

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. 30-025-52544
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 / 2547 FSL / 925 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0278313 / LONG: -103.7027781 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2620 FSL / 2534 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0280422 / LONG: -103.6975865 (TVD: 11578 feet, MD: 11807 feet)

PPP: NENW / 1 FNL / 2534 FWL / TWSP: 26S / RANGE: 32E / SECTION: 29 / LAT: 32.02084 / LONG: -103.697592 (TVD: 11739 feet, MD: 14428 feet)

BHL: LOT 3 / 50 FSL / 2534 FWL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.0003561 / LONG: -103.6975652 (TVD: 11739 feet, MD: 21747 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 30-025-52544	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 757H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3176.13'

¹⁰ Surface Location

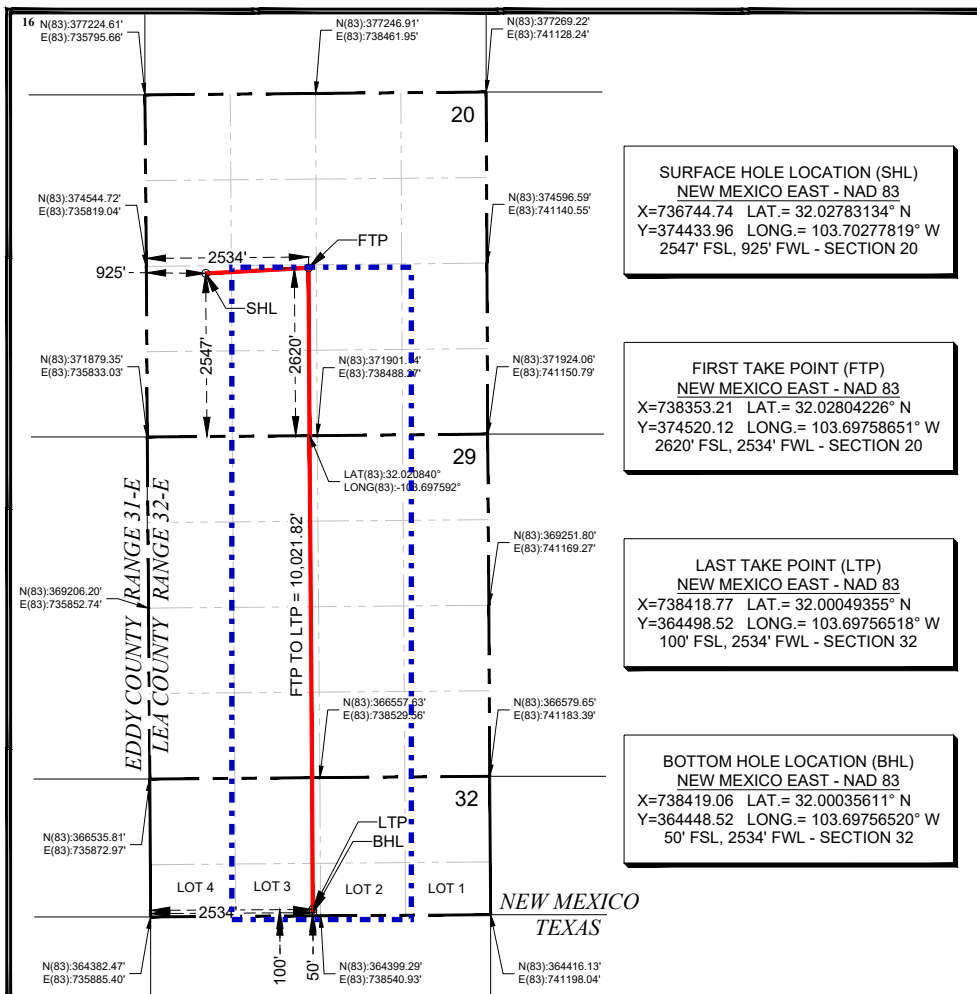
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	26-S	32-E		2547'	SOUTH	925'	WEST	LEA

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
3	32	26-S	32-E		50'	SOUTH	2534'	WEST	LEA

12 Dedicated Acres 609.18	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 Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 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 757H

1. Geologic Formations

TVD of target	11,739' EOL	Pilot hole depth	NA
MD at TD:	21,747'	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	1563	Salt	
Base of Salt	4094	Salt	
Lamar	4312	Salt Water	
Bell Canyon	4345	Salt Water	
Cherry Canyon	5233	Oil/Gas	
Brushy Canyon	6720	Oil/Gas	
Bone Spring Shale	8320	Oil/Gas	
1st Bone Spring Sand	9304	Oil/Gas	
2nd Bone Spring Sand	9985	Oil/Gas	
3rd Bone Spring Sand	11133	Oil/Gas	
Wolfcamp	11548	Target	
Wolfcamp A	11756	Not Penetrated	
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	1.13	2.88	2.90
8.750"	8500	11132	7.625"	29.7	P110-ICY	W513	1.38	1.71	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	21,747	5.5"	23	P110-CY	W441	1.91	2.25	2.70	2.45
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 757H

	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 757H

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
	935	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 757H

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 757H

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 757H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7635 psi at 11739' 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

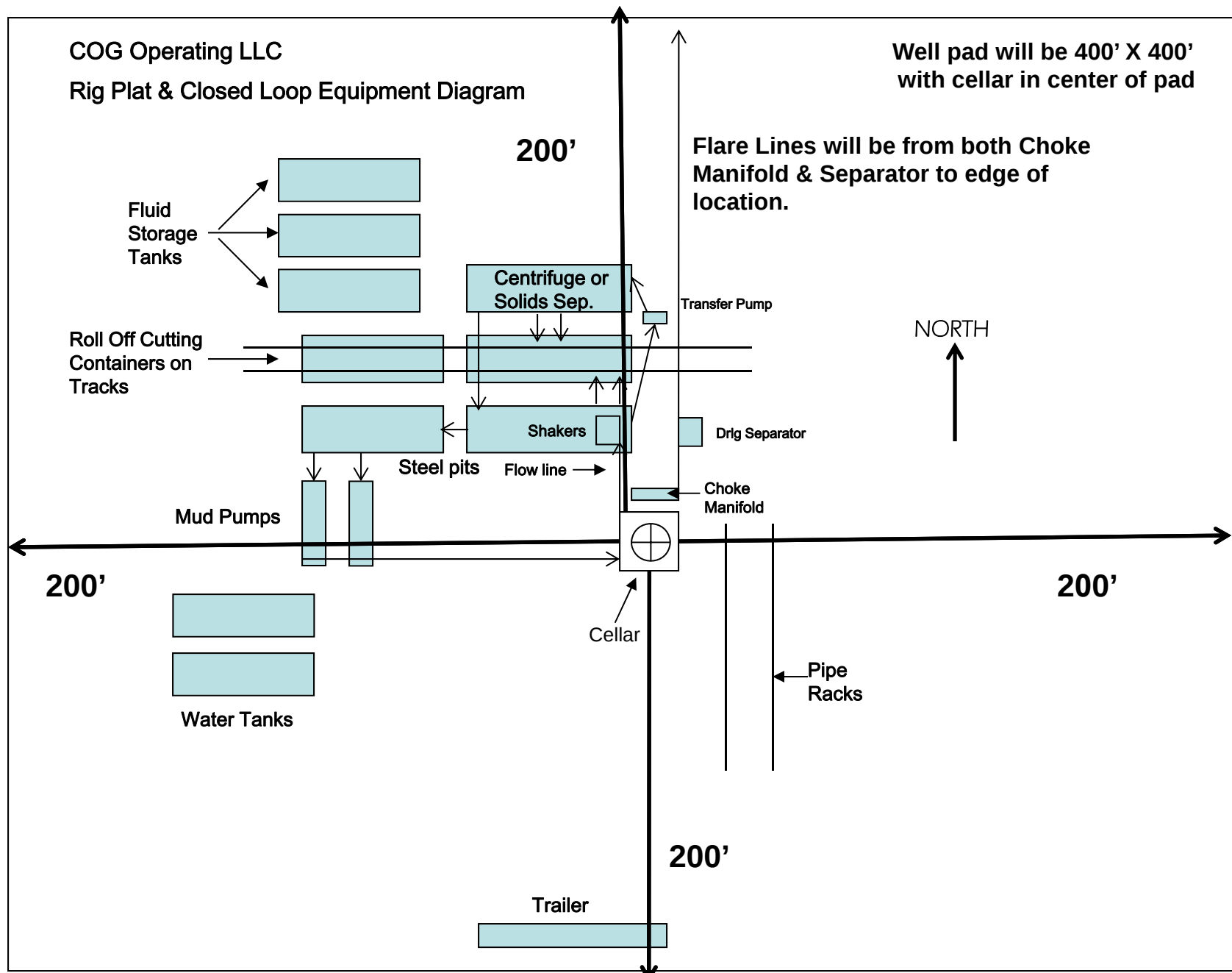


Exhibit 1

"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 #757H

OWB

PWP0

Anticollision Report

25 January, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	11,461.5	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
11,461.5	21,747.5	PWP0 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5	

