0	11,913.0	15,564.5	11,914.0	35.3	42.2	-90.00	-3,708.7	1,284.2	847.7	770.7	76.99	11.011	
15,600.0	11,913.0	15,664.5	11,914.0	36.0	42.7	-90.00	-3,808.7	1,284.9	847.7	769.6	78.11	10.852	
15,700.0	11,913.0	15,764.5	11,914.0	36.6	43.3	-90.00	-3,908.7	1,285.5	847.7	768.5	79.26	10.696	
15,800.0	11,913.0	15,864.5	11,914.0	37.2	43.8	-90.00	-4,008.7	1,286.2	847.7	767.3	80.41	10.543	
15,900.0	11,913.0	15,964.5	11,914.0	37.9	44.4	-90.00	-4,108.7	1,286.8	847.7	766.2	81.58	10.392	
16,000.0	11,913.0	16,064.5	11,914.0	38.5	44.9	-90.00	-4,208.7	1,287.5	847.7	765.0	82.75	10.244	
16,100.0	11,913.0	16,164.5	11,914.0	39.2	45.5	-90.00	-4,308.7	1,288.1	847.7	763.8	83.94	10.099	
16,200.0	11,913.0	16,264.5	11,914.0	39.8	46.0	-90.00	-4,408.7	1,288.8	847.7	762.6	85.14	9.957	
16,300.0	11,913.0	16,364.5	11,914.0	40.5	46.6	-90.00	-4,508.7	1,289.4	847.7	761.4	86.34	9.818	
16,400.0	11,913.0	16,464.5	11,914.0	41.2	47.2	-90.00	-4,608.7	1,290.1	847.7	760.2	87.56	9.682	
16,500.0	11,913.0	16,564.5	11,914.0	41.8	47.8	-90.00	-4,708.7	1,290.7	847.7	758.9	88.78	9.548	
16,600.0	11,913.0	16,664.5	11,914.0	42.5	48.3	-90.00	-4,808.7	1,291.4	847.7	757.7	90.02	9.417	
16,700.0	11,913.0	16,764.5	11,914.0	43.2	48.9	-90.00	-4,908.7	1,292.0	847.7	756.5	91.26	9.289	
16,800.0	11,913.0	16,864.5	11,914.0	43.8	49.5	-90.00	-5,008.7	1,292.7	847.7	755.2	92.51	9.164	
16,900.0	11,913.0	16,964.5	11,914.0	44.5	50.1	-90.00	-5,108.6	1,293.3	847.7	754.0	93.77	9.041	
17,000.0	11,913.0	17,064.5	11,914.0	45.2	50.7	-90.00	-5,208.6	1,294.0	847.7	752.7	95.03	8.920	
17,100.0	11,913.0	17,164.5	11,914.0	45.9	51.3	-90.00	-5,308.6	1,294.6	847.7	751.4	96.30	8.803	
17,200.0	11,913.0	17,264.5	11,914.0	46.6	52.0	-90.00	-5,408.6	1,295.3	847.7	750.1	97.58	8.687	
17,300.0	11,913.0	17,364.5	11,914.0	47.3	52.6	-90.00	-5,508.6	1,295.9	847.7	748.9	98.87	8.574	
17,400.0	11,913.0	17,464.5	11,914.0	48.0	53.2	-90.00	-5,608.6	1,296.6	847.7	747.6	100.16	8.464	
17,500.0	11,913.0	17,564.5	11,914.0	48.7	53.8	-90.00	-5,708.6	1,297.2	847.7	746.3	101.45	8.356	
17,600.0	11,913.0	17,664.5	11,914.0	49.4	54.4	-90.00	-5,808.6	1,297.9	847.7	745.0	102.76	8.250	
17,700.0	11,913.0	17,764.5	11,914.0	50.1	55.1	-90.00	-5,908.6	1,298.5	847.7	743.7	104.07	8.146	
17,800.0	11,913.0	17,864.5	11,914.0	50.8	55.7	-90.00	-6,008.6	1,299.2	847.7	742.3	105.38	8.044	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,900.0	11,913.0	17,964.5	11,914.0	51.5	56.3	-90.00	-6,108.6	1,299.8	847.7	741.0	106.70	7.945	
18,000.0	11,913.0	18,064.5	11,914.0	52.2	57.0	-90.00	-6,208.6	1,300.5	847.7	739.7	108.02	7.848	
18,100.0	11,913.0	18,164.5	11,914.0	52.9	57.6	-90.00	-6,308.6	1,301.1	847.7	738.4	109.35	7.752	
18,200.0	11,913.0	18,264.5	11,914.0	53.6	58.3	-90.00	-6,408.6	1,301.8	847.7	737.0	110.68	7.659	
18,300.0	11,913.0	18,364.5	11,914.0	54.3	58.9	-90.00	-6,508.6	1,302.4	847.7	735.7	112.02	7.568	
18,400.0	11,913.0	18,464.5	11,914.0	55.0	59.6	-90.00	-6,608.6	1,303.1	847.7	734.4	113.36	7.478	
18,500.0	11,913.0	18,564.5	11,914.0	55.7	60.2	-90.00	-6,708.6	1,303.7	847.7	733.0	114.71	7.390	
18,600.0	11,913.0	18,664.5	11,914.0	56.4	60.9	-90.00	-6,808.6	1,304.4	847.7	731.7	116.06	7.304	
18,700.0	11,913.0	18,764.5	11,914.0	57.1	61.5	-90.00	-6,908.6	1,305.0	847.7	730.3	117.41	7.220	
18,800.0	11,913.0	18,864.5	11,914.0	57.8	62.2	-90.00	-7,008.6	1,305.7	847.7	728.9	118.77	7.138	
18,900.0	11,913.0	18,964.5	11,914.0	58.6	62.9	-90.00	-7,108.6	1,306.3	847.7	727.6	120.13	7.057	
19,000.0	11,913.0	19,064.5	11,914.0	59.3	63.5	-90.00	-7,208.6	1,307.0	847.7	726.2	121.49	6.978	
19,100.0	11,913.0	19,164.5	11,914.0	60.0	64.2	-90.00	-7,308.6	1,307.6	847.7	724.9	122.86	6.900	
19,200.0	11,913.0	19,264.5	11,914.0	60.7	64.9	-90.00	-7,408.6	1,308.3	847.7	723.5	124.23	6.824	
19,300.0	11,913.0	19,364.5	11,914.0	61.4	65.5	-90.00	-7,508.6	1,308.9	847.7	722.1	125.60	6.749	
19,400.0	11,913.0	19,464.5	11,914.0	62.2	66.2	-90.00	-7,608.6	1,309.6	847.7	720.7	126.98	6.676	
19,500.0	11,913.0	19,564.5	11,914.0	62.9	66.9	-90.00	-7,708.6	1,310.2	847.7	719.3	128.36	6.604	
19,600.0	11,913.0	19,664.5	11,914.0	63.6	67.6	-90.00	-7,808.6	1,310.9	847.7	718.0	129.74	6.534	
19,700.0	11,913.0	19,764.5	11,914.0	64.3	68.2	-90.00	-7,908.6	1,311.5	847.7	716.6	131.13	6.465	
19,800.0	11,913.0	19,864.5	11,914.0	65.1	68.9	-90.00	-8,008.6	1,312.2	847.7	715.2	132.52	6.397	
19,900.0	11,913.0	19,964.5	11,914.0	65.8	69.6	-90.00	-8,108.6	1,312.8	847.7	713.8	133.91	6.331	
20,000.0	11,913.0	20,064.5	11,914.0	66.5	70.3	-90.00	-8,208.6	1,313.5	847.7	712.4	135.30	6.265	
20,100.0	11,913.0	20,164.5	11,914.0	67.2	71.0	-90.00	-8,308.6	1,314.1	847.7	711.0	136.69	6.201	
20,200.0	11,913.0	20,264.5	11,914.0	68.0	71.7	-90.00	-8,408.6	1,314.8	847.7	709.6	138.09	6.139	
20,300.0	11,913.0	20,364.5	11,914.0	68.7	72.4	-90.00	-8,508.6	1,315.4	847.7	708.2	139.49	6.077	
20,400.0	11,913.0	20,464.5	11,914.0	69.4	73.1	-90.00	-8,608.6	1,316.1	847.7	706.8	140.89	6.017	
20,500.0	11,913.0	20,564.5	11,914.0	70.2	73.7	-90.00	-8,708.6	1,316.7	847.7	705.4	142.30	5.957	
20,600.0	11,913.0	20,664.5	11,914.0	70.9	74.4	-90.00	-8,808.6	1,317.4	847.7	704.0	143.71	5.899	
20,700.0	11,913.0	20,764.5	11,914.0	71.6	75.1	-90.00	-8,908.6	1,318.0	847.7	702.6	145.11	5.842	
20,800.0	11,913.0	20,864.5	11,914.0	72.3	75.8	-90.00	-9,008.6	1,318.7	847.7	701.2	146.52	5.785	
20,900.0	11,913.0	20,964.5	11,914.0	73.1	76.5	-90.00	-9,108.6	1,319.3	847.7	699.8	147.94	5.730	
21,000.0	11,913.0	21,064.5	11,914.0	73.8	77.2	-90.00	-9,208.6	1,320.0	847.7	698.4	149.35	5.676	
21,100.0	11,913.0	21,164.5	11,914.0	74.6	77.9	-90.00	-9,308.6	1,320.6	847.7	696.9	150.77	5.623	
21,200.0	11,913.0	21,264.5	11,914.0	75.3	78.6	-90.00	-9,408.6	1,321.3	847.7	695.5	152.18	5.570	
21,300.0	11,913.0	21,364.5	11,914.0	76.0	79.3	-90.00	-9,508.6	1,321.9	847.7	694.1	153.60	5.519	
21,400.0	11,913.0	21,464.5	11,914.0	76.8	80.0	-90.00	-9,608.6	1,322.6	847.7	692.7	155.02	5.468	
21,500.0	11,913.0	21,564.5	11,914.0	77.5	80.7	-90.00	-9,708.6	1,323.2	847.7	691.3	156.45	5.418	
21,600.0	11,913.0	21,664.5	11,914.0	78.2	81.4	-90.00	-9,808.6	1,323.9	847.7	689.8	157.87	5.370	
21,700.0	11,913.0	21,764.5	11,914.0	79.0	82.1	-90.00	-9,908.6	1,324.5	847.7	688.4	159.30	5.322	
21,779.6	11,913.0	21,844.2	11,914.0	79.6	82.7	-90.00	-9,988.2	1,325.0	847.7	687.3	160.43	5.284	
21,800.0	11,913.0	21,864.5	11,914.0	79.7	82.9	-90.00	-10,008.5	1,325.2	847.7	687.0	160.72	5.274	
21,829.6	11,913.0	21,894.1	11,914.0	79.9	83.1	-90.00	-10,038.1	1,325.4	847.7	686.6	161.14	5.261 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11461-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)		
0.0	0.0	1.0	1.0	3.0	3.0	123.75	-50.4	75.4	90.7	83.8	6.98	12.997	
100.0	100.0	101.0	101.0	3.1	3.1	123.75	-50.4	75.4	90.7	83.5	7.23	12.555	
200.0	200.0	201.0	201.0	3.2	3.3	123.75	-50.4	75.4	90.7	83.3	7.46	12.155	
300.0	300.0	301.0	301.0	3.4	3.4	123.75	-50.4	75.4	90.7	83.0	7.70	11.789	
400.0	400.0	401.0	401.0	3.5	3.5	123.75	-50.4	75.4	90.7	82.8	7.92	11.453	
500.0	500.0	501.0	501.0	3.6	3.6	123.75	-50.4	75.4	90.7	82.6	8.14	11.142	
600.0	600.0	601.0	601.0	3.7	3.7	123.75	-50.4	75.4	90.7	82.4	8.36	10.854	
700.0	700.0	701.0	701.0	3.9	3.9	123.75	-50.4	75.4	90.7	82.2	8.57	10.586	
800.0	800.0	801.0	801.0	4.0	4.0	123.75	-50.4	75.4	90.7	82.0	8.78	10.335	
900.0	900.0	901.0	901.0	4.1	4.1	123.75	-50.4	75.4	90.7	81.7	8.98	10.099	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	123.75	-50.4	75.4	90.7	81.5	9.19	9.878	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	123.75	-50.4	75.4	90.7	81.3	9.38	9.669	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	123.75	-50.4	75.4	90.7	81.2	9.58	9.472	
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	123.75	-50.4	75.4	90.7	81.0	9.77	9.285	
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	123.75	-50.4	75.4	90.7	80.8	9.96	9.108	
1,466.3	1,466.3	1,467.3	1,467.3	4.8	4.8	123.75	-50.4	75.4	90.7	80.6	10.09	8.996 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	123.75	-50.4	75.4	90.7	80.6	10.15	8.941	
1,600.0	1,600.0	1,598.4	1,598.4	4.9	4.9	40.84	-50.4	77.1	90.8	80.7	10.11	8.983	
1,700.0	1,699.8	1,695.9	1,695.7	5.1	5.0	41.14	-50.3	82.1	91.1	80.5	10.55	8.636	
1,800.0	1,799.5	1,793.4	1,792.9	5.3	5.3	41.64	-50.1	90.4	91.5	80.5	10.99	8.324 ES	
1,900.0	1,898.7	1,890.8	1,889.6	5.6	5.6	42.33	-49.9	102.1	92.1	80.6	11.45	8.042	
2,000.0	1,997.7	1,988.3	1,985.9	5.8	5.9	42.51	-49.7	116.9	94.1	82.2	11.88	7.923 SF	
2,100.0	2,096.8	2,085.5	2,081.4	6.1	6.2	41.54	-49.4	135.1	98.9	86.6	12.35	8.010	
2,200.0	2,195.8	2,182.3	2,175.9	6.4	6.6	39.65	-49.0	156.3	106.5	93.6	12.87	8.278	
2,300.0	2,294.8	2,278.4	2,268.9	6.7	6.9	37.17	-48.6	180.5	117.1	103.6	13.44	8.713	
2,400.0	2,393.8	2,376.7	2,363.4	7.0	7.3	34.56	-48.1	207.5	129.9	115.8	14.06	9.235	
2,500.0	2,492.9	2,475.7	2,458.5	7.3	7.6	32.38	-47.6	234.8	143.0	128.2	14.72	9.709	
2,600.0	2,591.9	2,574.7	2,553.7	7.6	8.0	30.57	-47.2	262.1	156.2	140.8	15.42	10.133	
2,700.0	2,690.9	2,673.7	2,648.9	8.0	8.3	29.04	-46.7	289.4	169.6	153.5	16.13	10.512	
2,800.0	2,789.9	2,772.7	2,744.1	8.3	8.7	27.74	-46.2	316.7	183.1	166.2	16.88	10.851	
2,900.0	2,889.0	2,871.7	2,839.2	8.7	9.1	26.62	-45.7	344.0	196.7	179.0	17.63	11.153	
3,000.0	2,988.0	2,970.7	2,934.4	9.0	9.5	25.64	-45.2	371.3	210.3	191.9	18.41	11.423	
3,100.0	3,087.0	3,069.7	3,029.6	9.4	9.9	24.78	-44.8	398.5	224.0	204.8	19.20	11.666	
3,200.0	3,186.1	3,168.7	3,124.7	9.8	10.3	24.02	-44.3	425.8	237.7	217.7	20.01	11.884	
3,300.0	3,285.1	3,267.8	3,219.9	10.2	10.8	23.34	-43.8	453.1	251.5	230.7	20.82	12.080	
3,400.0	3,384.1	3,366.8	3,315.1	10.6	11.2	22.74	-43.3	480.4	265.3	243.7	21.64	12.258	
3,500.0	3,483.1	3,465.8	3,410.2	10.9	11.7	22.19	-42.9	507.7	279.1	256.7	22.48	12.419	
3,600.0	3,582.2	3,564.8	3,505.4	11.3	12.1	21.70	-42.4	535.0	293.0	269.7	23.32	12.565	
3,700.0	3,681.2	3,663.8	3,600.6	11.7	12.5	21.25	-41.9	562.2	306.9	282.7	24.17	12.698	
3,800.0	3,780.2	3,762.8	3,695.8	12.1	13.0	20.83	-41.4	589.5	320.8	295.7	25.02	12.820	
3,900.0	3,879.2	3,861.8	3,790.9	12.5	13.4	20.46	-41.0	616.8	334.7	308.8	25.88	12.931	
4,000.0	3,978.3	3,960.8	3,886.1	12.9	13.9	20.11	-40.5	644.1	348.6	321.8	26.74	13.034	
4,100.0	4,077.3	4,059.8	3,981.3	13.3	14.4	19.79	-40.0	671.4	362.5	334.9	27.61	13.128	
4,200.0	4,176.3	4,158.8	4,076.4	13.7	14.8	19.49	-39.5	698.7	376.4	348.0	28.49	13.215	
4,281.5	4,257.0	4,239.5	4,154.0	14.1	15.2	19.27	-39.1	720.9	387.8	358.6	29.19	13.286	
4,300.0	4,275.3	4,257.8	4,171.6	14.1	15.3	19.22	-39.1	726.0	390.4	361.1	29.35	13.304	
4,400.0	4,374.5	4,356.6	4,266.6	14.5	15.8	18.96	-38.6	753.2	405.5	375.3	30.23	13.412	
4,500.0	4,473.9	4,455.2	4,361.3	14.9	16.2	18.65	-38.1	780.4	422.2	391.1	31.11	13.573	
4,600.0	4,573.5	4,553.4	4,455.8	15.3	16.7	18.30	-37.6	807.4	440.6	408.6	31.97	13.780	
4,700.0	4,673.2	4,651.4	4,549.9	15.7	17.2	17.92	-37.2	834.4	460.6	427.8	32.83	14.030	
4,800.0	4,773.0	4,748.9	4,643.7	16.0	17.6	17.51	-36.7	861.3	482.3	448.6	33.67	14.323	
4,900.0	4,873.0	4,846.1	4,737.1	16.3	18.1	17.09	-36.2	888.1	505.6	471.1	34.49	14.658	