Summary						
Site Name	Reference Measured Depth	Offset Measured Depth	Distance Between Centres	Distance Between Ellipses	Separation Factor	Warning
Offset Well - Wellbore - Design	(usft)	(usft)	(usft)	(usft)		
ODELL STATE						
ODELL STATE 54-1-6 LOV #2H - OWB - AWP	21,747.5	11,541.1	398.7	307.9	4.389	CC, ES, SF
ZIA HILLS 20 FED COM PROJECT						
BUCK 20 FEDERAL #3H (P&A) - OWB - AWP	9,385.1	11,512.5	211.0	129.4	2.585	CC, ES, SF
BUCK 20 FEDERAL #6H (P&A) - OWB - AWP	9,019.5	11,233.6	481.4	390.6	5.302	CC, ES, SF
CONOCO FEDERAL #1 - OWB - AWP						Out of range
RUSSELL FEDERAL #10 - OWB - AWP						Out of range
RUSSELL FEDERAL #12 - OWB - AWP	1,440.0	1,442.2	595.1	557.4	15.775	CC
RUSSELL FEDERAL #12 - OWB - AWP	1,600.0	1,602.1	596.9	554.4	14.037	ES
RUSSELL FEDERAL #12 - OWB - AWP	3,300.0	3,254.3	981.8	868.0	8.630	SF
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	4,466.8	4,378.0	214.2	44.0	1.259	Advise and Monitor, CC, ES,
ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2	11,461.5	11,293.6	446.4	394.0	8.509	CC, ES, SF
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	11,403.8	11,222.3	826.4	770.4	14.743	CC
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	11,461.5	11,275.0	826.5	770.3	14.725	ES, SF
ZIA HILLS 20 FEDERAL COM #103H - OWB - PWP2						Out of range
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	11,747.6	11,613.5	436.4	379.0	7.594	CC
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	21,747.5	21,739.7	473.5	308.5	2.869	ES, SF
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	9,604.4	9,416.0	743.9	688.1	13.340	CC, ES
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	9,700.0	9,486.0	745.9	689.8	13.296	SF
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	9,604.4	9,416.0	743.9	688.3	13.397	CC
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	21,747.5	21,723.8	849.2	687.3	5.246	ES, SF
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	9,556.9	9,369.2	790.0	731.6	13.522	CC
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	21,747.5	21,413.4	812.1	636.8	4.633	ES, SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	9,077.2	8,875.5	991.1	934.1	17.376	CC
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	9,100.0	8,897.1	991.2	934.0	17.341	ES
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	9,800.0	9,594.7	999.8	941.0	17.025	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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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						
BUCK 20 FEDERAL #2H (P&A) - OWB - AWP	9,427.1	11,525.0	984.5	902.1	11.954	CC, ES
BUCK 20 FEDERAL #2H (P&A) - OWB - AWP	9,500.0	11,521.6	987.2	904.6	11.950	SF
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	1,500.0	1,497.0	271.1	260.5	25.717	CC, ES
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	1,900.0	1,886.1	282.5	271.2	25.044	SF
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	1,617.1	1,614.7	251.8	241.3	24.082	CC
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	1,700.0	1,697.4	251.9	241.2	23.559	ES
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	1,900.0	1,892.2	256.7	245.5	22.789	SF
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	1,934.9	1,938.8	224.8	213.5	19.834	CC, ES
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	2,100.0	2,098.3	229.7	217.9	19.422	SF
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	1,500.0	1,498.0	220.6	210.1	20.933	CC, ES
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	4,100.0	4,061.3	401.0	376.5	16.363	SF
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,500.0	1,499.0	209.9	199.4	19.979	CC
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	2,600.0	2,583.2	210.6	197.1	15.563	ES
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	5,200.0	5,157.4	361.2	328.7	11.090	SF
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	3,362.0	3,337.3	200.9	183.6	11.636	CC
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	4,000.0	3,974.8	202.2	182.2	10.101	ES
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	6,600.0	6,553.2	266.6	227.3	6.778	SF
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	8,228.6	8,221.7	165.4	126.0	4.200	CC, ES
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	11,461.5	11,452.9	173.5	127.8	3.800	SF
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	1,500.0	1,497.0	181.1	170.9	17.846	CC, ES, SF
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	1,500.0	1,498.0	151.0	140.9	14.881	CC, ES, SF
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	1,500.0	1,499.0	120.8	110.7	11.907	CC, ES, SF
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	1,500.0	1,499.0	90.7	80.6	8.941	CC
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	1,800.0	1,806.3	91.5	80.5	8.302	ES
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	2,000.0	2,008.5	94.5	82.5	7.901	SF
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	1,500.0	1,499.0	60.4	50.3	5.956	CC
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	2,100.0	2,108.9	61.8	49.3	4.934	ES
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	2,200.0	2,208.9	63.9	50.8	4.889	SF
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	1,500.0	1,500.0	30.2	20.1	2.977	CC
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	2,200.0	2,205.9	30.5	17.4	2.332	ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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)	Distance Between Ellipses (usft)	Separation Factor	Warning
ODELL STATE						
ODELL STATE 54-1-6 LOV #2H - OWB - AWP	21,747.5	11,541.1	398.7	307.9	4.389	CC, ES, SF
ZIA HILLS 20 FED COM PROJECT						
BUCK 20 FEDERAL #3H (P&A) - OWB - AWP	21,747.5	13,729.0				Out of Range @TD
BUCK 20 FEDERAL #6H (P&A) - OWB - AWP	21,747.5	13,470.0				Out of Range @TD
CONOCO FEDERAL #1 - OWB - AWP	21,747.5	4,327.0				Out of Range @TD
RUSSELL FEDERAL #10 - OWB - AWP	21,747.5	4,500.0				Out of Range @TD
RUSSELL FEDERAL #12 - OWB - AWP	21,747.5	4,335.0				Out of Range @TD
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	21,747.5	4,378.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2	21,747.5	11,450.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	21,747.5	11,287.6				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #103H - OWB - PWP2	21,747.5	11,475.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	21,747.5	21,739.7	473.5	308.5	2.869	ES, SF
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	21,747.5	11,885.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	21,747.5	21,723.8	849.2	687.3	5.246	ES, SF
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	21,747.5	21,413.4	812.1	636.8	4.633	ES, SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	21,747.5	21,704.7				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #2H (P&A) - OWB - AWP	21,747.5	13,444.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	21,747.5	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	21,747.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	21,747.5	11,275.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	21,747.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	21,747.5	11,325.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	21,747.5	11,575.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	21,747.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	21,747.5	21,026.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	21,747.5	21,409.6				Out of Range @TD
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	21,747.5	21,595.5				Out of Range @TD
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	21,747.5	21,829.6				Out of Range @TD
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	21,747.5	21,692.9	848.0	682.8	5.135	Out of Range @TD
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	21,747.5	21,894.3	458.7	290.5	2.727	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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: ODELL STATE - ODELL STATE 54-1-6 LOV #2H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 30-MWD+HDGM													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
21,100.0	11,739.0	11,391.2	11,370.6	81.5	40.4	12.56	-10,237.0	1,597.1	968.5	892.1	76.44	12.671		
21,200.0	11,739.0	11,430.0	11,406.1	82.2	40.5	14.25	-10,252.2	1,595.2	877.1	800.1	76.99	11.393		
21,300.0	11,739.0	11,430.0	11,406.1	82.9	40.5	14.25	-10,252.2	1,595.2	785.2	706.2	78.95	9.945		
21,400.0	11,739.0	11,430.0	11,406.1	83.5	40.5	14.25	-10,252.2	1,595.2	695.5	613.9	81.64	8.519		
21,500.0	11,739.0	11,464.8	11,437.3	84.2	40.6	16.02	-10,267.8	1,593.8	607.2	524.0	83.25	7.294		
21,600.0	11,739.0	11,492.4	11,461.3	84.9	40.7	17.60	-10,281.2	1,592.9	521.1	435.2	85.85	6.069		
21,697.5	11,739.0	11,525.0	11,489.1	85.6	40.8	19.75	-10,298.3	1,592.0	439.5	350.6	88.82	4.947		
21,700.0	11,739.0	11,525.0	11,489.1	85.6	40.8	19.75	-10,298.3	1,592.0	437.4	348.4	88.99	4.915		
21,747.5	11,739.0	11,541.1	11,502.5	85.9	40.8	20.95	-10,307.2	1,591.7	398.7	307.9	90.84	4.389 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - BUCK 20 FEDERAL #3H (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 8427-MWD - OWSG R1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,400.0	8,201.1	11,526.9	9,204.0	34.6	45.0	176.27	7.9	1,398.3	999.3	953.2	46.06	21.693		
8,500.0	8,300.8	11,525.3	9,204.0	34.9	44.9	176.52	9.5	1,398.2	902.8	855.8	46.98	19.215		
8,600.0	8,400.5	11,523.8	9,204.1	35.3	44.9	176.79	11.1	1,398.2	806.8	758.7	48.12	16.766		
8,700.0	8,500.4	11,522.2	9,204.1	35.7	44.9	177.09	12.7	1,398.1	711.7	662.2	49.57	14.357		
8,800.0	8,600.2	11,520.7	9,204.1	36.0	44.9	177.40	14.2	1,398.1	617.8	566.3	51.49	11.998		
8,900.0	8,700.2	11,519.2	9,204.1	36.3	44.8	177.73	15.6	1,398.1	525.8	471.7	54.13	9.714		
9,000.0	8,800.1	11,517.8	9,204.1	36.6	44.8	178.07	17.1	1,398.0	436.9	379.0	57.89	7.547		
9,100.0	8,900.1	11,516.4	9,204.2	36.9	44.8	178.42	18.5	1,398.0	353.4	290.0	63.38	5.576		
9,200.0	9,000.1	11,515.0	9,204.2	37.2	44.8	178.78	19.9	1,398.0	280.2	209.1	71.15	3.938		
9,300.0	9,100.1	11,513.6	9,204.2	37.4	44.7	179.15	21.3	1,397.9	227.5	147.9	79.58	2.859		
9,324.5	9,124.6	11,513.3	9,204.2	37.4	44.7	-91.76	21.6	1,397.9	219.5	138.6	80.97	2.711		
9,385.1	9,185.2	11,512.5	9,204.2	37.4	44.7	-91.54	22.4	1,397.9	211.0	129.4	81.64	2.585	CC, ES, SF	
9,400.0	9,200.1	11,512.3	9,204.2	37.4	44.7	-91.49	22.6	1,397.9	211.5	130.4	81.09	2.608		
9,500.0	9,300.1	11,511.0	9,204.2	37.4	44.7	-91.14	23.9	1,397.8	240.2	168.0	72.21	3.327		
9,600.0	9,400.1	11,509.7	9,204.2	37.4	44.7	-90.79	25.2	1,397.8	301.1	239.1	62.04	4.854		
9,700.0	9,500.1	11,508.5	9,204.3	37.5	44.7	-90.46	26.4	1,397.8	379.0	323.7	55.32	6.851		
9,800.0	9,600.1	11,507.3	9,204.3	37.5	44.6	-90.13	27.6	1,397.7	465.4	413.9	51.48	9.041		
9,900.0	9,700.1	11,506.1	9,204.3	37.5	44.6	-89.81	28.8	1,397.7	556.4	507.0	49.33	11.278		
10,000.0	9,800.1	11,505.0	9,204.3	37.5	44.6	-89.50	29.9	1,397.7	650.0	601.9	48.15	13.501		
10,100.0	9,900.1	11,503.8	9,204.3	37.6	44.6	-89.20	31.0	1,397.7	745.3	697.8	47.50	15.689		
10,200.0	10,000.1	11,502.7	9,204.3	37.6	44.6	-88.91	32.1	1,397.6	841.7	794.5	47.18	17.839		
10,300.0	10,100.1	11,501.7	9,204.3	37.6	44.6	-88.62	33.2	1,397.6	938.8	891.7	47.06	19.949		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - BUCK 20 FEDERAL #6H (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 200-GYD-CT-CMS, 1011-MWD - OWSG R1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,200.0	8,001.9	11,213.4	8,823.4	33.8	52.9	-4.14	69.0	2,084.7	964.9	910.0	54.90	17.574		
8,300.0	8,101.4	11,216.1	8,823.5	34.2	52.9	-3.74	66.3	2,084.8	878.0	820.4	57.59	15.244		
8,400.0	8,201.1	11,218.7	8,823.5	34.6	53.0	-3.37	63.7	2,084.9	794.6	733.7	60.93	13.041		
8,500.0	8,300.8	11,221.3	8,823.6	34.9	53.0	-3.02	61.2	2,085.0	716.1	651.1	65.04	11.010		
8,600.0	8,400.5	11,223.9	8,823.6	35.3	53.1	-2.68	58.6	2,085.1	644.3	574.3	70.00	9.204		
8,700.0	8,500.4	11,226.4	8,823.7	35.7	53.1	-2.36	56.1	2,085.2	581.5	505.8	75.70	7.681		
8,800.0	8,600.2	11,228.8	8,823.7	36.0	53.1	-2.07	53.7	2,085.3	531.0	449.3	81.70	6.499		
8,900.0	8,700.2	11,231.0	8,823.8	36.3	53.2	-1.79	51.4	2,085.4	496.6	409.6	87.05	5.705		
9,000.0	8,800.1	11,233.2	8,823.8	36.6	53.2	-1.53	49.3	2,085.5	481.8	391.4	90.45	5.327		
9,019.5	8,819.6	11,233.6	8,823.8	36.7	53.2	-1.48	48.8	2,085.5	481.4	390.6	90.79	5.302 CC, ES, SF		
9,100.0	8,900.1	11,235.2	8,823.9	36.9	53.2	-1.29	47.2	2,085.6	488.4	397.4	90.99	5.367		
9,200.0	9,000.1	11,237.2	8,823.9	37.2	53.2	-1.06	45.2	2,085.7	515.4	426.6	88.81	5.804		
9,300.0	9,100.1	11,239.1	8,824.0	37.4	53.3	-0.84	43.4	2,085.8	560.1	475.1	84.93	6.594		
9,324.5	9,124.6	11,239.5	8,824.0	37.4	53.3	88.22	42.9	2,085.8	573.3	489.4	83.84	6.837		
9,400.0	9,200.1	11,240.9	8,824.0	37.4	53.3	88.38	41.6	2,085.9	618.3	537.9	80.39	7.691		
9,500.0	9,300.1	11,242.6	8,824.0	37.4	53.3	88.58	39.9	2,085.9	686.2	610.2	76.02	9.027		
9,600.0	9,400.1	11,244.2	8,824.0	37.4	53.4	88.78	38.2	2,086.0	761.2	689.1	72.14	10.552		
9,700.0	9,500.1	11,245.9	8,824.1	37.5	53.4	88.98	36.6	2,086.1	841.5	772.6	68.85	12.221		
9,800.0	9,600.1	11,247.4	8,824.1	37.5	53.4	89.16	35.1	2,086.2	925.6	859.5	66.11	14.000		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.1	2.1	3.0	3.0	-91.15	-11.9	-595.0	595.2	588.3	6.89	86.350	
100.0	100.0	102.1	102.1	3.1	3.1	-91.15	-11.9	-595.0	595.2	588.0	7.15	83.288	
200.0	200.0	202.1	202.1	3.2	3.5	-91.15	-11.9	-595.0	595.2	587.5	7.62	78.075	
300.0	300.0	302.1	302.1	3.4	4.1	-91.15	-11.9	-595.0	595.2	586.8	8.32	71.532	
400.0	400.0	402.1	402.1	3.5	5.4	-91.15	-11.9	-595.0	595.2	585.2	9.97	59.698	
446.7	446.7	448.8	448.8	3.6	6.2	-91.13	-11.8	-595.0	595.2	584.3	10.86	54.782	
500.0	500.0	502.1	502.1	3.6	7.0	-91.14	-11.8	-595.0	595.2	583.2	11.95	49.798	
600.0	600.0	602.1	602.1	3.7	8.7	-91.15	-11.9	-595.0	595.2	581.0	14.13	42.116	
700.0	700.0	702.1	702.1	3.9	10.5	-91.15	-11.9	-595.0	595.2	578.6	16.57	35.923	
734.5	734.5	736.6	736.6	3.9	11.2	-91.12	-11.6	-595.0	595.2	577.7	17.43	34.153	
800.0	800.0	802.1	802.1	4.0	12.4	-91.13	-11.7	-595.0	595.2	576.1	19.08	31.197	
900.0	900.0	902.1	902.1	4.1	14.3	-91.15	-11.9	-595.0	595.2	573.5	21.71	27.417	
1,000.0	1,000.0	1,002.1	1,002.1	4.2	16.4	-91.15	-11.9	-595.0	595.2	570.6	24.57	24.226	
1,032.5	1,032.5	1,034.6	1,034.5	4.3	17.1	-91.09	-11.3	-595.0	595.2	569.7	25.50	23.338	
1,100.0	1,100.0	1,102.1	1,102.0	4.3	18.5	-91.11	-11.5	-595.0	595.2	567.7	27.45	21.680	
1,200.0	1,200.0	1,202.2	1,202.1	4.5	20.7	-91.15	-11.9	-595.0	595.2	564.9	30.30	19.643	
1,300.0	1,300.0	1,302.2	1,302.1	4.6	22.9	-91.15	-11.9	-595.0	595.2	561.8	33.39	17.827	
1,400.0	1,400.0	1,402.2	1,402.1	4.7	25.2	-91.15	-11.9	-595.0	595.2	558.7	36.48	16.313	
1,440.0	1,440.0	1,442.2	1,442.1	4.7	26.1	-91.02	-10.6	-595.0	595.1	557.4	37.73	15.775	CC
1,500.0	1,500.0	1,502.2	1,502.1	4.8	27.4	-91.04	-10.8	-595.0	595.1	555.6	39.59	15.032	
1,600.0	1,600.0	1,602.1	1,602.0	4.9	29.7	179.90	-11.4	-595.0	596.9	554.4	42.52	14.037	ES
1,700.0	1,699.8	1,702.1	1,701.9	5.1	32.1	179.85	-11.9	-595.0	602.1	556.2	45.94	13.107	
1,800.0	1,799.5	1,801.7	1,801.5	5.3	34.8	179.90	-11.4	-595.0	610.9	561.1	49.70	12.290	
1,900.0	1,898.7	1,901.1	1,900.8	5.6	37.5	179.86	-11.9	-595.0	623.0	569.5	53.59	11.626	
2,000.0	1,997.5	1,999.8	1,999.4	5.9	40.5	179.91	-11.4	-595.0	638.7	580.9	57.76	11.057	
2,100.0	2,095.6	2,098.2	2,097.7	6.3	43.5	179.86	-11.9	-595.0	657.8	595.8	61.98	10.612	
2,200.0	2,193.1	2,195.6	2,195.1	6.6	46.5	179.97	-10.7	-595.0	680.2	614.0	66.20	10.276	
2,300.0	2,289.6	2,292.1	2,291.6	7.0	49.5	179.90	-11.5	-595.0	706.1	635.8	70.38	10.033	
2,400.0	2,385.8	2,388.5	2,387.9	7.3	52.5	179.87	-11.9	-595.0	733.7	659.1	74.61	9.834	
2,500.0	2,481.9	2,484.7	2,484.0	7.7	55.5	179.88	-11.9	-595.0	761.3	682.4	78.85	9.655	
2,600.0	2,578.0	2,580.8	2,580.0	8.0	58.6	-179.92	-9.4	-595.0	788.8	705.7	83.09	9.493	
2,700.0	2,674.1	2,676.9	2,676.1	8.4	61.6	-179.97	-10.0	-595.0	816.4	729.0	87.33	9.348	
2,800.0	2,770.3	2,773.1	2,772.2	8.8	64.6	179.92	-11.5	-595.0	844.0	752.4	91.58	9.215	
2,900.0	2,866.4	2,869.5	2,868.5	9.2	67.7	179.89	-11.9	-595.0	871.5	775.6	95.89	9.089	
3,000.0	2,962.5	2,965.7	2,964.6	9.6	70.7	179.99	-10.5	-595.0	899.1	798.9	100.19	8.974	
3,100.0	3,058.7	3,061.7	3,060.6	10.1	73.8	179.95	-11.1	-595.0	926.6	822.2	104.49	8.869	
3,200.0	3,154.8	3,158.2	3,156.9	10.5	77.0	179.90	-11.9	-595.0	954.2	845.2	108.99	8.755	
3,300.0	3,250.9	3,254.3	3,253.0	10.9	80.4	179.99	-10.6	-595.0	981.8	868.0	113.77	8.630	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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	9.0	9.0	3.0	3.0	105.22	-200.0	734.9	761.7	754.7	6.98	109.089	
100.0	100.0	109.0	109.0	3.1	3.2	105.22	-200.0	734.9	761.7	754.6	7.11	107.137	
200.0	200.0	209.0	209.0	3.2	3.6	105.22	-200.0	734.9	761.7	754.0	7.63	99.794	
300.0	300.0	309.0	309.0	3.4	4.1	105.22	-200.0	734.9	761.7	753.3	8.34	91.274	
400.0	400.0	409.0	409.0	3.5	4.8	105.22	-200.0	734.9	761.7	752.5	9.20	82.809	
500.0	500.0	509.0	509.0	3.6	5.7	105.22	-200.0	734.9	761.7	751.4	10.24	74.378	
600.0	600.0	609.0	609.0	3.7	7.3	105.22	-200.0	734.9	761.7	749.3	12.36	61.633	
700.0	700.0	709.0	709.0	3.9	9.1	105.22	-200.0	734.9	761.7	747.0	14.66	51.944	
741.4	741.4	750.4	750.4	3.9	9.9	105.18	-199.5	734.9	761.5	745.9	15.65	48.654	
800.0	800.0	808.8	808.8	4.0	10.9	105.19	-199.5	734.9	761.5	744.5	17.07	44.611	
900.0	900.0	908.5	908.5	4.1	12.7	105.20	-199.7	734.9	761.6	742.0	19.54	38.975	
1,000.0	1,000.0	1,009.0	1,009.0	4.2	14.6	105.22	-200.0	734.9	761.7	739.7	22.00	34.616	
1,100.0	1,100.0	1,109.0	1,109.0	4.3	16.8	105.22	-200.0	734.9	761.7	736.8	24.91	30.576	
1,200.0	1,200.0	1,209.0	1,209.0	4.5	18.9	105.22	-200.0	734.9	761.7	733.8	27.84	27.355	
1,241.4	1,241.4	1,250.5	1,250.4	4.5	19.8	105.16	-199.2	734.9	761.5	732.4	29.07	26.198	
1,300.0	1,300.0	1,308.7	1,308.7	4.6	21.0	105.17	-199.2	734.9	761.5	730.7	30.79	24.732	
1,400.0	1,400.0	1,408.2	1,408.2	4.7	23.2	105.19	-199.5	734.9	761.5	727.8	33.74	22.571	
1,500.0	1,500.0	1,509.1	1,509.0	4.8	25.4	105.22	-200.0	734.9	761.7	724.9	36.80	20.699	
1,600.0	1,600.0	1,609.1	1,609.0	4.9	28.0	16.27	-200.0	734.9	760.0	719.8	40.20	18.906	
1,700.0	1,699.8	1,707.9	1,707.7	5.1	30.6	16.35	-199.2	734.9	754.8	711.0	43.79	17.237	
1,800.0	1,799.5	1,808.7	1,808.5	5.3	33.2	16.65	-200.0	734.9	746.6	699.1	47.47	15.727	
1,900.0	1,898.7	1,908.0	1,907.7	5.6	35.8	16.99	-200.0	734.9	734.9	683.8	51.18	14.361	
2,000.0	1,997.5	2,006.7	2,006.4	5.9	38.5	17.29	-198.1	734.9	719.5	664.6	54.87	13.112	
2,100.0	2,095.6	2,103.4	2,103.0	6.3	41.0	17.89	-198.5	734.9	701.4	642.9	58.49	11.991	
2,200.0	2,193.1	2,199.3	2,199.0	6.6	43.6	18.70	-199.7	734.9	680.3	618.2	62.09	10.956	
2,300.0	2,289.6	2,299.1	2,298.6	7.0	46.1	19.64	-200.0	734.9	655.8	590.2	65.66	9.989	
2,400.0	2,385.8	2,394.4	2,393.9	7.3	48.5	20.40	-199.3	734.9	629.6	560.6	69.01	9.124	
2,500.0	2,481.9	2,491.5	2,490.9	7.7	51.0	21.39	-200.0	734.9	604.0	531.5	72.49	8.332	
2,600.0	2,578.0	2,587.6	2,587.0	8.0	53.8	22.38	-200.0	734.9	578.3	501.8	76.41	7.568	
2,700.0	2,674.1	2,681.5	2,681.0	8.4	56.5	23.41	-199.8	734.9	552.6	472.4	80.24	6.887	
2,800.0	2,770.3	2,780.0	2,779.3	8.8	59.5	24.64	-200.0	734.9	527.4	442.9	84.51	6.241	
2,900.0	2,866.4	2,872.9	2,872.2	9.2	62.5	25.85	-199.5	734.9	502.1	413.5	88.59	5.667	
3,000.0	2,962.5	2,972.4	2,971.5	9.6	65.4	27.38	-200.0	734.9	477.5	384.8	92.67	5.152	
3,100.0	3,058.7	3,068.5	3,067.7	10.1	68.1	28.97	-200.0	734.9	453.0	356.5	96.50	4.694	
3,200.0	3,154.8	3,164.4	3,163.5	10.5	70.8	30.47	-197.8	734.9	427.8	327.4	100.33	4.264	
3,300.0	3,250.9	3,259.3	3,258.4	10.9	73.5	32.46	-198.2	734.9	404.2	300.1	104.11	3.883	
3,400.0	3,347.0	3,354.1	3,353.2	11.4	76.2	34.75	-199.3	734.9	381.6	273.7	107.88	3.537	
3,500.0	3,443.2	3,453.3	3,452.2	11.8	79.4	37.40	-200.0	734.9	359.4	247.1	112.32	3.200	
3,600.0	3,539.3	3,549.4	3,548.3	12.3	82.7	40.19	-200.0	734.9	337.6	220.5	117.03	2.884	
3,700.0	3,635.4	3,644.8	3,643.6	12.7	86.1	43.13	-198.6	734.9	315.7	194.0	121.70	2.594	
3,800.0	3,731.5	3,739.5	3,738.3	13.2	89.4	46.75	-199.3	734.9	296.3	170.0	126.32	2.346	
3,900.0	3,827.7	3,838.2	3,836.7	13.6	93.5	50.99	-200.0	734.9	278.3	146.3	131.99	2.108	
4,000.0	3,923.8	3,934.3	3,932.8	14.1	98.3	55.56	-200.0	734.9	261.4	122.8	138.59	1.886 Advise and Monitor	
4,100.0	4,019.9	4,029.2	4,027.6	14.6	103.0	60.29	-197.2	734.9	244.0	98.9	145.09	1.681 Advise and Monitor	
4,200.0	4,116.0	4,122.6	4,120.8	15.0	107.6	65.99	-198.4	734.9	232.3	80.9	151.47	1.534 Advise and Monitor	
4,300.0	4,212.2	4,223.7	4,221.2	15.5	112.8	72.67	-200.0	734.9	223.7	65.1	158.67	1.410 Advise and Monitor	
4,400.0	4,308.3	4,316.6	4,313.9	16.0	117.8	79.04	-198.4	734.9	215.2	49.6	165.61	1.300 Advise and Monitor	
4,466.8	4,372.5	4,378.0	4,374.8	16.3	121.1	83.55	-200.0	734.9	214.2	44.0	170.16	1.259 Advise and Monitor, CC, ES, SF	
4,500.0	4,404.4	4,378.0	4,374.8	16.4	121.1	83.55	-200.0	734.9	216.7	49.1	167.60	1.293 Advise and Monitor	
4,600.0	4,500.5	4,378.0	4,374.8	16.9	121.1	83.55	-200.0	734.9	252.2	107.7	144.54	1.745 Advise and Monitor	
4,700.0	4,596.7	4,378.0	4,374.8	17.4	121.1	83.55	-200.0	734.9	316.6	198.8	117.84	2.687	
4,800.0	4,692.8	4,378.0	4,374.8	17.9	121.1	83.55	-200.0	734.9	396.1	298.1	98.06	4.040	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,788.9	4,378.0	4,374.8	18.4	121.1	83.55	-200.0	734.9	483.3	398.5	84.78	5.700		
5,000.0	4,885.0	4,378.0	4,374.8	18.8	121.1	83.55	-200.0	734.9	574.6	498.7	75.91	7.570		
5,100.0	4,981.2	4,378.0	4,374.8	19.3	121.1	83.55	-200.0	734.9	668.5	598.6	69.85	9.570		
5,200.0	5,077.3	4,378.0	4,374.8	19.8	121.1	83.55	-200.0	734.9	763.9	698.2	65.63	11.640		
5,300.0	5,173.4	4,378.0	4,374.8	20.3	121.1	83.55	-200.0	734.9	860.3	797.7	62.60	13.743		
5,400.0	5,269.6	4,378.0	4,374.8	20.8	121.1	83.55	-200.0	734.9	957.5	897.1	60.39	15.856		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 1280-r.5 MWD+IFR1, 11439-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference												Rule Assigned:	
Measured Depth		Offset		Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
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)			
5,600.0	5,461.8	5,493.9	5,473.7	21.8	15.4	-16.01	296.3	1,965.7	985.4	949.4	36.05	27.338	
5,700.0	5,557.9	5,590.0	5,569.8	22.3	15.4	-16.46	296.3	1,965.7	958.9	922.3	36.60	26.199	
5,800.0	5,654.1	5,686.2	5,666.0	22.7	15.5	-16.94	296.3	1,965.7	932.4	895.3	37.15	25.097	
5,900.0	5,750.2	5,782.3	5,762.1	23.2	15.5	-17.45	296.3	1,965.7	906.0	868.3	37.70	24.031	
6,000.0	5,846.3	5,878.4	5,858.2	23.7	15.6	-17.98	296.3	1,965.7	879.6	841.4	38.25	22.999	
6,100.0	5,942.4	5,974.5	5,954.3	24.2	15.6	-18.55	296.3	1,965.7	853.4	814.6	38.79	22.001	
6,124.5	5,966.0	5,998.1	5,977.9	24.3	15.6	-18.70	296.3	1,965.7	846.9	808.0	38.91	21.765	
6,200.0	6,038.6	6,070.7	6,050.5	24.7	15.7	-19.12	296.3	1,965.7	827.4	788.1	39.31	21.048	
6,300.0	6,135.1	6,167.2	6,147.0	25.2	15.7	-19.69	296.3	1,965.7	802.3	762.5	39.84	20.139	
6,400.0	6,231.7	6,263.8	6,243.6	25.7	15.8	-20.28	296.3	1,965.7	778.1	737.7	40.36	19.280	
6,500.0	6,328.6	6,360.7	6,340.5	26.2	15.8	-20.89	296.3	1,965.7	754.8	713.9	40.87	18.469	
6,600.0	6,425.7	6,457.8	6,437.6	26.6	15.9	-21.51	296.3	1,965.7	732.3	691.0	41.37	17.703	
6,700.0	6,522.9	6,555.0	6,534.8	27.1	15.9	-22.15	296.3	1,965.7	710.8	668.9	41.86	16.981	
6,800.0	6,620.4	6,652.5	6,632.3	27.6	16.0	-22.81	296.3	1,965.7	690.1	647.8	42.34	16.301	
6,900.0	6,718.1	6,750.2	6,730.0	28.1	16.1	-23.47	296.3	1,965.7	670.3	627.5	42.80	15.661	
7,000.0	6,816.0	6,848.1	6,827.9	28.5	16.1	-24.15	296.3	1,965.7	651.5	608.2	43.26	15.060	
7,100.0	6,914.0	6,946.1	6,925.9	29.0	16.2	-24.84	296.3	1,965.7	633.4	589.7	43.70	14.496	
7,200.0	7,012.2	7,044.3	7,024.1	29.5	16.2	-25.54	296.3	1,965.7	616.3	572.2	44.13	13.968	
7,300.0	7,110.6	7,142.7	7,122.5	29.9	16.3	-26.24	296.3	1,965.7	600.1	555.5	44.54	13.473	
7,400.0	7,209.1	7,241.2	7,221.0	30.4	16.3	-26.95	296.3	1,965.7	584.7	539.8	44.94	13.011	
7,500.0	7,307.8	7,339.9	7,319.7	30.8	16.4	-27.65	296.3	1,965.7	570.2	524.9	45.33	12.580	
7,600.0	7,406.6	7,438.7	7,418.5	31.3	16.5	-28.35	296.3	1,965.7	556.5	510.8	45.70	12.178	
7,700.0	7,505.5	7,537.6	7,517.4	31.7	16.5	-29.05	296.3	1,965.7	543.7	497.7	46.06	11.805	
7,800.0	7,604.6	7,636.6	7,616.5	32.1	16.6	-29.74	296.3	1,965.7	531.8	485.4	46.41	11.459	
7,900.0	7,703.7	7,735.8	7,715.6	32.6	16.6	-30.41	296.3	1,965.7	520.6	473.9	46.74	11.139	
8,000.0	7,803.0	7,835.1	7,814.9	33.0	16.7	-31.06	296.3	1,965.7	510.3	463.3	47.07	10.843	
8,100.0	7,902.4	7,934.5	7,914.3	33.4	16.8	-31.69	296.3	1,965.7	500.8	453.5	47.38	10.571	
8,200.0	8,001.9	8,034.0	8,013.8	33.8	16.8	-32.29	296.3	1,965.7	492.1	444.5	47.69	10.321	
8,300.0	8,101.4	8,133.5	8,113.3	34.2	16.9	-32.86	296.3	1,965.7	484.2	436.3	47.99	10.092	
8,400.0	8,201.1	8,233.2	8,213.0	34.6	16.9	-33.39	296.3	1,965.7	477.1	428.8	48.28	9.883	
8,500.0	8,300.8	8,332.9	8,312.7	34.9	17.0	-33.88	296.3	1,965.7	470.8	422.2	48.57	9.693	
8,600.0	8,400.5	8,432.6	8,412.4	35.3	17.1	-34.33	296.3	1,965.7	465.2	416.3	48.85	9.522	
8,700.0	8,500.4	8,532.5	8,512.3	35.7	17.1	-34.73	296.3	1,965.7	460.3	411.2	49.14	9.368	
8,800.0	8,600.2	8,632.3	8,612.1	36.0	17.2	-35.08	296.3	1,965.7	456.2	406.8	49.42	9.231	
8,900.0	8,700.2	8,732.3	8,712.1	36.3	17.2	-35.37	296.3	1,965.7	452.8	403.1	49.71	9.110	
9,000.0	8,800.1	8,832.2	8,812.0	36.6	17.3	-35.60	296.3	1,965.7	450.2	400.2	49.99	9.005	
9,100.0	8,900.1	8,932.2	8,912.0	36.9	17.4	-35.77	296.3	1,965.7	448.2	398.0	50.27	8.917	
9,200.0	9,000.1	9,032.2	9,012.0	37.2	17.4	-35.88	296.3	1,965.7	447.0	396.5	50.54	8.844	
9,300.0	9,100.1	9,132.2	9,112.0	37.4	17.5	-35.93	296.3	1,965.7	446.5	395.7	50.78	8.792	
9,324.5	9,124.6	9,156.7	9,136.5	37.4	17.5	53.07	296.3	1,965.7	446.4	395.6	50.81	8.786	
9,400.0	9,200.1	9,232.2	9,212.0	37.4	17.5	53.07	296.3	1,965.7	446.4	395.6	50.86	8.777	
9,500.0	9,300.1	9,332.2	9,312.0	37.4	17.6	53.07	296.3	1,965.7	446.4	395.5	50.94	8.764	
9,600.0	9,400.1	9,432.2	9,412.0	37.4	17.7	53.07	296.3	1,965.7	446.4	395.4	51.01	8.752	
9,700.0	9,500.1	9,532.2	9,512.0	37.5	17.7	53.07	296.3	1,965.7	446.4	395.4	51.09	8.739	
9,800.0	9,600.1	9,632.2	9,612.0	37.5	17.8	53.07	296.3	1,965.7	446.4	395.3	51.16	8.726	
9,900.0	9,700.1	9,732.2	9,712.0	37.5	17.9	53.07	296.3	1,965.7	446.4	395.2	51.24	8.713	
10,000.0	9,800.1	9,832.2	9,812.0	37.5	17.9	53.07	296.3	1,965.7	446.4	395.1	51.31	8.700	
10,100.0	9,900.1	9,932.2	9,912.0	37.6	18.0	53.07	296.3	1,965.7	446.4	395.1	51.39	8.687	
10,200.0	10,000.1	10,032.2	10,012.0	37.6	18.0	53.07	296.3	1,965.7	446.4	395.0	51.47	8.674	
10,300.0	10,100.1	10,132.2	10,112.0	37.6	18.1	53.07	296.3	1,965.7	446.4	394.9	51.55	8.661	
10,400.0	10,200.1	10,232.2	10,212.0	37.6	18.2	53.07	296.3	1,965.7	446.4	394.8	51.62	8.648	
10,500.0	10,300.1	10,332.2	10,312.0	37.6	18.2	53.07	296.3	1,965.7	446.4	394.7	51.70	8.635	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2													Offset Site Error: 0.0 usft
Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 1280-r.5 MWD+IFR1, 11439-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	
10,600.0	10,400.1	10,432.2	10,412.0	37.7	18.3	53.07	296.3	1,965.7	446.4	394.7	51.78	8.622	
10,700.0	10,500.1	10,532.2	10,512.0	37.7	18.4	53.07	296.3	1,965.7	446.4	394.6	51.86	8.609	
10,800.0	10,600.1	10,632.2	10,612.0	37.7	18.4	53.07	296.3	1,965.7	446.4	394.5	51.94	8.596	
10,900.0	10,700.1	10,732.2	10,712.0	37.7	18.5	53.07	296.3	1,965.7	446.4	394.4	52.02	8.582	
11,000.0	10,800.1	10,832.2	10,812.0	37.7	18.6	53.07	296.3	1,965.7	446.4	394.3	52.10	8.569	
11,100.0	10,900.1	10,932.2	10,912.0	37.8	18.6	53.07	296.3	1,965.7	446.4	394.3	52.18	8.556	
11,200.0	11,000.1	11,032.2	11,012.0	37.8	18.7	53.07	296.3	1,965.7	446.4	394.2	52.26	8.543	
11,300.0	11,100.1	11,132.2	11,112.0	37.8	18.7	53.07	296.3	1,965.7	446.4	394.1	52.34	8.530	
11,400.0	11,200.1	11,232.2	11,212.0	37.8	18.8	53.07	296.3	1,965.7	446.4	394.0	52.42	8.516	
11,461.5	11,261.5	11,293.6	11,273.4	37.8	18.8	53.07	296.3	1,965.7	446.4	394.0	52.46	8.509 CC, ES, SF	
11,475.0	11,275.1	11,307.2	11,287.0	37.8	18.9	-126.57	296.3	1,965.7	446.6	394.2	52.34	8.531	
11,500.0	11,300.0	11,332.1	11,311.9	37.9	18.9	-126.63	296.3	1,965.7	447.4	395.1	52.31	8.552	
11,525.0	11,324.9	11,357.0	11,336.8	37.9	18.9	-126.75	296.3	1,965.7	449.0	396.7	52.24	8.595	
11,550.0	11,349.6	11,381.6	11,361.5	37.9	18.9	-126.92	296.3	1,965.7	451.4	399.2	52.12	8.660	
11,575.0	11,374.0	11,406.1	11,385.9	37.9	18.9	-127.13	296.3	1,965.7	454.6	402.6	51.96	8.748	
11,600.0	11,398.1	11,430.2	11,410.0	37.9	18.9	-127.38	296.3	1,965.7	458.6	406.8	51.76	8.860	
11,625.0	11,421.9	11,450.0	11,429.8	37.9	18.9	-127.52	296.5	1,965.7	463.6	412.0	51.58	8.988	
11,650.0	11,445.2	11,462.3	11,442.1	37.9	18.9	-127.40	296.9	1,965.7	469.9	418.4	51.47	9.130	
11,675.0	11,468.0	11,475.0	11,454.8	37.9	18.9	-127.23	297.7	1,965.7	477.5	426.2	51.29	9.310	
11,700.0	11,490.3	11,488.4	11,468.1	37.9	18.9	-127.04	298.9	1,965.7	486.4	435.4	51.04	9.529	
11,725.0	11,511.9	11,500.0	11,479.6	37.9	18.9	-126.67	300.3	1,965.7	496.6	445.9	50.78	9.780	
11,750.0	11,532.8	11,510.9	11,490.5	37.9	18.9	-126.16	301.8	1,965.6	508.2	457.7	50.49	10.065	
11,775.0	11,553.0	11,525.0	11,504.3	37.9	18.9	-125.78	304.1	1,965.6	520.9	470.8	50.10	10.398	
11,800.0	11,572.4	11,525.0	11,504.3	37.9	18.9	-124.12	304.1	1,965.6	534.9	485.0	49.94	10.710	
11,825.0	11,590.9	11,537.8	11,516.9	37.9	18.9	-123.36	306.6	1,965.6	550.0	500.4	49.53	11.104	
11,850.0	11,608.6	11,550.0	11,528.8	37.9	18.9	-122.40	309.2	1,965.6	566.1	517.0	49.10	11.530	
11,875.0	11,625.3	11,550.0	11,528.8	37.9	18.9	-120.00	309.2	1,965.6	583.2	534.3	48.88	11.931	
11,900.0	11,641.0	11,556.4	11,535.1	37.9	18.9	-117.98	310.8	1,965.6	601.2	552.7	48.54	12.387	
11,925.0	11,655.6	11,560.9	11,539.4	37.9	18.9	-115.44	311.9	1,965.6	620.1	571.8	48.22	12.860	
11,950.0	11,669.2	11,564.6	11,543.0	37.9	18.9	-112.47	312.8	1,965.6	639.6	591.7	47.90	13.352	
11,975.0	11,681.6	11,567.6	11,545.8	37.9	18.9	-109.04	313.6	1,965.6	659.8	612.2	47.60	13.861	
12,000.0	11,692.9	11,575.0	11,553.0	37.9	18.9	-105.87	315.7	1,965.6	680.5	633.3	47.22	14.411	
12,025.0	11,703.0	11,575.0	11,553.0	37.9	18.9	-101.26	315.7	1,965.6	701.7	654.7	46.96	14.941	
12,050.0	11,712.0	11,575.0	11,553.0	38.0	18.9	-96.25	315.7	1,965.6	723.2	676.5	46.70	15.485	
12,075.0	11,719.6	11,575.0	11,553.0	38.0	18.9	-90.92	315.7	1,965.6	745.0	698.5	46.44	16.042	
12,100.0	11,726.0	11,575.0	11,553.0	38.0	18.9	-85.37	315.7	1,965.6	767.0	720.8	46.18	16.610	
12,125.0	11,731.2	11,575.0	11,553.0	38.0	18.9	-79.71	315.7	1,965.6	789.1	743.2	45.91	17.186	
12,150.0	11,735.0	11,575.0	11,553.0	38.0	18.9	-74.07	315.7	1,965.6	811.3	765.6	45.65	17.771	
12,175.0	11,737.6	11,575.0	11,553.0	38.0	18.9	-68.60	315.7	1,965.6	833.5	788.1	45.39	18.361	
12,200.0	11,738.9	11,566.7	11,545.0	38.1	18.9	-62.37	313.4	1,965.6	855.5	810.3	45.24	18.911	
12,211.5	11,739.0	11,565.6	11,543.9	38.1	18.9	-60.01	313.1	1,965.6	865.6	820.5	45.13	19.179	
12,300.0	11,739.0	11,550.0	11,528.8	38.2	18.9	-58.23	309.2	1,965.6	944.3	899.8	44.49	21.223	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 1294-r.5 MWD+IFR1, 11266-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	
7,300.0	7,110.6	7,129.0	7,121.7	29.9	12.9	-15.88	310.4	2,385.5	996.8	952.1	44.66	22.319	
7,400.0	7,209.1	7,227.5	7,220.2	30.4	13.0	-16.13	310.4	2,385.5	980.3	935.0	45.25	21.663	
7,500.0	7,307.8	7,326.2	7,318.9	30.8	13.1	-16.37	310.4	2,385.5	964.6	918.8	45.83	21.046	
7,600.0	7,406.6	7,425.0	7,417.7	31.3	13.2	-16.61	310.4	2,385.5	949.8	903.4	46.41	20.466	
7,700.0	7,505.5	7,523.9	7,516.6	31.7	13.2	-16.85	310.4	2,385.5	935.9	888.9	46.98	19.922	
7,800.0	7,604.6	7,623.0	7,615.7	32.1	13.3	-17.07	310.4	2,385.5	922.8	875.2	47.54	19.412	
7,900.0	7,703.7	7,722.2	7,714.8	32.6	13.4	-17.29	310.4	2,385.5	910.5	862.4	48.09	18.935	
8,000.0	7,803.0	7,821.4	7,814.1	33.0	13.5	-17.50	310.4	2,385.5	899.1	850.4	48.63	18.489	
8,100.0	7,902.4	7,920.8	7,913.5	33.4	13.6	-17.70	310.4	2,385.5	888.5	839.3	49.16	18.074	
8,200.0	8,001.9	8,020.3	8,013.0	33.8	13.7	-17.89	310.4	2,385.5	878.7	829.0	49.68	17.688	
8,300.0	8,101.4	8,119.9	8,112.5	34.2	13.7	-18.06	310.4	2,385.5	869.8	819.6	50.19	17.331	
8,400.0	8,201.1	8,219.5	8,212.2	34.6	13.8	-18.23	310.4	2,385.5	861.7	811.1	50.69	17.000	
8,500.0	8,300.8	8,319.2	8,311.9	34.9	13.9	-18.38	310.4	2,385.5	854.5	803.3	51.18	16.696	
8,600.0	8,400.5	8,419.0	8,411.6	35.3	14.0	-18.51	310.4	2,385.5	848.1	796.4	51.66	16.418	
8,700.0	8,500.4	8,518.8	8,511.5	35.7	14.1	-18.63	310.4	2,385.5	842.5	790.4	52.12	16.165	
8,800.0	8,600.2	8,618.7	8,611.3	36.0	14.2	-18.73	310.4	2,385.5	837.8	785.2	52.57	15.936	
8,900.0	8,700.2	8,718.6	8,711.3	36.3	14.2	-18.81	310.4	2,385.5	833.8	780.8	53.00	15.732	
9,000.0	8,800.1	8,818.5	8,811.2	36.6	14.3	-18.88	310.4	2,385.5	830.8	777.3	53.42	15.552	
9,100.0	8,900.1	8,918.5	8,911.2	36.9	14.4	-18.93	310.4	2,385.5	828.5	774.7	53.81	15.397	
9,200.0	9,000.1	9,018.5	9,011.2	37.2	14.5	-18.96	310.4	2,385.5	827.0	772.9	54.17	15.269	
9,300.0	9,100.1	9,118.5	9,111.2	37.4	14.6	-18.98	310.4	2,385.5	826.4	772.0	54.46	15.174	
9,324.5	9,124.6	9,143.0	9,135.7	37.4	14.6	70.02	310.4	2,385.5	826.4	771.9	54.50	15.164	
9,400.0	9,200.1	9,218.5	9,211.2	37.4	14.7	70.02	310.4	2,385.5	826.4	771.9	54.55	15.150	
9,500.0	9,300.1	9,318.5	9,311.2	37.4	14.8	70.02	310.4	2,385.5	826.4	771.8	54.62	15.130	
9,600.0	9,400.1	9,418.5	9,411.2	37.4	14.8	70.02	310.4	2,385.5	826.4	771.7	54.69	15.110	
9,700.0	9,500.1	9,518.5	9,511.2	37.5	14.9	70.02	310.4	2,385.5	826.4	771.6	54.76	15.090	
9,800.0	9,600.1	9,618.5	9,611.2	37.5	15.0	70.02	310.4	2,385.5	826.4	771.6	54.84	15.070	
9,900.0	9,700.1	9,718.5	9,711.2	37.5	15.1	70.02	310.4	2,385.5	826.4	771.5	54.91	15.050	
10,000.0	9,800.1	9,818.5	9,811.2	37.5	15.2	70.02	310.4	2,385.5	826.4	771.4	54.98	15.030	
10,100.0	9,900.1	9,918.5	9,911.2	37.6	15.3	70.02	310.4	2,385.5	826.4	771.3	55.06	15.010	
10,200.0	10,000.1	10,018.5	10,011.2	37.6	15.3	70.02	310.4	2,385.5	826.4	771.3	55.13	14.989	
10,300.0	10,100.1	10,118.5	10,111.2	37.6	15.4	70.02	310.4	2,385.5	826.4	771.2	55.21	14.969	
10,400.0	10,200.1	10,218.5	10,211.2	37.6	15.5	70.02	310.4	2,385.5	826.4	771.1	55.28	14.948	
10,500.0	10,300.1	10,318.5	10,311.2	37.6	15.6	70.02	310.4	2,385.5	826.4	771.0	55.36	14.928	
10,600.0	10,400.1	10,418.5	10,411.2	37.7	15.7	70.02	310.4	2,385.5	826.4	771.0	55.44	14.908	
10,700.0	10,500.1	10,518.5	10,511.2	37.7	15.8	70.02	310.4	2,385.5	826.4	770.9	55.51	14.887	
10,800.0	10,600.1	10,618.5	10,611.2	37.7	15.8	70.02	310.4	2,385.5	826.4	770.8	55.59	14.866	
10,900.0	10,700.1	10,718.5	10,711.2	37.7	15.9	70.02	310.4	2,385.5	826.4	770.7	55.67	14.846	
11,000.0	10,800.1	10,818.5	10,811.2	37.7	16.0	70.02	310.4	2,385.5	826.4	770.7	55.74	14.825	
11,100.0	10,900.1	10,918.5	10,911.2	37.8	16.1	70.02	310.4	2,385.5	826.4	770.6	55.82	14.805	
11,200.0	11,000.1	11,018.5	11,011.2	37.8	16.2	70.02	310.4	2,385.5	826.4	770.5	55.90	14.784	
11,300.0	11,100.1	11,118.5	11,111.2	37.8	16.3	70.02	310.4	2,385.5	826.4	770.4	55.98	14.763	
11,400.0	11,200.1	11,218.5	11,211.2	37.8	16.3	70.02	310.4	2,385.5	826.4	770.4	56.05	14.743	
11,403.8	11,203.9	11,222.3	11,215.0	37.8	16.3	70.02	310.4	2,385.5	826.4	770.4	56.05	14.743 CC	
11,461.5	11,261.5	11,275.0	11,267.7	37.8	16.4	70.02	310.5	2,385.5	826.5	770.3	56.13	14.725 ES, SF	
11,475.0	11,275.1	11,283.3	11,276.0	37.8	16.4	-109.61	310.7	2,385.5	826.6	770.6	56.06	14.746	
11,500.0	11,300.0	11,300.0	11,292.6	37.9	16.4	-109.63	311.6	2,385.5	827.5	771.4	56.13	14.745	
11,525.0	11,324.9	11,314.4	11,307.0	37.9	16.4	-109.63	312.9	2,385.5	829.2	773.0	56.20	14.755	
11,550.0	11,349.6	11,325.0	11,317.5	37.9	16.4	-109.54	314.1	2,385.5	831.6	775.3	56.29	14.774	
11,575.0	11,374.0	11,343.8	11,336.1	37.9	16.4	-109.60	316.8	2,385.5	834.7	778.4	56.26	14.835	
11,600.0	11,398.1	11,357.6	11,349.7	37.9	16.4	-109.53	319.2	2,385.4	838.6	782.3	56.27	14.903	
11,625.0	11,421.9	11,375.0	11,366.7	37.9	16.4	-109.57	322.8	2,385.4	843.3	787.1	56.21	15.002	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 1294-r.5 MWD+IFR1, 11266-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
11,650.0	11,445.2	11,382.8	11,374.3	37.9	16.4	-109.22	324.7	2,385.4	848.9	792.6	56.24	15.094	
11,675.0	11,468.0	11,394.0	11,385.2	37.9	16.4	-108.94	327.5	2,385.4	855.2	799.0	56.19	15.219	
11,700.0	11,490.3	11,400.0	11,390.9	37.9	16.4	-108.34	329.1	2,385.4	862.5	806.3	56.18	15.350	
11,725.0	11,511.9	11,413.8	11,404.1	37.9	16.4	-108.04	333.2	2,385.4	870.5	814.4	56.06	15.528	
11,750.0	11,532.8	11,425.0	11,414.7	37.9	16.4	-107.54	336.7	2,385.3	879.4	823.5	55.94	15.721	
11,775.0	11,553.0	11,425.0	11,414.7	37.9	16.4	-106.32	336.7	2,385.3	889.2	833.3	55.92	15.903	
11,800.0	11,572.4	11,436.6	11,425.6	37.9	16.4	-105.64	340.6	2,385.3	899.7	844.0	55.74	16.142	
11,825.0	11,590.9	11,442.3	11,431.0	37.9	16.4	-104.51	342.7	2,385.3	911.1	855.5	55.60	16.386	
11,850.0	11,608.6	11,450.0	11,438.1	37.9	16.5	-103.39	345.5	2,385.3	923.2	867.8	55.42	16.658	
11,875.0	11,625.3	11,450.0	11,438.1	37.9	16.5	-101.63	345.5	2,385.3	936.1	880.8	55.31	16.926	
11,900.0	11,641.0	11,450.0	11,438.1	37.9	16.5	-99.73	345.5	2,385.3	949.6	894.5	55.17	17.213	
11,925.0	11,655.6	11,457.3	11,444.9	37.9	16.5	-98.21	348.3	2,385.3	963.8	908.8	54.93	17.544	
11,950.0	11,669.2	11,459.2	11,446.7	37.9	16.5	-96.17	349.1	2,385.3	978.5	923.7	54.74	17.874	
11,975.0	11,681.6	11,460.5	11,447.8	37.9	16.5	-93.97	349.6	2,385.2	993.7	939.2	54.54	18.220	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 62-GYRO-NS, 1310-r.5 MWD+IFR1+MS		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,700.0	6,522.9	6,534.8	6,534.2	27.1	10.5	0.01	40.2	2,305.1	995.6	954.4	41.22	24.151	
6,800.0	6,620.4	6,632.8	6,632.3	27.6	10.6	0.01	40.0	2,304.9	973.2	931.3	41.86	23.250	
6,900.0	6,718.1	6,733.4	6,732.8	28.1	10.6	0.04	39.7	2,304.5	951.4	908.9	42.46	22.404	
7,000.0	6,816.0	6,836.5	6,836.0	28.5	10.6	0.07	39.2	2,303.7	930.0	887.0	43.04	21.607	
7,100.0	6,914.0	6,937.9	6,937.4	29.0	10.6	0.12	38.4	2,302.3	908.9	865.3	43.63	20.834	
7,200.0	7,012.2	7,036.9	7,036.3	29.5	10.7	0.18	37.4	2,300.7	888.5	844.2	44.23	20.086	
7,300.0	7,110.6	7,134.2	7,133.6	29.9	10.7	0.25	36.5	2,299.2	868.9	824.0	44.86	19.370	
7,400.0	7,209.1	7,231.2	7,230.6	30.4	10.7	0.33	35.3	2,297.7	850.3	804.8	45.48	18.694	
7,500.0	7,307.8	7,331.1	7,330.4	30.8	10.8	0.44	33.8	2,296.3	832.5	786.4	46.08	18.068	
7,600.0	7,406.6	7,435.7	7,435.0	31.3	10.8	0.58	32.0	2,294.3	815.2	768.6	46.61	17.490	
7,700.0	7,505.5	7,546.2	7,545.4	31.7	10.9	0.68	30.6	2,291.0	797.7	750.6	47.06	16.949	
7,800.0	7,604.6	7,660.0	7,659.1	32.1	11.0	0.67	31.0	2,285.1	778.9	731.4	47.46	16.413	
7,900.0	7,703.7	7,758.7	7,757.6	32.6	11.1	0.54	32.7	2,279.4	760.3	712.3	48.04	15.826	
8,000.0	7,803.0	7,858.8	7,857.5	33.0	11.1	0.36	35.0	2,273.4	742.5	693.9	48.61	15.275	
8,100.0	7,902.4	7,959.1	7,957.6	33.4	11.2	0.17	37.5	2,267.1	725.2	676.0	49.16	14.750	
8,200.0	8,001.9	8,058.1	8,056.3	33.8	11.3	-0.03	39.9	2,260.8	708.7	658.9	49.74	14.248	
8,300.0	8,101.4	8,159.2	8,157.2	34.2	11.4	-0.24	42.2	2,254.2	692.9	642.6	50.27	13.782	
8,400.0	8,201.1	8,258.6	8,256.4	34.6	11.5	-0.44	44.4	2,247.4	677.6	626.8	50.83	13.332	
8,500.0	8,300.8	8,362.5	8,359.9	34.9	11.7	-0.68	46.9	2,240.1	663.0	611.7	51.30	12.924	
8,600.0	8,400.5	8,466.0	8,463.1	35.3	11.8	-1.00	50.1	2,231.8	648.4	596.7	51.77	12.525	
8,700.0	8,500.4	8,564.8	8,561.5	35.7	12.0	-1.36	53.8	2,223.6	634.4	582.1	52.31	12.128	
8,800.0	8,600.2	8,671.8	8,667.9	36.0	12.2	-1.78	57.7	2,213.9	620.6	567.9	52.68	11.779	
8,900.0	8,700.2	8,768.4	8,764.1	36.3	12.4	-2.17	61.3	2,204.9	607.3	554.1	53.24	11.407	
9,000.0	8,800.1	8,867.7	8,862.9	36.6	12.6	-2.55	64.6	2,195.8	595.1	541.4	53.72	11.078	
9,100.0	8,900.1	8,972.7	8,967.4	36.9	12.8	-2.90	67.4	2,185.9	583.5	529.4	54.07	10.791	
9,200.0	9,000.1	9,081.5	9,075.5	37.2	13.0	-3.22	69.8	2,173.8	571.0	516.7	54.30	10.517	
9,300.0	9,100.1	9,184.1	9,177.3	37.4	13.3	-3.53	71.9	2,161.4	558.5	503.9	54.59	10.230	
9,324.5	9,124.6	9,209.0	9,202.0	37.4	13.3	85.39	72.3	2,158.3	555.4	500.8	54.63	10.167	
9,400.0	9,200.1	9,283.9	9,276.3	37.4	13.5	85.15	73.9	2,149.0	546.2	491.5	54.73	9.980	
9,500.0	9,300.1	9,381.6	9,373.2	37.4	13.8	84.72	76.9	2,136.8	534.1	479.2	54.90	9.728	
9,600.0	9,400.1	9,481.9	9,472.7	37.4	14.0	84.05	81.8	2,124.3	522.1	467.1	55.00	9.493	
9,700.0	9,500.1	9,581.9	9,571.6	37.5	14.3	83.28	87.3	2,111.5	509.9	454.8	55.10	9.255	
9,800.0	9,600.1	9,674.4	9,663.2	37.5	14.6	82.46	93.1	2,100.0	498.4	443.0	55.37	9.000	
9,900.0	9,700.1	9,767.7	9,755.7	37.5	14.9	81.59	99.2	2,089.7	488.3	432.7	55.61	8.781	
10,000.0	9,800.1	9,861.9	9,849.4	37.5	15.1	80.82	104.3	2,080.4	479.4	423.5	55.82	8.587	
10,100.0	9,900.1	9,956.0	9,943.1	37.6	15.4	80.33	107.1	2,072.6	471.6	415.6	56.06	8.413	
10,200.0	10,000.1	10,053.7	10,040.5	37.6	15.7	79.95	109.0	2,065.5	464.8	408.6	56.22	8.267	
10,300.0	10,100.1	10,148.8	10,135.4	37.6	15.9	79.62	110.5	2,059.2	458.6	402.1	56.45	8.124	
10,400.0	10,200.1	10,242.0	10,228.5	37.6	16.2	79.34	111.9	2,054.2	453.6	396.9	56.71	7.999	
10,500.0	10,300.1	10,336.7	10,323.1	37.6	16.4	79.11	113.1	2,050.6	450.1	393.1	56.93	7.905	
10,600.0	10,400.1	10,435.9	10,422.2	37.7	16.6	78.92	114.0	2,047.5	447.2	390.1	57.07	7.836	
10,700.0	10,500.1	10,534.5	10,520.8	37.7	16.9	78.69	115.2	2,044.5	444.5	387.3	57.21	7.770	
10,800.0	10,600.1	10,632.3	10,618.6	37.7	17.1	78.48	116.3	2,042.0	442.2	384.8	57.36	7.708	
10,900.0	10,700.1	10,727.4	10,713.6	37.7	17.3	78.39	116.8	2,040.4	440.7	383.1	57.58	7.653	
11,000.0	10,800.1	10,825.9	10,812.1	37.7	17.5	78.37	116.7	2,039.7	439.9	382.2	57.73	7.620	
11,100.0	10,900.1	10,925.7	10,911.9	37.8	17.6	78.39	116.5	2,039.2	439.3	381.5	57.86	7.593	
11,200.0	11,000.1	11,025.4	11,011.6	37.8	17.7	78.44	116.0	2,038.7	438.8	380.8	57.98	7.568	
11,300.0	11,100.1	11,124.5	11,110.7	37.8	17.8	78.63	114.5	2,038.6	438.4	380.3	58.11	7.544	
11,400.0	11,200.1	11,224.9	11,210.9	37.8	17.7	79.34	109.2	2,039.6	438.3	380.1	58.23	7.528	
11,461.5	11,261.5	11,288.5	11,274.2	37.8	17.7	80.21	102.5	2,040.4	438.0	379.7	58.32	7.510	
11,475.0	11,275.1	11,302.4	11,288.0	37.8	17.7	-99.21	100.7	2,040.6	437.9	379.8	58.12	7.535	
11,500.0	11,300.0	11,329.9	11,315.2	37.9	17.6	-98.88	96.7	2,041.0	437.9	379.8	58.11	7.535	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,507.6	11,307.6	11,338.3	11,323.4	37.9	17.6	-98.80	95.3	2,041.1	437.9	379.8	58.11	7.535	
11,525.0	11,324.9	11,357.9	11,342.7	37.9	17.6	-98.64	91.9	2,041.3	437.9	379.8	58.09	7.538	
11,550.0	11,349.6	11,387.1	11,371.3	37.9	17.6	-98.50	86.3	2,041.5	437.9	379.8	58.04	7.545	
11,575.0	11,374.0	11,417.7	11,401.2	37.9	17.6	-98.49	79.6	2,041.5	437.8	379.9	57.95	7.555	
11,600.0	11,398.1	11,449.3	11,431.9	37.9	17.6	-98.57	71.7	2,041.2	437.6	379.7	57.84	7.565	
11,625.0	11,421.9	11,476.2	11,457.7	37.9	17.6	-98.74	64.3	2,040.8	437.3	379.5	57.81	7.565	
11,650.0	11,445.2	11,504.0	11,484.1	37.9	17.6	-98.98	55.8	2,040.3	437.1	379.3	57.75	7.568	
11,675.0	11,468.0	11,532.7	11,511.1	37.9	17.6	-99.28	45.9	2,039.8	436.9	379.2	57.67	7.575	
11,700.0	11,490.3	11,561.4	11,537.6	37.9	17.6	-99.62	34.9	2,039.3	436.7	379.1	57.60	7.581	
11,725.0	11,511.9	11,589.3	11,562.9	37.9	17.6	-99.99	23.2	2,038.7	436.5	379.0	57.53	7.587	
11,747.6	11,530.9	11,613.5	11,584.6	37.9	17.6	-100.37	12.5	2,038.2	436.4	379.0	57.47	7.594 CC	
11,750.0	11,532.8	11,616.0	11,586.8	37.9	17.6	-100.41	11.4	2,038.2	436.4	379.0	57.46	7.595	
11,775.0	11,553.0	11,642.2	11,610.1	37.9	17.6	-100.92	-0.8	2,037.6	436.5	379.1	57.39	7.607	
11,800.0	11,572.4	11,666.9	11,631.5	37.9	17.6	-101.42	-12.9	2,037.2	436.9	379.5	57.32	7.621	
11,825.0	11,590.9	11,693.2	11,653.9	37.9	17.6	-101.96	-26.8	2,037.0	437.5	380.3	57.23	7.645	
11,850.0	11,608.6	11,722.5	11,678.3	37.9	17.6	-102.64	-42.9	2,036.7	438.2	381.2	57.09	7.677	
11,875.0	11,625.3	11,751.3	11,701.9	37.9	17.6	-103.39	-59.5	2,036.3	439.1	382.1	56.93	7.712	
11,900.0	11,641.0	11,778.6	11,723.5	37.9	17.6	-104.09	-76.1	2,035.9	440.0	383.3	56.79	7.748	
11,925.0	11,655.6	11,801.6	11,740.9	37.9	17.6	-104.60	-91.2	2,035.9	441.4	384.7	56.71	7.784	
11,950.0	11,669.2	11,823.9	11,756.8	37.9	17.7	-105.00	-106.8	2,036.3	443.2	386.6	56.62	7.828	
11,975.0	11,681.6	11,846.8	11,772.4	37.9	17.7	-105.34	-123.6	2,037.2	445.6	389.1	56.53	7.882	
12,000.0	11,692.9	11,871.1	11,787.9	37.9	17.7	-105.65	-142.2	2,038.6	448.4	391.9	56.44	7.944	
12,025.0	11,703.0	11,894.1	11,801.6	37.9	17.7	-105.85	-160.6	2,040.3	451.6	395.2	56.35	8.013	
12,050.0	11,712.0	11,923.6	11,817.7	38.0	17.7	-106.12	-185.2	2,043.0	455.1	398.9	56.28	8.087	
12,075.0	11,719.6	11,959.6	11,835.0	38.0	17.7	-106.42	-216.6	2,046.4	458.6	402.4	56.25	8.153	
12,100.0	11,726.0	12,019.7	11,856.8	38.0	17.8	-106.80	-272.3	2,050.6	460.7	404.4	56.33	8.178	
12,125.0	11,731.2	12,065.2	11,869.1	38.0	17.8	-106.94	-316.1	2,052.4	461.8	405.5	56.38	8.192	
12,150.0	11,735.0	12,096.8	11,875.5	38.0	17.9	-106.96	-347.0	2,053.6	463.0	406.5	56.42	8.205	
12,175.0	11,737.6	12,124.9	11,879.5	38.0	17.9	-106.91	-374.8	2,054.9	464.2	407.7	56.48	8.218	
12,200.0	11,738.9	12,147.4	11,881.6	38.1	18.0	-106.80	-397.2	2,056.3	465.8	409.2	56.53	8.239	
12,211.5	11,739.0	12,158.4	11,882.3	38.1	18.0	-106.73	-408.1	2,057.1	466.7	410.1	56.55	8.252	
12,300.0	11,739.0	12,250.8	11,884.8	38.2	18.1	-106.78	-500.1	2,064.6	473.7	416.9	56.84	8.335	
12,400.0	11,739.0	12,359.3	11,883.6	38.3	18.4	-106.38	-608.3	2,073.1	480.3	423.0	57.29	8.384	
12,500.0	11,739.0	12,454.9	11,881.5	38.4	18.6	-105.93	-703.6	2,080.1	486.2	428.4	57.74	8.420	
12,600.0	11,739.0	12,544.0	11,879.2	38.5	18.8	-105.42	-792.3	2,088.5	493.9	435.7	58.21	8.485	
12,700.0	11,739.0	12,656.4	11,876.9	38.7	19.2	-104.89	-904.2	2,098.2	501.0	442.2	58.81	8.519	
12,800.0	11,739.0	12,774.6	11,878.0	38.8	19.6	-104.84	-1,022.2	2,104.8	506.1	446.7	59.38	8.523	
12,900.0	11,739.0	12,894.6	11,878.1	39.0	20.1	-104.86	-1,142.2	2,105.5	506.0	446.1	59.92	8.444	
12,962.7	11,739.0	12,949.8	11,877.3	39.2	20.3	-104.77	-1,197.5	2,105.4	505.3	445.0	60.30	8.379	
13,000.0	11,739.0	12,979.9	11,876.7	39.2	20.4	-104.70	-1,227.5	2,105.9	505.6	445.0	60.53	8.352	
13,100.0	11,739.0	13,080.9	11,875.1	39.4	20.8	-104.46	-1,328.4	2,109.1	507.5	446.4	61.16	8.298	
13,200.0	11,739.0	13,205.7	11,875.1	39.7	21.4	-104.49	-1,453.3	2,108.6	506.6	444.8	61.78	8.199	
13,300.0	11,739.0	13,303.0	11,874.1	39.9	21.8	-104.47	-1,550.5	2,106.2	503.3	440.9	62.44	8.061	
13,400.0	11,739.0	13,398.0	11,872.4	40.2	22.3	-104.34	-1,645.4	2,104.8	500.8	437.7	63.14	7.932	
13,500.0	11,739.0	13,502.6	11,872.4	40.4	22.8	-104.42	-1,750.1	2,102.8	498.3	434.5	63.83	7.807	
13,600.0	11,739.0	13,606.8	11,872.9	40.7	23.3	-104.60	-1,854.1	2,099.1	494.4	429.9	64.54	7.661	
13,700.0	11,739.0	13,702.8	11,873.1	41.0	23.7	-104.72	-1,950.1	2,096.4	491.0	425.7	65.30	7.520	
13,800.0	11,739.0	13,801.4	11,873.5	41.3	24.2	-104.86	-2,048.7	2,093.8	488.0	421.9	66.08	7.385	
13,900.0	11,739.0	13,894.9	11,874.1	41.6	24.7	-105.01	-2,142.2	2,091.9	485.6	418.7	66.89	7.260	
14,000.0	11,739.0	14,000.2	11,874.3	41.9	25.3	-105.06	-2,247.5	2,091.3	484.4	416.7	67.73	7.153	
14,100.0	11,739.0	14,097.1	11,873.0	42.3	25.9	-105.01	-2,344.3	2,088.9	481.2	412.6	68.62	7.013	
14,164.8	11,739.0	14,152.4	11,872.1	42.5	26.2	-104.92	-2,399.6	2,089.0	480.6	411.4	69.20	6.945	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.0	11,739.0	14,184.3	11,871.6	42.6	26.4	-104.85	-2,431.5	2,089.5	480.7	411.2	69.52	6.915	
14,300.0	11,739.0	14,278.4	11,870.0	43.0	26.9	-104.61	-2,525.6	2,092.0	482.2	411.8	70.43	6.847	
14,400.0	11,739.0	14,375.7	11,868.6	43.4	27.5	-104.38	-2,622.8	2,095.2	484.4	413.0	71.36	6.788	
14,500.0	11,739.0	14,482.1	11,867.3	43.7	28.1	-104.15	-2,729.1	2,098.6	486.6	414.3	72.34	6.727	
14,600.0	11,739.0	14,589.4	11,865.2	44.1	28.8	-103.88	-2,836.4	2,100.1	486.9	413.6	73.32	6.640	
14,700.0	11,739.0	14,687.8	11,864.4	44.5	29.4	-103.79	-2,934.8	2,100.7	486.6	412.3	74.30	6.549	
14,800.0	11,739.0	14,790.6	11,864.2	44.9	30.0	-103.77	-3,037.6	2,101.2	486.4	411.1	75.30	6.459	
14,900.0	11,739.0	14,892.2	11,864.0	45.3	30.6	-103.77	-3,139.2	2,101.1	485.7	409.3	76.32	6.364	
15,000.0	11,739.0	14,996.7	11,863.9	45.8	31.3	-103.81	-3,243.7	2,100.2	484.2	406.9	77.34	6.261	
15,100.0	11,739.0	15,093.6	11,863.4	46.2	31.9	-103.79	-3,340.6	2,099.2	482.4	404.0	78.39	6.154	
15,137.6	11,739.0	15,125.4	11,863.3	46.4	32.1	-103.78	-3,372.4	2,099.2	482.2	403.4	78.79	6.120	
15,200.0	11,739.0	15,180.8	11,863.4	46.6	32.4	-103.78	-3,427.8	2,100.1	482.7	403.3	79.44	6.077	
15,300.0	11,739.0	15,284.9	11,863.7	47.1	33.1	-103.79	-3,531.8	2,101.6	483.6	403.0	80.53	6.005	
15,400.0	11,739.0	15,384.0	11,863.5	47.6	33.8	-103.74	-3,631.0	2,103.3	484.5	402.9	81.62	5.937	
15,500.0	11,739.0	15,499.1	11,864.2	48.0	34.5	-103.84	-3,746.0	2,103.3	484.1	401.4	82.73	5.852	
15,600.0	11,739.0	15,597.9	11,865.2	48.5	35.2	-104.05	-3,844.8	2,100.5	481.0	397.1	83.85	5.736	
15,691.2	11,739.0	15,679.1	11,866.5	48.9	35.7	-104.24	-3,926.0	2,100.0	480.2	395.3	84.89	5.657	
15,700.0	11,739.0	15,687.3	11,866.6	49.0	35.8	-104.24	-3,934.2	2,100.1	480.2	395.2	84.98	5.651	
15,800.0	11,739.0	15,777.0	11,866.6	49.5	36.4	-104.22	-4,023.8	2,101.5	481.2	395.1	86.10	5.590	
15,900.0	11,739.0	15,878.7	11,867.0	50.0	37.1	-104.17	-4,125.5	2,105.3	484.3	397.0	87.27	5.549	
16,000.0	11,739.0	15,992.9	11,868.5	50.5	37.8	-104.36	-4,239.7	2,105.8	484.4	395.9	88.47	5.475	
16,100.0	11,739.0	16,106.3	11,869.8	51.0	38.6	-104.60	-4,353.0	2,103.5	482.1	392.5	89.63	5.379	
16,200.0	11,739.0	16,195.7	11,871.5	51.5	39.2	-104.88	-4,442.3	2,101.1	479.4	388.5	90.84	5.277	
16,260.4	11,739.0	16,248.6	11,872.0	51.8	39.6	-104.95	-4,495.2	2,100.9	478.9	387.3	91.56	5.230	
16,300.0	11,739.0	16,283.1	11,872.3	52.0	39.8	-104.99	-4,529.8	2,101.2	479.1	387.1	92.02	5.206	
16,400.0	11,739.0	16,385.4	11,872.9	52.5	40.5	-105.03	-4,632.0	2,102.8	480.1	386.9	93.23	5.150	
16,500.0	11,739.0	16,480.8	11,873.1	53.0	41.2	-105.02	-4,727.4	2,104.4	481.1	386.7	94.43	5.095	
16,600.0	11,739.0	16,595.5	11,874.4	53.6	42.0	-105.19	-4,842.1	2,104.6	481.0	385.3	95.69	5.026	
16,700.0	11,739.0	16,694.7	11,875.0	54.1	42.7	-105.31	-4,941.4	2,103.4	479.3	382.4	96.92	4.945	
16,800.0	11,739.0	16,790.9	11,877.1	54.7	43.3	-105.60	-5,037.5	2,102.9	478.7	380.6	98.17	4.877	
16,900.0	11,739.0	16,902.2	11,877.0	55.2	44.1	-105.65	-5,148.8	2,101.5	476.9	377.5	99.41	4.797	
17,000.0	11,739.0	17,006.4	11,875.3	55.8	44.8	-105.57	-5,252.9	2,098.8	473.3	372.7	100.64	4.703	
17,100.0	11,739.0	17,100.3	11,873.8	56.3	45.5	-105.49	-5,346.8	2,096.4	469.8	367.9	101.91	4.610	
17,200.0	11,739.0	17,189.9	11,873.9	56.9	46.1	-105.54	-5,436.4	2,095.6	468.4	365.2	103.18	4.540	
17,215.2	11,739.0	17,203.6	11,874.0	57.0	46.2	-105.56	-5,450.1	2,095.6	468.4	365.0	103.37	4.531	
17,300.0	11,739.0	17,292.3	11,874.8	57.5	46.9	-105.66	-5,538.8	2,096.1	468.5	364.0	104.46	4.485	
17,400.0	11,739.0	17,393.2	11,875.5	58.1	47.6	-105.79	-5,639.6	2,095.1	467.0	361.3	105.75	4.417	
17,486.2	11,739.0	17,474.6	11,875.7	58.6	48.1	-105.83	-5,721.1	2,095.1	466.6	359.8	106.85	4.367	
17,500.0	11,739.0	17,487.7	11,875.6	58.6	48.2	-105.82	-5,734.2	2,095.2	466.6	359.6	107.02	4.360	
17,600.0	11,739.0	17,579.7	11,875.6	59.2	48.9	-105.79	-5,826.2	2,096.7	467.5	359.2	108.28	4.318	
17,700.0	11,739.0	17,670.2	11,876.2	59.8	49.5	-105.78	-5,916.5	2,099.8	470.4	360.9	109.50	4.296	
17,800.0	11,739.0	17,759.9	11,877.6	60.4	50.2	-105.81	-6,006.2	2,104.6	475.3	364.7	110.68	4.295	
17,900.0	11,739.0	17,854.0	11,879.8	61.0	50.9	-105.86	-6,099.9	2,111.3	482.2	370.3	111.90	4.309	
18,000.0	11,739.0	17,950.8	11,880.1	61.6	51.6	-105.65	-6,196.5	2,119.4	489.7	376.5	113.16	4.327	
18,100.0	11,739.0	18,043.3	11,878.7	62.2	52.2	-105.23	-6,288.5	2,128.4	498.1	383.7	114.33	4.356	
18,200.0	11,739.0	18,142.9	11,876.1	62.8	52.9	-104.63	-6,387.4	2,139.7	507.8	392.1	115.62	4.391	
18,300.0	11,739.0	18,246.2	11,870.1	63.4	53.7	-103.68	-6,489.9	2,151.3	516.6	399.6	116.97	4.417	
18,400.0	11,739.0	18,345.8	11,864.7	64.0	54.4	-102.84	-6,588.8	2,162.0	525.2	407.0	118.25	4.442	
18,500.0	11,739.0	18,471.9	11,859.7	64.6	55.3	-102.08	-6,714.2	2,172.6	532.1	412.2	119.91	4.437	
18,600.0	11,739.0	18,625.0	11,857.5	65.3	56.5	-101.87	-6,867.3	2,172.5	531.2	410.0	121.23	4.382	
18,700.0	11,739.0	18,738.5	11,857.8	65.9	57.3	-102.12	-6,980.4	2,163.8	523.1	400.7	122.41	4.273	
18,800.0	11,739.0	18,846.7	11,858.1	66.5	58.1	-102.41	-7,088.2	2,153.6	513.3	389.7	123.60	4.153	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 62-GYRO-NS, 1310-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)			
18,900.0	11,739.0	18,937.3	11,858.4	67.1	58.7	-102.67	-7,178.3	2,145.3	503.7	378.6	125.12	4.026	
19,000.0	11,739.0	19,026.0	11,858.7	67.8	59.4	-102.88	-7,266.8	2,138.6	495.9	369.2	126.63	3.916	
19,100.0	11,739.0	19,121.0	11,859.0	68.4	60.1	-103.07	-7,361.7	2,133.4	489.9	361.9	128.05	3.826	
19,200.0	11,739.0	19,214.0	11,859.2	69.0	60.7	-103.20	-7,454.6	2,129.8	485.5	356.0	129.47	3.750	
19,300.0	11,739.0	19,310.0	11,859.4	69.7	61.4	-103.33	-7,550.6	2,126.8	481.9	351.0	130.86	3.682	
19,400.0	11,739.0	19,407.5	11,859.8	70.3	62.1	-103.46	-7,648.0	2,124.2	478.8	346.6	132.24	3.621	
19,500.0	11,739.0	19,501.9	11,860.1	70.9	62.8	-103.56	-7,742.5	2,122.7	476.7	343.1	133.63	3.567	
19,600.0	11,739.0	19,602.9	11,860.5	71.6	63.6	-103.66	-7,843.4	2,121.4	474.9	339.9	135.01	3.517	
19,700.0	11,739.0	19,697.8	11,860.8	72.2	64.3	-103.73	-7,938.3	2,120.7	473.6	337.2	136.39	3.473	
19,800.0	11,739.0	19,795.8	11,861.0	72.9	65.0	-103.77	-8,036.3	2,120.7	473.1	335.3	137.77	3.434	
19,900.0	11,739.0	19,894.5	11,861.2	73.5	65.7	-103.81	-8,135.0	2,121.2	472.9	333.8	139.14	3.399	
19,942.1	11,739.0	19,936.4	11,861.4	73.8	66.0	-103.82	-8,176.9	2,121.4	472.9	333.2	139.73	3.384	
20,000.0	11,739.0	19,992.7	11,861.5	74.2	66.4	-103.84	-8,233.2	2,121.8	473.0	332.4	140.52	3.366	
20,100.0	11,739.0	20,089.8	11,861.8	74.8	67.1	-103.84	-8,330.3	2,123.1	473.7	331.8	141.90	3.339	
20,200.0	11,739.0	20,190.6	11,862.1	75.5	67.9	-103.86	-8,431.1	2,124.5	474.5	331.2	143.29	3.311	
20,300.0	11,739.0	20,289.9	11,862.3	76.2	68.6	-103.87	-8,530.4	2,126.0	475.4	330.7	144.68	3.286	
20,400.0	11,739.0	20,394.4	11,862.7	76.8	69.4	-103.89	-8,634.8	2,127.3	476.0	329.9	146.09	3.258	
20,500.0	11,739.0	20,495.1	11,862.9	77.5	70.1	-103.93	-8,735.6	2,127.4	475.6	328.1	147.49	3.225	
20,522.8	11,739.0	20,517.1	11,863.0	77.6	70.3	-103.94	-8,757.5	2,127.5	475.6	327.8	147.80	3.218	
20,600.0	11,739.0	20,593.1	11,863.3	78.2	70.9	-103.97	-8,833.6	2,128.1	475.7	326.8	148.88	3.195	
20,700.0	11,739.0	20,692.2	11,863.7	78.8	71.6	-104.01	-8,932.6	2,129.0	476.1	325.8	150.28	3.168	
20,800.0	11,739.0	20,787.8	11,864.1	79.5	72.3	-104.05	-9,028.2	2,130.3	476.9	325.2	151.66	3.144	
20,900.0	11,739.0	20,891.6	11,864.3	80.2	73.1	-104.03	-9,132.0	2,132.2	478.1	325.0	153.09	3.123	
21,000.0	11,739.0	20,998.9	11,864.1	80.8	73.9	-104.01	-9,239.4	2,132.7	477.9	323.3	154.50	3.093	
21,070.3	11,739.0	21,064.5	11,864.5	81.3	74.3	-104.07	-9,305.0	2,132.7	477.5	322.0	155.49	3.071	
21,100.0	11,739.0	21,093.0	11,864.7	81.5	74.6	-104.10	-9,333.4	2,132.9	477.6	321.7	155.91	3.063	
21,200.0	11,739.0	21,191.7	11,865.3	82.2	75.3	-104.16	-9,432.1	2,133.9	478.0	320.7	157.32	3.039	
21,300.0	11,739.0	21,292.2	11,865.7	82.9	76.0	-104.18	-9,532.6	2,135.1	478.7	320.0	158.73	3.016	
21,400.0	11,739.0	21,405.5	11,865.3	83.5	76.9	-104.19	-9,645.9	2,134.2	477.2	317.0	160.15	2.979	
21,500.0	11,739.0	21,502.9	11,865.4	84.2	77.6	-104.25	-9,743.3	2,133.0	475.3	313.7	161.58	2.942	
21,600.0	11,739.0	21,600.3	11,865.2	84.9	78.3	-104.29	-9,840.7	2,131.7	473.3	310.3	163.00	2.904	
21,645.7	11,739.0	21,640.1	11,865.2	85.2	78.6	-104.29	-9,880.4	2,131.7	473.0	309.4	163.64	2.891	
21,697.5	11,739.0	21,689.3	11,865.2	85.6	79.0	-104.29	-9,929.6	2,132.2	473.3	308.9	164.37	2.879	
21,700.0	11,739.0	21,691.8	11,865.2	85.6	79.0	-104.29	-9,932.2	2,132.2	473.3	308.9	164.40	2.879	
21,747.5	11,739.0	21,739.7	11,865.1	85.9	79.4	-104.27	-9,980.1	2,132.8	473.5	308.5	165.08	2.869 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1311-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)			
7,100.0	6,914.0	6,924.7	6,921.1	29.0	12.4	-4.85	123.7	2,378.3	989.7	945.2	44.45	22.263	
7,200.0	7,012.2	7,023.8	7,020.1	29.5	12.4	-4.92	123.4	2,378.4	971.0	925.9	45.08	21.538	
7,300.0	7,110.6	7,123.3	7,119.7	29.9	12.4	-4.98	123.0	2,378.5	953.1	907.4	45.69	20.859	
7,400.0	7,209.1	7,222.8	7,219.1	30.4	12.4	-5.04	122.5	2,378.4	935.9	889.6	46.29	20.219	
7,500.0	7,307.8	7,321.9	7,318.2	30.8	12.4	-5.08	121.9	2,378.3	919.5	872.6	46.88	19.615	
7,600.0	7,406.6	7,423.1	7,419.5	31.3	12.3	-5.12	121.2	2,378.1	903.8	856.4	47.44	19.054	
7,700.0	7,505.5	7,522.6	7,518.9	31.7	12.3	-5.16	120.6	2,377.6	888.8	840.8	48.00	18.517	
7,800.0	7,604.6	7,624.2	7,620.6	32.1	12.2	-5.19	119.9	2,377.0	874.5	826.0	48.53	18.020	
7,900.0	7,703.7	7,723.2	7,719.5	32.6	12.2	-5.23	119.3	2,376.3	860.9	811.8	49.08	17.541	
8,000.0	7,803.0	7,823.1	7,819.4	33.0	12.2	-5.26	118.6	2,375.5	848.1	798.5	49.61	17.095	
8,100.0	7,902.4	7,922.2	7,918.5	33.4	12.1	-5.29	118.0	2,374.6	836.2	786.0	50.15	16.674	
8,200.0	8,001.9	8,022.7	8,019.0	33.8	12.1	-5.31	117.4	2,373.7	825.0	774.4	50.66	16.285	
8,300.0	8,101.4	8,122.5	8,118.8	34.2	12.1	-5.33	116.7	2,372.8	814.7	763.5	51.18	15.919	
8,400.0	8,201.1	8,222.7	8,219.0	34.6	12.1	-5.34	116.0	2,371.7	805.1	753.4	51.67	15.580	
8,500.0	8,300.8	8,323.1	8,319.4	34.9	12.1	-5.35	115.3	2,370.6	796.3	744.2	52.16	15.266	
8,600.0	8,400.5	8,423.4	8,419.7	35.3	12.0	-5.34	114.5	2,369.4	788.3	735.7	52.64	14.975	
8,700.0	8,500.4	8,523.3	8,519.5	35.7	12.0	-5.32	113.6	2,368.1	781.1	728.0	53.11	14.707	
8,800.0	8,600.2	8,621.9	8,618.2	36.0	12.0	-5.30	112.8	2,366.9	774.8	721.2	53.59	14.459	
8,900.0	8,700.2	8,728.4	8,724.7	36.3	12.0	-5.28	112.0	2,365.5	769.3	715.4	53.94	14.262	
9,000.0	8,800.1	8,833.2	8,829.4	36.6	12.1	-5.23	110.7	2,363.0	763.6	709.3	54.30	14.062	
9,100.0	8,900.1	8,928.8	8,925.0	36.9	12.1	-5.19	109.7	2,360.7	758.7	703.9	54.75	13.857	
9,200.0	9,000.1	9,031.1	9,027.2	37.2	12.2	-5.33	111.3	2,358.3	755.0	699.9	55.08	13.707	
9,300.0	9,100.1	9,138.3	9,134.3	37.4	12.3	-5.60	114.4	2,354.8	751.4	696.2	55.26	13.598	
9,324.5	9,124.6	9,163.5	9,159.5	37.4	12.3	83.34	115.1	2,353.9	750.6	695.3	55.28	13.577	
9,400.0	9,200.1	9,240.0	9,235.9	37.4	12.3	83.20	116.5	2,350.9	747.8	692.5	55.29	13.525	