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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11461-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	
5,000.0	4,972.9	4,942.8	4,830.1	16.6	18.6	16.66	-35.8	914.7	530.6	495.3	35.28	15.037	
5,081.5	5,054.4	5,021.3	4,905.5	16.7	18.9	99.31	-35.4	936.4	552.1	516.3	35.83	15.409	
5,100.0	5,072.9	5,039.1	4,922.6	16.7	19.0	99.22	-35.3	941.3	557.2	521.2	35.94	15.504	
5,200.0	5,172.9	5,135.2	5,015.0	16.8	19.5	98.74	-34.8	967.8	584.3	547.8	36.54	15.991	
5,300.0	5,272.9	5,231.3	5,107.4	16.8	20.0	98.30	-34.4	994.3	611.5	574.4	37.14	16.467	
5,400.0	5,372.9	5,327.5	5,199.8	16.9	20.4	97.90	-33.9	1,020.8	638.8	601.1	37.74	16.928	
5,500.0	5,472.9	5,423.6	5,292.2	16.9	20.9	97.54	-33.4	1,047.2	666.1	627.7	38.34	17.375	
5,600.0	5,572.9	5,519.7	5,384.6	17.0	21.4	97.20	-33.0	1,073.7	693.4	654.4	38.94	17.807	
5,700.0	5,672.9	5,615.8	5,477.0	17.0	21.8	96.89	-32.5	1,100.2	720.7	681.1	39.54	18.226	
5,800.0	5,772.9	5,712.0	5,569.4	17.1	22.3	96.60	-32.1	1,126.7	748.0	707.8	40.15	18.631	
5,900.0	5,872.9	5,808.1	5,661.8	17.1	22.8	96.33	-31.6	1,153.2	775.3	734.6	40.76	19.024	
6,000.0	5,972.9	5,904.2	5,754.2	17.2	23.3	96.08	-31.1	1,179.7	802.7	761.3	41.37	19.404	
6,100.0	6,072.9	6,000.3	5,846.6	17.2	23.7	95.84	-30.7	1,206.2	830.1	788.1	41.98	19.772	
6,200.0	6,172.9	6,096.5	5,939.0	17.3	24.2	95.62	-30.2	1,232.7	857.5	814.9	42.60	20.129	
6,300.0	6,272.9	6,198.2	6,036.9	17.3	24.7	95.41	-29.7	1,260.5	884.7	841.4	43.25	20.455	
6,400.0	6,372.9	6,302.8	6,137.8	17.4	25.2	95.21	-29.2	1,288.2	911.0	867.1	43.93	20.739	
6,500.0	6,472.9	6,407.9	6,239.4	17.4	25.7	95.02	-28.8	1,315.1	936.5	891.9	44.60	20.996	
6,600.0	6,572.9	6,513.5	6,341.7	17.5	26.2	94.85	-28.3	1,341.3	961.1	915.8	45.27	21.228	
6,700.0	6,672.9	6,619.6	6,444.7	17.5	26.7	94.70	-27.9	1,366.5	984.8	938.9	45.94	21.436	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL @ 3175.0usft