9,500.0	9,300.1	9,322.0	9,317.8	37.4	12.4	83.08	117.8	2,348.1	744.8	689.2	55.57	13.402	
9,600.0	9,400.1	9,416.0	9,411.8	37.4	12.5	82.91	119.9	2,347.0	743.9	688.2	55.71	13.353	
9,604.4	9,404.5	9,416.0	9,411.8	37.4	12.5	82.91	119.9	2,347.0	743.9	688.1	55.76	13.340 CC, ES	
9,700.0	9,500.1	9,486.0	9,481.8	37.5	12.6	82.73	122.4	2,348.2	745.9	689.8	56.10	13.296 SF	
9,800.0	9,600.1	9,578.1	9,573.7	37.5	12.7	82.42	126.9	2,351.8	750.3	694.1	56.22	13.347	
9,900.0	9,700.1	9,683.4	9,678.8	37.5	12.9	82.07	132.2	2,355.8	754.8	698.6	56.20	13.430	
10,000.0	9,800.1	9,784.5	9,779.7	37.5	13.0	81.76	136.7	2,359.1	758.6	702.4	56.23	13.492	
10,100.0	9,900.1	9,889.4	9,884.5	37.6	13.2	81.51	140.5	2,362.2	762.1	705.9	56.22	13.556	
10,200.0	10,000.1	9,994.0	9,989.1	37.6	13.3	81.29	143.9	2,364.7	764.9	708.7	56.22	13.605	
10,300.0	10,100.1	10,090.5	10,085.5	37.6	13.4	81.26	144.7	2,367.3	767.7	711.4	56.33	13.629	
10,400.0	10,200.1	10,192.9	10,187.7	37.6	13.5	81.59	140.9	2,371.2	770.9	714.5	56.43	13.663	
10,500.0	10,300.1	10,307.3	10,302.0	37.6	13.5	82.02	135.3	2,373.7	772.3	716.0	56.36	13.704	
10,600.0	10,400.1	10,409.7	10,404.3	37.7	13.4	82.38	130.6	2,375.1	773.1	716.7	56.41	13.706	
10,700.0	10,500.1	10,512.6	10,507.0	37.7	13.4	82.70	126.4	2,376.0	773.5	717.0	56.45	13.703	
10,800.0	10,600.1	10,616.8	10,611.2	37.7	13.4	82.98	122.7	2,376.5	773.5	717.0	56.47	13.698	
10,900.0	10,700.1	10,718.3	10,712.6	37.7	13.4	83.20	119.6	2,376.4	773.0	716.5	56.51	13.679	
11,000.0	10,800.1	10,819.5	10,813.8	37.7	13.4	83.40	116.9	2,376.1	772.5	715.9	56.56	13.658	
11,100.0	10,900.1	10,915.9	10,910.2	37.8	13.4	83.53	115.1	2,375.9	772.0	715.4	56.65	13.627	
11,137.2	10,937.2	10,951.7	10,945.9	37.8	13.4	83.56	114.6	2,375.9	772.0	715.3	56.69	13.618	
11,200.0	11,000.1	11,012.1	11,006.4	37.8	13.4	83.60	114.2	2,376.1	772.1	715.3	56.75	13.605	
11,300.0	11,100.1	11,111.6	11,105.9	37.8	13.5	83.62	113.9	2,376.5	772.4	715.6	56.82	13.594	
11,400.0	11,200.1	11,213.8	11,208.1	37.8	13.5	83.66	113.5	2,376.7	772.7	715.8	56.86	13.589	
11,461.5	11,261.5	11,275.7	11,270.0	37.8	13.5	83.69	113.1	2,376.8	772.7	715.8	56.88	13.584	
11,475.0	11,275.1	11,289.3	11,283.6	37.8	13.5	-95.94	113.0	2,376.8	772.7	716.0	56.76	13.614	
11,500.0	11,300.0	11,314.3	11,308.6	37.9	13.5	-96.01	112.8	2,376.9	772.9	716.1	56.76	13.616	
11,525.0	11,324.9	11,339.3	11,333.5	37.9	13.5	-96.16	112.6	2,376.9	773.1	716.4	56.76	13.621	
11,550.0	11,349.6	11,364.0	11,358.3	37.9	13.5	-96.38	112.3	2,376.9	773.6	716.8	56.76	13.630	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1311-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)			
11,575.0	11,374.0	11,388.6	11,382.9	37.9	13.5	-96.67	112.1	2,376.9	774.2	717.4	56.74	13.643	
11,600.0	11,398.1	11,412.9	11,407.2	37.9	13.6	-97.03	111.9	2,377.0	775.0	718.3	56.73	13.662	
11,625.0	11,421.9	11,436.9	11,431.2	37.9	13.6	-97.44	111.6	2,377.0	776.0	719.3	56.70	13.686	
11,650.0	11,445.2	11,460.5	11,454.7	37.9	13.6	-97.89	111.4	2,377.0	777.3	720.6	56.67	13.716	
11,675.0	11,468.0	11,483.5	11,477.8	37.9	13.6	-98.38	111.1	2,377.0	778.8	722.2	56.62	13.754	
11,700.0	11,490.3	11,506.1	11,500.3	37.9	13.6	-98.88	110.9	2,377.0	780.7	724.1	56.57	13.800	
11,725.0	11,511.9	11,528.0	11,522.2	37.9	13.6	-99.40	110.6	2,377.0	782.9	726.4	56.50	13.856	
11,750.0	11,532.8	11,549.2	11,543.5	37.9	13.6	-99.91	110.4	2,377.0	785.6	729.2	56.42	13.923	
11,775.0	11,553.0	11,569.7	11,564.0	37.9	13.6	-100.40	110.1	2,377.0	788.7	732.4	56.33	14.002	
11,800.0	11,572.4	11,589.3	11,583.6	37.9	13.6	-100.84	109.9	2,377.0	792.3	736.1	56.22	14.094	
11,825.0	11,590.9	11,608.1	11,602.3	37.9	13.6	-101.23	109.6	2,377.0	796.5	740.4	56.09	14.200	
11,850.0	11,608.6	11,625.9	11,620.2	37.9	13.6	-101.56	109.4	2,377.0	801.2	745.3	55.94	14.322	
11,875.0	11,625.3	11,642.9	11,637.1	37.9	13.6	-101.80	109.1	2,377.0	806.6	750.8	55.78	14.461	
11,900.0	11,641.0	11,658.8	11,653.1	37.9	13.6	-101.95	108.9	2,377.0	812.6	757.0	55.60	14.617	
11,925.0	11,655.6	11,673.8	11,668.1	37.9	13.6	-101.98	108.7	2,377.1	819.4	764.0	55.40	14.791	
11,950.0	11,669.2	11,687.8	11,682.0	37.9	13.6	-101.90	108.5	2,377.1	826.8	771.6	55.18	14.984	
11,975.0	11,681.6	11,700.6	11,694.9	37.9	13.6	-101.67	108.3	2,377.1	834.9	780.0	54.94	15.197	
12,000.0	11,692.9	11,712.3	11,706.6	37.9	13.7	-101.30	108.1	2,377.1	843.8	789.1	54.69	15.430	
12,025.0	11,703.0	11,722.8	11,717.1	37.9	13.7	-100.76	108.0	2,377.1	853.4	799.0	54.42	15.682	
12,050.0	11,712.0	11,732.2	11,726.4	38.0	13.7	-100.04	107.8	2,377.1	863.8	809.6	54.14	15.954	
12,075.0	11,719.6	11,740.2	11,734.5	38.0	13.7	-99.14	107.7	2,377.1	874.8	821.0	53.85	16.245	
12,100.0	11,726.0	11,747.1	11,741.3	38.0	13.7	-98.04	107.6	2,377.1	886.6	833.0	53.55	16.554	
12,125.0	11,731.2	11,752.6	11,746.9	38.0	13.7	-96.74	107.5	2,377.1	899.0	845.7	53.25	16.882	
12,150.0	11,735.0	11,756.9	11,751.1	38.0	13.7	-95.23	107.5	2,377.1	912.0	859.0	52.94	17.227	
12,175.0	11,737.6	11,759.8	11,754.1	38.0	13.7	-93.51	107.4	2,377.1	925.6	872.9	52.63	17.588	
12,200.0	11,738.9	11,761.5	11,755.7	38.1	13.7	-91.58	107.4	2,377.1	939.7	887.4	52.31	17.963	
12,211.5	11,739.0	11,761.8	11,756.0	38.1	13.7	-90.62	107.4	2,377.1	946.3	894.2	52.17	18.140	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1143-r.5 MWD+IFR1+MS, 11259-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		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,100.0	6,914.0	6,924.7	6,921.1	29.0	12.4	-4.85	123.7	2,378.3	989.7	945.4	44.21	22.383	
7,200.0	7,012.2	7,023.8	7,020.1	29.5	12.4	-4.92	123.4	2,378.4	971.0	926.1	44.84	21.653	
7,300.0	7,110.6	7,123.3	7,119.7	29.9	12.4	-4.98	123.0	2,378.5	953.1	907.6	45.45	20.969	
7,400.0	7,209.1	7,222.8	7,219.1	30.4	12.4	-5.04	122.5	2,378.4	935.9	889.8	46.05	20.325	
7,500.0	7,307.8	7,321.9	7,318.2	30.8	12.4	-5.08	121.9	2,378.3	919.5	872.9	46.64	19.716	
7,600.0	7,406.6	7,423.1	7,419.5	31.3	12.3	-5.12	121.2	2,378.1	903.8	856.6	47.20	19.150	
7,700.0	7,505.5	7,522.6	7,518.9	31.7	12.3	-5.16	120.6	2,377.6	888.8	841.1	47.76	18.610	
7,800.0	7,604.6	7,624.2	7,620.6	32.1	12.2	-5.19	119.9	2,377.0	874.5	826.2	48.29	18.110	
7,900.0	7,703.7	7,723.2	7,719.5	32.6	12.2	-5.23	119.3	2,376.3	860.9	812.1	48.84	17.627	
8,000.0	7,803.0	7,823.1	7,819.4	33.0	12.2	-5.26	118.6	2,375.5	848.1	798.7	49.37	17.178	
8,100.0	7,902.4	7,922.2	7,918.5	33.4	12.1	-5.29	118.0	2,374.6	836.2	786.3	49.91	16.754	
8,200.0	8,001.9	8,022.7	8,019.0	33.8	12.1	-5.31	117.4	2,373.7	825.0	774.6	50.42	16.362	
8,300.0	8,101.4	8,122.5	8,118.8	34.2	12.1	-5.33	116.7	2,372.8	814.7	763.7	50.94	15.994	
8,400.0	8,201.1	8,222.7	8,219.0	34.6	12.1	-5.34	116.0	2,371.7	805.1	753.7	51.44	15.653	
8,500.0	8,300.8	8,323.1	8,319.4	34.9	12.1	-5.35	115.3	2,370.6	796.3	744.4	51.92	15.337	
8,600.0	8,400.5	8,423.4	8,419.7	35.3	12.0	-5.34	114.5	2,369.4	788.3	735.9	52.40	15.044	
8,700.0	8,500.4	8,523.3	8,519.5	35.7	12.0	-5.32	113.6	2,368.1	781.1	728.3	52.87	14.773	
8,800.0	8,600.2	8,621.9	8,618.2	36.0	12.0	-5.30	112.8	2,366.9	774.8	721.5	53.35	14.524	
8,900.0	8,700.2	8,728.4	8,724.7	36.3	12.0	-5.28	112.0	2,365.5	769.3	715.6	53.70	14.326	
9,000.0	8,800.1	8,833.2	8,829.4	36.6	12.1	-5.23	110.7	2,363.0	763.6	709.5	54.06	14.124	
9,100.0	8,900.1	8,928.8	8,925.0	36.9	12.1	-5.19	109.7	2,360.7	758.7	704.2	54.51	13.918	
9,200.0	9,000.1	9,031.1	9,027.2	37.2	12.2	-5.33	111.3	2,358.3	755.0	700.1	54.84	13.767	
9,300.0	9,100.1	9,138.3	9,134.3	37.4	12.3	-5.60	114.4	2,354.8	751.4	696.4	55.02	13.657	
9,324.5	9,124.6	9,163.5	9,159.5	37.4	12.3	83.34	115.1	2,353.9	750.6	695.5	55.04	13.636	
9,400.0	9,200.1	9,240.0	9,235.9	37.4	12.3	83.20	116.5	2,350.9	747.8	692.8	55.05	13.584	
9,500.0	9,300.1	9,322.0	9,317.8	37.4	12.4	83.08	117.8	2,348.1	744.8	689.5	55.33	13.460	
9,600.0	9,400.1	9,416.0	9,411.8	37.4	12.5	82.91	119.9	2,347.0	743.9	688.4	55.47	13.411	
9,604.4	9,404.5	9,416.0	9,411.8	37.4	12.5	82.91	119.9	2,347.0	743.9	688.3	55.52	13.397 CC	
9,700.0	9,500.1	9,486.0	9,481.8	37.5	12.6	82.73	122.4	2,348.2	745.9	690.0	55.86	13.353	
9,800.0	9,600.1	9,578.1	9,573.7	37.5	12.7	82.42	126.9	2,351.8	750.3	694.4	55.98	13.404	
9,900.0	9,700.1	9,683.4	9,678.8	37.5	12.9	82.07	132.2	2,355.8	754.8	698.8	55.96	13.488	
10,000.0	9,800.1	9,784.5	9,779.7	37.5	13.0	81.76	136.7	2,359.1	758.6	702.6	55.99	13.550	
10,100.0	9,900.1	9,889.4	9,884.5	37.6	13.2	81.51	140.5	2,362.2	762.1	706.2	55.98	13.614	
10,200.0	10,000.1	9,994.0	9,989.1	37.6	13.3	81.29	143.9	2,364.7	764.9	708.9	55.98	13.663	
10,300.0	10,100.1	10,090.5	10,085.5	37.6	13.4	81.26	144.7	2,367.3	767.7	711.6	56.09	13.687	
10,400.0	10,200.1	10,192.9	10,187.7	37.6	13.5	81.59	140.9	2,371.2	770.9	714.7	56.19	13.721	
10,500.0	10,300.1	10,307.3	10,302.0	37.6	13.5	82.02	135.3	2,373.7	772.3	716.2	56.12	13.763	
10,600.0	10,400.1	10,409.7	10,404.3	37.7	13.4	82.38	130.6	2,375.1	773.1	716.9	56.17	13.764	
10,700.0	10,500.1	10,512.6	10,507.0	37.7	13.4	82.70	126.4	2,376.0	773.5	717.3	56.21	13.761	
10,800.0	10,600.1	10,616.8	10,611.2	37.7	13.4	82.98	122.7	2,376.5	773.5	717.3	56.23	13.756	
10,900.0	10,700.1	10,718.3	10,712.6	37.7	13.4	83.20	119.6	2,376.4	773.0	716.8	56.27	13.738	
11,000.0	10,800.1	10,819.5	10,813.8	37.7	13.4	83.40	116.9	2,376.1	772.5	716.1	56.32	13.716	
11,100.0	10,900.1	10,915.9	10,910.2	37.8	13.4	83.53	115.1	2,375.9	772.0	715.6	56.41	13.685	
11,137.2	10,937.2	10,951.7	10,945.9	37.8	13.4	83.56	114.6	2,375.9	772.0	715.5	56.45	13.676	
11,200.0	11,000.1	11,012.1	11,006.4	37.8	13.4	83.60	114.2	2,376.1	772.1	715.6	56.51	13.662	
11,300.0	11,100.1	11,111.6	11,105.9	37.8	13.5	83.62	113.9	2,376.5	772.4	715.9	56.58	13.652	
11,400.0	11,200.1	11,210.1	11,204.4	37.8	13.5	83.66	113.4	2,376.8	772.7	716.0	56.66	13.638	
11,461.5	11,261.5	11,259.0	11,253.2	37.8	13.6	83.87	110.7	2,377.9	773.7	716.9	56.82	13.616	
11,475.0	11,275.1	11,265.1	11,259.2	37.8	13.6	-95.67	110.1	2,378.2	774.1	717.3	56.80	13.629	
11,500.0	11,300.0	11,283.7	11,277.7	37.9	13.6	-95.46	107.9	2,379.1	775.1	718.3	56.88	13.629	
11,525.0	11,324.9	11,307.0	11,300.7	37.9	13.6	-95.23	104.5	2,380.5	776.5	719.6	56.90	13.646	
11,550.0	11,349.6	11,324.3	11,317.7	37.9	13.6	-95.00	101.4	2,381.7	778.1	721.2	56.99	13.655	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1143-r.5 MWD+IFR1+MS, 11259-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
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
11,575.0	11,374.0	11,347.6	11,340.3	37.9	13.7	-94.76	96.3	2,383.4	780.0	723.0	57.01	13.681	
11,600.0	11,398.1	11,374.0	11,365.7	37.9	13.7	-94.51	89.4	2,385.5	781.9	724.9	57.00	13.717	
11,625.0	11,421.9	11,401.7	11,392.1	37.9	13.7	-94.28	81.0	2,387.8	783.9	726.9	56.98	13.756	
11,650.0	11,445.2	11,441.1	11,429.0	37.9	13.8	-94.11	67.7	2,390.6	785.7	728.8	56.86	13.818	
11,675.0	11,468.0	11,466.6	11,452.7	37.9	13.8	-93.98	58.3	2,392.2	787.3	730.4	56.85	13.847	
11,700.0	11,490.3	11,489.2	11,473.2	37.9	13.8	-93.85	49.0	2,393.8	789.0	732.1	56.87	13.873	
11,725.0	11,511.9	11,513.2	11,494.5	37.9	13.9	-93.71	38.3	2,395.6	790.9	734.0	56.88	13.905	
11,750.0	11,532.8	11,537.8	11,515.9	37.9	13.9	-93.57	26.2	2,397.6	792.9	736.0	56.88	13.940	
11,775.0	11,553.0	11,595.0	11,563.3	37.9	14.1	-93.53	-5.6	2,401.1	794.4	737.7	56.64	14.026	
11,800.0	11,572.4	11,621.3	11,584.3	37.9	14.2	-93.46	-21.4	2,402.4	795.5	738.9	56.63	14.046	
11,825.0	11,590.9	11,647.7	11,604.8	37.9	14.2	-93.42	-37.9	2,403.6	796.7	740.1	56.63	14.069	
11,850.0	11,608.6	11,674.0	11,624.8	37.9	14.3	-93.42	-55.1	2,404.9	797.9	741.3	56.62	14.093	
11,875.0	11,625.3	11,712.1	11,652.5	37.9	14.4	-93.52	-81.1	2,406.5	798.9	742.4	56.52	14.135	
11,900.0	11,641.0	11,732.7	11,666.7	37.9	14.4	-93.52	-95.9	2,407.3	800.0	743.4	56.55	14.147	
11,925.0	11,655.6	11,750.6	11,678.7	37.9	14.5	-93.50	-109.2	2,408.2	801.2	744.6	56.59	14.159	
11,950.0	11,669.2	11,772.0	11,692.7	37.9	14.5	-93.52	-125.3	2,409.5	802.9	746.3	56.59	14.186	
11,975.0	11,681.6	11,803.1	11,712.5	37.9	14.5	-93.70	-149.3	2,411.4	804.6	748.0	56.54	14.230	
12,000.0	11,692.9	11,843.9	11,737.9	37.9	14.6	-94.12	-181.1	2,413.1	805.8	749.4	56.43	14.281	
12,025.0	11,703.0	11,870.5	11,754.0	37.9	14.6	-94.40	-202.4	2,414.0	807.0	750.7	56.38	14.313	
12,050.0	11,712.0	11,897.5	11,770.0	38.0	14.6	-94.76	-224.1	2,414.9	808.3	752.0	56.33	14.349	
12,075.0	11,719.6	11,915.9	11,781.0	38.0	14.7	-95.00	-238.8	2,415.5	809.8	753.4	56.31	14.381	
12,100.0	11,726.0	11,935.4	11,792.7	38.0	14.7	-95.30	-254.4	2,416.3	811.6	755.3	56.26	14.425	
12,125.0	11,731.2	11,960.9	11,808.1	38.0	14.7	-95.82	-274.7	2,417.3	813.6	757.4	56.17	14.485	
12,150.0	11,735.0	11,987.9	11,824.2	38.0	14.8	-96.42	-296.3	2,418.2	815.8	759.8	56.06	14.554	
12,175.0	11,737.6	12,014.1	11,839.3	38.0	14.8	-97.02	-317.7	2,419.1	818.3	762.3	55.94	14.627	
12,200.0	11,738.9	12,043.5	11,855.3	38.1	14.8	-97.74	-342.4	2,420.0	820.9	765.1	55.81	14.708	
12,211.5	11,739.0	12,058.2	11,862.9	38.1	14.9	-98.10	-354.9	2,420.4	822.1	766.4	55.75	14.747	
12,300.0	11,739.0	12,120.7	11,893.8	38.2	15.0	-100.21	-409.3	2,423.1	833.6	778.2	55.44	15.035	
12,400.0	11,739.0	12,289.4	11,958.1	38.3	15.2	-104.46	-564.6	2,428.8	845.5	790.4	55.14	15.334	
12,500.0	11,739.0	12,486.2	11,982.1	38.4	15.3	-106.14	-758.7	2,423.8	843.5	788.4	55.14	15.297	
12,600.0	11,739.0	12,563.6	11,983.7	38.5	15.4	-106.29	-836.1	2,422.4	841.8	786.3	55.50	15.166	
12,616.5	11,739.0	12,576.6	11,984.0	38.5	15.4	-106.30	-849.1	2,422.4	841.7	786.2	55.57	15.148	
12,700.0	11,739.0	12,652.1	11,984.6	38.7	15.7	-106.33	-924.5	2,423.5	842.5	786.6	55.91	15.069	
12,800.0	11,739.0	12,767.9	11,985.4	38.8	16.2	-106.40	-1,040.3	2,423.8	842.3	786.0	56.35	14.949	
12,883.6	11,739.0	12,843.8	11,985.3	39.0	16.6	-106.40	-1,116.2	2,423.6	841.6	784.8	56.75	14.829	
12,900.0	11,739.0	12,855.7	11,985.4	39.0	16.6	-106.41	-1,128.1	2,423.7	841.6	784.8	56.83	14.809	
13,000.0	11,739.0	12,945.2	11,987.3	39.2	17.0	-106.51	-1,217.6	2,425.5	843.5	786.2	57.33	14.713	
13,100.0	11,739.0	13,046.9	11,984.9	39.4	17.5	-106.32	-1,319.2	2,427.8	844.3	786.4	57.92	14.576	
13,200.0	11,739.0	13,239.4	11,985.3	39.7	18.8	-106.43	-1,511.6	2,424.4	843.5	784.9	58.59	14.397	
13,300.0	11,739.0	13,329.2	11,985.4	39.9	19.4	-106.63	-1,600.9	2,415.4	833.5	774.3	59.24	14.070	
13,400.0	11,739.0	13,382.0	11,986.4	40.2	19.7	-106.77	-1,653.5	2,412.1	827.7	767.8	59.96	13.804	
13,467.3	11,739.0	13,428.5	11,987.4	40.3	20.0	-106.86	-1,700.0	2,411.1	826.6	766.1	60.46	13.671	
13,500.0	11,739.0	13,447.7	11,987.7	40.4	20.2	-106.88	-1,719.2	2,411.3	826.8	766.1	60.69	13.624	
13,600.0	11,739.0	13,503.3	11,988.1	40.7	20.6	-106.86	-1,774.8	2,414.0	831.0	769.7	61.36	13.543	
13,700.0	11,739.0	13,571.0	11,988.6	41.0	21.2	-106.74	-1,841.9	2,421.7	841.1	779.0	62.08	13.549	
13,800.0	11,739.0	13,717.2	11,988.3	41.3	22.3	-106.51	-1,987.6	2,433.7	847.8	784.6	63.26	13.402	
13,900.0	11,739.0	13,877.8	11,991.1	41.6	23.4	-106.61	-2,148.0	2,439.0	851.6	787.4	64.25	13.254	
14,000.0	11,739.0	13,992.3	11,998.2	41.9	24.0	-107.17	-2,262.2	2,434.5	849.2	784.2	64.98	13.068	
14,100.0	11,739.0	14,090.0	11,999.5	42.3	24.6	-107.34	-2,359.7	2,430.7	845.2	779.4	65.80	12.844	
14,200.0	11,739.0	14,169.5	11,999.4	42.6	25.1	-107.37	-2,439.2	2,429.6	843.2	776.5	66.66	12.649	
14,236.5	11,739.0	14,199.4	11,999.5	42.8	25.3	-107.38	-2,469.1	2,429.7	843.1	776.1	66.98	12.587	
14,300.0	11,739.0	14,254.1	11,999.8	43.0	25.6	-107.39	-2,523.8	2,430.3	843.5	776.0	67.53	12.491	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1143-r.5 MWD+IFR1+MS, 11259-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
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
14,400.0	11,739.0	14,360.1	12,000.5	43.4	26.3	-107.43	-2,629.8	2,431.4	844.0	775.6	68.44	12.333	
14,500.0	11,739.0	14,458.8	12,000.2	43.7	26.9	-107.39	-2,728.6	2,432.7	844.5	775.2	69.37	12.175	
14,600.0	11,739.0	14,561.8	11,999.9	44.1	27.5	-107.37	-2,831.5	2,433.7	844.8	774.4	70.32	12.013	
14,700.0	11,739.0	14,663.6	12,000.5	44.5	28.2	-107.41	-2,933.3	2,434.3	844.9	773.6	71.29	11.852	
14,800.0	11,739.0	14,768.1	12,000.2	44.9	28.8	-107.40	-3,037.9	2,434.6	844.5	772.2	72.28	11.684	
14,900.0	11,739.0	14,873.1	11,999.5	45.3	29.5	-107.37	-3,142.9	2,434.5	843.6	770.3	73.29	11.511	
15,000.0	11,739.0	14,978.1	11,998.8	45.8	30.2	-107.35	-3,247.9	2,433.8	842.1	767.8	74.31	11.332	
15,100.0	11,739.0	15,073.3	11,997.2	46.2	30.8	-107.27	-3,343.0	2,433.2	840.4	765.1	75.36	11.153	
15,167.5	11,739.0	15,130.4	11,996.6	46.5	31.2	-107.23	-3,400.1	2,433.4	839.9	763.9	76.06	11.043	
15,200.0	11,739.0	15,156.5	11,996.4	46.6	31.4	-107.22	-3,426.2	2,433.7	840.1	763.7	76.40	10.996	
15,300.0	11,739.0	15,259.9	11,996.2	47.1	32.1	-107.18	-3,529.6	2,435.6	841.2	763.7	77.48	10.857	
15,400.0	11,739.0	15,369.8	11,995.2	47.6	32.8	-107.12	-3,639.5	2,436.3	840.9	762.3	78.58	10.700	
15,500.0	11,739.0	15,465.0	11,993.7	48.0	33.4	-107.03	-3,734.6	2,436.7	840.3	760.6	79.68	10.545	
15,600.0	11,739.0	15,570.0	11,992.9	48.5	34.2	-106.98	-3,839.6	2,437.1	839.8	759.0	80.81	10.393	
15,700.0	11,739.0	15,670.0	11,992.4	49.0	34.8	-106.96	-3,939.7	2,437.0	838.9	757.0	81.93	10.239	
15,772.7	11,739.0	15,735.7	11,992.3	49.3	35.3	-106.96	-4,005.3	2,437.2	838.6	755.8	82.74	10.135	
15,800.0	11,739.0	15,761.1	11,992.4	49.5	35.5	-106.97	-4,030.8	2,437.4	838.6	755.6	83.05	10.098	
15,900.0	11,739.0	15,869.4	11,992.7	50.0	36.2	-107.00	-4,139.0	2,437.4	838.1	753.9	84.20	9.954	
15,971.1	11,739.0	15,934.1	11,993.1	50.3	36.7	-107.03	-4,203.7	2,437.5	837.9	752.9	85.02	9.856	
16,000.0	11,739.0	15,962.5	11,993.4	50.5	36.9	-107.05	-4,232.2	2,437.6	837.9	752.6	85.35	9.818	
16,100.0	11,739.0	16,064.8	11,993.9	51.0	37.6	-107.09	-4,334.4	2,437.9	837.7	751.2	86.51	9.683	
16,134.0	11,739.0	16,097.0	11,994.0	51.1	37.8	-107.10	-4,366.6	2,438.0	837.7	750.8	86.91	9.638	
16,200.0	11,739.0	16,159.4	11,994.6	51.5	38.2	-107.14	-4,429.1	2,438.4	837.8	750.1	87.68	9.555	
16,300.0	11,739.0	16,254.1	11,995.7	52.0	38.9	-107.20	-4,523.7	2,439.4	838.6	749.7	88.85	9.438	
16,400.0	11,739.0	16,349.1	11,997.1	52.5	39.6	-107.28	-4,618.8	2,440.9	839.9	749.9	90.03	9.329	
16,500.0	11,739.0	16,451.3	11,999.3	53.0	40.3	-107.40	-4,720.9	2,442.9	841.8	750.6	91.23	9.227	
16,600.0	11,739.0	16,560.5	12,001.2	53.6	41.1	-107.52	-4,830.1	2,443.4	842.1	749.6	92.46	9.108	
16,700.0	11,739.0	16,660.1	12,003.3	54.1	41.8	-107.66	-4,929.7	2,444.0	842.7	749.0	93.67	8.996	
16,800.0	11,739.0	16,756.2	12,004.9	54.7	42.4	-107.77	-5,025.7	2,444.4	843.0	748.1	94.89	8.884	
16,900.0	11,739.0	16,857.1	12,007.4	55.2	43.2	-107.92	-5,126.5	2,445.5	844.1	748.0	96.12	8.782	
17,000.0	11,739.0	16,956.8	12,008.6	55.8	43.9	-108.00	-5,226.2	2,446.2	844.6	747.2	97.36	8.675	
17,100.0	11,739.0	17,060.9	12,008.5	56.3	44.6	-107.97	-5,330.4	2,447.7	845.3	746.6	98.63	8.570	
17,200.0	11,739.0	17,163.1	12,007.7	56.9	45.4	-107.91	-5,432.6	2,448.7	845.3	745.4	99.91	8.461	
17,300.0	11,739.0	17,267.5	12,008.5	57.5	46.3	-108.01	-5,556.9	2,447.4	843.9	742.7	101.19	8.340	
17,400.0	11,739.0	17,387.2	12,007.9	58.1	47.0	-108.04	-5,656.6	2,444.8	840.7	738.2	102.46	8.205	
17,500.0	11,739.0	17,464.9	12,008.8	58.6	47.5	-108.12	-5,734.3	2,443.9	839.2	735.5	103.73	8.091	
17,600.0	11,739.0	17,564.1	12,009.9	59.2	48.2	-108.21	-5,833.5	2,444.0	839.1	734.1	105.01	7.990	
17,676.8	11,739.0	17,640.1	12,009.8	59.7	48.8	-108.20	-5,909.4	2,444.5	839.0	733.0	106.00	7.915	
17,700.0	11,739.0	17,662.6	12,009.8	59.8	49.0	-108.20	-5,931.9	2,444.6	839.0	732.7	106.30	7.893	
17,800.0	11,739.0	17,758.8	12,010.9	60.4	49.7	-108.28	-6,028.2	2,445.2	839.4	731.8	107.59	7.802	
17,900.0	11,739.0	17,860.1	12,012.4	61.0	50.4	-108.37	-6,129.4	2,445.9	839.9	731.0	108.89	7.713	
18,000.0	11,739.0	17,962.3	12,012.9	61.6	51.1	-108.41	-6,231.7	2,446.5	840.0	729.7	110.21	7.621	
18,100.0	11,739.0	18,056.6	12,014.1	62.2	51.8	-108.48	-6,325.9	2,447.2	840.4	728.9	111.51	7.537	
18,200.0	11,739.0	18,157.2	12,015.6	62.8	52.6	-108.57	-6,426.5	2,448.4	841.4	728.5	112.83	7.457	
18,300.0	11,739.0	18,257.3	12,016.6	63.4	53.3	-108.63	-6,526.6	2,449.1	841.8	727.6	114.15	7.374	
18,400.0	11,739.0	18,352.1	12,018.8	64.0	54.0	-108.76	-6,621.3	2,450.2	843.0	727.6	115.45	7.302	
18,500.0	11,739.0	18,455.8	12,019.8	64.6	54.7	-108.81	-6,725.0	2,451.7	844.1	727.3	116.80	7.227	
18,600.0	11,739.0	18,566.1	12,020.8	65.3	55.6	-108.87	-6,835.3	2,452.7	844.6	726.5	118.17	7.148	
18,685.5	11,739.0	18,648.9	12,021.2	65.8	56.2	-108.90	-6,918.2	2,452.7	844.2	724.9	119.31	7.076	
18,700.0	11,739.0	18,661.6	12,021.2	65.9	56.3	-108.91	-6,930.8	2,452.8	844.2	724.7	119.50	7.065	
18,800.0	11,739.0	18,769.0	12,021.4	66.5	57.0	-108.91	-7,038.2	2,453.6	844.4	723.5	120.87	6.986	
18,850.4	11,739.0	18,814.0	12,021.1	66.8	57.4	-108.90	-7,083.2	2,453.7	844.1	722.5	121.54	6.945	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1143-r.5 MWD+IFR1+MS, 11259-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)			
18,900.0	11,739.0	18,852.6	12,021.3	67.1	57.7	-108.91	-7,121.8	2,454.1	844.4	722.2	122.18	6.911	
19,000.0	11,739.0	18,958.9	12,022.6	67.8	58.5	-108.97	-7,228.1	2,456.0	845.9	722.3	123.55	6.846	
19,100.0	11,739.0	19,061.5	12,022.2	68.4	59.2	-108.93	-7,330.7	2,457.0	846.1	721.2	124.92	6.773	
19,200.0	11,739.0	19,153.4	12,022.2	69.0	59.9	-108.91	-7,422.5	2,458.3	846.8	720.5	126.26	6.706	
19,300.0	11,739.0	19,248.2	12,023.7	69.7	60.6	-108.99	-7,517.3	2,459.9	848.3	720.7	127.60	6.648	
19,400.0	11,739.0	19,375.8	12,023.6	70.3	61.5	-108.98	-7,645.0	2,460.8	848.3	719.2	129.05	6.573	
19,500.0	11,739.0	19,471.4	12,020.6	70.9	62.2	-108.80	-7,740.5	2,461.1	846.9	716.5	130.43	6.493	
19,561.7	11,739.0	19,525.2	12,019.3	71.3	62.6	-108.71	-7,794.2	2,461.6	846.7	715.4	131.27	6.450	
19,600.0	11,739.0	19,560.8	12,019.0	71.6	62.9	-108.69	-7,829.9	2,462.0	846.7	714.9	131.79	6.425	
19,700.0	11,739.0	19,661.9	12,019.1	72.2	63.6	-108.69	-7,931.0	2,463.0	847.0	713.9	133.18	6.360	
19,776.6	11,739.0	19,740.1	12,019.4	72.7	64.2	-108.71	-8,009.1	2,463.4	847.0	712.8	134.24	6.310	
19,800.0	11,739.0	19,759.7	12,019.5	72.9	64.4	-108.72	-8,028.7	2,463.5	847.1	712.5	134.55	6.296	
19,900.0	11,739.0	19,846.3	12,020.8	73.5	65.0	-108.78	-8,115.3	2,464.9	848.5	712.6	135.88	6.244	
20,000.0	11,739.0	19,942.4	12,023.3	74.2	65.7	-108.91	-8,211.4	2,466.9	850.6	713.4	137.24	6.198	
20,100.0	11,739.0	20,036.7	12,026.9	74.8	66.4	-109.10	-8,305.6	2,469.3	853.7	715.1	138.58	6.160	
20,200.0	11,739.0	20,154.8	12,030.3	75.5	67.3	-109.28	-8,423.6	2,471.5	855.7	715.7	140.06	6.110	
20,300.0	11,739.0	20,267.4	12,030.2	76.2	68.2	-109.27	-8,536.1	2,472.5	855.9	714.4	141.50	6.049	
20,382.6	11,739.0	20,346.3	12,030.5	76.7	68.7	-109.31	-8,615.1	2,472.5	855.6	712.9	142.64	5.998	
20,400.0	11,739.0	20,361.7	12,030.7	76.8	68.9	-109.31	-8,630.5	2,472.6	855.6	712.7	142.88	5.988	
20,500.0	11,739.0	20,457.8	12,031.6	77.5	69.6	-109.36	-8,726.6	2,473.5	856.2	712.0	144.27	5.935	
20,600.0	11,739.0	20,566.5	12,032.5	78.2	70.4	-109.42	-8,835.3	2,474.3	856.5	710.8	145.69	5.879	
20,654.5	11,739.0	20,618.2	12,032.7	78.5	70.8	-109.44	-8,887.0	2,474.3	856.4	709.9	146.45	5.847	
20,700.0	11,739.0	20,658.2	12,032.9	78.8	71.1	-109.45	-8,927.0	2,474.7	856.5	709.4	147.07	5.824	
20,800.0	11,739.0	20,759.9	12,033.3	79.5	71.8	-109.46	-9,028.6	2,475.9	857.2	708.7	148.48	5.773	
20,900.0	11,739.0	20,861.5	12,033.5	80.2	72.6	-109.47	-9,130.3	2,476.9	857.6	707.7	149.90	5.721	
21,000.0	11,739.0	20,961.5	12,033.9	80.8	73.3	-109.49	-9,230.3	2,477.7	857.8	706.5	151.31	5.669	
21,100.0	11,739.0	21,062.7	12,034.1	81.5	74.1	-109.50	-9,331.4	2,478.5	858.0	705.3	152.72	5.618	
21,200.0	11,739.0	21,171.9	12,035.2	82.2	74.9	-109.59	-9,440.6	2,478.2	857.5	703.3	154.15	5.563	
21,300.0	11,739.0	21,274.7	12,038.4	82.9	75.7	-109.84	-9,543.4	2,476.6	856.5	700.9	155.56	5.506	
21,400.0	11,739.0	21,380.0	12,040.0	83.5	76.5	-110.00	-9,648.7	2,474.8	854.7	697.8	156.97	5.445	
21,500.0	11,739.0	21,477.5	12,041.3	84.2	77.2	-110.14	-9,746.1	2,473.1	853.0	694.6	158.39	5.385	
21,600.0	11,739.0	21,577.3	12,043.3	84.9	77.9	-110.31	-9,845.8	2,471.5	851.5	691.7	159.80	5.328	
21,697.5	11,739.0	21,673.8	12,044.8	85.6	78.7	-110.47	-9,942.4	2,469.9	850.0	688.8	161.18	5.273	
21,700.0	11,739.0	21,676.3	12,044.9	85.6	78.7	-110.47	-9,944.9	2,469.9	849.9	688.7	161.22	5.272	
21,747.5	11,739.0	21,723.8	12,045.5	85.9	79.0	-110.53	-9,992.4	2,469.2	849.2	687.3	161.89	5.246 ES, SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		147-NS-GYRO-MS, 1211-MWD+IFR1+MS_CoP					Rule Assigned:							Offset Well Error:	2.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
7,000.0	6,816.0	6,854.8	6,853.6	28.5	12.3	0.42	34.1	2,360.8	987.4	943.5	43.92	22.480			
7,100.0	6,914.0	6,952.8	6,951.5	29.0	12.5	0.50	32.9	2,357.9	964.8	920.2	44.62	21.623			
7,200.0	7,012.2	7,050.8	7,049.5	29.5	12.7	0.57	31.9	2,355.0	943.0	897.7	45.31	20.813			
7,300.0	7,110.6	7,150.5	7,149.2	29.9	12.9	0.64	31.0	2,351.9	922.0	876.0	45.98	20.052			
7,400.0	7,209.1	7,237.7	7,236.3	30.4	13.1	0.70	30.2	2,349.6	902.2	855.5	46.76	19.293			
7,500.0	7,307.8	7,323.0	7,321.6	30.8	13.3	0.78	29.2	2,348.5	884.7	837.1	47.56	18.601			
7,600.0	7,406.6	7,419.1	7,417.7	31.3	13.5	0.88	27.8	2,348.3	869.0	820.7	48.26	18.007			
7,700.0	7,505.5	7,517.9	7,516.5	31.7	13.7	0.98	26.6	2,348.1	854.2	805.3	48.93	17.459			
7,800.0	7,604.6	7,610.9	7,609.5	32.1	13.8	1.03	26.0	2,348.1	840.6	790.9	49.64	16.932			
7,900.0	7,703.7	7,699.1	7,697.6	32.6	14.0	1.04	26.0	2,349.1	828.9	778.5	50.40	16.447			
8,000.0	7,803.0	7,789.7	7,788.2	33.0	14.2	1.02	26.5	2,351.3	819.3	768.2	51.12	16.027			
8,100.0	7,902.4	7,875.7	7,874.1	33.4	14.4	0.96	27.5	2,354.4	811.8	759.9	51.87	15.651			
8,200.0	8,001.9	7,964.5	7,962.8	33.8	14.6	0.82	29.6	2,359.2	807.0	754.4	52.58	15.346			
8,300.0	8,101.4	8,060.8	8,058.8	34.2	14.8	0.60	32.8	2,365.3	803.9	750.7	53.23	15.102			
8,400.0	8,201.1	8,164.7	8,162.5	34.6	15.0	0.38	36.1	2,371.8	801.7	747.9	53.81	14.898			
8,500.0	8,300.8	8,269.7	8,267.3	34.9	15.2	0.19	38.9	2,377.6	799.6	745.3	54.37	14.707			
8,600.0	8,400.5	8,366.8	8,364.2	35.3	15.4	0.03	41.2	2,382.8	798.3	743.3	54.97	14.522			
8,700.0	8,500.4	8,471.8	8,469.0	35.7	15.6	-0.15	43.8	2,388.5	797.9	742.4	55.50	14.375			
8,800.0	8,600.2	8,582.1	8,579.2	36.0	15.8	-0.34	46.5	2,393.2	797.2	741.2	55.97	14.243			
8,900.0	8,700.2	8,686.0	8,683.0	36.3	16.0	-0.60	50.2	2,396.8	796.6	740.1	56.47	14.107			
9,000.0	8,800.1	8,796.2	8,793.0	36.6	16.3	-0.98	55.6	2,399.8	796.2	739.3	56.89	13.996			
9,100.0	8,900.1	8,913.6	8,910.4	36.9	16.5	-1.26	59.4	2,400.6	794.6	737.4	57.20	13.891			
9,200.0	9,000.1	9,015.3	9,012.0	37.2	16.7	-1.43	61.7	2,400.0	792.6	735.0	57.63	13.753			
9,300.0	9,100.1	9,114.1	9,110.8	37.4	16.9	-1.54	63.2	2,399.7	791.7	733.7	58.02	13.645			
9,324.5	9,124.6	9,139.0	9,135.7	37.4	17.0	87.45	63.3	2,399.7	791.6	733.5	58.07	13.631			
9,400.0	9,200.1	9,218.3	9,215.0	37.4	17.1	87.44	63.4	2,399.2	791.2	733.1	58.14	13.610			
9,500.0	9,300.1	9,319.0	9,315.7	37.4	17.3	87.44	63.4	2,398.3	790.3	732.0	58.28	13.562			
9,556.9	9,356.9	9,369.2	9,365.9	37.4	17.4	87.46	63.2	2,398.1	790.0	731.6	58.43	13.522 CC			
9,600.0	9,400.1	9,412.0	9,408.7	37.4	17.5	87.48	62.8	2,398.3	790.2	731.7	58.49	13.509			
9,700.0	9,500.1	9,488.8	9,485.4	37.5	17.7	87.59	61.3	2,399.8	792.1	733.2	58.85	13.458			
9,800.0	9,600.1	9,587.3	9,583.9	37.5	17.9	87.81	58.5	2,403.2	795.3	736.3	59.01	13.478			
9,900.0	9,700.1	9,697.8	9,694.3	37.5	18.1	87.98	56.1	2,406.1	797.9	738.8	59.07	13.507			
10,000.0	9,800.1	9,809.8	9,806.3	37.5	18.3	88.10	54.6	2,407.3	798.9	739.8	59.12	13.515			
10,100.0	9,900.1	9,914.8	9,911.3	37.6	18.6	88.17	53.6	2,407.4	799.0	739.7	59.22	13.491			
10,200.0	10,000.1	10,018.5	10,014.9	37.6	18.8	88.20	53.2	2,406.8	798.4	739.0	59.34	13.454			
10,300.0	10,100.1	10,119.9	10,116.4	37.6	19.0	88.19	53.3	2,406.0	797.6	738.1	59.48	13.409			
10,400.0	10,200.1	10,221.8	10,218.3	37.6	19.2	88.16	53.6	2,404.9	796.5	736.9	59.62	13.360			
10,500.0	10,300.1	10,323.4	10,319.9	37.6	19.4	88.14	53.8	2,403.6	795.3	735.5	59.77	13.307			
10,600.0	10,400.1	10,425.1	10,421.5	37.7	19.6	88.15	53.7	2,402.1	793.8	733.9	59.91	13.250			
10,700.0	10,500.1	10,520.2	10,516.6	37.7	19.8	88.15	53.6	2,400.8	792.4	732.3	60.12	13.182			
10,800.0	10,600.1	10,614.2	10,610.6	37.7	20.0	88.13	53.9	2,400.3	791.9	731.6	60.33	13.125			
10,861.9	10,661.9	10,674.5	10,670.9	37.7	20.1	88.11	54.3	2,400.2	791.9	731.4	60.45	13.100			
10,900.0	10,700.1	10,712.5	10,708.9	37.7	20.2	88.09	54.4	2,400.2	791.9	731.4	60.51	13.086			
11,000.0	10,800.1	10,813.3	10,809.7	37.7	20.4	88.06	54.9	2,400.2	791.8	731.2	60.67	13.052			
11,040.4	10,840.5	10,853.0	10,849.5	37.8	20.5	88.04	55.1	2,400.2	791.8	731.1	60.74	13.036			
11,100.0	10,900.1	10,911.0	10,907.4	37.8	20.6	88.05	55.0	2,400.2	791.9	731.0	60.85	13.013			
11,200.0	11,000.1	10,994.0	10,990.3	37.8	20.8	88.29	51.8	2,401.3	793.1	731.9	61.16	12.968			
11,300.0	11,100.1	11,081.1	11,076.1	37.8	21.0	89.29	38.0	2,404.3	796.2	734.8	61.42	12.964			
11,400.0	11,200.1	11,164.0	11,154.9	37.8	21.1	91.10	12.8	2,408.7	801.8	740.1	61.69	12.998			
11,461.5	11,261.5	11,229.7	11,214.8	37.8	21.3	93.01	-14.1	2,411.9	806.1	744.4	61.73	13.060			
11,475.0	11,275.1	11,246.2	11,229.5	37.8	21.3	-86.00	-21.6	2,412.5	807.0	745.4	61.63	13.094			
11,500.0	11,300.0	11,276.1	11,255.9	37.9	21.3	-84.92	-35.7	2,413.3	808.6	747.0	61.61	13.123			