Offset Depths are relative to Offset Datum

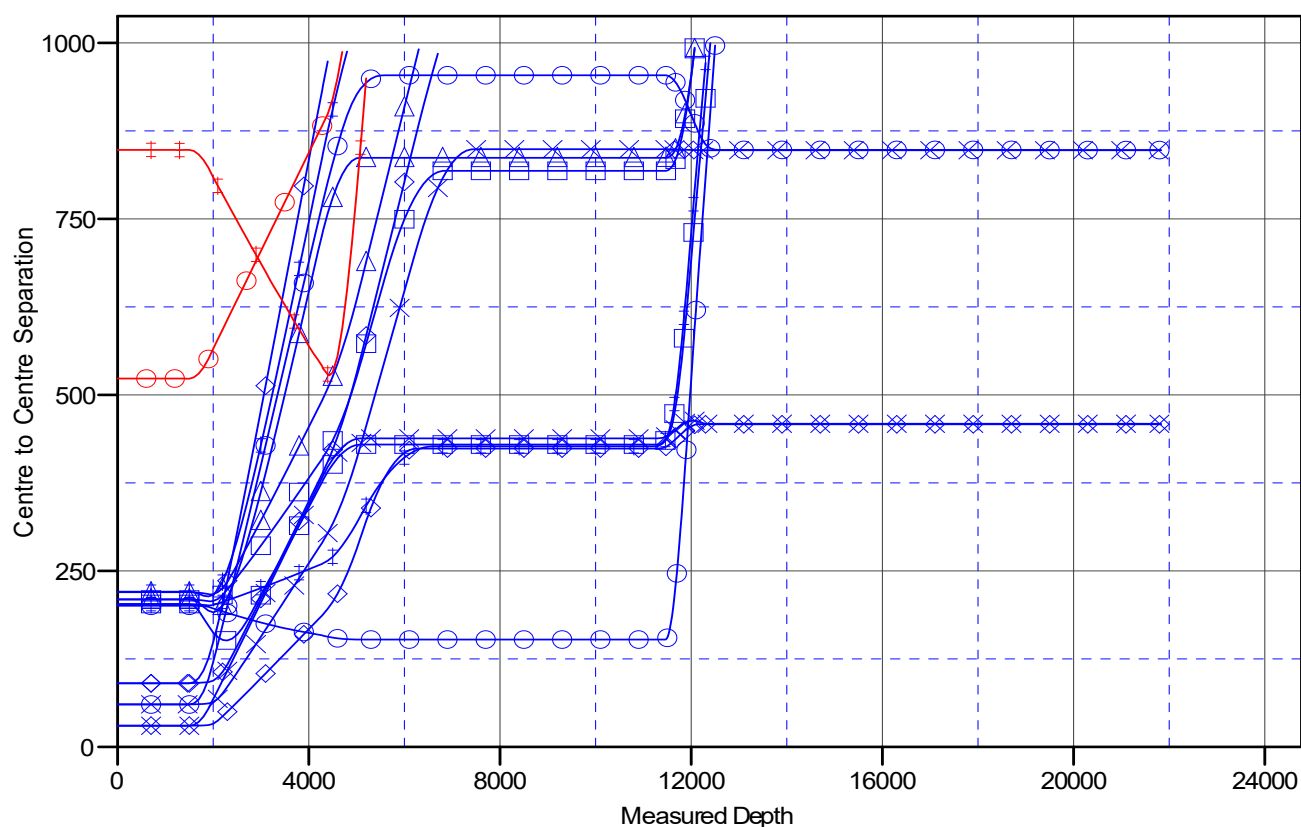
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #754H

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 #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #709H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #759H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #751H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #753H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #708H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #758H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #702H, OWB, PWP0 V0	RUSSELL FEDERAL #12, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #707H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #707H, OWB, PWP0 V0	RUSSELL FEDERAL #6 (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 2032 WC #754H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL @ 3175.0usft

Offset Depths are relative to Offset Datum

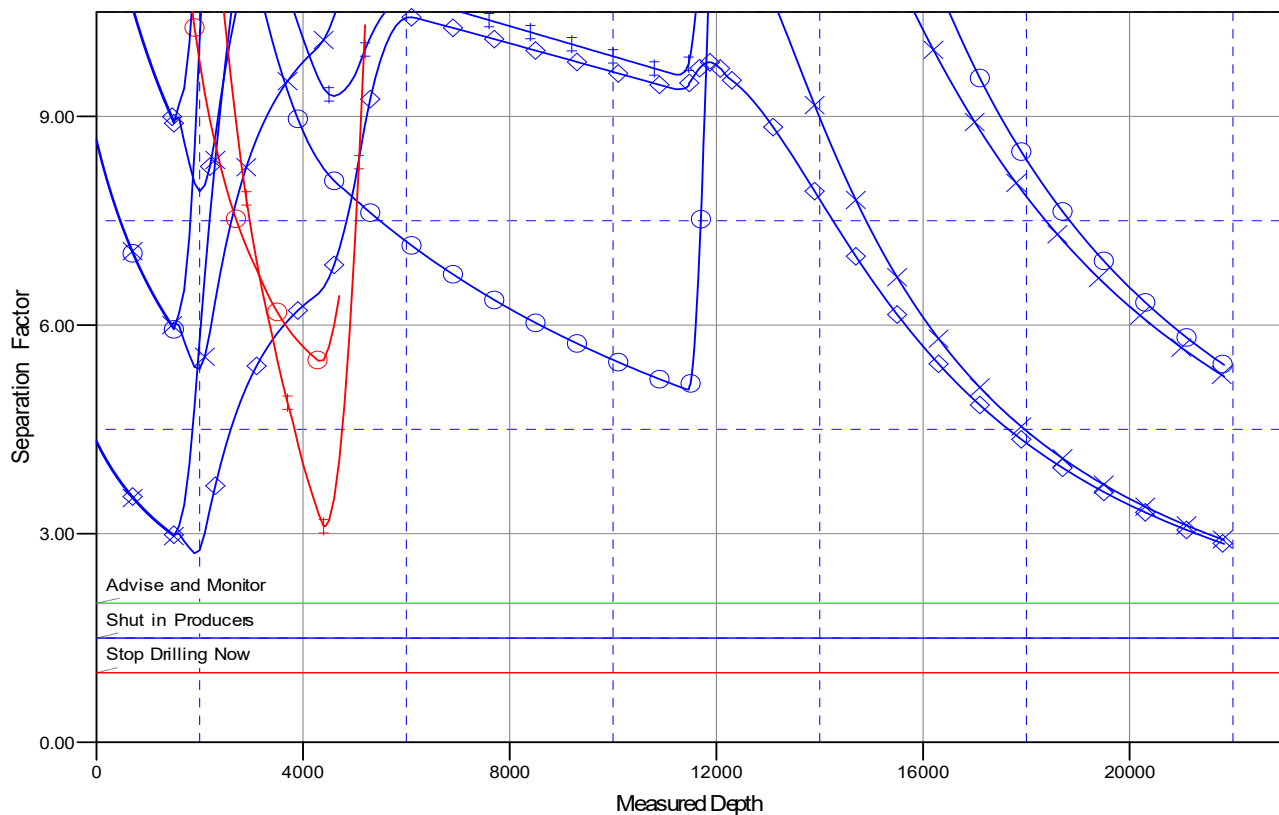
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #754H

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 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #709H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #753H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #751H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #753H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #709H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	RUSSELL FEDERAL #12, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #709H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0	RUSSELL FEDERAL #6 (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 2032 PROJECT

ZIA HILLS UNIT 2032 WC #754H

OWB

Plan: PWP0

Standard Planning Report

25 January, 2023

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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 2032 PROJECT		
Site Position:		Northing:	374,625.63 usft
From:	Map	Easting:	698,628.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 42.026 N
		Longitude:	103° 41' 32.623 W

Well	ZIA HILLS UNIT 2032 WC #754H					
Well Position	+N/-S	0.0 usft	Northing:	374,427.20 usft	Latitude:	32° 1' 40.245 N
	+E/-W	0.0 usft	Easting:	695,482.21 usft	Longitude:	103° 42' 9.179 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,175.0 usft
Grid Convergence:		0.33 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.33	59.53	47,264.87479981

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	177.28

Plan Survey Tool Program	Date	1/25/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0	PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp
2	1,500.0	11,462.6	PWP0 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5
3	11,462.6	21,829.6	PWP0 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	8.00	83.00	1,898.7	3.4	27.7	2.00	2.00	0.00	83.00	
4,281.5	8.00	83.00	4,257.0	43.8	356.6	0.00	0.00	0.00	0.00	
5,081.5	0.00	0.00	5,054.4	50.6	412.0	1.00	-1.00	0.00	180.00	
11,462.6	0.00	0.00	11,435.5	50.6	412.0	0.00	0.00	0.00	0.00	
12,212.6	90.00	179.63	11,913.0	-426.9	415.1	12.00	12.00	23.95	179.63	
21,779.6	90.00	179.63	11,913.0	-9,993.7	477.4	0.00	0.00	0.00	0.00	
21,829.6	90.00	179.63	11,913.0	-10,043.7	477.7	0.00	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	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	83.00	1,600.0	0.2	1.7	-0.1	2.00	2.00	0.00
1,700.0	4.00	83.00	1,699.8	0.9	6.9	-0.5	2.00	2.00	0.00
1,800.0	6.00	83.00	1,799.5	1.9	15.6	-1.2	2.00	2.00	0.00
1,900.0	8.00	83.00	1,898.7	3.4	27.7	-2.1	2.00	2.00	0.00
Start 2381.5 hold at 1900.0 MD									
2,000.0	8.00	83.00	1,997.7	5.1	41.5	-3.1	0.00	0.00	0.00
2,100.0	8.00	83.00	2,096.8	6.8	55.3	-4.2	0.00	0.00	0.00
2,200.0	8.00	83.00	2,195.8	8.5	69.1	-5.2	0.00	0.00	0.00
2,300.0	8.00	83.00	2,294.8	10.2	82.9	-6.2	0.00	0.00	0.00
2,400.0	8.00	83.00	2,393.8	11.9	96.7	-7.3	0.00	0.00	0.00
2,500.0	8.00	83.00	2,492.9	13.6	110.6	-8.3	0.00	0.00	0.00
2,600.0	8.00	83.00	2,591.9	15.3	124.4	-9.3	0.00	0.00	0.00
2,700.0	8.00	83.00	2,690.9	17.0	138.2	-10.4	0.00	0.00	0.00
2,800.0	8.00	83.00	2,789.9	18.7	152.0	-11.4	0.00	0.00	0.00
2,900.0	8.00	83.00	2,889.0	20.4	165.8	-12.5	0.00	0.00	0.00
3,000.0	8.00	83.00	2,988.0	22.1	179.6	-13.5	0.00	0.00	0.00
3,100.0	8.00	83.00	3,087.0	23.8	193.4	-14.5	0.00	0.00	0.00
3,200.0	8.00	83.00	3,186.1	25.4	207.2	-15.6	0.00	0.00	0.00
3,300.0	8.00	83.00	3,285.1	27.1	221.1	-16.6	0.00	0.00	0.00
3,400.0	8.00	83.00	3,384.1	28.8	234.9	-17.7	0.00	0.00	0.00
3,500.0	8.00	83.00	3,483.1	30.5	248.7	-18.7	0.00	0.00	0.00
3,600.0	8.00	83.00	3,582.2	32.2	262.5	-19.7	0.00	0.00	0.00
3,700.0	8.00	83.00	3,681.2	33.9	276.3	-20.8	0.00	0.00	0.00
3,800.0	8.00	83.00	3,780.2	35.6	290.1	-21.8	0.00	0.00	0.00
3,900.0	8.00	83.00	3,879.2	37.3	303.9	-22.8	0.00	0.00	0.00
4,000.0	8.00	83.00	3,978.3	39.0	317.8	-23.9	0.00	0.00	0.00
4,100.0	8.00	83.00	4,077.3	40.7	331.6	-24.9	0.00	0.00	0.00
4,200.0	8.00	83.00	4,176.3	42.4	345.4	-26.0	0.00	0.00	0.00
4,281.5	8.00	83.00	4,257.0	43.8	356.6	-26.8	0.00	0.00	0.00
Start Drop -1.00									
4,300.0	7.81	83.00	4,275.3	44.1	359.2	-27.0	1.00	-1.00	0.00
4,400.0	6.81	83.00	4,374.5	45.7	371.8	-27.9	1.00	-1.00	0.00
4,500.0	5.81	83.00	4,473.9	47.0	382.7	-28.8	1.00	-1.00	0.00
4,600.0	4.81	83.00	4,573.5	48.1	391.9	-29.5	1.00	-1.00	0.00
4,700.0	3.81	83.00	4,673.2	49.0	399.4	-30.0	1.00	-1.00	0.00
4,800.0	2.81	83.00	4,773.0	49.7	405.1	-30.5	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	1.81	83.00	4,873.0	50.2	409.1	-30.8	1.00	-1.00	0.00
5,000.0	0.81	83.00	4,972.9	50.5	411.4	-30.9	1.00	-1.00	0.00
5,081.5	0.00	0.00	5,054.4	50.6	412.0	-31.0	1.00	-1.00	0.00
Start 6381.1 hold at 5081.5 MD									
5,100.0	0.00	0.00	5,072.9	50.6	412.0	-31.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,172.9	50.6	412.0	-31.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,272.9	50.6	412.0	-31.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,372.9	50.6	412.0	-31.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,472.9	50.6	412.0	-31.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,572.9	50.6	412.0	-31.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,672.9	50.6	412.0	-31.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,772.9	50.6	412.0	-31.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,872.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,972.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,072.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,172.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,272.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,372.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,472.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,572.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,672.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,772.9	50.6	412.0	-31.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,872.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,972.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,072.