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 147-NS-GYRO-MS, 1211-MWD+IFR1+MS, CoP													Offset Well Error: 2.0 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)			
11,525.0	11,324.9	11,305.9	11,281.8	37.9	21.4	-83.93	-50.2	2,413.7	809.9	748.4	61.59	13.150	
11,550.0	11,349.6	11,331.1	11,303.6	37.9	21.5	-83.15	-62.9	2,413.9	811.2	749.6	61.61	13.167	
11,575.0	11,374.0	11,356.4	11,325.4	37.9	21.5	-82.45	-75.9	2,414.0	812.3	750.6	61.62	13.181	
11,600.0	11,398.1	11,381.1	11,346.4	37.9	21.6	-81.84	-88.9	2,414.1	813.2	751.6	61.65	13.192	
11,625.0	11,421.9	11,404.8	11,366.3	37.9	21.6	-81.34	-101.5	2,414.1	814.0	752.4	61.68	13.198	
11,650.0	11,445.2	11,424.6	11,383.0	37.9	21.7	-80.96	-112.4	2,414.1	814.8	753.0	61.75	13.195	
11,675.0	11,468.0	11,447.0	11,401.4	37.9	21.7	-80.60	-125.0	2,414.1	815.5	753.7	61.80	13.196	
11,700.0	11,490.3	11,463.8	11,415.2	37.9	21.7	-80.36	-134.8	2,414.3	816.2	754.3	61.89	13.186	
11,725.0	11,511.9	11,483.0	11,430.5	37.9	21.8	-80.13	-146.2	2,414.4	816.8	754.8	61.97	13.180	
11,750.0	11,532.8	11,503.0	11,446.2	37.9	21.8	-79.95	-158.6	2,414.7	817.4	755.3	62.05	13.174	
11,775.0	11,553.0	11,524.3	11,462.8	37.9	21.9	-79.81	-172.1	2,415.0	817.9	755.7	62.11	13.168	
11,800.0	11,572.4	11,545.7	11,479.1	37.9	21.9	-79.74	-185.9	2,415.3	818.2	756.0	62.18	13.160	
11,825.0	11,590.9	11,567.1	11,495.0	37.9	22.0	-79.73	-200.1	2,415.6	818.5	756.2	62.24	13.150	
11,850.0	11,608.6	11,588.6	11,510.7	37.9	22.0	-79.76	-214.9	2,416.0	818.6	756.3	62.31	13.138	
11,875.0	11,625.3	11,613.7	11,528.4	37.9	22.1	-79.86	-232.7	2,416.2	818.5	756.2	62.35	13.128	
11,900.0	11,641.0	11,638.7	11,545.6	37.9	22.1	-80.04	-250.8	2,416.4	818.2	755.8	62.39	13.115	
11,925.0	11,655.6	11,661.6	11,560.9	37.9	22.2	-80.27	-267.8	2,416.5	817.7	755.3	62.45	13.095	
11,950.0	11,669.2	11,683.1	11,575.0	37.9	22.2	-80.54	-284.2	2,416.6	817.1	754.6	62.51	13.071	
11,975.0	11,681.6	11,704.7	11,588.6	37.9	22.3	-80.87	-300.8	2,416.6	816.4	753.8	62.58	13.046	
12,000.0	11,692.9	11,726.2	11,601.9	37.9	22.3	-81.26	-317.7	2,416.7	815.6	752.9	62.64	13.021	
12,025.0	11,703.0	11,745.2	11,613.3	37.9	22.4	-81.65	-333.0	2,416.8	814.7	752.0	62.71	12.992	
12,050.0	11,712.0	11,761.8	11,622.8	38.0	22.4	-82.03	-346.6	2,416.9	813.9	751.1	62.79	12.962	
12,075.0	11,719.6	11,784.7	11,635.4	38.0	22.5	-82.56	-365.7	2,417.2	813.1	750.3	62.83	12.941	
12,100.0	11,726.0	11,809.6	11,648.5	38.0	22.5	-83.17	-386.8	2,417.3	812.2	749.3	62.86	12.921	
12,125.0	11,731.2	11,832.5	11,660.0	38.0	22.6	-83.79	-406.7	2,417.4	811.2	748.3	62.89	12.899	
12,150.0	11,735.0	11,851.4	11,668.9	38.0	22.6	-84.35	-423.3	2,417.4	810.2	747.3	62.93	12.874	
12,175.0	11,737.6	11,872.6	11,678.1	38.0	22.7	-84.97	-442.5	2,417.5	809.3	746.3	62.96	12.853	
12,200.0	11,738.9	11,894.7	11,686.7	38.1	22.8	-85.61	-462.8	2,417.5	808.4	745.4	62.98	12.835	
12,211.5	11,739.0	11,903.1	11,689.7	38.1	22.8	-85.86	-470.7	2,417.5	808.0	745.0	63.00	12.826	
12,300.0	11,739.0	11,984.0	11,712.3	38.2	23.0	-87.46	-548.2	2,417.4	805.8	742.7	63.08	12.773	
12,400.0	11,739.0	12,086.1	11,730.7	38.3	23.3	-88.77	-648.7	2,417.1	804.2	741.0	63.24	12.717	
12,500.0	11,739.0	12,174.5	11,735.4	38.4	23.5	-89.10	-736.9	2,416.7	803.0	739.6	63.38	12.669	
12,526.8	11,739.0	12,197.1	11,735.5	38.4	23.6	-89.11	-759.5	2,416.8	802.9	739.4	63.48	12.647	
12,600.0	11,739.0	12,260.7	11,734.3	38.5	23.8	-89.02	-823.1	2,417.6	803.4	739.6	63.78	12.596	
12,700.0	11,739.0	12,389.0	11,730.3	38.7	24.2	-88.73	-951.3	2,417.2	802.4	738.2	64.21	12.498	
12,800.0	11,739.0	12,482.5	11,728.5	38.8	24.5	-88.61	-1,044.7	2,415.7	800.2	735.6	64.65	12.377	
12,860.0	11,739.0	12,530.4	11,728.2	39.0	24.7	-88.58	-1,092.7	2,415.6	799.8	734.8	64.93	12.317	
12,900.0	11,739.0	12,565.4	11,728.3	39.0	24.8	-88.59	-1,127.6	2,416.0	799.9	734.8	65.12	12.284	
13,000.0	11,739.0	12,663.6	11,728.5	39.2	25.2	-88.60	-1,225.8	2,417.4	800.7	735.1	65.62	12.202	
13,100.0	11,739.0	12,766.9	11,729.5	39.4	25.6	-88.68	-1,329.1	2,419.0	801.5	735.4	66.15	12.117	
13,200.0	11,739.0	12,874.8	11,731.0	39.7	26.0	-88.78	-1,437.0	2,419.4	801.3	734.6	66.71	12.012	
13,300.0	11,739.0	12,976.0	11,733.2	39.9	26.5	-88.94	-1,538.1	2,419.5	800.7	733.4	67.29	11.899	
13,400.0	11,739.0	13,077.8	11,736.4	40.2	26.9	-89.17	-1,640.0	2,419.5	799.9	732.0	67.90	11.780	
13,500.0	11,739.0	13,176.6	11,739.9	40.4	27.4	-89.42	-1,738.7	2,419.3	799.0	730.4	68.54	11.656	
13,573.3	11,739.0	13,244.0	11,742.2	40.6	27.8	-89.59	-1,806.0	2,419.4	798.6	729.6	69.05	11.566	
13,600.0	11,739.0	13,267.5	11,742.4	40.7	27.9	-89.60	-1,829.5	2,419.6	798.7	729.5	69.24	11.535	
13,700.0	11,739.0	13,359.0	11,741.1	41.0	28.4	-89.51	-1,921.0	2,421.1	799.7	729.7	70.00	11.424	
13,800.0	11,739.0	13,458.0	11,739.8	41.3	28.9	-89.41	-2,020.0	2,423.3	801.3	730.5	70.79	11.320	
13,900.0	11,739.0	13,561.7	11,738.4	41.6	29.5	-89.32	-2,123.6	2,425.4	802.7	731.1	71.61	11.209	
14,000.0	11,739.0	13,665.1	11,736.7	41.9	30.1	-89.20	-2,227.0	2,427.0	803.6	731.1	72.47	11.088	
14,100.0	11,739.0	13,752.9	11,735.3	42.3	30.7	-89.10	-2,314.8	2,428.8	805.0	731.7	73.34	10.976	
14,200.0	11,739.0	13,852.8	11,735.0	42.6	31.3	-89.07	-2,414.6	2,431.8	807.4	733.1	74.22	10.877	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 147-NS-GYRO-MS, 1211-MWD+IFR1+MS_CoP												Offset Well Error:	2.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,300.0	11,739.0	13,948.9	11,735.4	43.0	31.8	-89.11	-2,510.7	2,434.7	809.8	734.7	75.12	10.780	
14,400.0	11,739.0	14,076.9	11,735.9	43.4	32.7	-89.15	-2,638.7	2,436.5	810.4	734.3	76.07	10.654	
14,500.0	11,739.0	14,177.6	11,736.3	43.7	33.3	-89.17	-2,739.3	2,436.4	809.7	732.6	77.02	10.512	
14,600.0	11,739.0	14,277.8	11,736.7	44.1	34.0	-89.20	-2,839.5	2,436.1	808.7	730.7	78.00	10.368	
14,700.0	11,739.0	14,384.0	11,737.2	44.5	34.7	-89.23	-2,945.7	2,435.8	807.8	728.8	79.00	10.225	
14,800.0	11,739.0	14,490.7	11,737.6	44.9	35.4	-89.26	-3,052.4	2,434.1	805.5	725.5	80.01	10.067	
14,900.0	11,739.0	14,583.4	11,737.9	45.3	36.0	-89.28	-3,145.1	2,432.7	803.3	722.3	81.06	9.911	
15,000.0	11,739.0	14,680.4	11,738.3	45.8	36.7	-89.31	-3,242.1	2,432.2	802.2	720.1	82.12	9.769	
15,092.8	11,739.0	14,763.7	11,738.6	46.2	37.3	-89.33	-3,325.4	2,432.0	801.4	718.3	83.12	9.642	
15,100.0	11,739.0	14,769.7	11,738.6	46.2	37.3	-89.33	-3,331.5	2,432.0	801.4	718.2	83.20	9.633	
15,200.0	11,739.0	14,854.7	11,738.5	46.6	37.9	-89.32	-3,416.4	2,433.5	802.5	718.2	84.28	9.522	
15,300.0	11,739.0	14,945.4	11,738.9	47.1	38.6	-89.35	-3,507.0	2,436.6	805.3	719.9	85.37	9.433	
15,400.0	11,739.0	15,055.5	11,739.7	47.6	39.4	-89.41	-3,617.1	2,440.6	808.3	721.7	86.52	9.342	
15,500.0	11,739.0	15,191.8	11,740.7	48.0	40.4	-89.48	-3,753.4	2,441.2	808.1	720.4	87.67	9.218	
15,600.0	11,739.0	15,283.0	11,741.1	48.5	41.1	-89.51	-3,844.6	2,440.3	806.4	717.6	88.84	9.077	
15,700.0	11,739.0	15,394.4	11,741.5	49.0	41.9	-89.53	-3,955.9	2,438.4	804.1	714.0	90.01	8.933	
15,800.0	11,739.0	15,487.8	11,741.8	49.5	42.6	-89.55	-4,049.3	2,436.4	801.3	710.1	91.20	8.786	
15,885.9	11,739.0	15,557.0	11,741.9	49.9	43.1	-89.56	-4,118.5	2,436.2	800.4	708.2	92.24	8.677	
15,900.0	11,739.0	15,568.3	11,741.9	50.0	43.2	-89.56	-4,129.8	2,436.3	800.4	708.0	92.41	8.662	
16,000.0	11,739.0	15,651.0	11,742.1	50.5	43.8	-89.58	-4,212.5	2,438.0	801.9	708.3	93.60	8.567	
16,100.0	11,739.0	15,752.5	11,742.6	51.0	44.6	-89.61	-4,313.9	2,441.1	804.3	709.4	94.83	8.481	
16,200.0	11,739.0	15,848.1	11,742.9	51.5	45.3	-89.64	-4,409.5	2,444.2	806.9	710.8	96.07	8.399	
16,300.0	11,739.0	15,946.5	11,743.3	52.0	46.1	-89.67	-4,507.9	2,447.9	810.0	712.7	97.32	8.323	
16,400.0	11,739.0	16,070.5	11,744.1	52.5	47.1	-89.72	-4,631.8	2,450.7	811.5	712.9	98.63	8.228	
16,500.0	11,739.0	16,175.7	11,744.5	53.0	47.9	-89.76	-4,737.0	2,450.7	810.9	711.0	99.90	8.116	
16,600.0	11,739.0	16,275.8	11,745.1	53.6	48.7	-89.79	-4,837.1	2,450.9	810.5	709.3	101.19	8.010	
16,700.0	11,739.0	16,374.5	11,745.6	54.1	49.4	-89.83	-4,935.8	2,451.0	809.9	707.4	102.48	7.903	
16,800.0	11,739.0	16,476.7	11,746.3	54.7	50.2	-89.88	-5,038.0	2,451.2	809.5	705.7	103.79	7.799	
16,900.0	11,739.0	16,582.8	11,746.8	55.2	51.1	-89.91	-5,144.1	2,450.8	808.4	703.3	105.10	7.692	
17,000.0	11,739.0	16,687.3	11,747.4	55.8	51.9	-89.96	-5,248.6	2,449.7	806.7	700.3	106.42	7.581	
17,100.0	11,739.0	16,791.3	11,747.6	56.3	52.8	-89.97	-5,352.6	2,447.9	804.4	696.6	107.74	7.466	
17,200.0	11,739.0	16,882.3	11,747.3	56.9	53.5	-89.95	-5,443.5	2,446.8	802.4	693.4	109.10	7.355	
17,300.0	11,739.0	16,973.6	11,746.7	57.5	54.2	-89.91	-5,534.9	2,446.6	801.6	691.2	110.45	7.258	
17,355.6	11,739.0	17,026.9	11,746.4	57.8	54.6	-89.89	-5,588.2	2,446.9	801.6	690.4	111.20	7.208	
17,400.0	11,739.0	17,071.1	11,746.2	58.1	55.0	-89.87	-5,632.3	2,447.2	801.6	689.8	111.80	7.170	
17,500.0	11,739.0	17,180.7	11,745.6	58.6	55.9	-89.83	-5,741.9	2,447.0	800.8	687.6	113.17	7.076	
17,600.0	11,739.0	17,275.6	11,745.2	59.2	56.7	-89.80	-5,836.8	2,447.0	800.0	685.5	114.54	6.984	
17,700.0	11,739.0	17,377.7	11,744.8	59.8	57.5	-89.77	-5,938.9	2,447.0	799.4	683.4	115.92	6.896	
17,800.0	11,739.0	17,472.1	11,744.5	60.4	58.2	-89.75	-6,033.3	2,446.8	798.6	681.3	117.30	6.808	
17,804.4	11,739.0	17,475.7	11,744.5	60.4	58.3	-89.75	-6,037.0	2,446.9	798.6	681.2	117.36	6.805	
17,900.0	11,739.0	17,557.7	11,744.2	61.0	58.9	-89.73	-6,119.0	2,448.3	799.6	680.9	118.66	6.738	
18,000.0	11,739.0	17,656.6	11,743.8	61.6	59.8	-89.70	-6,217.7	2,450.8	801.5	681.4	120.06	6.675	
18,100.0	11,739.0	17,757.6	11,743.4	62.2	60.6	-89.68	-6,318.8	2,453.1	803.1	681.6	121.47	6.612	
18,200.0	11,739.0	17,857.3	11,743.7	62.8	61.4	-89.69	-6,418.4	2,455.6	805.0	682.1	122.88	6.551	
18,300.0	11,739.0	17,963.5	11,744.6	63.4	62.3	-89.76	-6,524.6	2,457.8	806.4	682.1	124.30	6.487	
18,400.0	11,739.0	18,063.4	11,746.4	64.0	63.1	-89.89	-6,624.5	2,459.3	807.2	681.5	125.71	6.421	
18,500.0	11,739.0	18,160.0	11,748.1	64.6	63.9	-90.01	-6,721.0	2,461.1	808.4	681.3	127.11	6.360	
18,600.0	11,739.0	18,254.1	11,749.1	65.3	64.7	-90.08	-6,815.1	2,463.3	810.2	681.6	128.51	6.304	
18,700.0	11,739.0	18,353.1	11,749.0	65.9	65.5	-90.07	-6,914.1	2,466.2	812.5	682.5	129.95	6.252	
18,800.0	11,739.0	18,459.6	11,748.8	66.5	66.4	-90.05	-7,020.6	2,469.0	814.4	683.0	131.41	6.198	
18,900.0	11,739.0	18,560.2	11,748.8	67.1	67.2	-90.05	-7,121.1	2,471.0	815.8	682.9	132.85	6.140	
19,000.0	11,739.0	18,655.1	11,749.0	67.8	68.0	-90.07	-7,216.0	2,473.2	817.5	683.2	134.28	6.088	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 147-NS-GYRO-MS, 1211-MWD+IFR1+MS, CoP												Offset Well Error:	2.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.0	11,739.0	18,769.6	11,749.3	68.4	69.0	-90.09	-7,330.5	2,475.3	818.6	682.9	135.77	6.030	
19,200.0	11,739.0	18,876.6	11,749.0	69.0	69.9	-90.07	-7,437.4	2,475.6	818.2	681.0	137.23	5.962	
19,300.0	11,739.0	18,972.9	11,748.1	69.7	70.7	-90.00	-7,533.8	2,476.0	818.0	679.3	138.70	5.897	
19,397.1	11,739.0	19,068.7	11,747.5	70.3	71.5	-89.97	-7,629.5	2,476.4	817.7	677.6	140.11	5.836	
19,400.0	11,739.0	19,071.3	11,747.5	70.3	71.5	-89.96	-7,632.2	2,476.4	817.7	677.6	140.16	5.834	
19,500.0	11,739.0	19,168.6	11,747.2	70.9	72.3	-89.94	-7,729.4	2,477.5	818.2	676.6	141.62	5.777	
19,600.0	11,739.0	19,274.8	11,746.8	71.6	73.2	-89.92	-7,835.7	2,478.0	818.0	674.9	143.10	5.717	
19,700.0	11,739.0	19,375.2	11,746.3	72.2	74.1	-89.88	-7,936.1	2,478.2	817.6	673.0	144.58	5.655	
19,800.0	11,739.0	19,478.0	11,745.9	72.9	74.9	-89.86	-8,038.8	2,478.3	817.1	671.0	146.06	5.594	
19,900.0	11,739.0	19,578.8	11,745.6	73.5	75.8	-89.83	-8,139.7	2,478.1	816.1	668.6	147.54	5.532	
20,000.0	11,739.0	19,677.7	11,745.2	74.2	76.6	-89.80	-8,238.5	2,477.9	815.3	666.3	149.02	5.471	
20,088.1	11,739.0	19,759.7	11,744.9	74.8	77.3	-89.78	-8,320.6	2,478.0	814.9	664.6	150.32	5.421	
20,100.0	11,739.0	19,770.6	11,744.9	74.8	77.4	-89.78	-8,331.4	2,478.1	814.9	664.4	150.50	5.415	
20,200.0	11,739.0	19,875.3	11,744.5	75.5	78.3	-89.76	-8,436.1	2,478.8	815.0	663.0	151.99	5.362	
20,300.0	11,739.0	19,972.1	11,744.2	76.2	79.1	-89.73	-8,532.9	2,479.1	814.6	661.2	153.48	5.308	
20,314.4	11,739.0	19,985.9	11,744.1	76.3	79.2	-89.73	-8,546.8	2,479.2	814.6	660.9	153.70	5.300	
20,400.0	11,739.0	20,067.4	11,743.8	76.8	79.9	-89.71	-8,628.3	2,480.0	814.9	659.9	154.97	5.258	
20,500.0	11,739.0	20,177.6	11,744.0	77.5	80.9	-89.72	-8,738.4	2,480.6	814.8	658.3	156.47	5.207	
20,600.0	11,739.0	20,277.9	11,744.7	78.2	81.7	-89.77	-8,838.7	2,480.5	814.0	656.1	157.97	5.153	
20,700.0	11,739.0	20,378.7	11,745.2	78.8	82.6	-89.80	-8,939.5	2,480.2	813.1	653.6	159.47	5.099	
20,800.0	11,739.0	20,472.4	11,745.7	79.5	83.4	-89.84	-9,033.2	2,480.4	812.6	651.7	160.97	5.048	
20,816.3	11,739.0	20,487.9	11,745.8	79.6	83.5	-89.84	-9,048.8	2,480.5	812.6	651.4	161.21	5.041	
20,900.0	11,739.0	20,571.0	11,746.2	80.2	84.2	-89.87	-9,131.8	2,481.2	812.8	650.3	162.47	5.003	
21,000.0	11,739.0	20,674.8	11,746.7	80.8	85.1	-89.91	-9,235.6	2,481.5	812.4	648.5	163.98	4.954	
21,100.0	11,739.0	20,774.8	11,747.3	81.5	85.9	-89.95	-9,335.6	2,481.9	812.2	646.7	165.49	4.908	
21,200.0	11,739.0	20,873.6	11,747.8	82.2	86.8	-89.99	-9,434.4	2,482.0	811.7	644.7	167.00	4.860	
21,227.5	11,739.0	20,899.2	11,748.0	82.4	87.0	-90.00	-9,460.0	2,482.2	811.6	644.2	167.42	4.848	
21,300.0	11,739.0	20,968.1	11,748.4	82.9	87.6	-90.03	-9,528.9	2,482.8	811.8	643.3	168.51	4.818	
21,400.0	11,739.0	21,070.9	11,749.0	83.5	88.5	-90.07	-9,631.7	2,483.9	812.3	642.2	170.03	4.777	
21,500.0	11,739.0	21,176.3	11,749.5	84.2	89.4	-90.10	-9,737.1	2,484.3	812.0	640.4	171.56	4.733	
21,600.0	11,739.0	21,271.7	11,749.8	84.9	90.2	-90.13	-9,832.5	2,484.5	811.6	638.5	173.07	4.689	
21,604.4	11,739.0	21,275.8	11,749.9	84.9	90.2	-90.13	-9,836.6	2,484.5	811.6	638.4	173.14	4.687	
21,697.5	11,739.0	21,365.0	11,750.2	85.6	91.0	-90.15	-9,925.8	2,485.4	811.8	637.3	174.55	4.651	
21,700.0	11,739.0	21,367.4	11,750.2	85.6	91.0	-90.15	-9,928.2	2,485.4	811.9	637.3	174.59	4.650	
21,747.5	11,739.0	21,413.4	11,750.2	85.9	91.4	-90.16	-9,974.2	2,486.0	812.1	636.8	175.31	4.633 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 47-GOOD GYRO, 1311-MWD+IFR1+MS_CoP												Offset Well Error:	2.0 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)			
8,200.0	8,001.9	7,934.7	7,925.0	33.8	14.3	-4.79	127.8	2,543.8	998.8	946.3	52.53	19.013	
8,300.0	8,101.4	8,042.0	8,031.9	34.2	14.5	-5.00	131.4	2,552.1	997.6	944.5	53.11	18.783	
8,400.0	8,201.1	8,149.1	8,138.7	34.6	14.8	-5.20	135.0	2,559.9	996.7	943.0	53.67	18.569	
8,500.0	8,300.8	8,259.1	8,248.4	34.9	15.0	-5.38	138.1	2,566.8	995.6	941.4	54.21	18.366	
8,600.0	8,400.5	8,367.8	8,357.0	35.3	15.2	-5.53	140.8	2,572.7	994.5	939.8	54.73	18.171	
8,700.0	8,500.4	8,473.2	8,462.2	35.7	15.4	-5.66	143.1	2,577.6	993.6	938.3	55.26	17.980	
8,800.0	8,600.2	8,584.1	8,573.0	36.0	15.7	-5.79	145.2	2,582.0	992.8	937.0	55.74	17.811	
8,900.0	8,700.2	8,690.4	8,679.2	36.3	15.9	-5.89	146.9	2,585.2	991.9	935.7	56.22	17.642	
9,000.0	8,800.1	8,795.4	8,784.2	36.6	16.1	-6.02	149.2	2,587.8	991.4	934.7	56.69	17.487	
9,077.2	8,877.3	8,875.5	8,864.3	36.8	16.3	-6.07	150.1	2,589.5	991.1	934.1	57.04	17.376 CC	
9,100.0	8,900.1	8,897.1	8,885.8	36.9	16.3	-6.09	150.3	2,590.0	991.2	934.0	57.16	17.341 ES	
9,200.0	9,000.1	8,997.6	8,986.3	37.2	16.5	-6.15	151.6	2,592.2	992.1	934.5	57.60	17.225	
9,300.0	9,100.1	9,113.9	9,102.6	37.4	16.8	-6.22	152.9	2,593.9	993.0	935.1	57.85	17.164	
9,324.5	9,124.6	9,143.8	9,132.5	37.4	16.8	82.77	153.1	2,594.0	993.1	935.2	57.87	17.161	
9,400.0	9,200.1	9,224.3	9,213.0	37.4	17.0	82.76	153.3	2,593.8	992.9	935.0	57.93	17.140	
9,437.0	9,237.1	9,256.7	9,245.4	37.4	17.1	82.76	153.2	2,593.7	992.8	934.8	58.02	17.111	
9,500.0	9,300.1	9,310.0	9,298.7	37.4	17.2	82.76	153.2	2,594.0	993.1	934.9	58.19	17.068	
9,600.0	9,400.1	9,395.8	9,384.5	37.4	17.4	82.77	153.3	2,595.4	994.8	936.4	58.43	17.026	
9,700.0	9,500.1	9,496.2	9,484.8	37.5	17.6	82.72	154.4	2,597.9	997.4	938.8	58.57	17.028	
9,800.0	9,600.1	9,594.7	9,583.3	37.5	17.8	82.57	157.3	2,599.9	999.8	941.0	58.72	17.025 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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - BUCK 20 FEDERAL #2H (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 8166-MWD - OWSG R1, 9092-MWD - OWSG R1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,300.0	9,100.1	11,531.0	9,227.9	37.4	45.1	3.03	-6.8	2,592.7	992.7	911.5	81.15	12.233	
9,324.5	9,124.6	11,529.8	9,227.9	37.4	45.1	91.96	-5.6	2,592.8	989.8	908.4	81.46	12.150	
9,400.0	9,200.1	11,526.2	9,228.1	37.4	45.1	91.75	-2.1	2,592.9	984.9	902.7	82.18	11.984	
9,427.1	9,227.2	11,525.0	9,228.2	37.4	45.0	91.68	-0.8	2,592.9	984.5	902.1	82.36	11.954 CC, ES	
9,500.0	9,300.1	11,521.6	9,228.3	37.4	45.0	91.48	2.6	2,593.0	987.2	904.6	82.61	11.950 SF	
9,600.0	9,400.1	11,517.0	9,228.5	37.4	44.9	91.21	7.2	2,593.1	999.5	917.1	82.42	12.127	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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)	Minimum Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-8.49	268.1	-40.0	271.1	264.1	6.98	38.833	
100.0	100.0	97.0	97.0	3.1	3.1	-8.49	268.1	-40.0	271.1	263.8	7.22	37.537	
200.0	200.0	197.0	197.0	3.2	3.2	-8.49	268.1	-40.0	271.1	263.6	7.47	36.289	
300.0	300.0	297.0	297.0	3.4	3.4	-8.49	268.1	-40.0	271.1	263.4	7.71	35.142	
400.0	400.0	397.0	397.0	3.5	3.5	-8.49	268.1	-40.0	271.1	263.1	7.96	34.073	
500.0	500.0	497.0	497.0	3.6	3.6	-8.49	268.1	-40.0	271.1	262.9	8.20	33.074	
600.0	600.0	597.0	597.0	3.7	3.7	-8.49	268.1	-40.0	271.1	262.6	8.43	32.137	
700.0	700.0	697.0	697.0	3.9	3.9	-8.49	268.1	-40.0	271.1	262.4	8.67	31.256	
800.0	800.0	797.0	797.0	4.0	4.0	-8.49	268.1	-40.0	271.1	262.2	8.91	30.426	
900.0	900.0	897.0	897.0	4.1	4.1	-8.49	268.1	-40.0	271.1	261.9	9.14	29.643	
1,000.0	1,000.0	997.0	997.0	4.2	4.2	-8.49	268.1	-40.0	271.1	261.7	9.38	28.901	
1,100.0	1,100.0	1,097.0	1,097.0	4.3	4.3	-8.49	268.1	-40.0	271.1	261.5	9.61	28.199	
1,200.0	1,200.0	1,197.0	1,197.0	4.5	4.5	-8.49	268.1	-40.0	271.1	261.2	9.85	27.531	
1,300.0	1,300.0	1,297.0	1,297.0	4.6	4.6	-8.49	268.1	-40.0	271.1	261.0	10.08	26.897	
1,400.0	1,400.0	1,397.0	1,397.0	4.7	4.7	-8.49	268.1	-40.0	271.1	260.8	10.31	26.293	
1,500.0	1,500.0	1,497.0	1,497.0	4.8	4.8	-8.49	268.1	-40.0	271.1	260.5	10.54	25.717 CC, ES	
1,600.0	1,600.0	1,596.0	1,596.0	4.9	4.9	-98.19	268.0	-41.6	271.5	261.1	10.40	26.115	
1,700.0	1,699.8	1,694.3	1,694.2	5.1	5.0	-100.26	267.7	-46.6	273.0	262.3	10.68	25.551	
1,800.0	1,799.5	1,791.2	1,790.7	5.3	5.2	-103.59	267.3	-54.8	276.3	265.3	10.97	25.175	
1,900.0	1,898.7	1,886.1	1,884.9	5.6	5.5	-107.96	266.7	-66.0	282.5	271.2	11.28	25.044 SF	
2,000.0	1,997.5	1,978.3	1,976.0	5.9	5.8	-113.04	266.0	-79.8	293.1	281.5	11.63	25.204	
2,100.0	2,095.6	2,067.3	2,063.6	6.3	6.1	-118.44	265.2	-96.0	309.4	297.3	12.04	25.685	
2,200.0	2,193.1	2,156.3	2,150.7	6.6	6.4	-123.98	264.2	-114.2	332.1	319.6	12.54	26.474	
2,300.0	2,289.6	2,245.4	2,237.8	7.0	6.7	-129.18	263.2	-132.7	360.6	347.5	13.13	27.474	
2,400.0	2,385.8	2,333.7	2,324.2	7.3	7.0	-134.23	262.3	-151.1	393.5	379.7	13.73	28.647	
2,500.0	2,481.9	2,422.0	2,410.6	7.7	7.3	-138.56	261.3	-169.4	428.9	414.6	14.38	29.833	
2,600.0	2,578.0	2,510.3	2,496.9	8.0	7.6	-142.27	260.3	-187.7	466.5	451.4	15.05	30.990	
2,700.0	2,674.1	2,598.6	2,583.3	8.4	7.9	-145.47	259.4	-206.1	505.5	489.8	15.75	32.100	
2,800.0	2,770.3	2,686.9	2,669.7	8.8	8.2	-148.23	258.4	-224.4	545.9	529.4	16.47	33.150	
2,900.0	2,866.4	2,775.2	2,756.0	9.2	8.5	-150.63	257.5	-242.7	587.2	570.0	17.20	34.136	
3,000.0	2,962.5	2,863.5	2,842.4	9.6	8.9	-152.74	256.5	-261.1	629.3	611.3	17.95	35.058	
3,100.0	3,058.7	2,951.8	2,928.8	10.1	9.2	-154.58	255.5	-279.4	672.0	653.3	18.71	35.918	
3,200.0	3,154.8	3,040.1	3,015.1	10.5	9.6	-156.22	254.6	-297.7	715.3	695.8	19.48	36.717	
3,300.0	3,250.9	3,128.4	3,101.5	10.9	9.9	-157.67	253.6	-316.1	759.0	738.7	20.26	37.460	
3,400.0	3,347.0	3,216.7	3,187.9	11.4	10.3	-158.97	252.7	-334.4	803.1	782.0	21.05	38.150	
3,500.0	3,443.2	3,305.0	3,274.2	11.8	10.7	-160.14	251.7	-352.7	847.4	825.6	21.85	38.792	
3,600.0	3,539.3	3,393.3	3,360.6	12.3	11.0	-161.19	250.7	-371.1	892.1	869.4	22.65	39.388	
3,700.0	3,635.4	3,481.5	3,447.0	12.7	11.4	-162.15	249.8	-389.4	936.9	913.5	23.46	39.943	
3,800.0	3,731.5	3,569.8	3,533.4	13.2	11.8	-163.02	248.8	-407.7	982.0	957.7	24.27	40.460	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	-3.40	251.4	-14.9	251.8	244.8	6.98	36.075		
100.0	100.0	97.0	97.0	3.1	3.1	-3.40	251.4	-14.9	251.8	244.6	7.22	34.869		
200.0	200.0	197.0	197.0	3.2	3.2	-3.40	251.4	-14.9	251.8	244.3	7.47	33.709		
300.0	300.0	297.0	297.0	3.4	3.4	-3.40	251.4	-14.9	251.8	244.1	7.71	32.642		
400.0	400.0	397.0	397.0	3.5	3.5	-3.40	251.4	-14.9	251.8	243.8	7.96	31.648		
500.0	500.0	497.0	497.0	3.6	3.6	-3.40	251.4	-14.9	251.8	243.6	8.20	30.718		
600.0	600.0	597.0	597.0	3.7	3.7	-3.40	251.4	-14.9	251.8	243.4	8.44	29.846		
700.0	700.0	697.0	697.0	3.9	3.9	-3.40	251.4	-14.9	251.8	243.1	8.68	29.026		
800.0	800.0	797.0	797.0	4.0	4.0	-3.40	251.4	-14.9	251.8	242.9	8.91	28.253		
900.0	900.0	897.0	897.0	4.1	4.1	-3.40	251.4	-14.9	251.8	242.7	9.15	27.523		
1,000.0	1,000.0	997.0	997.0	4.2	4.2	-3.40	251.4	-14.9	251.8	242.4	9.38	26.832		
1,100.0	1,100.0	1,097.0	1,097.0	4.3	4.3	-3.40	251.4	-14.9	251.8	242.2	9.62	26.178		
1,200.0	1,200.0	1,197.0	1,197.0	4.5	4.5	-3.40	251.4	-14.9	251.8	242.0	9.85	25.556		
1,300.0	1,300.0	1,297.0	1,297.0	4.6	4.6	-3.40	251.4	-14.9	251.8	241.7	10.09	24.965		
1,400.0	1,400.0	1,397.0	1,397.0	4.7	4.7	-3.40	251.4	-14.9	251.8	241.5	10.32	24.403		
1,500.0	1,500.0	1,497.0	1,497.0	4.8	4.8	-3.40	251.4	-14.9	251.8	241.3	10.55	23.866		
1,600.0	1,600.0	1,597.6	1,597.6	4.9	4.9	-93.18	251.1	-16.6	251.8	241.4	10.41	24.194		
1,617.1	1,617.0	1,614.7	1,614.7	4.9	4.9	-93.47	251.0	-17.2	251.8	241.3	10.45	24.082 CC		
1,700.0	1,699.8	1,697.4	1,697.3	5.1	5.1	-95.52	250.4	-21.7	251.9	241.2	10.69	23.559 ES		
1,800.0	1,799.5	1,795.9	1,795.3	5.3	5.3	-99.33	249.2	-30.0	253.1	242.2	10.98	23.063		
1,900.0	1,898.7	1,892.2	1,891.0	5.6	5.6	-104.40	247.6	-41.5	256.7	245.5	11.27	22.789 SF		
2,000.0	1,997.5	1,985.8	1,983.5	5.9	5.9	-110.36	245.6	-55.6	264.4	252.8	11.59	22.811		
2,100.0	2,095.6	2,078.9	2,075.1	6.3	6.1	-116.78	243.4	-71.6	277.5	265.5	11.99	23.150		
2,200.0	2,193.1	2,170.9	2,165.8	6.6	6.4	-122.98	241.2	-87.4	296.3	283.8	12.47	23.757		
2,300.0	2,289.6	2,261.6	2,255.1	7.0	6.7	-128.72	239.0	-103.0	320.9	307.8	13.05	24.596		
2,400.0	2,385.8	2,351.5	2,343.6	7.3	6.9	-134.20	236.8	-118.5	350.0	336.4	13.66	25.631		
2,500.0	2,481.9	2,441.4	2,432.2	7.7	7.2	-138.90	234.6	-133.9	382.0	367.7	14.30	26.701		
2,600.0	2,578.0	2,531.4	2,520.7	8.0	7.5	-142.91	232.5	-149.4	416.1	401.1	14.99	27.764		
2,700.0	2,674.1	2,621.3	2,609.3	8.4	7.8	-146.35	230.3	-164.9	451.8	436.1	15.69	28.797		
2,800.0	2,770.3	2,711.2	2,697.8	8.8	8.2	-149.30	228.1	-180.3	488.9	472.5	16.41	29.784		
2,900.0	2,866.4	2,801.1	2,786.4	9.2	8.5	-151.86	225.9	-195.8	527.0	509.8	17.15	30.720		
3,000.0	2,962.5	2,891.0	2,874.9	9.6	8.8	-154.09	223.8	-211.2	565.9	548.0	17.91	31.600		
3,100.0	3,058.7	2,980.9	2,963.5	10.1	9.2	-156.04	221.6	-226.7	605.5	586.8	18.67	32.424		
3,200.0	3,154.8	3,070.8	3,052.0	10.5	9.5	-157.75	219.4	-242.2	645.6	626.1	19.45	33.195		
3,300.0	3,250.9	3,160.8	3,140.6	10.9	9.9	-159.28	217.3	-257.6	686.2	665.9	20.23	33.915		
3,400.0	3,347.0	3,250.7	3,229.1	11.4	10.2	-160.63	215.1	-273.1	727.1	706.1	21.02	34.586		
3,500.0	3,443.2	3,340.6	3,317.7	11.8	10.6	-161.85	212.9	-288.6	768.3	746.5	21.82	35.212		
3,600.0	3,539.3	3,430.5	3,406.2	12.3	11.0	-162.94	210.7	-304.0	809.8	787.2	22.62	35.796		
3,700.0	3,635.4	3,520.4	3,494.8	12.7	11.3	-163.93	208.6	-319.5	851.6	828.1	23.43	36.341		
3,800.0	3,731.5	3,610.3	3,583.3	13.2	11.7	-164.83	206.4	-334.9	893.5	869.3	24.25	36.850		
3,900.0	3,827.7	3,700.2	3,671.9	13.6	12.1	-165.65	204.2	-350.4	935.6	910.5	25.07	37.327		
4,000.0	3,923.8	3,790.2	3,760.4	14.1	12.4	-166.40	202.0	-365.9	977.9	952.0	25.89	37.773		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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
0.0	0.0	0.0	0.0	3.0	3.0	2.51	234.6	10.3	234.8	227.9	6.98	33.641	
100.0	100.0	98.0	98.0	3.1	3.1	2.51	234.6	10.3	234.8	227.6	7.22	32.509	
200.0	200.0	198.0	198.0	3.2	3.2	2.51	234.6	10.3	234.8	227.4	7.47	31.431	
300.0	300.0	298.0	298.0	3.4	3.4	2.51	234.6	10.3	234.8	227.1	7.72	30.437	
400.0	400.0	398.0	398.0	3.5	3.5	2.51	234.6	10.3	234.8	226.9	7.96	29.510	
500.0	500.0	498.0	498.0	3.6	3.6	2.51	234.6	10.3	234.8	226.6	8.20	28.643	
600.0	600.0	598.0	598.0	3.7	3.7	2.51	234.6	10.3	234.8	226.4	8.44	27.830	
700.0	700.0	698.0	698.0	3.9	3.9	2.51	234.6	10.3	234.8	226.2	8.68	27.065	
800.0	800.0	798.0	798.0	4.0	4.0	2.51	234.6	10.3	234.8	225.9	8.91	26.344	
900.0	900.0	898.0	898.0	4.1	4.1	2.51	234.6	10.3	234.8	225.7	9.15	25.664	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	2.51	234.6	10.3	234.8	225.4	9.39	25.020	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	2.51	234.6	10.3	234.8	225.2	9.62	24.409	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	2.51	234.6	10.3	234.8	225.0	9.85	23.830	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	2.51	234.6	10.3	234.8	224.7	10.09	23.279	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	2.51	234.6	10.3	234.8	224.5	10.32	22.754	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	2.51	234.6	10.3	234.8	224.3	10.55	22.253	
1,600.0	1,600.0	1,602.5	1,602.5	4.9	4.9	-87.34	233.7	8.7	233.8	223.3	10.44	22.385	
1,700.0	1,699.8	1,706.4	1,706.2	5.1	5.2	-89.91	230.8	3.9	230.8	220.1	10.76	21.458	
1,800.0	1,799.5	1,806.8	1,806.2	5.3	5.3	-94.01	226.4	-3.3	227.1	216.2	10.96	20.720	
1,900.0	1,898.7	1,904.7	1,903.8	5.6	5.5	-99.02	222.1	-10.6	225.0	213.8	11.24	20.020	
1,934.9	1,933.3	1,938.8	1,937.7	5.7	5.5	-100.97	220.5	-13.2	224.8	213.5	11.34	19.834 CC, ES	
2,000.0	1,997.5	2,001.9	2,000.6	5.9	5.7	-104.81	217.7	-17.9	225.5	214.0	11.52	19.578	
2,100.0	2,095.6	2,098.3	2,096.6	6.3	5.9	-111.16	213.4	-25.1	229.7	217.9	11.83	19.422 SF	
2,200.0	2,193.1	2,193.6	2,191.6	6.6	6.1	-117.78	209.1	-32.2	238.4	226.3	12.19	19.557	
2,300.0	2,289.6	2,287.9	2,285.5	7.0	6.4	-124.34	204.9	-39.3	252.5	239.8	12.64	19.968	
2,400.0	2,385.8	2,381.6	2,378.8	7.3	6.7	-130.64	200.6	-46.3	271.0	257.9	13.15	20.610	
2,500.0	2,481.9	2,475.2	2,472.2	7.7	6.9	-136.15	196.4	-53.3	292.6	278.9	13.71	21.336	
2,600.0	2,578.0	2,568.9	2,565.5	8.0	7.2	-140.92	192.2	-60.3	316.6	302.3	14.33	22.100	
2,700.0	2,674.1	2,662.6	2,658.8	8.4	7.5	-145.03	188.0	-67.3	342.5	327.5	14.95	22.914	
2,800.0	2,770.3	2,759.2	2,755.1	8.8	7.8	-148.58	184.1	-73.8	369.5	353.9	15.61	23.677	
2,900.0	2,866.4	2,857.1	2,852.8	9.2	8.1	-151.48	180.9	-79.1	396.8	380.5	16.31	24.334	
3,000.0	2,962.5	2,956.0	2,951.6	9.6	8.3	-153.84	178.6	-83.0	424.0	407.0	17.01	24.920	
3,100.0	3,058.7	3,055.8	3,051.4	10.1	8.6	-155.74	177.1	-85.4	450.7	433.0	17.72	25.439	
3,200.0	3,154.8	3,156.6	3,152.2	10.5	8.8	-157.27	176.6	-86.3	476.8	458.4	18.38	25.945	
3,300.0	3,250.9	3,253.3	3,248.9	10.9	8.9	-158.48	176.6	-86.3	502.5	483.5	18.96	26.496	
3,400.0	3,347.0	3,349.5	3,345.0	11.4	8.9	-159.58	176.6	-86.3	528.3	508.7	19.57	26.993	
3,500.0	3,443.2	3,445.6	3,441.2	11.8	9.0	-160.57	176.6	-86.3	554.3	534.2	20.19	27.462	
3,600.0	3,539.3	3,541.7	3,537.3	12.3	9.1	-161.47	176.6	-86.3	580.5	559.7	20.80	27.904	
3,700.0	3,635.4	3,637.9	3,633.4	12.7	9.2	-162.29	176.6	-86.3	606.8	585.4	21.43	28.321	