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,172.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,272.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,372.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,472.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,572.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,672.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,772.9	50.6	412.0	-31.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,872.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,972.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,072.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,172.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,272.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,372.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,472.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,572.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,672.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,772.9	50.6	412.0	-31.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,872.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,972.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,072.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,172.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,272.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,372.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,472.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,572.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,672.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,772.9	50.6	412.0	-31.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,872.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,972.9	50.6	412.0	-31.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.0	0.00	0.00	10,072.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,172.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,272.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,372.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,472.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,572.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,672.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,772.9	50.6	412.0	-31.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,872.9	50.6	412.0	-31.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,972.9	50.6	412.0	-31.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,072.9	50.6	412.0	-31.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,172.9	50.6	412.0	-31.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,272.9	50.6	412.0	-31.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,372.9	50.6	412.0	-31.0	0.00	0.00	0.00
11,462.6	0.00	0.00	11,435.5	50.6	412.0	-31.0	0.00	0.00	0.00
Start DLS 12.00 TFO 179.63									
11,475.0	1.49	179.63	11,447.9	50.4	412.0	-30.8	12.00	12.00	0.00
11,500.0	4.49	179.63	11,472.9	49.1	412.0	-29.5	12.00	12.00	0.00
11,525.0	7.49	179.63	11,497.8	46.5	412.0	-26.9	12.00	12.00	0.00
11,550.0	10.49	179.63	11,522.4	42.6	412.0	-23.0	12.00	12.00	0.00
11,575.0	13.49	179.63	11,546.9	37.4	412.1	-17.8	12.00	12.00	0.00
11,600.0	16.49	179.63	11,571.0	31.0	412.1	-11.4	12.00	12.00	0.00
11,625.0	19.49	179.63	11,594.8	23.2	412.2	-3.6	12.00	12.00	0.00
11,650.0	22.49	179.63	11,618.2	14.3	412.2	5.3	12.00	12.00	0.00
11,675.0	25.49	179.63	11,641.0	4.1	412.3	15.5	12.00	12.00	0.00
11,700.0	28.49	179.63	11,663.3	-7.2	412.4	26.8	12.00	12.00	0.00
11,725.0	31.49	179.63	11,684.9	-19.7	412.4	39.3	12.00	12.00	0.00
11,750.0	34.49	179.63	11,705.9	-33.3	412.5	52.9	12.00	12.00	0.00
11,775.0	37.49	179.63	11,726.1	-48.0	412.6	67.5	12.00	12.00	0.00
11,800.0	40.49	179.63	11,745.5	-63.7	412.7	83.3	12.00	12.00	0.00
11,825.0	43.49	179.63	11,764.1	-80.5	412.8	100.0	12.00	12.00	0.00
11,850.0	46.49	179.63	11,781.8	-98.1	413.0	117.6	12.00	12.00	0.00
11,875.0	49.49	179.63	11,798.5	-116.7	413.1	136.2	12.00	12.00	0.00
11,900.0	52.49	179.63	11,814.3	-136.1	413.2	155.6	12.00	12.00	0.00
11,925.0	55.49	179.63	11,829.0	-156.3	413.3	175.8	12.00	12.00	0.00
11,950.0	58.49	179.63	11,842.6	-177.3	413.5	196.7	12.00	12.00	0.00
11,975.0	61.49	179.63	11,855.1	-199.0	413.6	218.4	12.00	12.00	0.00
12,000.0	64.49	179.63	11,866.4	-221.2	413.8	240.6	12.00	12.00	0.00
12,025.0	67.49	179.63	11,876.6	-244.1	413.9	263.4	12.00	12.00	0.00
12,050.0	70.49	179.63	11,885.6	-267.4	414.1	286.7	12.00	12.00	0.00
12,075.0	73.49	179.63	11,893.3	-291.2	414.2	310.5	12.00	12.00	0.00
12,100.0	76.49	179.63	11,899.8	-315.3	414.4	334.6	12.00	12.00	0.00
12,125.0	79.49	179.63	11,905.0	-339.8	414.5	359.1	12.00	12.00	0.00
12,150.0	82.49	179.63	11,908.9	-364.4	414.7	383.7	12.00	12.00	0.00
12,175.0	85.49	179.63	11,911.5	-389.3	414.8	408.6	12.00	12.00	0.00
12,200.0	88.49	179.63	11,912.8	-414.3	415.0	433.5	12.00	12.00	0.00
12,212.6	90.00	179.63	11,913.0	-426.9	415.1	446.1	12.00	12.00	0.00
Start 9567.0 hold at 12212.6 MD									
12,300.0	90.00	179.63	11,913.0	-514.3	415.7	533.4	0.00	0.00	0.00
12,400.0	90.00	179.63	11,913.0	-614.3	416.3	633.3	0.00	0.00	0.00
12,500.0	90.00	179.63	11,913.0	-714.3	417.0	733.2	0.00	0.00	0.00
12,600.0	90.00	179.63	11,913.0	-814.3	417.6	833.2	0.00	0.00	0.00
12,700.0	90.00	179.63	11,913.0	-914.3	418.3	933.1	0.00	0.00	0.00
12,800.0	90.00	179.63	11,913.0	-1,014.3	418.9	1,033.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.0	90.00	179.63	11,913.0	-1,114.2	419.6	1,132.9	0.00	0.00	0.00
13,000.0	90.00	179.63	11,913.0	-1,214.2	420.2	1,232.8	0.00	0.00	0.00
13,100.0	90.00	179.63	11,913.0	-1,314.2	420.9	1,332.7	0.00	0.00	0.00
13,200.0	90.00	179.63	11,913.0	-1,414.2	421.5	1,432.7	0.00	0.00	0.00
13,300.0	90.00	179.63	11,913.0	-1,514.2	422.2	1,532.6	0.00	0.00	0.00
13,400.0	90.00	179.63	11,913.0	-1,614.2	422.8	1,632.5	0.00	0.00	0.00
13,500.0	90.00	179.63	11,913.0	-1,714.2	423.5	1,732.4	0.00	0.00	0.00
13,600.0	90.00	179.63	11,913.0	-1,814.2	424.1	1,832.3	0.00	0.00	0.00
13,700.0	90.00	179.63	11,913.0	-1,914.2	424.8	1,932.2	0.00	0.00	0.00
13,800.0	90.00	179.63	11,913.0	-2,014.2	425.4	2,032.2	0.00	0.00	0.00
13,900.0	90.00	179.63	11,913.0	-2,114.2	426.1	2,132.1	0.00	0.00	0.00
14,000.0	90.00	179.63	11,913.0	-2,214.2	426.7	2,232.0	0.00	0.00	0.00
14,100.0	90.00	179.63	11,913.0	-2,314.2	427.4	2,331.9	0.00	0.00	0.00
14,200.0	90.00	179.63	11,913.0	-2,414.2	428.0	2,431.8	0.00	0.00	0.00
14,300.0	90.00	179.63	11,913.0	-2,514.2	428.7	2,531.7	0.00	0.00	0.00
14,400.0	90.00	179.63	11,913.0	-2,614.2	429.3	2,631.7	0.00	0.00	0.00
14,500.0	90.00	179.63	11,913.0	-2,714.2	430.0	2,731.6	0.00	0.00	0.00
14,600.0	90.00	179.63	11,913.0	-2,814.2	430.6	2,831.5	0.00	0.00	0.00
14,700.0	90.00	179.63	11,913.0	-2,914.2	431.3	2,931.4	0.00	0.00	0.00
14,800.0	90.00	179.63	11,913.0	-3,014.2	431.9	3,031.3	0.00	0.00	0.00
14,900.0	90.00	179.63	11,913.0	-3,114.2	432.6	3,131.2	0.00	0.00	0.00
15,000.0	90.00	179.63	11,913.0	-3,214.2	433.2	3,231.1	0.00	0.00	0.00
15,100.0	90.00	179.63	11,913.0	-3,314.2	433.9	3,331.1	0.00	0.00	0.00
15,200.0	90.00	179.63	11,913.0	-3,414.2	434.5	3,431.0	0.00	0.00	0.00
15,300.0	90.00	179.63	11,913.0	-3,514.2	435.2	3,530.9	0.00	0.00	0.00
15,400.0	90.00	179.63	11,913.0	-3,614.2	435.8	3,630.8	0.00	0.00	0.00
15,500.0	90.00	179.63	11,913.0	-3,714.2	436.5	3,730.7	0.00	0.00	0.00
15,600.0	90.00	179.63	11,913.0	-3,814.2	437.1	3,830.6	0.00	0.00	0.00
15,700.0	90.00	179.63	11,913.0	-3,914.2	437.8	3,930.6	0.00	0.00	0.00
15,800.0	90.00	179.63	11,913.0	-4,014.2	438.4	4,030.5	0.00	0.00	0.00
15,900.0	90.00	179.63	11,913.0	-4,114.2	439.1	4,130.4	0.00	0.00	0.00
16,000.0	90.00	179.63	11,913.0	-4,214.2	439.7	4,230.3	0.00	0.00	0.00
16,100.0	90.00	179.63	11,913.0	-4,314.2	440.4	4,330.2	0.00	0.00	0.00
16,200.0	90.00	179.63	11,913.0	-4,414.2	441.0	4,430.1	0.00	0.00	0.00
16,300.0	90.00	179.63	11,913.0	-4,514.2	441.7	4,530.1	0.00	0.00	0.00
16,400.0	90.00	179.63	11,913.0	-4,614.2	442.4	4,630.0	0.00	0.00	0.00
16,500.0	90.00	179.63	11,913.0	-4,714.2	443.0	4,729.9	0.00	0.00	0.00
16,600.0	90.00	179.63	11,913.0	-4,814.2	443.7	4,829.8	0.00	0.00	0.00
16,700.0	90.00	179.63	11,913.0	-4,914.2	444.3	4,929.7	0.00	0.00	0.00
16,800.0	90.00	179.63	11,913.0	-5,014.2	445.0	5,029.6	0.00	0.00	0.00
16,900.0	90.00	179.63	11,913.0	-5,114.2	445.6	5,129.6	0.00	0.00	0.00
17,000.0	90.00	179.63	11,913.0	-5,214.2	446.3	5,229.5	0.00	0.00	0.00
17,100.0	90.00	179.63	11,913.0	-5,314.2	446.9	5,329.4	0.00	0.00	0.00
17,200.0	90.00	179.63	11,913.0	-5,414.2	447.6	5,429.3	0.00	0.00	0.00
17,300.0	90.00	179.63	11,913.0	-5,514.2	448.2	5,529.2	0.00	0.00	0.00
17,400.0	90.00	179.63	11,913.0	-5,614.2	448.9	5,629.1	0.00	0.00	0.00
17,500.0	90.00	179.63	11,913.0	-5,714.2	449.5	5,729.0	0.00	0.00	0.00
17,600.0	90.00	179.63	11,913.0	-5,814.1	450.2	5,829.0	0.00	0.00	0.00
17,700.0	90.00	179.63	11,913.0	-5,914.1	450.8	5,928.9	0.00	0.00	0.00
17,800.0	90.00	179.63	11,913.0	-6,014.1	451.5	6,028.8	0.00	0.00	0.00
17,900.0	90.00	179.63	11,913.0	-6,114.1	452.1	6,128.7	0.00	0.00	0.00
18,000.0	90.00	179.63	11,913.0	-6,214.1	452.8	6,228.6	0.00	0.00	0.00
18,100.0	90.00	179.63	11,913.0	-6,314.1	453.4	6,328.5	0.00	0.00	0.00
18,200.0	90.00	179.63	11,913.0	-6,414.1	454.1	6,428.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,300.0	90.00	179.63	11,913.0	-6,514.1	454.7	6,528.4	0.00	0.00	0.00
18,400.0	90.00	179.63	11,913.0	-6,614.1	455.4	6,628.3	0.00	0.00	0.00
18,500.0	90.00	179.63	11,913.0	-6,714.1	456.0	6,728.2	0.00	0.00	0.00
18,600.0	90.00	179.63	11,913.0	-6,814.1	456.7	6,828.1	0.00	0.00	0.00
18,700.0	90.00	179.63	11,913.0	-6,914.1	457.3	6,928.0	0.00	0.00	0.00
18,800.0	90.00	179.63	11,913.0	-7,014.1	458.0	7,028.0	0.00	0.00	0.00
18,900.0	90.00	179.63	11,913.0	-7,114.1	458.6	7,127.9	0.00	0.00	0.00
19,000.0	90.00	179.63	11,913.0	-7,214.1	459.3	7,227.8	0.00	0.00	0.00
19,100.0	90.00	179.63	11,913.0	-7,314.1	459.9	7,327.7	0.00	0.00	0.00
19,200.0	90.00	179.63	11,913.0	-7,414.1	460.6	7,427.6	0.00	0.00	0.00
19,300.0	90.00	179.63	11,913.0	-7,514.1	461.2	7,527.5	0.00	0.00	0.00
19,400.0	90.00	179.63	11,913.0	-7,614.1	461.9	7,627.5	0.00	0.00	0.00
19,500.0	90.00	179.63	11,913.0	-7,714.1	462.5	7,727.4	0.00	0.00	0.00
19,600.0	90.00	179.63	11,913.0	-7,814.1	463.2	7,827.3	0.00	0.00	0.00
19,700.0	90.00	179.63	11,913.0	-7,914.1	463.8	7,927.2	0.00	0.00	0.00
19,800.0	90.00	179.63	11,913.0	-8,014.1	464.5	8,027.1	0.00	0.00	0.00
19,900.0	90.00	179.63	11,913.0	-8,114.1	465.1	8,127.0	0.00	0.00	0.00
20,000.0	90.00	179.63	11,913.0	-8,214.1	465.8	8,226.9	0.00	0.00	0.00
20,100.0	90.00	179.63	11,913.0	-8,314.1	466.4	8,326.9	0.00	0.00	0.00
20,200.0	90.00	179.63	11,913.0	-8,414.1	467.1	8,426.8	0.00	0.00	0.00
20,300.0	90.00	179.63	11,913.0	-8,514.1	467.7	8,526.7	0.00	0.00	0.00
20,400.0	90.00	179.63	11,913.0	-8,614.1	468.4	8,626.6	0.00	0.00	0.00
20,500.0	90.00	179.63	11,913.0	-8,714.1	469.0	8,726.5	0.00	0.00	0.00
20,600.0	90.00	179.63	11,913.0	-8,814.1	469.7	8,826.4	0.00	0.00	0.00
20,700.0	90.00	179.63	11,913.0	-8,914.1	470.3	8,926.4	0.00	0.00	0.00
20,800.0	90.00	179.63	11,913.0	-9,014.1	471.0	9,026.3	0.00	0.00	0.00
20,900.0	90.00	179.63	11,913.0	-9,114.1	471.6	9,126.2	0.00	0.00	0.00
21,000.0	90.00	179.63	11,913.0	-9,214.1	472.3	9,226.1	0.00	0.00	0.00
21,100.0	90.00	179.63	11,913.0	-9,314.1	472.9	9,326.0	0.00	0.00	0.00
21,200.0	90.00	179.63	11,913.0	-9,414.1	473.6	9,425.9	0.00	0.00	0.00
21,300.0	90.00	179.63	11,913.0	-9,514.1	474.2	9,525.9	0.00	0.00	0.00
21,400.0	90.00	179.63	11,913.0	-9,614.1	474.9	9,625.8	0.00	0.00	0.00
21,500.0	90.00	179.63	11,913.0	-9,714.1	475.5	9,725.7	0.00	0.00	0.00
21,600.0	90.00	179.63	11,913.0	-9,814.1	476.2	9,825.6	0.00	0.00	0.00
21,700.0	90.00	179.63	11,913.0	-9,914.1	476.9	9,925.5	0.00	0.00	0.00
21,779.6	90.00	179.63	11,913.0	-9,993.7	477.4	10,005.1	0.00	0.00	0.00
Start 50.0 hold at 21779.6 MD									
21,800.0	90.00	179.63	11,913.0	-10,014.1	477.5	10,025.4	0.00	0.00	0.00
21,829.6	90.00	179.63	11,913.0	-10,043.7	477.7	10,055.0	0.00	0.00	0.00
TD at 21829.6									