3,800.0	3,731.5	3,734.0	3,729.5	13.2	9.2	-163.05	176.6	-86.3	633.2	611.2	22.05	28.713	
3,900.0	3,827.7	3,830.1	3,825.7	13.6	9.3	-163.74	176.6	-86.3	659.7	637.0	22.68	29.083	
4,000.0	3,923.8	3,926.2	3,921.8	14.1	9.4	-164.39	176.6	-86.3	686.3	663.0	23.32	29.432	
4,100.0	4,019.9	4,022.4	4,017.9	14.6	9.5	-164.98	176.6	-86.3	712.9	689.0	23.96	29.761	
4,200.0	4,116.0	4,118.5	4,114.0	15.0	9.5	-165.53	176.6	-86.3	739.7	715.1	24.60	30.071	
4,300.0	4,212.2	4,214.6	4,210.2	15.5	9.6	-166.05	176.6	-86.3	766.5	741.2	25.24	30.364	
4,400.0	4,308.3	4,310.7	4,306.3	16.0	9.7	-166.53	176.6	-86.3	793.3	767.4	25.89	30.642	
4,500.0	4,404.4	4,406.9	4,402.4	16.4	9.8	-166.97	176.6	-86.3	820.2	793.6	26.54	30.904	
4,600.0	4,500.5	4,503.0	4,498.5	16.9	9.8	-167.39	176.6	-86.3	847.1	819.9	27.19	31.152	
4,700.0	4,596.7	4,599.1	4,594.7	17.4	9.9	-167.79	176.6	-86.3	874.1	846.2	27.85	31.387	
4,800.0	4,692.8	4,695.2	4,690.8	17.9	10.0	-168.16	176.6	-86.3	901.1	872.6	28.51	31.610	
4,900.0	4,788.9	4,791.4	4,786.9	18.4	10.1	-168.51	176.6	-86.3	928.1	898.9	29.17	31.821	
5,000.0	4,885.0	4,887.5	4,883.0	18.8	10.1	-168.83	176.6	-86.3	955.2	925.3	29.83	32.022	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Offset Wellbore Centre		Rule Assigned:				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.0	4,981.2	4,983.6	4,979.2	19.3	10.2	-169.15	176.6	-86.3	982.3	951.8	30.49	32.212			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	9.24	217.7	35.4	220.6	213.6	6.98	31.604	
100.0	100.0	98.0	98.0	3.1	3.1	9.24	217.7	35.4	220.6	213.4	7.22	30.540	
200.0	200.0	198.0	198.0	3.2	3.2	9.24	217.7	35.4	220.6	213.1	7.47	29.529	
300.0	300.0	298.0	298.0	3.4	3.4	9.24	217.7	35.4	220.6	212.9	7.71	28.597	
400.0	400.0	398.0	398.0	3.5	3.5	9.24	217.7	35.4	220.6	212.7	7.96	27.728	
500.0	500.0	498.0	498.0	3.6	3.6	9.24	217.7	35.4	220.6	212.4	8.20	26.915	
600.0	600.0	598.0	598.0	3.7	3.7	9.24	217.7	35.4	220.6	212.2	8.44	26.153	
700.0	700.0	698.0	698.0	3.9	3.9	9.24	217.7	35.4	220.6	211.9	8.67	25.437	
800.0	800.0	798.0	798.0	4.0	4.0	9.24	217.7	35.4	220.6	211.7	8.91	24.762	
900.0	900.0	898.0	898.0	4.1	4.1	9.24	217.7	35.4	220.6	211.5	9.14	24.125	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	9.24	217.7	35.4	220.6	211.2	9.38	23.522	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	9.24	217.7	35.4	220.6	211.0	9.61	22.950	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	9.24	217.7	35.4	220.6	210.8	9.85	22.408	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	9.24	217.7	35.4	220.6	210.5	10.08	21.892	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	9.24	217.7	35.4	220.6	210.3	10.31	21.401	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	9.24	217.7	35.4	220.6	210.1	10.54	20.933 CC, ES	
1,600.0	1,600.0	1,595.9	1,595.9	4.9	4.9	-79.80	217.9	37.0	220.8	210.4	10.40	21.222	
1,700.0	1,699.8	1,693.8	1,693.7	5.1	5.1	-79.86	218.5	41.9	221.2	210.5	10.70	20.676	
1,800.0	1,799.5	1,791.7	1,791.2	5.3	5.3	-79.96	219.6	50.1	222.1	211.1	11.00	20.191	
1,900.0	1,898.7	1,891.5	1,890.5	5.6	5.5	-80.45	220.8	60.5	222.8	211.5	11.29	19.732	
2,000.0	1,997.5	1,991.4	1,989.8	5.9	5.7	-81.83	222.1	70.8	223.1	211.5	11.58	19.259	
2,100.0	2,095.6	2,091.0	2,088.8	6.3	6.0	-84.09	223.4	81.2	223.1	211.2	11.87	18.796	
2,200.0	2,193.1	2,190.2	2,187.5	6.6	6.2	-87.22	224.6	91.5	223.3	211.1	12.15	18.372	
2,300.0	2,289.6	2,289.0	2,285.7	7.0	6.5	-91.18	225.9	101.7	224.2	211.7	12.44	18.013	
2,400.0	2,385.8	2,387.4	2,383.7	7.3	6.8	-95.52	227.1	111.9	226.3	213.5	12.76	17.734	
2,500.0	2,481.9	2,485.9	2,481.6	7.7	7.1	-99.76	228.4	122.1	229.7	216.6	13.11	17.520	
2,600.0	2,578.0	2,584.4	2,579.5	8.0	7.4	-103.85	229.7	132.4	234.5	220.9	13.51	17.350	
2,700.0	2,674.1	2,682.8	2,677.4	8.4	7.7	-107.77	230.9	142.6	240.3	226.4	13.96	17.211	
2,800.0	2,770.3	2,781.3	2,775.4	8.8	8.0	-111.50	232.2	152.8	247.3	232.8	14.47	17.089	
2,900.0	2,866.4	2,879.8	2,873.3	9.2	8.4	-115.00	233.4	163.0	255.3	240.3	15.03	16.980	
3,000.0	2,962.5	2,978.2	2,971.2	9.6	8.7	-118.29	234.7	173.2	264.2	248.5	15.65	16.880	
3,100.0	3,058.7	3,076.7	3,069.1	10.1	9.1	-121.36	235.9	183.4	273.9	257.6	16.32	16.788	
3,200.0	3,154.8	3,175.2	3,167.1	10.5	9.4	-124.22	237.2	193.7	284.4	267.3	17.02	16.704	
3,300.0	3,250.9	3,273.6	3,265.0	10.9	9.8	-126.87	238.4	203.9	295.5	277.7	17.77	16.629	
3,400.0	3,347.0	3,372.1	3,362.9	11.4	10.1	-129.33	239.7	214.1	307.2	288.6	18.55	16.563	
3,500.0	3,443.2	3,470.5	3,460.8	11.8	10.5	-131.60	240.9	224.3	319.4	300.1	19.35	16.508	
3,600.0	3,539.3	3,569.0	3,558.8	12.3	10.8	-133.71	242.2	234.5	332.1	312.0	20.18	16.462	
3,700.0	3,635.4	3,667.5	3,656.7	12.7	11.2	-135.66	243.5	244.7	345.2	324.2	21.02	16.426	
3,800.0	3,731.5	3,765.9	3,754.6	13.2	11.6	-137.47	244.7	255.0	358.7	336.9	21.88	16.398	
3,900.0	3,827.7	3,864.4	3,852.5	13.6	11.9	-139.15	246.0	265.2	372.6	349.8	22.75	16.379	
4,000.0	3,923.8	3,962.9	3,950.5	14.1	12.3	-140.71	247.2	275.4	386.7	363.0	23.62	16.368	
4,100.0	4,019.9	4,061.3	4,048.4	14.6	12.7	-142.16	248.5	285.6	401.0	376.5	24.51	16.363 SF	
4,200.0	4,116.0	4,157.8	4,144.4	15.0	13.0	-143.49	249.7	295.5	415.7	390.4	25.38	16.384	
4,300.0	4,212.2	4,250.9	4,237.0	15.5	13.4	-144.80	250.7	303.8	431.6	405.4	26.24	16.450	
4,400.0	4,308.3	4,343.3	4,329.2	16.0	13.7	-146.13	251.5	310.6	449.0	421.9	27.11	16.561	
4,500.0	4,404.4	4,435.1	4,420.9	16.4	14.0	-147.48	252.2	315.9	467.9	439.9	27.98	16.721	
4,600.0	4,500.5	4,526.2	4,511.9	16.9	14.3	-148.82	252.7	319.7	488.2	459.4	28.84	16.931	
4,700.0	4,596.7	4,616.7	4,602.3	17.4	14.5	-150.15	252.9	322.0	510.1	480.5	29.67	17.193	
4,800.0	4,692.8	4,706.3	4,692.0	17.9	14.7	-151.45	253.1	323.0	533.6	503.1	30.46	17.516	
4,900.0	4,788.9	4,801.3	4,786.9	18.4	14.8	-152.78	253.1	323.0	558.1	526.9	31.19	17.897	
5,000.0	4,885.0	4,897.4	4,883.0	18.8	14.8	-154.01	253.1	323.0	583.0	551.0	31.91	18.269	
5,100.0	4,981.2	4,993.5	4,979.2	19.3	14.9	-155.14	253.1	323.0	608.0	575.4	32.62	18.637	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,077.3	5,089.7	5,075.3	19.8	14.9	-156.18	253.1	323.0	633.3	600.0	33.33	19.001		
5,300.0	5,173.4	5,185.8	5,171.4	20.3	15.0	-157.14	253.1	323.0	658.8	624.7	34.03	19.359		
5,400.0	5,269.6	5,281.9	5,267.6	20.8	15.0	-158.04	253.1	323.0	684.4	649.7	34.72	19.711		
5,500.0	5,365.7	5,378.0	5,363.7	21.3	15.1	-158.86	253.1	323.0	710.2	674.8	35.41	20.056		
5,600.0	5,461.8	5,474.2	5,459.8	21.8	15.1	-159.63	253.1	323.0	736.1	700.0	36.09	20.394		
5,700.0	5,557.9	5,570.3	5,555.9	22.3	15.2	-160.35	253.1	323.0	762.1	725.3	36.77	20.724		
5,800.0	5,654.1	5,666.4	5,652.1	22.7	15.2	-161.02	253.1	323.0	788.2	750.7	37.45	21.047		
5,900.0	5,750.2	5,762.5	5,748.2	23.2	15.3	-161.65	253.1	323.0	814.4	776.3	38.13	21.361		
6,000.0	5,846.3	5,858.7	5,844.3	23.7	15.3	-162.24	253.1	323.0	840.7	801.9	38.80	21.668		
6,100.0	5,942.4	5,954.8	5,940.4	24.2	15.4	-162.79	253.1	323.0	867.1	827.6	39.47	21.968		
6,124.5	5,966.0	5,978.4	5,964.0	24.3	15.4	-162.92	253.1	323.0	873.6	833.9	39.63	22.043		
6,200.0	6,038.6	6,051.0	6,036.6	24.7	15.5	-163.34	253.1	323.0	893.3	853.2	40.13	22.261		
6,300.0	6,135.1	6,147.4	6,133.1	25.2	15.5	-163.85	253.1	323.0	918.8	878.0	40.79	22.524		
6,400.0	6,231.7	6,244.1	6,229.7	25.7	15.6	-164.32	253.1	323.0	943.6	902.1	41.45	22.763		
6,500.0	6,328.6	6,340.9	6,326.6	26.2	15.6	-164.75	253.1	323.0	967.5	925.4	42.11	22.979		
6,600.0	6,425.7	6,438.0	6,423.7	26.6	15.7	-165.14	253.1	323.0	990.7	948.0	42.75	23.173		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	16.76	201.0	60.5	209.9	202.9	6.98	30.070	
100.0	100.0	99.0	99.0	3.1	3.1	16.76	201.0	60.5	209.9	202.7	7.23	29.051	
200.0	200.0	199.0	199.0	3.2	3.2	16.76	201.0	60.5	209.9	202.4	7.47	28.096	
300.0	300.0	299.0	299.0	3.4	3.4	16.76	201.0	60.5	209.9	202.2	7.71	27.212	
400.0	400.0	399.0	399.0	3.5	3.5	16.76	201.0	60.5	209.9	202.0	7.95	26.390	
500.0	500.0	499.0	499.0	3.6	3.6	16.76	201.0	60.5	209.9	201.7	8.19	25.622	
600.0	600.0	599.0	599.0	3.7	3.7	16.76	201.0	60.5	209.9	201.5	8.43	24.902	
700.0	700.0	699.0	699.0	3.9	3.9	16.76	201.0	60.5	209.9	201.3	8.67	24.225	
800.0	800.0	799.0	799.0	4.0	4.0	16.76	201.0	60.5	209.9	201.0	8.90	23.588	
900.0	900.0	899.0	899.0	4.1	4.1	16.76	201.0	60.5	209.9	200.8	9.13	22.987	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	16.76	201.0	60.5	209.9	200.6	9.36	22.419	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	16.76	201.0	60.5	209.9	200.3	9.59	21.880	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	16.76	201.0	60.5	209.9	200.1	9.82	21.369	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	16.76	201.0	60.5	209.9	199.9	10.05	20.883	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	16.76	201.0	60.5	209.9	199.6	10.28	20.420	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	16.76	201.0	60.5	209.9	199.4	10.51	19.979 CC	
1,600.0	1,600.0	1,596.4	1,596.4	4.9	4.9	-72.27	201.1	62.1	210.0	199.6	10.38	20.232	
1,700.0	1,699.8	1,693.7	1,693.6	5.1	5.1	-72.34	201.6	67.1	210.3	199.6	10.69	19.668	
1,800.0	1,799.5	1,791.1	1,790.6	5.3	5.3	-72.45	202.3	75.3	210.8	199.8	11.00	19.152	
1,900.0	1,898.7	1,888.5	1,887.3	5.6	5.5	-72.60	203.3	86.7	211.4	200.1	11.32	18.679	
2,000.0	1,997.5	1,985.9	1,983.5	5.9	5.9	-72.79	204.6	101.5	212.3	200.7	11.64	18.240	
2,100.0	2,095.6	2,085.5	2,081.6	6.3	6.1	-73.34	206.1	118.7	212.9	201.0	11.96	17.797	
2,200.0	2,193.1	2,185.3	2,180.0	6.6	6.4	-74.80	207.6	135.9	212.6	200.4	12.29	17.308	
2,300.0	2,289.6	2,284.9	2,278.0	7.0	6.7	-77.18	209.1	153.2	211.7	199.1	12.60	16.803	
2,400.0	2,385.8	2,384.3	2,376.0	7.3	7.0	-80.02	210.6	170.4	210.8	197.9	12.90	16.337	
2,500.0	2,481.9	2,483.8	2,473.9	7.7	7.4	-82.88	212.1	187.6	210.4	197.2	13.21	15.926	
2,518.9	2,500.0	2,502.5	2,492.4	7.8	7.4	-83.42	212.4	190.8	210.4	197.2	13.27	15.854	
2,600.0	2,578.0	2,583.2	2,571.8	8.0	7.7	-85.73	213.6	204.8	210.6	197.1	13.53	15.563 ES	
2,700.0	2,674.1	2,682.7	2,669.8	8.4	8.1	-88.58	215.1	222.0	211.3	197.4	13.87	15.239	
2,800.0	2,770.3	2,782.1	2,767.7	8.8	8.4	-91.40	216.6	239.2	212.5	198.3	14.22	14.947	
2,900.0	2,866.4	2,881.6	2,865.6	9.2	8.8	-94.19	218.1	256.4	214.2	199.6	14.60	14.678	
3,000.0	2,962.5	2,981.0	2,963.6	9.6	9.2	-96.92	219.6	273.6	216.5	201.5	15.00	14.427	
3,100.0	3,058.7	3,080.4	3,061.5	10.1	9.6	-99.59	221.1	290.8	219.2	203.7	15.45	14.188	
3,200.0	3,154.8	3,179.9	3,159.4	10.5	10.0	-102.19	222.6	308.0	222.4	206.5	15.93	13.956	
3,300.0	3,250.9	3,279.3	3,257.3	10.9	10.3	-104.72	224.2	325.2	226.0	209.6	16.46	13.731	
3,400.0	3,347.0	3,378.8	3,355.3	11.4	10.7	-107.16	225.7	342.4	230.1	213.1	17.03	13.509	
3,500.0	3,443.2	3,478.2	3,453.2	11.8	11.2	-109.51	227.2	359.6	234.6	216.9	17.65	13.292	
3,600.0	3,539.3	3,577.6	3,551.1	12.3	11.6	-111.77	228.7	376.8	239.4	221.1	18.30	13.080	
3,700.0	3,635.4	3,677.1	3,649.1	12.7	12.0	-113.94	230.2	394.0	244.6	225.6	19.00	12.873	
3,800.0	3,731.5	3,776.5	3,747.0	13.2	12.4	-116.02	231.7	411.2	250.2	230.4	19.74	12.674	
3,900.0	3,827.7	3,876.0	3,844.9	13.6	12.8	-118.00	233.2	428.4	256.1	235.5	20.51	12.484	
4,000.0	3,923.8	3,975.4	3,942.9	14.1	13.2	-119.89	234.7	445.6	262.2	240.9	21.31	12.302	
4,100.0	4,019.9	4,074.8	4,040.8	14.6	13.6	-121.70	236.2	462.8	268.7	246.5	22.15	12.131	
4,200.0	4,116.0	4,174.3	4,138.7	15.0	14.1	-123.42	237.7	480.0	275.3	252.3	23.00	11.970	
4,300.0	4,212.2	4,273.7	4,236.6	15.5	14.5	-125.06	239.2	497.2	282.3	258.4	23.88	11.820	
4,400.0	4,308.3	4,373.2	4,334.6	16.0	14.9	-126.61	240.7	514.4	289.4	264.6	24.78	11.680	
4,500.0	4,404.4	4,472.6	4,432.5	16.4	15.4	-128.10	242.2	531.6	296.8	271.1	25.69	11.550	
4,600.0	4,500.5	4,572.0	4,530.4	16.9	15.8	-129.51	243.7	548.8	304.3	277.7	26.62	11.431	
4,700.0	4,596.7	4,670.9	4,627.8	17.4	16.2	-130.85	245.2	565.9	312.1	284.5	27.54	11.331	
4,800.0	4,692.8	4,768.6	4,724.1	17.9	16.6	-132.21	246.6	582.0	320.4	291.9	28.49	11.244	
4,900.0	4,788.9	4,866.1	4,820.4	18.4	17.0	-133.60	248.0	597.4	329.5	300.0	29.48	11.175	
5,000.0	4,885.0	4,963.4	4,916.6	18.8	17.4	-135.03	249.2	611.9	339.3	308.8	30.50	11.125	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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
5,100.0	4,981.2	5,060.5	5,012.7	19.3	17.9	-136.47	250.4	625.5	349.9	318.3	31.53	11.097	
5,200.0	5,077.3	5,157.4	5,108.7	19.8	18.3	-137.93	251.6	638.3	361.2	328.7	32.57	11.090 SF	
5,300.0	5,173.4	5,254.0	5,204.6	20.3	18.6	-139.37	252.6	650.3	373.4	339.8	33.63	11.104	
5,400.0	5,269.6	5,350.3	5,300.3	20.8	19.0	-140.81	253.6	661.4	386.5	351.8	34.69	11.140	
5,500.0	5,365.7	5,446.4	5,395.8	21.3	19.4	-142.23	254.5	671.8	400.4	364.6	35.76	11.197	
5,600.0	5,461.8	5,542.2	5,491.1	21.8	19.8	-143.62	255.3	681.2	415.2	378.4	36.82	11.275	
5,700.0	5,557.9	5,637.7	5,586.2	22.3	20.2	-144.99	256.1	689.9	430.8	393.0	37.88	11.373	
5,800.0	5,654.1	5,732.9	5,681.1	22.7	20.5	-146.31	256.7	697.7	447.4	408.5	38.93	11.492	
5,900.0	5,750.2	5,827.7	5,775.7	23.2	20.9	-147.60	257.4	704.8	464.8	424.9	39.97	11.630	
6,000.0	5,846.3	5,922.3	5,870.0	23.7	21.2	-148.85	257.9	711.0	483.2	442.2	40.99	11.787	
6,100.0	5,942.4	6,016.5	5,964.1	24.2	21.5	-150.06	258.4	716.5	502.4	460.4	41.99	11.963	
6,124.5	5,966.0	6,039.5	5,987.1	24.3	21.6	-150.35	258.5	717.7	507.2	465.0	42.23	12.011	
6,200.0	6,038.6	6,110.4	6,057.9	24.7	21.9	-151.25	258.8	721.1	522.3	479.3	42.96	12.157	
6,300.0	6,135.1	6,204.1	6,151.5	25.2	22.2	-152.36	259.1	725.0	542.4	498.4	43.91	12.351	
6,400.0	6,231.7	6,297.7	6,245.0	25.7	22.5	-153.40	259.4	728.1	562.5	517.7	44.82	12.550	
6,500.0	6,328.6	6,391.1	6,338.4	26.2	22.7	-154.37	259.6	730.5	582.8	537.1	45.70	12.753	
6,600.0	6,425.7	6,484.3	6,431.6	26.6	23.0	-155.28	259.8	732.1	603.1	556.6	46.53	12.960	
6,700.0	6,522.9	6,577.4	6,524.7	27.1	23.2	-156.13	259.8	732.9	623.5	576.2	47.32	13.175	
6,800.0	6,620.4	6,672.1	6,619.4	27.6	23.3	-156.94	259.8	733.1	643.9	595.9	48.02	13.409	
6,900.0	6,718.1	6,769.8	6,717.1	28.1	23.3	-157.70	259.8	733.1	663.7	615.0	48.69	13.631	
7,000.0	6,816.0	6,867.7	6,815.0	28.5	23.3	-158.39	259.8	733.1	682.9	633.5	49.35	13.838	
7,100.0	6,914.0	6,965.7	6,913.0	29.0	23.4	-159.02	259.8	733.1	701.3	651.3	49.99	14.029	
7,200.0	7,012.2	7,063.9	7,011.2	29.5	23.4	-159.58	259.8	733.1	719.0	668.3	50.62	14.204	
7,300.0	7,110.6	7,162.3	7,109.6	29.9	23.4	-160.10	259.8	733.1	735.9	684.7	51.23	14.364	
7,400.0	7,209.1	7,260.8	7,208.1	30.4	23.5	-160.57	259.8	733.1	752.1	700.2	51.83	14.510	
7,500.0	7,307.8	7,359.5	7,306.8	30.8	23.5	-161.00	259.8	733.1	767.5	715.1	52.42	14.640	
7,600.0	7,406.6	7,458.3	7,405.6	31.3	23.5	-161.39	259.8	733.1	782.1	729.1	53.00	14.756	
7,700.0	7,505.5	7,557.2	7,504.5	31.7	23.6	-161.75	259.8	733.1	795.9	742.4	53.57	14.858	
7,800.0	7,604.6	7,656.3	7,603.6	32.1	23.6	-162.07	259.8	733.1	809.0	754.8	54.13	14.946	
7,900.0	7,703.7	7,755.4	7,702.7	32.6	23.6	-162.37	259.8	733.1	821.2	766.5	54.67	15.020	
8,000.0	7,803.0	7,854.7	7,802.0	33.0	23.7	-162.63	259.8	733.1	832.6	777.4	55.21	15.081	
8,100.0	7,902.4	7,954.1	7,901.4	33.4	23.7	-162.87	259.8	733.1	843.2	787.5	55.73	15.129	
8,200.0	8,001.9	8,053.6	8,000.9	33.8	23.8	-163.09	259.8	733.1	853.0	796.7	56.25	15.165	
8,300.0	8,101.4	8,153.1	8,100.4	34.2	23.8	-163.28	259.8	733.1	862.0	805.2	56.75	15.190	
8,400.0	8,201.1	8,252.8	8,200.1	34.6	23.8	-163.46	259.8	733.1	870.1	812.9	57.24	15.202	
8,500.0	8,300.8	8,352.5	8,299.8	34.9	23.9	-163.61	259.8	733.1	877.4	819.7	57.71	15.204	
8,600.0	8,400.5	8,452.2	8,399.5	35.3	23.9	-163.74	259.8	733.1	883.9	825.7	58.17	15.194	
8,700.0	8,500.4	8,552.1	8,499.4	35.7	23.9	-163.86	259.8	733.1	889.5	830.9	58.62	15.175	
8,800.0	8,600.2	8,651.9	8,599.2	36.0	24.0	-163.95	259.8	733.1	894.4	835.3	59.05	15.146	
8,900.0	8,700.2	8,751.9	8,699.2	36.3	24.0	-164.03	259.8	733.1	898.3	838.9	59.46	15.109	
9,000.0	8,800.1	8,851.8	8,799.1	36.6	24.0	-164.09	259.8	733.1	901.5	841.6	59.85	15.064	
9,100.0	8,900.1	8,951.8	8,899.1	36.9	24.1	-164.14	259.8	733.1	903.8	843.6	60.21	15.012	
9,200.0	9,000.1	9,051.8	8,999.1	37.2	24.1	-164.16	259.8	733.1	905.3	844.7	60.53	14.955	
9,300.0	9,100.1	9,151.8	9,099.1	37.4	24.2	-164.18	259.8	733.1	905.9	845.1	60.80	14.900	
9,324.5	9,124.6	9,176.3	9,123.6	37.4	24.2	-75.18	259.8	733.1	905.9	845.1	60.83	14.893	
9,400.0	9,200.1	9,251.8	9,199.1	37.4	24.2	-75.18	259.8	733.1	905.9	845.0	60.86	14.884	
9,500.0	9,300.1	9,351.8	9,299.1	37.4	24.2	-75.18	259.8	733.1	905.9	845.0	60.92	14.871	
9,600.0	9,400.1	9,451.8	9,399.1	37.4	24.3	-75.18	259.8	733.1	905.9	844.9	60.97	14.857	
9,700.0	9,500.1	9,551.8	9,499.1	37.5	24.3	-75.18	259.8	733.1	905.9	844.9	61.03	14.844	
9,800.0	9,600.1	9,651.8	9,599.1	37.5	24.4	-75.18	259.8	733.1	905.9	844.8	61.09	14.830	
9,900.0	9,700.1	9,751.8	9,699.1	37.5	24.4	-75.18	259.8	733.1	905.9	844.8	61.14	14.816	
10,000.0	9,800.1	9,851.8	9,799.1	37.5	24.4	-75.18	259.8	733.1	905.9	844.7	61.20	14.803	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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)	Minimum Separation (usft)		
10,100.0	9,900.1	9,951.8	9,899.1	37.6	24.5	-75.18	259.8	733.1	905.9	844.6	61.26	14.789	
10,200.0	10,000.1	10,051.8	9,999.1	37.6	24.5	-75.18	259.8	733.1	905.9	844.6	61.31	14.775	
10,300.0	10,100.1	10,151.8	10,099.1	37.6	24.6	-75.18	259.8	733.1	905.9	844.5	61.37	14.761	
10,400.0	10,200.1	10,251.8	10,199.1	37.6	24.6	-75.18	259.8	733.1	905.9	844.5	61.43	14.747	
10,500.0	10,300.1	10,351.8	10,299.1	37.6	24.6	-75.18	259.8	733.1	905.9	844.4	61.49	14.733	
10,600.0	10,400.1	10,451.8	10,399.1	37.7	24.7	-75.18	259.8	733.1	905.9	844.4	61.55	14.719	
10,700.0	10,500.1	10,551.8	10,499.1	37.7	24.7	-75.18	259.8	733.1	905.9	844.3	61.61	14.705	
10,800.0	10,600.1	10,651.8	10,599.1	37.7	24.8	-75.18	259.8	733.1	905.9	844.2	61.67	14.691	
10,900.0	10,700.1	10,751.8	10,699.1	37.7	24.8	-75.18	259.8	733.1	905.9	844.2	61.73	14.676	
11,000.0	10,800.1	10,851.8	10,799.1	37.7	24.8	-75.18	259.8	733.1	905.9	844.1	61.79	14.662	
11,100.0	10,900.1	10,951.8	10,899.1	37.8	24.9	-75.18	259.8	733.1	905.9	844.1	61.85	14.648	
11,200.0	11,000.1	11,051.8	10,999.1	37.8	24.9	-75.18	259.8	733.1	905.9	844.0	61.91	14.633	
11,300.0	11,100.1	11,151.8	11,099.1	37.8	25.0	-75.18	259.8	733.1	905.9	843.9	61.97	14.619	
11,400.0	11,200.1	11,251.8	11,199.1	37.8	25.0	-75.18	259.8	733.1	905.9	843.9	62.03	14.604	
11,461.5	11,261.5	11,313.2	11,260.5	37.8	25.0	-75.18	259.8	733.1	905.9	843.8	62.06	14.597	
11,475.0	11,275.1	11,322.6	11,269.9	37.8	25.0	105.20	259.9	733.1	906.0	844.2	61.79	14.662	
11,500.0	11,300.0	11,339.1	11,286.4	37.9	25.0	105.22	260.5	733.1	906.6	844.9	61.68	14.698	
11,525.0	11,324.9	11,355.4	11,302.6	37.9	25.0	105.26	261.6	733.0	907.7	846.2	61.53	14.752	
11,550.0	11,349.6	11,375.0	11,322.1	37.9	25.0	105.37	263.7	733.0	909.5	848.1	61.40	14.814	
11,575.0	11,374.0	11,386.5	11,333.5	37.9	25.0	105.34	265.3	733.0	911.9	850.8	61.16	14.911	
11,600.0	11,398.1	11,400.0	11,346.8	37.9	25.0	105.33	267.5	733.0	914.9	854.0	60.91	15.021	
11,625.0	11,421.9	11,414.8	11,361.4	37.9	25.0	105.34	270.4	733.0	918.6	858.0	60.65	15.145	
11,650.0	11,445.2	11,425.0	11,371.3	37.9	25.0	105.16	272.6	732.9	923.0	862.7	60.34	15.299	
11,675.0	11,468.0	11,439.7	11,385.5	37.9	25.0	105.10	276.2	732.9	928.2	868.1	60.03	15.460	
11,700.0	11,490.3	11,450.0	11,395.5	37.9	25.0	104.83	279.0	732.9	934.0	874.3	59.68	15.651	
11,725.0	11,511.9	11,460.5	11,405.6	37.9	25.0	104.51	282.1	732.9	940.6	881.3	59.31	15.860	
11,750.0	11,532.8	11,469.5	11,414.1	37.9	25.0	104.04	284.9	732.8	948.0	889.1	58.91	16.092	
11,775.0	11,553.0	11,475.0	11,419.3	37.9	25.0	103.32	286.6	732.8	956.1	897.7	58.48	16.350	
11,800.0	11,572.4	11,484.4	11,428.1	37.9	25.0	102.70	289.8	732.8	965.0	907.0	58.06	16.621	
11,825.0	11,590.9	11,490.4	11,433.8	37.9	25.0	101.81	292.0	732.8	974.7	917.0	57.62	16.916	
11,850.0	11,608.6	11,500.0	11,442.7	37.9	25.0	101.03	295.5	732.7	985.0	927.9	57.19	17.225	
11,875.0	11,625.3	11,500.0	11,442.7	37.9	25.0	99.58	295.5	732.7	996.1	939.4	56.70	17.566	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	24.95	184.2	85.7	203.2	196.2	6.98	29.111		
100.0	100.0	99.0	99.0	3.1	3.1	24.95	184.2	85.7	203.2	196.0	7.23	28.125		
200.0	200.0	199.0	199.0	3.2	3.2	24.95	184.2	85.7	203.2	195.7	7.47	27.204		
300.0	300.0	299.0	299.0	3.4	3.4	24.95	184.2	85.7	203.2	195.5	7.71	26.355		
400.0	400.0	399.0	399.0	3.5	3.5	24.95	184.2	85.7	203.2	195.3	7.95	25.565		
500.0	500.0	499.0	499.0	3.6	3.6	24.95	184.2	85.7	203.2	195.0	8.18	24.829		
600.0	600.0	599.0	599.0	3.7	3.7	24.95	184.2	85.7	203.2	194.8	8.42	24.139		
700.0	700.0	699.0	699.0	3.9	3.9	24.95	184.2	85.7	203.2	194.6	8.65	23.493		
800.0	800.0	799.0	799.0	4.0	4.0	24.95	184.2	85.7	203.2	194.3	8.88	22.884		
900.0	900.0	899.0	899.0	4.1	4.1	24.95	184.2	85.7	203.2	194.1	9.11	22.310		
1,000.0	1,000.0	999.0	999.0	4.2	4.2	24.95	184.2	85.7	203.2	193.9	9.34	21.768		
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	24.95	184.2	85.7	203.2	193.7	9.56	21.255		
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	20.767		
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	20.304		
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	24.95	184.2	85.7	203.2	193.0	10.23	19.863		
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	24.95	184.2	85.7	203.2	192.8	10.45	19.443		
1,528.3	1,528.3	1,526.4	1,526.4	4.8	4.8	-64.05	184.3	85.9	203.2	193.0	10.18	19.963		
1,600.0	1,600.0	1,595.8	1,595.8	4.9	4.9	-64.08	184.3	87.3	203.2	192.9	10.34	19.655		
1,700.0	1,699.8	1,692.6	1,692.5	5.1	5.0	-64.15	184.6	92.2	203.3	192.6	10.67	19.051		
1,800.0	1,799.5	1,789.4	1,788.9	5.3	5.2	-64.26	185.0	100.3	203.4	192.4	11.01	18.481		
1,900.0	1,898.7	1,886.2	1,885.0	5.6	5.5	-64.41	185.6	111.7	203.6	192.3	11.35	17.942		
2,000.0	1,997.5	1,983.0	1,980.7	5.9	5.9	-64.60	186.4	126.3	203.8	192.1	11.70	17.426		
2,100.0	2,095.6	2,079.9	2,075.9	6.3	6.2	-64.83	187.3	144.1	204.1	192.1	12.06	16.928		
2,200.0	2,193.1	2,176.7	2,170.4	6.6	6.5	-65.10	188.4	165.2	204.5	192.1	12.44	16.441		
2,300.0	2,289.6	2,275.9	2,266.7	7.0	6.9	-65.67	189.7	189.1	204.5	191.7	12.84	15.933		
2,400.0	2,385.8	2,375.9	2,363.7	7.3	7.2	-66.67	190.9	213.2	203.9	190.6	13.23	15.414		
2,500.0	2,481.9	2,475.8	2,460.7	7.7	7.5	-67.67	192.2	237.3	203.3	189.6	13.63	14.918		
2,600.0	2,578.0	2,575.8	2,557.6	8.0	7.9	-68.67	193.5	261.5	202.8	188.7	14.04	14.446		
2,700.0	2,674.1	2,675.7	2,654.6	8.4	8.3	-69.68	194.7	285.6	202.3	187.8	14.45	13.999		
2,800.0	2,770.3	2,775.6	2,751.6	8.8	8.6	-70.70	196.0	309.8	201.9	187.0	14.87	13.577		
2,900.0	2,866.4	2,875.6	2,848.5	9.2	9.0	-71.72	197.3	333.9	201.6	186.3	15.29	13.180		
3,000.0	2,962.5	2,975.5	2,945.5	9.6	9.4	-72.74	198.5	358.1	201.3	185.6	15.72	12.807		
3,100.0	3,058.7	3,075.4	3,042.5	10.1	9.8	-73.76	199.8	382.2	201.1	185.0	16.14	12.456		
3,200.0	3,154.8	3,175.4	3,139.4	10.5	10.3	-74.79	201.1	406.3	201.0	184.4	16.57	12.127		
3,300.0	3,250.9	3,275.3	3,236.4	10.9	10.7	-75.82	202.3	430.5	200.9	183.9	17.00	11.818		
3,362.0	3,310.5	3,337.3	3,296.5	11.2	11.0	-76.45	203.1	445.5	200.9	183.6	17.26	11.636 CC		
3,400.0	3,347.0	3,375.2	3,333.4	11.4	11.1	-76.84	203.6	454.6	200.9	183.5	17.43	11.528		
3,500.0	3,443.2	3,475.2	3,430.3	11.8	11.5	-77.87	204.8	478.8	200.9	183.1	17.86	11.254		
3,600.0	3,539.3	3,575.1	3,527.3	12.3	12.0	-78.90	206.1	502.9	201.1	182.8	18.28	10.997		
3,700.0	3,635.4	3,675.0	3,624.3	12.7	12.4	-79.92	207.4	527.1	201.3	182.5	18.71	10.754		
3,800.0	3,731.5	3,775.0	3,721.2	13.2	12.9	-80.94	208.6	551.2	201.5	182.4	19.15	10.525		
3,900.0	3,827.7	3,874.9	3,818.2	13.6	13.3	-81.96	209.9	575.4	201.8	182.2	19.58	10.307		
4,000.0	3,923.8	3,974.8	3,915.2	14.1	13.8	-82.98	211.2	599.5	202.2	182.2	20.02	10.101 ES		
4,100.0	4,019.9	4,074.8	4,012.1	14.6	14.2	-83.99	212.4	623.6	202.6	182.2	20.46	9.905		
4,200.0	4,116.0	4,174.7	4,109.1	15.0	14.7	-85.00	213.7	647.8	203.1	182.2	20.91	9.717		
4,300.0	4,212.2	4,274.6	4,206.1	15.5	15.1	-86.00	215.0	671.9	203.7	182.4	21.36	9.539		
4,400.0	4,308.3	4,374.6	4,303.0	16.0	15.6	-87.00	216.2	696.1	204.3	182.5	21.81	9.367		
4,500.0	4,404.4	4,474.5	4,400.0	16.4	16.1	-87.99	217.5	720.2	205.0	182.8	22.28	9.203		
4,600.0	4,500.5	4,574.5	4,497.0	16.9	16.5	-88.97	218.8	744.4	205.8	183.0	22.75	9.044		
4,700.0	4,596.7	4,674.4	4,593.9	17.4	17.0	-89.94	220.0	768.5	206.6	183.4	23.24	8.891		
4,800.0	4,692.8	4,774.3	4,690.9	17.9	17.5	-90.91	221.3	792.6	207.5	183.7	23.73	8.744		
4,900.0	4,788.9	4,874.3	4,787.9	18.4	17.9	-91.87	222.6	816.8	208.4	184.2	24.23	8.601		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	4,885.0	4,974.2	4,884.8	18.8	18.4	-92.82	223.8	840.9	209.4	184.6	24.74	8.462	
5,100.0	4,981.2	5,074.1	4,981.8	19.3	18.9	-93.76	225.1	865.1	210.4	185.2	25.27	8.327	
5,200.0	5,077.3	5,174.1	5,078.8	19.8	19.4	-94.69	226.4	889.2	211.5	185.7	25.81	8.196	
5,300.0	5,173.4	5,274.0	5,175.7	20.3	19.8	-95.62	227.6	913.4	212.7	186.3	26.36	8.069	
5,400.0	5,269.6	5,373.9	5,272.7	20.8	20.3	-96.53	228.9	937.5	213.9	187.0	26.92	7.944	
5,500.0	5,365.7	5,473.9	5,369.7	21.3	20.8	-97.43	230.2	961.6	215.2	187.7	27.50	7.823	
5,600.0	5,461.8	5,573.6	5,466.5	21.8	21.2	-98.38	231.4	985.5	216.5	188.4	28.08	7.709	
5,700.0	5,557.9	5,673.0	5,563.3	22.3	21.7	-99.71	232.6	1,007.8	218.1	189.4	28.72	7.594	
5,800.0	5,654.1	5,772.2	5,660.3	22.7	22.2	-101.46	233.7	1,028.4	220.1	190.7	29.43	7.479	
5,900.0	5,750.2	5,871.1	5,757.4	23.2	22.6	-103.61	234.6	1,047.2	222.7	192.4	30.24	7.364	
6,000.0	5,846.3	5,969.6	5,854.5	23.7	23.1	-106.11	235.5	1,064.3	225.9	194.8	31.18	7.247	
6,100.0	5,942.4	6,067.9	5,951.5	24.2	23.5	-108.93	236.3	1,079.7	230.2	197.9	32.27	7.132	
6,124.5	5,966.0	6,091.9	5,975.3	24.3	23.6	-109.66	236.5	1,083.2	231.4	198.8	32.55	7.107	
6,200.0	6,038.6	6,165.6	6,048.3	24.7	23.9	-111.98	237.1	1,093.4	235.4	201.9	33.50	7.028	
6,300.0	6,135.1	6,263.1	6,145.0	25.2	24.3	-115.07	237.7	1,105.4	241.6	206.8	34.85	6.933	
6,400.0	6,231.7	6,360.2	6,241.6	25.7	24.7	-118.17	238.2	1,115.7	248.9	212.6	36.29	6.857	
6,500.0	6,328.6	6,456.9	6,337.9	26.2	25.1	-121.24	238.7	1,124.3	257.2	219.4	37.80	6.804	
6,600.0	6,425.7	6,553.2	6,433.9	26.6	25.4	-124.25	239.0	1,131.3	266.6	227.3	39.33	6.778 SF	
6,700.0	6,522.9	6,649.0	6,529.6	27.1	25.8	-127.19	239.3	1,136.7	277.2	236.3	40.87	6.782	
6,800.0	6,620.4	6,744.5	6,625.0	27.6	26.1	-130.02	239.5	1,140.4	288.9	246.5	42.39	6.816	
6,900.0	6,718.1	6,839.5	6,720.0	28.1	26.3	-132.74	239.6	1,142.6	301.8	258.0	43.85	6.883	
7,000.0	6,816.0	6,934.5	6,815.0	28.5	26.5	-135.34	239.7	1,143.1	315.9	270.6	45.22	6.986	
7,100.0	6,914.0	7,032.5	6,913.0	29.0	26.5	-137.77	239.7	1,143.1	330.3	283.8	46.50	7.104	
7,200.0	7,012.2	7,130.7	7,011.2	29.5	26.5	-139.91	239.7	1,143.1	344.6	297.0	47.67	7.229	
7,300.0	7,110.6	7,229.1	7,109.6	29.9	26.6	-141.80	239.7	1,143.1	358.7	309.9	48.75	7.358	
7,400.0	7,209.1	7,327.6	7,208.1	30.4	26.6	-143.46	239.7	1,143.1	372.4	322.6	49.75	7.486	
7,500.0	7,307.8	7,426.3	7,306.8	30.8	26.6	-144.93	239.7	1,143.1	385.7	335.0	50.67	7.611	
7,600.0	7,406.6	7,525.1	7,405.6	31.3	26.7	-146.24	239.7	1,143.1	398.4	346.9	51.53	7.732	
7,700.0	7,505.5	7,624.0	7,504.5	31.7	26.7	-147.40	239.7	1,143.1	410.7	358.3	52.34	7.846	
7,800.0	7,604.6	7,723.1	7,603.6	32.1	26.7	-148.43	239.7	1,143.1	422.3	369.2	53.10	7.952	
7,900.0	7,703.7	7,822.2	7,702.7	32.6	26.7	-149.34	239.7	1,143.1	433.3	379.5	53.82	8.050	
8,000.0	7,803.0	7,921.5	7,802.0	33.0	26.8	-150.15	239.7	1,143.1	443.7	389.2	54.51	8.140	
8,100.0	7,902.4	8,020.9	7,901.4	33.4	26.8	-150.88	239.7	1,143.1	453.3	398.2	55.15	8.219	
8,200.0	8,001.9	8,120.4	8,000.9	33.8	26.8	-151.51	239.7	1,143.1	462.3	406.5	55.77	8.289	