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #754H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP (ZHU 2032 WC #754H) - plan misses target center by 180.1usft at 11850.0usft MD (11781.8 TVD, -98.1 N, 413.0 E) - Circle (radius 50.0)	0.00	0.00	11,913.0	25.3	411.9	374,452.51	695,894.15	32° 1' 40.472 N	103° 42' 4.392 W
PBHL (ZHU 2032 WC #754H) - plan misses target center by 0.3usft at 21829.6usft MD (11913.0 TVD, -10043.7 N, 477.7 E) - Rectangle (sides W100.0 H10,069.4 D20.0)	0.00	359.63	11,913.0	-10,043.7	477.4	364,383.53	695,959.58	32° 0' 0.824 N	103° 42' 4.316 W
LTP (ZHU 2032 WC #754H) - plan hits target center - Point	0.00	0.00	11,913.0	-9,993.7	477.4	364,433.53	695,959.58	32° 0' 1.319 N	103° 42' 4.313 W

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,500.0	1,500.0	DB SURF 10-3/4"	10-3/4	14-3/4
11,462.6	11,435.5	DB INT 7-5/8"	7-5/8	9-7/8
21,829.6	11,913.0	DB PROD 5 1/2"	5-1/2	6-3/4

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,900.0	1,898.7	3.4	27.7	Start 2381.5 hold at 1900.0 MD
4,281.5	4,257.0	43.8	356.6	Start Drop -1.00
5,081.5	5,054.4	50.6	412.0	Start 6381.1 hold at 5081.5 MD
11,462.6	11,435.5	50.6	412.0	Start DLS 12.00 TFO 179.63
12,212.6	11,913.0	-426.9	415.1	Start 9567.0 hold at 12212.6 MD
21,779.6	11,913.0	-9,993.7	477.4	Start 50.0 hold at 21779.6 MD
21,829.6	11,913.0	-10,043.7	477.7	TD at 21829.6

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ConocoPhillips
LEASE NO.:	NMLC068281B
LOCATION:	Section 20 T.26 S, R.32 E., NMPM
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	Zia Hills Unit 2032 WC 752H
SURFACE HOLE FOOTAGE:	2632'/S & 800'/W
BOTTOM HOLE FOOTAGE:	50'/S & 414'/W

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 **Delaware** formation. 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. 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.
 - 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 valve on casing head below test plug 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 1/25/2024

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Albert Gonzales		346-287-8169

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

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

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

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

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

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 315646

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 315646
	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	2/20/2024
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	2/20/2024
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	2/20/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	2/20/2024