8,300.0	8,101.4	8,219.9	8,100.4	34.2	26.9	-152.08	239.7	1,143.1	470.6	414.2	56.36	8.350	
8,400.0	8,201.1	8,319.6	8,200.1	34.6	26.9	-152.57	239.7	1,143.1	478.1	421.2	56.92	8.400	
8,500.0	8,300.8	8,419.3	8,299.8	34.9	26.9	-153.00	239.7	1,143.1	484.9	427.4	57.45	8.440	
8,600.0	8,400.5	8,519.0	8,399.5	35.3	27.0	-153.37	239.7	1,143.1	490.9	433.0	57.95	8.471	
8,700.0	8,500.4	8,618.9	8,499.4	35.7	27.0	-153.69	239.7	1,143.1	496.2	437.8	58.43	8.492	
8,800.0	8,600.2	8,718.7	8,599.2	36.0	27.0	-153.95	239.7	1,143.1	500.7	441.8	58.88	8.503	
8,900.0	8,700.2	8,818.7	8,699.2	36.3	27.1	-154.17	239.7	1,143.1	504.4	445.1	59.30	8.506	
9,000.0	8,800.1	8,918.6	8,799.1	36.6	27.1	-154.33	239.7	1,143.1	507.3	447.7	59.69	8.499	
9,100.0	8,900.1	9,018.6	8,899.1	36.9	27.1	-154.45	239.7	1,143.1	509.5	449.5	60.05	8.485	
9,200.0	9,000.1	9,118.6	8,999.1	37.2	27.2	-154.53	239.7	1,143.1	510.9	450.5	60.36	8.463	
9,300.0	9,100.1	9,218.6	9,099.1	37.4	27.2	-154.56	239.7	1,143.1	511.5	450.9	60.61	8.438	
9,324.5	9,124.6	9,243.1	9,123.6	37.4	27.2	-65.57	239.7	1,143.1	511.5	450.9	60.64	8.435	
9,400.0	9,200.1	9,318.6	9,199.1	37.4	27.2	-65.57	239.7	1,143.1	511.5	450.8	60.68	8.430	
9,500.0	9,300.1	9,418.6	9,299.1	37.4	27.3	-65.57	239.7	1,143.1	511.5	450.8	60.73	8.422	
9,600.0	9,400.1	9,518.6	9,399.1	37.4	27.3	-65.57	239.7	1,143.1	511.5	450.7	60.79	8.414	
9,700.0	9,500.1	9,618.6	9,499.1	37.5	27.3	-65.57	239.7	1,143.1	511.5	450.6	60.84	8.407	
9,800.0	9,600.1	9,718.6	9,599.1	37.5	27.4	-65.57	239.7	1,143.1	511.5	450.6	60.90	8.399	
9,900.0	9,700.1	9,818.6	9,699.1	37.5	27.4	-65.57	239.7	1,143.1	511.5	450.5	60.96	8.391	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.0	9,800.1	9,918.6	9,799.1	37.5	27.4	-65.57	239.7	1,143.1	511.5	450.5	61.01	8.383	
10,100.0	9,900.1	10,018.6	9,899.1	37.6	27.5	-65.57	239.7	1,143.1	511.5	450.4	61.07	8.375	
10,200.0	10,000.1	10,118.6	9,999.1	37.6	27.5	-65.57	239.7	1,143.1	511.5	450.4	61.13	8.367	
10,300.0	10,100.1	10,218.6	10,099.1	37.6	27.5	-65.57	239.7	1,143.1	511.5	450.3	61.19	8.359	
10,400.0	10,200.1	10,318.6	10,199.1	37.6	27.6	-65.57	239.7	1,143.1	511.5	450.2	61.25	8.351	
10,500.0	10,300.1	10,418.6	10,299.1	37.6	27.6	-65.57	239.7	1,143.1	511.5	450.2	61.31	8.343	
10,600.0	10,400.1	10,518.6	10,399.1	37.7	27.6	-65.57	239.7	1,143.1	511.5	450.1	61.37	8.335	
10,700.0	10,500.1	10,618.6	10,499.1	37.7	27.7	-65.57	239.7	1,143.1	511.5	450.1	61.42	8.327	
10,800.0	10,600.1	10,718.6	10,599.1	37.7	27.7	-65.57	239.7	1,143.1	511.5	450.0	61.48	8.319	
10,900.0	10,700.1	10,818.6	10,699.1	37.7	27.7	-65.57	239.7	1,143.1	511.5	449.9	61.55	8.311	
11,000.0	10,800.1	10,918.6	10,799.1	37.7	27.8	-65.57	239.7	1,143.1	511.5	449.9	61.61	8.303	
11,100.0	10,900.1	11,018.6	10,899.1	37.8	27.8	-65.57	239.7	1,143.1	511.5	449.8	61.67	8.294	
11,200.0	11,000.1	11,118.6	10,999.1	37.8	27.9	-65.57	239.7	1,143.1	511.5	449.8	61.73	8.286	
11,300.0	11,100.1	11,218.6	11,099.1	37.8	27.9	-65.57	239.7	1,143.1	511.5	449.7	61.79	8.278	
11,400.0	11,200.1	11,318.6	11,199.1	37.8	27.9	-65.57	239.7	1,143.1	511.5	449.6	61.85	8.269	
11,461.5	11,261.5	11,380.0	11,260.5	37.8	28.0	-65.57	239.7	1,143.1	511.5	449.6	61.88	8.265	
11,475.0	11,275.1	11,393.6	11,274.1	37.8	28.0	114.82	239.7	1,143.1	511.6	449.8	61.75	8.285	
11,500.0	11,300.0	11,418.5	11,299.0	37.9	28.0	114.89	239.7	1,143.1	512.1	450.4	61.72	8.298	
11,525.0	11,324.9	11,443.4	11,323.9	37.9	28.0	115.04	239.7	1,143.1	513.3	451.6	61.64	8.327	
11,550.0	11,349.6	11,468.1	11,348.6	37.9	28.0	115.25	239.7	1,143.1	515.0	453.5	61.52	8.371	
11,575.0	11,374.0	11,492.5	11,373.0	37.9	28.0	115.52	239.7	1,143.1	517.3	455.9	61.35	8.431	
11,600.0	11,398.1	11,516.6	11,397.1	37.9	28.0	115.83	239.7	1,143.1	520.2	459.0	61.14	8.507	
11,625.0	11,421.9	11,540.4	11,420.9	37.9	28.0	116.18	239.7	1,143.1	523.7	462.8	60.89	8.601	
11,650.0	11,445.2	11,561.4	11,441.9	37.9	28.0	116.47	239.7	1,143.1	528.0	467.5	60.46	8.733	
11,675.0	11,468.0	11,575.0	11,455.5	37.9	28.0	116.47	240.0	1,143.1	533.2	473.3	59.92	8.899	
11,700.0	11,490.3	11,589.8	11,470.3	37.9	28.0	116.50	240.8	1,143.1	539.5	480.1	59.36	9.088	
11,725.0	11,511.9	11,600.0	11,480.4	37.9	28.0	116.23	241.6	1,143.1	546.9	488.2	58.69	9.319	
11,750.0	11,532.8	11,614.6	11,495.0	37.9	28.0	116.16	243.1	1,143.1	555.4	497.4	58.07	9.566	
11,775.0	11,553.0	11,625.0	11,505.3	37.9	28.0	115.75	244.5	1,143.1	565.1	507.8	57.36	9.853	
11,800.0	11,572.4	11,635.4	11,515.5	37.9	28.0	115.22	246.1	1,143.1	575.9	519.3	56.63	10.169	
11,825.0	11,590.9	11,644.2	11,524.3	37.9	28.0	114.46	247.6	1,143.1	587.8	531.9	55.89	10.516	
11,850.0	11,608.6	11,650.0	11,529.9	37.9	28.0	113.29	248.7	1,143.1	600.7	545.6	55.12	10.899	
11,875.0	11,625.3	11,659.0	11,538.7	37.9	28.0	112.23	250.5	1,143.0	614.7	560.3	54.40	11.299	
11,900.0	11,641.0	11,664.9	11,544.5	37.9	28.0	110.72	251.8	1,143.0	629.6	575.9	53.68	11.730	
11,925.0	11,655.6	11,675.0	11,554.3	37.9	28.0	109.45	254.2	1,143.0	645.5	592.4	53.02	12.175	
11,950.0	11,669.2	11,675.0	11,554.3	37.9	28.0	106.92	254.2	1,143.0	662.0	609.8	52.29	12.660	
11,975.0	11,681.6	11,675.0	11,554.3	37.9	28.0	104.12	254.2	1,143.0	679.4	627.8	51.62	13.163	
12,000.0	11,692.9	11,675.0	11,554.3	37.9	28.0	101.06	254.2	1,143.0	697.5	646.5	50.98	13.682	
12,025.0	11,703.0	11,681.8	11,560.9	37.9	28.0	98.56	255.9	1,143.0	716.1	665.6	50.43	14.199	
12,050.0	11,712.0	11,683.0	11,562.0	38.0	28.0	95.17	256.2	1,143.0	735.2	685.3	49.88	14.739	
12,075.0	11,719.6	11,683.5	11,562.5	38.0	28.0	91.50	256.3	1,143.0	754.7	705.3	49.36	15.288	
12,100.0	11,726.0	11,683.5	11,562.5	38.0	28.0	87.57	256.3	1,143.0	774.6	725.7	48.88	15.845	
12,125.0	11,731.2	11,682.9	11,561.9	38.0	28.0	83.44	256.1	1,143.0	794.7	746.2	48.43	16.407	
12,150.0	11,735.0	11,675.0	11,554.3	38.0	28.0	78.39	254.2	1,143.0	815.0	767.0	47.99	16.983	
12,175.0	11,737.6	11,675.0	11,554.3	38.0	28.0	74.29	254.2	1,143.0	835.4	787.8	47.61	17.547	
12,200.0	11,738.9	11,675.0	11,554.3	38.1	28.0	70.24	254.2	1,143.0	855.8	808.6	47.26	18.110	
12,211.5	11,739.0	11,675.0	11,554.3	38.1	28.0	68.42	254.2	1,143.0	865.2	818.1	47.10	18.368	
12,300.0	11,739.0	11,675.0	11,554.3	38.2	28.0	68.42	254.2	1,143.0	938.9	892.8	46.06	20.385	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	33.51	167.3	110.8	200.7	193.7	6.98	28.747	
100.0	100.0	99.0	99.0	3.1	3.1	33.51	167.3	110.8	200.7	193.5	7.22	27.776	
200.0	200.0	199.0	199.0	3.2	3.2	33.51	167.3	110.8	200.7	193.2	7.47	26.871	
300.0	300.0	299.0	299.0	3.4	3.4	33.51	167.3	110.8	200.7	193.0	7.71	26.039	
400.0	400.0	399.0	399.0	3.5	3.5	33.51	167.3	110.8	200.7	192.7	7.94	25.268	
500.0	500.0	499.0	499.0	3.6	3.6	33.51	167.3	110.8	200.7	192.5	8.17	24.551	
600.0	600.0	599.0	599.0	3.7	3.7	33.51	167.3	110.8	200.7	192.3	8.40	23.880	
700.0	700.0	699.0	699.0	3.9	3.9	33.51	167.3	110.8	200.7	192.0	8.63	23.253	
800.0	800.0	799.0	799.0	4.0	4.0	33.51	167.3	110.8	200.7	191.8	8.85	22.663	
900.0	900.0	899.0	899.0	4.1	4.1	33.51	167.3	110.8	200.7	191.6	9.08	22.107	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	33.51	167.3	110.8	200.7	191.4	9.30	21.582	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	33.51	167.3	110.8	200.7	191.2	9.52	21.086	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	33.51	167.3	110.8	200.7	190.9	9.73	20.615	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	33.51	167.3	110.8	200.7	190.7	9.95	20.168	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	33.51	167.3	110.8	200.7	190.5	10.16	19.743	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	33.51	167.3	110.8	200.7	190.3	10.38	19.337	
1,600.0	1,600.0	1,595.2	1,595.2	4.9	4.9	-55.52	167.4	112.4	200.6	190.3	10.28	19.506	
1,700.0	1,699.8	1,691.4	1,691.3	5.1	5.0	-55.57	167.4	117.2	200.5	189.8	10.64	18.838	
1,800.0	1,799.5	1,787.6	1,787.1	5.3	5.2	-55.66	167.6	125.2	200.3	189.3	11.01	18.194	
1,900.0	1,898.7	1,883.8	1,882.7	5.6	5.5	-55.78	167.8	136.4	200.0	188.6	11.38	17.570	
2,000.0	1,997.5	1,980.1	1,977.8	5.9	5.8	-55.93	168.0	150.9	199.6	187.9	11.77	16.961	
2,100.0	2,095.6	2,076.3	2,072.4	6.3	6.2	-56.11	168.3	168.5	199.2	187.0	12.18	16.362	
2,200.0	2,193.1	2,172.6	2,166.4	6.6	6.5	-56.32	168.7	189.4	198.7	186.1	12.60	15.770	
2,300.0	2,289.6	2,268.9	2,259.7	7.0	6.9	-56.57	169.1	213.3	198.2	185.1	13.05	15.183	
2,380.0	2,366.5	2,347.7	2,335.5	7.3	7.2	-56.61	169.5	234.9	198.1	184.6	13.42	14.756	
2,400.0	2,385.8	2,367.7	2,354.7	7.3	7.2	-56.61	169.6	240.4	198.1	184.5	13.52	14.652	
2,500.0	2,481.9	2,467.7	2,450.8	7.7	7.6	-56.61	170.1	268.0	198.1	184.0	14.02	14.132	
2,600.0	2,578.0	2,567.7	2,547.0	8.0	7.9	-56.61	170.6	295.5	198.1	183.5	14.54	13.625	
2,700.0	2,674.1	2,667.7	2,643.1	8.4	8.3	-56.61	171.0	323.1	198.1	183.0	15.08	13.134	
2,800.0	2,770.3	2,767.7	2,739.2	8.8	8.7	-56.61	171.5	350.6	198.1	182.4	15.64	12.662	
2,900.0	2,866.4	2,867.7	2,835.4	9.2	9.1	-56.61	172.0	378.2	198.1	181.8	16.22	12.210	
3,000.0	2,962.5	2,967.7	2,931.5	9.6	9.5	-56.61	172.5	405.8	198.1	181.2	16.82	11.778	
3,100.0	3,058.7	3,067.7	3,027.6	10.1	9.9	-56.61	173.0	433.3	198.1	180.6	17.42	11.367	
3,200.0	3,154.8	3,167.7	3,123.7	10.5	10.3	-56.61	173.4	460.9	198.1	180.0	18.05	10.976	
3,300.0	3,250.9	3,267.7	3,219.9	10.9	10.8	-56.61	173.9	488.4	198.1	179.4	18.68	10.605	
3,400.0	3,347.0	3,367.7	3,316.0	11.4	11.2	-56.61	174.4	516.0	198.1	178.7	19.32	10.253	
3,500.0	3,443.2	3,467.7	3,412.1	11.8	11.7	-56.61	174.9	543.6	198.1	178.1	19.97	9.919	
3,600.0	3,539.3	3,567.7	3,508.2	12.3	12.1	-56.61	175.4	571.1	198.1	177.4	20.63	9.603	
3,700.0	3,635.4	3,667.7	3,604.4	12.7	12.6	-56.61	175.8	598.7	198.1	176.8	21.29	9.303	
3,739.0	3,672.9	3,706.7	3,641.9	12.9	12.7	-56.61	176.0	609.4	198.1	176.5	21.55	9.190	
3,800.0	3,731.5	3,767.7	3,700.5	13.2	13.0	-56.61	176.3	626.2	198.1	176.1	21.96	9.018	
3,900.0	3,827.7	3,867.7	3,796.6	13.6	13.5	-56.61	176.8	653.8	198.1	175.4	22.64	8.748	
4,000.0	3,923.8	3,967.7	3,892.7	14.1	13.9	-56.61	177.3	681.4	198.1	174.7	23.32	8.492	
4,019.1	3,942.2	3,986.8	3,911.1	14.2	14.0	-56.61	177.4	686.6	198.1	174.6	23.45	8.445	
4,100.0	4,019.9	4,067.7	3,988.9	14.6	14.4	-56.61	177.8	708.9	198.1	174.1	24.01	8.249	
4,200.0	4,116.0	4,167.7	4,085.0	15.0	14.9	-56.61	178.3	736.5	198.1	173.4	24.70	8.018	
4,300.0	4,212.2	4,267.7	4,181.1	15.5	15.3	-56.61	178.7	764.0	198.1	172.7	25.40	7.798	
4,400.0	4,308.3	4,367.7	4,277.2	16.0	15.8	-56.61	179.2	791.6	198.1	172.0	26.10	7.589	
4,500.0	4,404.4	4,467.7	4,373.4	16.4	16.3	-56.61	179.7	819.1	198.1	171.3	26.80	7.390	
4,600.0	4,500.5	4,567.7	4,469.5	16.9	16.8	-56.61	180.2	846.7	198.1	170.6	27.51	7.200	
4,629.1	4,528.6	4,596.8	4,497.5	17.1	16.9	-56.61	180.3	854.7	198.1	170.3	27.72	7.146	
4,700.0	4,596.7	4,667.7	4,565.6	17.4	17.2	-56.61	180.7	874.3	198.1	169.8	28.22	7.019	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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
4,800.0	4,692.8	4,767.7	4,661.8	17.9	17.7	-56.61	181.1	901.8	198.1	169.1	28.93	6.846	
4,900.0	4,788.9	4,867.7	4,757.9	18.4	18.2	-56.61	181.6	929.4	198.1	168.4	29.65	6.681	
5,000.0	4,885.0	4,967.7	4,854.0	18.8	18.7	-56.61	182.1	956.9	198.1	167.7	30.36	6.523	
5,100.0	4,981.2	5,067.7	4,950.1	19.3	19.2	-56.61	182.6	984.5	198.1	167.0	31.08	6.372	
5,200.0	5,077.3	5,167.7	5,046.3	19.8	19.7	-56.61	183.1	1,012.1	198.1	166.3	31.81	6.227	
5,300.0	5,173.4	5,267.7	5,142.4	20.3	20.1	-56.61	183.5	1,039.6	198.1	165.5	32.53	6.089	
5,400.0	5,269.6	5,367.7	5,238.5	20.8	20.6	-56.61	184.0	1,067.2	198.1	164.8	33.25	5.956	
5,500.0	5,365.7	5,467.7	5,334.6	21.3	21.1	-56.61	184.5	1,094.7	198.1	164.1	33.98	5.829	
5,600.0	5,461.8	5,567.7	5,430.8	21.8	21.6	-56.61	185.0	1,122.3	198.1	163.4	34.71	5.706	
5,700.0	5,557.9	5,667.7	5,526.9	22.3	22.1	-56.61	185.5	1,149.9	198.1	162.6	35.44	5.589	
5,800.0	5,654.1	5,767.7	5,623.0	22.7	22.6	-56.61	185.9	1,177.4	198.1	161.9	36.17	5.476	
5,900.0	5,750.2	5,867.7	5,719.1	23.2	23.1	-56.61	186.4	1,205.0	198.1	161.2	36.90	5.367	
6,000.0	5,846.3	5,967.7	5,815.3	23.7	23.6	-56.61	186.9	1,232.5	198.1	160.4	37.64	5.262	
6,100.0	5,942.4	6,067.7	5,911.4	24.2	24.1	-56.61	187.4	1,260.1	198.1	159.7	38.37	5.162	
6,124.5	5,966.0	6,092.2	5,935.0	24.3	24.2	-56.61	187.5	1,266.9	198.1	159.5	38.55	5.139	
6,200.0	6,038.6	6,167.7	6,007.5	24.7	24.6	-56.55	187.9	1,287.7	198.2	159.1	39.11	5.068	
6,300.0	6,135.1	6,267.7	6,103.6	25.2	25.0	-56.29	188.4	1,315.2	198.8	158.9	39.93	4.979	
6,400.0	6,231.7	6,367.7	6,199.7	25.7	25.5	-55.82	188.8	1,342.8	199.9	159.1	40.81	4.898	
6,500.0	6,328.6	6,467.6	6,295.8	26.2	26.0	-55.16	189.3	1,370.3	201.5	159.7	41.77	4.825	
6,600.0	6,425.7	6,567.6	6,391.9	26.6	26.5	-54.32	189.8	1,397.9	203.7	160.9	42.79	4.759	
6,700.0	6,522.9	6,667.5	6,487.9	27.1	27.0	-53.29	190.3	1,425.4	206.4	162.5	43.89	4.701	
6,800.0	6,620.4	6,769.1	6,585.7	27.6	27.5	-52.15	190.8	1,453.1	209.5	164.5	45.04	4.652	
6,900.0	6,718.1	6,873.8	6,687.2	28.1	28.0	-51.45	191.2	1,478.8	211.5	165.4	46.02	4.595	
7,000.0	6,816.0	6,978.6	6,789.7	28.5	28.5	-51.37	191.6	1,500.7	211.7	165.0	46.71	4.532	
7,100.0	6,914.0	7,083.4	6,892.9	29.0	29.0	-51.91	191.9	1,518.8	210.2	163.1	47.10	4.462	
7,200.0	7,012.2	7,187.9	6,996.4	29.5	29.5	-53.08	192.2	1,533.2	207.0	159.8	47.17	4.389	
7,300.0	7,110.6	7,292.0	7,099.9	29.9	29.9	-54.95	192.3	1,543.7	202.3	155.4	46.88	4.315	
7,400.0	7,209.1	7,395.4	7,203.1	30.4	30.3	-57.58	192.5	1,550.4	196.3	150.1	46.21	4.249	
7,500.0	7,307.8	7,498.1	7,305.7	30.8	30.6	-61.07	192.5	1,553.4	189.4	144.3	45.12	4.199	
7,600.0	7,406.6	7,597.9	7,405.6	31.3	30.7	-65.24	192.5	1,553.6	182.5	138.7	43.75	4.171	
7,700.0	7,505.5	7,696.8	7,504.5	31.7	30.7	-69.46	192.5	1,553.6	176.8	134.3	42.48	4.163	
7,800.0	7,604.6	7,795.9	7,603.6	32.1	30.7	-73.67	192.5	1,553.6	172.4	131.1	41.35	4.170	
7,900.0	7,703.7	7,895.0	7,702.7	32.6	30.8	-77.79	192.5	1,553.6	169.3	128.8	40.44	4.185	
8,000.0	7,803.0	7,994.3	7,802.0	33.0	30.8	-81.76	192.5	1,553.6	167.1	127.3	39.80	4.199	
8,100.0	7,902.4	8,093.7	7,901.4	33.4	30.8	-85.53	192.5	1,553.6	165.9	126.4	39.44	4.206	
8,200.0	8,001.9	8,193.2	8,000.9	33.8	30.8	-89.05	192.5	1,553.6	165.4	126.0	39.35	4.203	
8,228.6	8,030.4	8,221.7	8,029.4	33.9	30.8	-90.00	192.5	1,553.6	165.4	126.0	39.37	4.200 CC, ES	
8,300.0	8,101.4	8,292.7	8,100.4	34.2	30.9	-92.27	192.5	1,553.6	165.5	126.0	39.50	4.190	
8,400.0	8,201.1	8,392.4	8,200.1	34.6	30.9	-95.20	192.5	1,553.6	166.1	126.2	39.83	4.169	
8,500.0	8,300.8	8,492.1	8,299.8	34.9	30.9	-97.80	192.5	1,553.6	166.9	126.6	40.29	4.143	
8,600.0	8,400.5	8,591.9	8,399.5	35.3	30.9	-100.08	192.5	1,553.6	168.0	127.2	40.82	4.115	
8,700.0	8,500.4	8,691.7	8,499.4	35.7	31.0	-102.05	192.5	1,553.6	169.1	127.7	41.39	4.086	
8,800.0	8,600.2	8,791.6	8,599.2	36.0	31.0	-103.70	192.5	1,553.6	170.2	128.3	41.94	4.059	
8,900.0	8,700.2	8,891.5	8,699.2	36.3	31.0	-105.05	192.5	1,553.6	171.3	128.8	42.46	4.033	
9,000.0	8,800.1	8,991.4	8,799.1	36.6	31.0	-106.11	192.5	1,553.6	172.1	129.2	42.92	4.011	
9,100.0	8,900.1	9,091.4	8,899.1	36.9	31.1	-106.87	192.5	1,553.6	172.8	129.5	43.30	3.991	
9,200.0	9,000.1	9,191.4	8,999.1	37.2	31.1	-107.36	192.5	1,553.6	173.3	129.7	43.59	3.975	
9,300.0	9,100.1	9,291.4	9,099.1	37.4	31.1	-107.56	192.5	1,553.6	173.5	129.7	43.79	3.961	
9,324.5	9,124.6	9,315.9	9,123.6	37.4	31.1	-18.57	192.5	1,553.6	173.5	129.7	43.81	3.960	
9,400.0	9,200.1	9,391.4	9,199.1	37.4	31.1	-18.57	192.5	1,553.6	173.5	129.6	43.87	3.954	
9,500.0	9,300.1	9,491.4	9,299.1	37.4	31.2	-18.57	192.5	1,553.6	173.5	129.5	43.95	3.947	
9,600.0	9,400.1	9,591.4	9,399.1	37.4	31.2	-18.57	192.5	1,553.6	173.5	129.4	44.04	3.939	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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			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	
9,700.0	9,500.1	9,691.4	9,499.1	37.5	31.2	-18.57	192.5	1,553.6	173.5	129.3	44.12	3.931	
9,800.0	9,600.1	9,791.4	9,599.1	37.5	31.3	-18.57	192.5	1,553.6	173.5	129.3	44.21	3.923	
9,900.0	9,700.1	9,891.4	9,699.1	37.5	31.3	-18.57	192.5	1,553.6	173.5	129.2	44.30	3.916	
10,000.0	9,800.1	9,991.4	9,799.1	37.5	31.3	-18.57	192.5	1,553.6	173.5	129.1	44.39	3.908	
10,100.0	9,900.1	10,091.4	9,899.1	37.6	31.3	-18.57	192.5	1,553.6	173.5	129.0	44.48	3.900	
10,200.0	10,000.1	10,191.4	9,999.1	37.6	31.4	-18.57	192.5	1,553.6	173.5	128.9	44.56	3.892	
10,300.0	10,100.1	10,291.4	10,099.1	37.6	31.4	-18.57	192.5	1,553.6	173.5	128.8	44.65	3.885	
10,400.0	10,200.1	10,391.4	10,199.1	37.6	31.4	-18.57	192.5	1,553.6	173.5	128.7	44.74	3.877	
10,500.0	10,300.1	10,491.4	10,299.1	37.6	31.5	-18.57	192.5	1,553.6	173.5	128.6	44.83	3.869	
10,600.0	10,400.1	10,591.4	10,399.1	37.7	31.5	-18.57	192.5	1,553.6	173.5	128.5	44.92	3.861	
10,700.0	10,500.1	10,691.4	10,499.1	37.7	31.5	-18.57	192.5	1,553.6	173.5	128.4	45.01	3.853	
10,800.0	10,600.1	10,791.4	10,599.1	37.7	31.5	-18.57	192.5	1,553.6	173.5	128.4	45.11	3.846	
10,900.0	10,700.1	10,891.4	10,699.1	37.7	31.6	-18.57	192.5	1,553.6	173.5	128.3	45.20	3.838	
11,000.0	10,800.1	10,991.4	10,799.1	37.7	31.6	-18.57	192.5	1,553.6	173.5	128.2	45.29	3.830	
11,100.0	10,900.1	11,091.4	10,899.1	37.8	31.6	-18.57	192.5	1,553.6	173.5	128.1	45.38	3.822	
11,200.0	11,000.1	11,191.4	10,999.1	37.8	31.7	-18.57	192.5	1,553.6	173.5	128.0	45.47	3.815	
11,300.0	11,100.1	11,291.4	11,099.1	37.8	31.7	-18.57	192.5	1,553.6	173.5	127.9	45.54	3.809	
11,400.0	11,200.1	11,391.4	11,199.1	37.8	31.7	-18.57	192.5	1,553.6	173.5	127.8	45.62	3.802	
11,461.5	11,261.5	11,452.9	11,260.5	37.8	31.7	-18.57	192.5	1,553.6	173.5	127.8	45.65	3.800 SF	
11,475.0	11,275.1	11,463.4	11,271.1	37.8	31.7	161.82	192.6	1,553.6	173.7	128.4	45.33	3.833	
11,500.0	11,300.0	11,481.9	11,289.5	37.9	31.7	161.91	193.3	1,553.6	175.9	130.8	45.09	3.901	
11,525.0	11,324.9	11,500.0	11,307.6	37.9	31.7	162.07	194.6	1,553.6	180.2	135.4	44.82	4.021	
11,550.0	11,349.6	11,517.6	11,325.1	37.9	31.7	162.30	196.6	1,553.5	186.7	142.1	44.55	4.190	
11,575.0	11,374.0	11,534.5	11,341.8	37.9	31.7	162.54	199.1	1,553.5	195.1	150.8	44.29	4.406	
11,600.0	11,398.1	11,550.0	11,357.0	37.9	31.7	162.76	202.0	1,553.5	205.6	161.5	44.06	4.665	
11,625.0	11,421.9	11,565.6	11,372.3	37.9	31.7	162.98	205.3	1,553.5	217.8	173.9	43.89	4.963	
11,650.0	11,445.2	11,579.7	11,385.9	37.9	31.7	163.11	208.7	1,553.4	231.8	188.1	43.76	5.297	
11,675.0	11,468.0	11,592.5	11,398.3	37.9	31.7	163.15	212.2	1,553.4	247.4	203.8	43.69	5.664	
11,700.0	11,490.3	11,600.0	11,405.5	37.9	31.7	162.78	214.4	1,553.4	264.6	220.9	43.68	6.057	
11,725.0	11,511.9	11,614.8	11,419.5	37.9	31.7	162.82	219.1	1,553.3	282.9	239.3	43.67	6.479	
11,750.0	11,532.8	11,625.0	11,429.1	37.9	31.7	162.45	222.5	1,553.3	302.5	258.8	43.70	6.923	
11,775.0	11,553.0	11,632.5	11,436.1	37.9	31.7	161.73	225.2	1,553.3	323.2	279.4	43.77	7.383	
11,800.0	11,572.4	11,639.7	11,442.8	37.9	31.7	160.77	227.9	1,553.3	344.7	300.9	43.85	7.861	
11,825.0	11,590.9	11,650.0	11,452.3	37.9	31.7	159.89	231.8	1,553.2	367.1	323.2	43.89	8.363	
11,850.0	11,608.6	11,650.0	11,452.3	37.9	31.7	157.34	231.8	1,553.2	390.0	346.0	44.04	8.857	
11,875.0	11,625.3	11,650.0	11,452.3	37.9	31.7	153.77	231.8	1,553.2	413.6	369.5	44.18	9.363	
11,900.0	11,641.0	11,658.6	11,460.2	37.9	31.7	150.78	235.3	1,553.2	437.6	393.4	44.21	9.899	
11,925.0	11,655.6	11,661.2	11,462.5	37.9	31.7	144.68	236.4	1,553.2	461.9	417.6	44.29	10.430	
11,950.0	11,669.2	11,662.9	11,464.1	37.9	31.7	134.81	237.1	1,553.2	486.5	442.1	44.36	10.967	
11,975.0	11,681.6	11,663.9	11,465.0	37.9	31.7	118.18	237.6	1,553.2	511.3	466.8	44.43	11.508	
12,000.0	11,692.9	11,664.3	11,465.3	37.9	31.7	92.32	237.7	1,553.2	536.1	491.6	44.48	12.052	
12,025.0	11,703.0	11,664.1	11,465.1	37.9	31.7	63.88	237.6	1,553.2	561.0	516.5	44.53	12.598	
12,050.0	11,712.0	11,663.2	11,464.4	38.0	31.7	43.48	237.3	1,553.2	585.8	541.2	44.57	13.145	
12,075.0	11,719.6	11,661.9	11,463.1	38.0	31.7	31.22	236.7	1,553.2	610.5	565.9	44.59	13.691	
12,100.0	11,726.0	11,660.0	11,461.4	38.0	31.7	23.75	235.9	1,553.2	635.0	590.4	44.61	14.236	
12,125.0	11,731.2	11,657.7	11,459.3	38.0	31.7	18.89	234.9	1,553.2	659.4	614.7	44.62	14.778	
12,150.0	11,735.0	11,650.0	11,452.3	38.0	31.7	15.20	231.8	1,553.2	683.4	638.8	44.66	15.304	
12,175.0	11,737.6	11,650.0	11,452.3	38.0	31.7	13.04	231.8	1,553.2	707.1	662.5	44.62	15.847	
12,200.0	11,738.9	11,650.0	11,452.3	38.1	31.7	11.39	231.8	1,553.2	730.4	685.9	44.57	16.388	
12,211.5	11,739.0	11,650.0	11,452.3	38.1	31.7	10.76	231.8	1,553.2	741.0	696.5	44.55	16.635	
12,300.0	11,739.0	11,633.8	11,437.4	38.2	31.7	10.23	225.7	1,553.3	822.8	778.3	44.50	18.488	
12,400.0	11,739.0	11,625.0	11,429.1	38.3	31.7	9.96	222.5	1,553.3	916.1	871.7	44.42	20.626	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-56.22	100.7	-150.5	181.1	174.1	6.98	25.944	
100.0	100.0	97.0	97.0	3.1	3.1	-56.22	100.7	-150.5	181.1	173.8	7.22	25.083	
200.0	200.0	197.0	197.0	3.2	3.2	-56.22	100.7	-150.5	181.1	173.6	7.46	24.273	
300.0	300.0	297.0	297.0	3.4	3.4	-56.22	100.7	-150.5	181.1	173.4	7.69	23.541	
400.0	400.0	397.0	397.0	3.5	3.5	-56.22	100.7	-150.5	181.1	173.1	7.92	22.869	
500.0	500.0	497.0	497.0	3.6	3.6	-56.22	100.7	-150.5	181.1	172.9	8.14	22.248	
600.0	600.0	597.0	597.0	3.7	3.7	-56.22	100.7	-150.5	181.1	172.7	8.36	21.671	
700.0	700.0	697.0	697.0	3.9	3.9	-56.22	100.7	-150.5	181.1	172.5	8.57	21.135	
800.0	800.0	797.0	797.0	4.0	4.0	-56.22	100.7	-150.5	181.1	172.3	8.78	20.633	
900.0	900.0	897.0	897.0	4.1	4.1	-56.22	100.7	-150.5	181.1	172.1	8.98	20.163	
1,000.0	1,000.0	997.0	997.0	4.2	4.2	-56.22	100.7	-150.5	181.1	171.9	9.18	19.721	
1,100.0	1,100.0	1,097.0	1,097.0	4.3	4.3	-56.22	100.7	-150.5	181.1	171.7	9.38	19.304	
1,200.0	1,200.0	1,197.0	1,197.0	4.5	4.5	-56.22	100.7	-150.5	181.1	171.5	9.58	18.910	
1,300.0	1,300.0	1,297.0	1,297.0	4.6	4.6	-56.22	100.7	-150.5	181.1	171.3	9.77	18.537	
1,400.0	1,400.0	1,397.0	1,397.0	4.7	4.7	-56.22	100.7	-150.5	181.1	171.1	9.96	18.183	
1,500.0	1,500.0	1,497.0	1,497.0	4.8	4.8	-56.22	100.7	-150.5	181.1	170.9	10.15	17.846 CC, ES, SF	
1,600.0	1,600.0	1,595.5	1,595.5	4.9	5.0	-145.99	99.6	-151.7	182.9	172.8	10.05	18.190	
1,700.0	1,699.8	1,693.4	1,693.2	5.1	5.2	-148.26	96.2	-155.3	188.6	178.2	10.43	18.084	
1,800.0	1,799.5	1,790.1	1,789.6	5.3	5.4	-151.71	90.7	-161.2	198.8	188.0	10.83	18.348	
1,900.0	1,898.7	1,885.0	1,883.8	5.6	5.7	-155.90	83.1	-169.4	214.2	202.9	11.28	18.980	
2,000.0	1,997.5	1,977.6	1,975.4	5.9	6.0	-160.37	73.6	-179.5	235.4	223.6	11.79	19.970	
2,100.0	2,095.6	2,067.4	2,063.7	6.3	6.3	-164.75	62.5	-191.5	263.0	250.6	12.34	21.304	
2,200.0	2,193.1	2,154.1	2,148.5	6.6	6.6	-168.80	50.0	-204.9	296.9	284.0	12.93	22.960	
2,300.0	2,289.6	2,240.3	2,232.1	7.0	6.9	-172.50	36.0	-219.9	337.0	323.5	13.55	24.874	
2,400.0	2,385.8	2,328.6	2,317.8	7.3	7.1	-175.72	21.4	-235.5	380.1	365.9	14.13	26.894	
2,500.0	2,481.9	2,416.9	2,403.5	7.7	7.4	-178.31	6.9	-251.1	424.0	409.2	14.74	28.770	
2,600.0	2,578.0	2,505.2	2,489.2	8.0	7.7	179.58	-7.7	-266.7	468.4	453.1	15.36	30.492	
2,700.0	2,674.1	2,593.5	2,574.9	8.4	8.0	177.83	-22.3	-282.4	513.3	497.3	16.01	32.062	
2,800.0	2,770.3	2,681.8	2,660.6	8.8	8.4	176.35	-36.9	-298.0	558.6	541.9	16.68	33.493	
2,900.0	2,866.4	2,770.1	2,746.3	9.2	8.7	175.10	-51.4	-313.6	604.1	586.7	17.36	34.794	
3,000.0	2,962.5	2,858.5	2,832.0	9.6	9.0	174.01	-66.0	-329.2	649.8	631.7	18.06	35.979	
3,100.0	3,058.7	2,946.8	2,917.6	10.1	9.4	173.07	-80.6	-344.9	695.6	676.8	18.77	37.057	
3,200.0	3,154.8	3,035.1	3,003.3	10.5	9.7	172.24	-95.1	-360.5	741.6	722.1	19.50	38.041	
3,300.0	3,250.9	3,123.4	3,089.0	10.9	10.1	171.51	-109.7	-376.1	787.7	767.5	20.23	38.938	
3,400.0	3,347.0	3,211.7	3,174.7	11.4	10.5	170.86	-124.3	-391.7	833.9	812.9	20.97	39.759	
3,500.0	3,443.2	3,300.0	3,260.4	11.8	10.9	170.28	-138.9	-407.4	880.1	858.4	21.73	40.511	
3,600.0	3,539.3	3,388.3	3,346.1	12.3	11.2	169.75	-153.4	-423.0	926.5	904.0	22.49	41.200	
3,700.0	3,635.4	3,476.7	3,431.8	12.7	11.6	169.28	-168.0	-438.6	972.9	949.6	23.26	41.834	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	-56.24	83.9	-125.5	151.0	144.0	6.98	21.633	
100.0	100.0	98.0	98.0	3.1	3.1	-56.24	83.9	-125.5	151.0	143.8	7.22	20.911	
200.0	200.0	198.0	198.0	3.2	3.2	-56.24	83.9	-125.5	151.0	143.5	7.46	20.238	
300.0	300.0	298.0	298.0	3.4	3.4	-56.24	83.9	-125.5	151.0	143.3	7.69	19.629	
400.0	400.0	398.0	398.0	3.5	3.5	-56.24	83.9	-125.5	151.0	143.1	7.92	19.068	
500.0	500.0	498.0	498.0	3.6	3.6	-56.24	83.9	-125.5	151.0	142.9	8.14	18.551	
600.0	600.0	598.0	598.0	3.7	3.7	-56.24	83.9	-125.5	151.0	142.6	8.36	18.070	
700.0	700.0	698.0	698.0	3.9	3.9	-56.24	83.9	-125.5	151.0	142.4	8.57	17.623	
800.0	800.0	798.0	798.0	4.0	4.0	-56.24	83.9	-125.5	151.0	142.2	8.78	17.205	
900.0	900.0	898.0	898.0	4.1	4.1	-56.24	83.9	-125.5	151.0	142.0	8.98	16.813	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	-56.24	83.9	-125.5	151.0	141.8	9.18	16.444	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	-56.24	83.9	-125.5	151.0	141.6	9.38	16.097	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	-56.24	83.9	-125.5	151.0	141.4	9.58	15.768	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	-56.24	83.9	-125.5	151.0	141.2	9.77	15.457	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	-56.24	83.9	-125.5	151.0	141.0	9.96	15.162	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	-56.24	83.9	-125.5	151.0	140.9	10.15	14.881	CC, ES, SF
1,600.0	1,600.0	1,597.2	1,597.1	4.9	5.0	-146.20	82.7	-126.6	152.7	142.6	10.05	15.194	
1,700.0	1,699.8	1,695.7	1,695.6	5.1	5.2	-148.99	79.0	-130.0	158.1	147.6	10.42	15.166	
1,800.0	1,799.5	1,793.1	1,792.6	5.3	5.5	-153.18	72.8	-135.6	167.8	157.0	10.82	15.503	
1,900.0	1,898.7	1,888.7	1,887.6	5.6	5.7	-158.18	64.3	-143.2	182.8	171.5	11.28	16.211	
2,000.0	1,997.5	1,982.1	1,979.9	5.9	6.0	-163.40	53.8	-152.6	203.8	192.0	11.79	17.289	
2,100.0	2,095.6	2,076.0	2,072.3	6.3	6.3	-168.33	41.8	-163.5	230.7	218.3	12.35	18.685	
2,200.0	2,193.1	2,169.3	2,164.2	6.6	6.5	-172.37	29.7	-174.3	262.3	249.4	12.94	20.271	
2,300.0	2,289.6	2,261.3	2,254.8	7.0	6.8	-175.62	17.9	-185.0	298.2	284.7	13.56	21.995	
2,400.0	2,385.8	2,352.7	2,344.8	7.3	7.1	-178.25	6.1	-195.6	336.4	322.3	14.13	23.808	
2,500.0	2,481.9	2,444.1	2,434.8	7.7	7.4	179.65	-5.7	-206.3	375.2	360.4	14.72	25.478	
2,600.0	2,578.0	2,535.5	2,524.8	8.0	7.7	177.93	-17.5	-216.9	414.2	398.9	15.34	27.003	
2,700.0	2,674.1	2,626.9	2,614.9	8.4	8.0	176.51	-29.3	-227.5	453.6	437.6	15.98	28.391	
2,800.0	2,770.3	2,718.3	2,704.9	8.8	8.3	175.32	-41.1	-238.1	493.1	476.5	16.63	29.653	
2,900.0	2,866.4	2,809.7	2,794.9	9.2	8.6	174.30	-52.9	-248.7	532.8	515.5	17.30	30.800	
3,000.0	2,962.5	2,901.1	2,884.9	9.6	9.0	173.42	-64.7	-259.4	572.6	554.6	17.98	31.843	
3,100.0	3,058.7	2,992.5	2,974.9	10.1	9.3	172.66	-76.5	-270.0	612.5	593.8	18.68	32.791	
3,200.0	3,154.8	3,083.9	3,064.9	10.5	9.7	171.98	-88.3	-280.6	652.5	633.1	19.39	33.656	
3,300.0	3,250.9	3,175.3	3,154.9	10.9	10.0	171.39	-100.1	-291.2	692.5	672.4	20.11	34.446	
3,400.0	3,347.0	3,266.7	3,244.9	11.4	10.4	170.86	-111.9	-301.8	732.7	711.8	20.83	35.168	
3,500.0	3,443.2	3,358.1	3,335.0	11.8	10.7	170.38	-123.7	-312.5	772.8	751.3	21.57	35.830	
3,600.0	3,539.3	3,449.5	3,425.0	12.3	11.1	169.96	-135.5	-323.1	813.0	790.7	22.31	36.438	
3,700.0	3,635.4	3,540.9	3,515.0	12.7	11.5	169.57	-147.3	-333.7	853.3	830.2	23.06	36.997	
3,800.0	3,731.5	3,632.3	3,605.0	13.2	11.9	169.22	-159.1	-344.3	893.5	869.7	23.82	37.513	
3,900.0	3,827.7	3,723.7	3,695.0	13.6	12.2	168.89	-170.9	-354.9	933.8	909.2	24.58	37.990	
4,000.0	3,923.8	3,815.1	3,785.0	14.1	12.6	168.60	-182.7	-365.6	974.1	948.8	25.35	38.431	

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

ConocoPhillips

Anticollision Report

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Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	-56.28	67.1	-100.5	120.8	113.8	6.98	17.309	
100.0	100.0	99.0	99.0	3.1	3.1	-56.28	67.1	-100.5	120.8	113.6	7.22	16.727	
200.0	200.0	199.0	199.0	3.2	3.2	-56.28	67.1	-100.5	120.8	113.4	7.46	16.191	
300.0	300.0	299.0	299.0	3.4	3.4	-56.28	67.1	-100.5	120.8	113.1	7.69	15.704	
400.0	400.0	399.0	399.0	3.5	3.5	-56.28	67.1	-100.5	120.8	112.9	7.92	15.256	
500.0	500.0	499.0	499.0	3.6	3.6	-56.28	67.1	-100.5	120.8	112.7	8.14	14.842	
600.0	600.0	599.0	599.0	3.7	3.7	-56.28	67.1	-100.5	120.8	112.5	8.36	14.458	
700.0	700.0	699.0	699.0	3.9	3.9	-56.28	67.1	-100.5	120.8	112.3	8.57	14.100	
800.0	800.0	799.0	799.0	4.0	4.0	-56.28	67.1	-100.5	120.8	112.0	8.78	13.766	
900.0	900.0	899.0	899.0	4.1	4.1	-56.28	67.1	-100.5	120.8	111.8	8.98	13.452	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.28	67.1	-100.5	120.8	111.6	9.18	13.157	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.28	67.1	-100.5	120.8	111.4	9.38	12.879	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.28	67.1	-100.5	120.8	111.2	9.58	12.617	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.28	67.1	-100.5	120.8	111.1	9.77	12.368	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.28	67.1	-100.5	120.8	110.9	9.96	12.132	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.28	67.1	-100.5	120.8	110.7	10.15	11.907 CC, ES, SF	
1,600.0	1,600.0	1,599.0	1,599.0	4.9	5.0	-145.73	67.1	-100.5	122.3	112.1	10.14	12.062	
1,700.0	1,699.8	1,698.8	1,698.8	5.1	5.1	-147.02	67.1	-100.5	126.6	116.1	10.51	12.046	
1,800.0	1,799.5	1,798.5	1,798.5	5.3	5.3	-148.97	67.1	-100.5	134.0	123.1	10.90	12.298	
1,900.0	1,898.7	1,897.7	1,897.7	5.6	5.4	-151.35	67.1	-100.5	144.6	133.3	11.31	12.791	
2,000.0	1,997.5	1,996.5	1,996.5	5.9	5.6	-153.93	67.1	-100.5	158.5	146.8	11.74	13.503	
2,100.0	2,095.6	2,094.6	2,094.6	6.3	5.7	-156.52	67.1	-100.5	175.9	163.7	12.21	14.410	
2,200.0	2,193.1	2,192.1	2,192.1	6.6	5.8	-158.96	67.1	-100.5	196.8	184.1	12.71	15.492	
2,300.0	2,289.6	2,288.6	2,288.6	7.0	5.9	-161.20	67.1	-100.5	221.3	208.0	13.23	16.726	
2,400.0	2,385.8	2,384.8	2,384.8	7.3	6.1	-163.25	67.1	-100.5	247.6	233.9	13.71	18.063	
2,500.0	2,481.9	2,480.9	2,480.9	7.7	6.2	-164.91	67.1	-100.5	274.2	260.0	14.20	19.304	
2,600.0	2,578.0	2,577.0	2,577.0	8.0	6.3	-166.27	67.1	-100.5	301.0	286.2	14.72	20.447	
2,700.0	2,674.1	2,673.1	2,673.1	8.4	6.4	-167.41	67.1	-100.5	327.8	312.6	15.25	21.499	
2,800.0	2,770.3	2,769.3	2,769.3	8.8	6.6	-168.38	67.1	-100.5	354.8	339.1	15.80	22.465	
2,900.0	2,866.4	2,865.4	2,865.4	9.2	6.7	-169.21	67.1	-100.5	381.9	365.6	16.35	23.353	
3,000.0	2,962.5	2,961.5	2,961.5	9.6	6.8	-169.93	67.1	-100.5	409.1	392.1	16.93	24.169	
3,100.0	3,058.7	3,057.7	3,057.7	10.1	6.9	-170.57	67.1	-100.5	436.3	418.8	17.51	24.919	
3,200.0	3,154.8	3,153.8	3,153.8	10.5	7.0	-171.12	67.1	-100.5	463.5	445.4	18.10	25.610	
3,300.0	3,250.9	3,249.9	3,249.9	10.9	7.1	-171.62	67.1	-100.5	490.8	472.1	18.70	26.247	
3,400.0	3,347.0	3,346.0	3,346.0	11.4	7.3	-172.06	67.1	-100.5	518.1	498.8	19.31	26.834	
3,500.0	3,443.2	3,442.2	3,442.2	11.8	7.4	-172.46	67.1	-100.5	545.4	525.5	19.92	27.378	
3,600.0	3,539.3	3,538.3	3,538.3	12.3	7.5	-172.82	67.1	-100.5	572.8	552.2	20.54	27.881	
3,700.0	3,635.4	3,634.4	3,634.4	12.7	7.6	-173.15	67.1	-100.5	600.1	579.0	21.17	28.348	
3,800.0	3,731.5	3,730.5	3,730.5	13.2	7.7	-173.45	67.1	-100.5	627.5	605.7	21.80	28.781	
3,900.0	3,827.7	3,826.7	3,826.7	13.6	7.8	-173.73	67.1	-100.5	654.9	632.5	22.44	29.184	
4,000.0	3,923.8	3,922.8	3,922.8	14.1	7.9	-173.98	67.1	-100.5	682.4	659.3	23.08	29.560	
4,100.0	4,019.9	4,018.9	4,018.9	14.6	8.0	-174.21	67.1	-100.5	709.8	686.1	23.73	29.911	
4,200.0	4,116.0	4,115.0	4,115.0	15.0	8.1	-174.43	67.1	-100.5	737.2	712.8	24.38	30.238	
4,300.0	4,212.2	4,211.2	4,211.2	15.5	8.2	-174.63	67.1	-100.5	764.7	739.6	25.03	30.545	
4,400.0	4,308.3	4,307.3	4,307.3	16.0	8.3	-174.82	67.1	-100.5	792.1	766.4	25.69	30.833	
4,500.0	4,404.4	4,403.4	4,403.4	16.4	8.4	-174.99	67.1	-100.5	819.6	793.2	26.35	31.103	
4,600.0	4,500.5	4,499.5	4,499.5	16.9	8.6	-175.15	67.1	-100.5	847.1	820.0	27.01	31.357	
4,700.0	4,596.7	4,595.7	4,595.7	17.4	8.7	-175.31	67.1	-100.5	874.5	846.9	27.68	31.596	
4,800.0	4,692.8	4,691.8	4,691.8	17.9	8.8	-175.45	67.1	-100.5	902.0	873.7	28.35	31.821	
4,900.0	4,788.9	4,787.9	4,787.9	18.4	8.9	-175.58	67.1	-100.5	929.5	900.5	29.02	32.033	
5,000.0	4,885.0	4,884.0	4,884.0	18.8	9.0	-175.71	67.1	-100.5	957.0	927.3	29.69	32.234	
5,100.0	4,981.2	4,980.2	4,980.2	19.3	9.1	-175.83	67.1	-100.5	984.5	954.1	30.36	32.424	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 #754H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11463-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	-56.25	50.4	-75.4	90.7	83.8	6.98	12.999	
100.0	100.0	99.0	99.0	3.1	3.1	-56.25	50.4	-75.4	90.7	83.5	7.22	12.561	
200.0	200.0	199.0	199.0	3.2	3.2	-56.25	50.4	-75.4	90.7	83.3	7.46	12.159	
300.0	300.0	299.0	299.0	3.4	3.4	-56.25	50.4	-75.4	90.7	83.0	7.69	11.793	
400.0	400.0	399.0	399.0	3.5	3.5	-56.25	50.4	-75.4	90.7	82.8	7.92	11.456	
500.0	500.0	499.0	499.0	3.6	3.6	-56.25	50.4	-75.4	90.7	82.6	8.14	11.145	
600.0	600.0	599.0	599.0	3.7	3.7	-56.25	50.4	-75.4	90.7	82.4	8.36	10.857	
700.0	700.0	699.0	699.0	3.9	3.9	-56.25	50.4	-75.4	90.7	82.2	8.57	10.588	
800.0	800.0	799.0	799.0	4.0	4.0	-56.25	50.4	-75.4	90.7	82.0	8.78	10.337	
900.0	900.0	899.0	899.0	4.1	4.1	-56.25	50.4	-75.4	90.7	81.8	8.98	10.102	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.25	50.4	-75.4	90.7	81.5	9.18	9.880	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.25	50.4	-75.4	90.7	81.4	9.38	9.671	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.25	50.4	-75.4	90.7	81.2	9.58	9.474	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.25	50.4	-75.4	90.7	81.0	9.77	9.287	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.25	50.4	-75.4	90.7	80.8	9.96	9.110	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.25	50.4	-75.4	90.7	80.6	10.15	8.941 CC	
1,600.0	1,600.0	1,601.4	1,601.4	4.9	4.9	-145.15	50.6	-73.7	90.8	80.7	10.12	8.978	
1,700.0	1,699.8	1,703.9	1,703.7	5.1	5.1	-144.83	51.3	-68.2	91.1	80.5	10.57	8.622	
1,800.0	1,799.5	1,806.3	1,805.7	5.3	5.3	-144.29	52.4	-59.2	91.5	80.5	11.03	8.302 ES	
1,900.0	1,898.7	1,908.6	1,907.2	5.6	5.6	-143.54	54.0	-46.6	92.2	80.7	11.50	8.017	
2,000.0	1,997.5	2,008.5	2,006.2	5.9	5.8	-143.46	55.6	-32.8	94.5	82.5	11.96	7.901 SF	
2,100.0	2,095.6	2,108.4	2,105.0	6.3	6.1	-144.55	57.3	-19.0	99.6	87.2	12.47	7.990	
2,200.0	2,193.1	2,208.0	2,203.7	6.6	6.4	-146.54	59.0	-5.2	107.7	94.7	13.05	8.257	
2,300.0	2,289.6	2,307.2	2,301.9	7.0	6.7	-149.10	60.7	8.5	118.9	105.2	13.69	8.686	
2,400.0	2,385.8	2,406.2	2,400.0	7.3	7.0	-151.68	62.4	22.2	131.8	117.5	14.32	9.200	
2,500.0	2,481.9	2,505.2	2,498.0	7.7	7.3	-153.79	64.1	35.8	144.9	129.9	14.99	9.666	
2,600.0	2,578.0	2,604.2	2,596.1	8.0	7.6	-155.56	65.8	49.5	158.2	142.5	15.69	10.084	
2,700.0	2,674.1	2,703.2	2,694.1	8.4	8.0	-157.05	67.4	63.2	171.6	155.2	16.41	10.459	
2,800.0	2,770.3	2,802.2	2,792.1	8.8	8.3	-158.32	69.1	76.9	185.1	168.0	17.15	10.795	
2,900.0	2,866.4	2,901.2	2,890.2	9.2	8.7	-159.42	70.8	90.5	198.7	180.8	17.91	11.096	
3,000.0	2,962.5	3,000.2	2,988.2	9.6	9.0	-160.38	72.5	104.2	212.3	193.7	18.68	11.366	
3,100.0	3,058.7	3,099.2	3,086.3	10.1	9.4	-161.22	74.1	117.9	226.0	206.6	19.47	11.608	
3,200.0	3,154.8	3,198.2	3,184.3	10.5	9.8	-161.97	75.8	131.6	239.8	219.5	20.27	11.827	
3,300.0	3,250.9	3,297.3	3,282.4	10.9	10.2	-162.63	77.5	145.2	253.6	232.5	21.09	12.024	
3,400.0	3,347.0	3,396.3	3,380.4	11.4	10.5	-163.23	79.2	158.9	267.4	245.5	21.91	12.203	
3,500.0	3,443.2	3,495.3	3,478.4	11.8	10.9	-163.77	80.9	172.6	281.2	258.5	22.74	12.365	
3,600.0	3,539.3	3,594.3	3,576.5	12.3	11.3	-164.26	82.5	186.3	295.1	271.5	23.58	12.512	
3,700.0	3,635.4	3,693.3	3,674.5	12.7	11.7	-164.70	84.2	199.9	308.9	284.5	24.43	12.647	
3,800.0	3,731.5	3,792.3	3,772.6	13.2	12.1	-165.11	85.9	213.6	322.8	297.5	25.28	12.770	
3,900.0	3,827.7	3,891.3	3,870.6	13.6	12.5	-165.48	87.6	227.3	336.7	310.6	26.14	12.883	
4,000.0	3,923.8	3,990.3	3,968.7	14.1	12.9	-165.82	89.3	241.0	350.6	323.6	27.00	12.987	
4,100.0	4,019.9	4,089.3	4,066.7	14.6	13.3	-166.14	90.9	254.7	364.6	336.7	27.87	13.083	
4,200.0	4,116.0	4,188.3	4,164.7	15.0	13.7	-166.43	92.6	268.3	378.5	349.8	28.74	13.171	
4,300.0	4,212.2	4,287.0	4,262.4	15.5	14.1	-166.71	94.3	282.0	392.5	362.9	29.60	13.260	
4,400.0	4,308.3	4,379.7	4,354.4	16.0	14.5	-166.98	95.8	293.9	407.3	376.8	30.43	13.383	
4,500.0	4,404.4	4,472.0	4,446.1	16.4	14.8	-167.30	97.0	304.4	423.6	392.3	31.25	13.553	
4,600.0	4,500.5	4,563.8	4,537.4	16.9	15.2	-167.66	98.1	313.3	441.4	409.4	32.06	13.769	
4,700.0	4,596.7	4,655.0	4,628.3	17.4	15.5	-168.05	99.1	320.8	460.8	427.9	32.85	14.026	
4,800.0	4,692.8	4,745.6	4,718.7	17.9	15.8	-168.46	99.8	326.8	481.6	448.0	33.62	14.325	
4,900.0	4,788.9	4,835.6	4,808.6	18.4	16.1	-168.88	100.4	331.3	504.0	469.6	34.37	14.664	
5,000.0	4,885.0	4,924.9	4,897.9	18.8	16.4	-169.31	100.7	334.4	527.9	492.8	35.09	15.043	
5,100.0	4,981.2	5,013.6	4,986.5	19.3	16.6	-169.75	100.9	336.1	553.2	517.4	35.76	15.468	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 #754H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11463-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
5,200.0	5,077.3	5,103.4	5,076.3	19.8	16.7	-170.19	101.0	336.5	579.9	543.6		36.34	15.960
5,300.0	5,173.4	5,199.5	5,172.4	20.3	16.8	-170.63	101.0	336.5	607.1	570.2		36.94	16.437
5,400.0	5,269.6	5,295.6	5,268.6	20.8	16.8	-171.04	101.0	336.5	634.4	596.8		37.53	16.902
5,500.0	5,365.7	5,391.8	5,364.7	21.3	16.9	-171.41	101.0	336.5	661.6	623.5		38.13	17.353
5,600.0	5,461.8	5,487.9	5,460.8	21.8	16.9	-171.75	101.0	336.5	688.9	650.2		38.73	17.789
5,700.0	5,557.9	5,584.0	5,556.9	22.3	17.0	-172.07	101.0	336.5	716.2	676.9		39.33	18.212
5,800.0	5,654.1	5,680.1	5,653.1	22.7	17.0	-172.36	101.0	336.5	743.6	703.6		39.93	18.621
5,900.0	5,750.2	5,776.3	5,749.2	23.2	17.1	-172.63	101.0	336.5	770.9	730.4		40.54	19.017
6,000.0	5,846.3	5,872.4	5,845.3	23.7	17.1	-172.88	101.0	336.5	798.3	757.1		41.15	19.401
6,100.0	5,942.4	5,968.5	5,941.4	24.2	17.2	-173.12	101.0	336.5	825.6	783.9		41.76	19.773
6,124.5	5,966.0	5,992.1	5,965.0	24.3	17.2	-173.18	101.0	336.5	832.4	790.5		41.90	19.865
6,200.0	6,038.6	6,064.7	6,037.6	24.7	17.2	-173.35	101.0	336.5	852.8	810.4		42.36	20.133
6,300.0	6,135.1	6,161.1	6,134.1	25.2	17.2	-173.57	101.0	336.5	879.1	836.2		42.97	20.460
6,400.0	6,231.7	6,257.8	6,230.7	25.7	17.3	-173.76	101.0	336.5	904.7	861.1		43.58	20.759
6,500.0	6,328.6	6,354.6	6,327.6	26.2	17.3	-173.94	101.0	336.5	929.3	885.2		44.19	21.032
6,600.0	6,425.7	6,451.7	6,424.7	26.6	17.4	-174.11	101.0	336.5	953.2	908.4		44.80	21.279
6,700.0	6,522.9	6,549.0	6,521.9	27.1	17.4	-174.26	101.0	336.5	976.2	930.8		45.40	21.502
6,800.0	6,620.4	6,646.5	6,619.4	27.6	17.5	-174.40	101.0	336.5	998.4	952.4		46.00	21.702

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	-56.30	33.5	-50.3	60.4	53.5	6.98	8.659	
100.0	100.0	99.0	99.0	3.1	3.1	-56.30	33.5	-50.3	60.4	53.2	7.22	8.366	
200.0	200.0	199.0	199.0	3.2	3.2	-56.30	33.5	-50.3	60.4	53.0	7.46	8.099	
300.0	300.0	299.0	299.0	3.4	3.4	-56.30	33.5	-50.3	60.4	52.7	7.69	7.855	
400.0	400.0	399.0	399.0	3.5	3.5	-56.30	33.5	-50.3	60.4	52.5	7.92	7.631	
500.0	500.0	499.0	499.0	3.6	3.6	-56.30	33.5	-50.3	60.4	52.3	8.14	7.424	
600.0	600.0	599.0	599.0	3.7	3.7	-56.30	33.5	-50.3	60.4	52.1	8.36	7.232	
700.0	700.0	699.0	699.0	3.9	3.9	-56.30	33.5	-50.3	60.4	51.9	8.57	7.053	
800.0	800.0	799.0	799.0	4.0	4.0	-56.30	33.5	-50.3	60.4	51.7	8.78	6.885	
900.0	900.0	899.0	899.0	4.1	4.1	-56.30	33.5	-50.3	60.4	51.5	8.98	6.729	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.30	33.5	-50.3	60.4	51.3	9.18	6.581	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.30	33.5	-50.3	60.4	51.1	9.38	6.442	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.30	33.5	-50.3	60.4	50.9	9.58	6.311	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.30	33.5	-50.3	60.4	50.7	9.77	6.186	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.30	33.5	-50.3	60.4	50.5	9.96	6.068	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.30	33.5	-50.3	60.4	50.3	10.15	5.956 CC	
1,600.0	1,600.0	1,600.7	1,600.7	4.9	4.9	-145.23	33.7	-48.5	60.5	50.4	10.12	5.977	
1,700.0	1,699.8	1,702.4	1,702.2	5.1	5.1	-144.99	34.0	-43.2	60.6	50.0	10.57	5.732	
1,800.0	1,799.5	1,804.1	1,803.5	5.3	5.3	-144.57	34.7	-34.2	60.8	49.8	11.04	5.508	
1,900.0	1,898.7	1,905.8	1,904.4	5.6	5.6	-143.98	35.5	-21.7	61.0	49.5	11.52	5.301	
2,000.0	1,997.5	2,007.4	2,004.8	5.9	5.9	-143.22	36.7	-5.6	61.4	49.4	12.01	5.109	
2,100.0	2,095.6	2,108.9	2,104.4	6.3	6.3	-142.31	38.0	14.0	61.8	49.3	12.52	4.934 ES	
2,200.0	2,193.1	2,208.9	2,202.2	6.6	6.6	-142.49	39.5	34.8	63.9	50.8	13.06	4.889 SF	
2,300.0	2,289.6	2,308.8	2,299.8	7.0	6.9	-144.38	40.9	55.5	68.7	55.0	13.69	5.021	
2,400.0	2,385.8	2,408.5	2,397.4	7.3	7.2	-146.82	42.4	76.2	75.1	60.8	14.34	5.240	
2,500.0	2,481.9	2,508.3	2,495.0	7.7	7.6	-148.87	43.8	96.8	81.6	66.6	15.02	5.434	
2,600.0	2,578.0	2,608.0	2,592.5	8.0	7.9	-150.61	45.3	117.5	88.2	72.5	15.74	5.606	
2,700.0	2,674.1	2,707.8	2,690.1	8.4	8.3	-152.11	46.7	138.2	94.9	78.4	16.49	5.756	
2,800.0	2,770.3	2,807.5	2,787.7	8.8	8.7	-153.42	48.2	158.9	101.6	84.4	17.26	5.889	
2,900.0	2,866.4	2,907.3	2,885.2	9.2	9.0	-154.56	49.6	179.6	108.4	90.4	18.05	6.006	
3,000.0	2,962.5	3,007.0	2,982.8	9.6	9.4	-155.57	51.1	200.3	115.2	96.4	18.86	6.109	
3,100.0	3,058.7	3,106.8	3,080.4	10.1	9.8	-156.46	52.5	221.0	122.1	102.4	19.69	6.200	
3,200.0	3,154.8	3,206.5	3,178.0	10.5	10.2	-157.26	53.9	241.7	128.9	108.4	20.53	6.281	
3,300.0	3,250.9	3,306.3	3,275.5	10.9	10.7	-157.98	55.4	262.4	135.8	114.4	21.38	6.353	
3,400.0	3,347.0	3,406.0	3,373.1	11.4	11.1	-158.63	56.8	283.0	142.7	120.5	22.24	6.417	
3,500.0	3,443.2	3,505.8	3,470.7	11.8	11.5	-159.22	58.3	303.7	149.7	126.5	23.12	6.474	
3,600.0	3,539.3	3,605.5	3,568.2	12.3	11.9	-159.75	59.7	324.4	156.6	132.6	24.00	6.526	
3,700.0	3,635.4	3,705.2	3,665.8	12.7	12.4	-160.25	61.2	345.1	163.6	138.7	24.89	6.572	
3,800.0	3,731.5	3,805.0	3,763.4	13.2	12.8	-160.70	62.6	365.8	170.5	144.7	25.78	6.614	
3,900.0	3,827.7	3,904.7	3,860.9	13.6	13.2	-161.11	64.1	386.5	177.5	150.8	26.68	6.652	
4,000.0	3,923.8	4,004.5	3,958.5	14.1	13.7	-161.50	65.5	407.2	184.5	156.9	27.59	6.686	
4,100.0	4,019.9	4,104.2	4,056.1	14.6	14.1	-161.85	67.0	427.9	191.5	163.0	28.50	6.718	
4,200.0	4,116.0	4,204.0	4,153.6	15.0	14.5	-162.18	68.4	448.5	198.5	169.0	29.42	6.746	
4,300.0	4,212.2	4,303.7	4,251.2	15.5	15.0	-162.49	69.9	469.2	205.5	175.1	30.34	6.773	
4,400.0	4,308.3	4,403.5	4,348.8	16.0	15.4	-162.78	71.3	489.9	212.5	181.2	31.26	6.797	
4,500.0	4,404.4	4,503.2	4,446.3	16.4	15.9	-163.05	72.8	510.6	219.5	187.3	32.19	6.819	
4,600.0	4,500.5	4,603.0	4,543.9	16.9	16.3	-163.30	74.2	531.3	226.5	193.4	33.12	6.839	
4,700.0	4,596.7	4,702.7	4,641.5	17.4	16.8	-163.54	75.6	552.0	233.5	199.5	34.05	6.858	
4,800.0	4,692.8	4,802.5	4,739.1	17.9	17.2	-163.77	77.1	572.7	240.6	205.6	34.99	6.876	
4,900.0	4,788.9	4,902.2	4,836.6	18.4	17.7	-163.98	78.5	593.4	247.6	211.7	35.93	6.892	
5,000.0	4,885.0	5,002.0	4,934.2	18.8	18.1	-164.18	80.0	614.1	254.6	217.8	36.87	6.907	
5,100.0	4,981.2	5,101.7	5,031.8	19.3	18.6	-164.37	81.4	634.7	261.7	223.8	37.81	6.920	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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	
5,200.0	5,077.3	5,197.4	5,125.4	19.8	19.0	-164.59	82.8	653.9	269.4	230.7	38.73	6.957	
5,300.0	5,173.4	5,292.6	5,219.0	20.3	19.5	-164.90	84.0	671.3	278.8	239.2	39.64	7.033	
5,400.0	5,269.6	5,387.5	5,312.6	20.8	19.9	-165.28	85.1	687.2	289.7	249.2	40.54	7.146	
5,500.0	5,365.7	5,482.0	5,406.0	21.3	20.3	-165.73	86.1	701.5	302.2	260.8	41.44	7.294	
5,600.0	5,461.8	5,576.1	5,499.3	21.8	20.7	-166.22	87.0	714.1	316.3	274.0	42.32	7.476	
5,700.0	5,557.9	5,669.7	5,592.2	22.3	21.1	-166.75	87.8	725.2	332.0	288.8	43.18	7.690	
5,800.0	5,654.1	5,762.9	5,684.9	22.7	21.4	-167.29	88.4	734.8	349.3	305.3	44.02	7.935	
5,900.0	5,750.2	5,855.4	5,777.1	23.2	21.8	-167.84	89.0	742.7	368.1	323.3	44.83	8.210	
6,000.0	5,846.3	5,947.4	5,868.8	23.7	22.1	-168.40	89.4	749.2	388.5	342.9	45.62	8.515	
6,100.0	5,942.4	6,038.7	5,960.0	24.2	22.4	-168.95	89.8	754.2	410.4	364.1	46.38	8.850	
6,124.5	5,966.0	6,060.9	5,982.2	24.3	22.5	-169.08	89.9	755.1	416.0	369.5	46.55	8.937	
6,200.0	6,038.6	6,129.3	6,050.6	24.7	22.7	-169.50	90.0	757.6	433.7	386.6	47.09	9.210	
6,300.0	6,135.1	6,219.5	6,140.7	25.2	23.0	-170.02	90.2	759.7	457.6	409.9	47.74	9.586	
6,400.0	6,231.7	6,309.5	6,230.7	25.7	23.1	-170.52	90.2	760.3	482.3	434.0	48.29	9.988	
6,500.0	6,328.6	6,406.4	6,327.6	26.2	23.1	-171.00	90.2	760.3	506.8	457.9	48.86	10.372	
6,600.0	6,425.7	6,503.5	6,424.7	26.6	23.2	-171.42	90.2	760.3	530.5	481.1	49.43	10.732	
6,700.0	6,522.9	6,600.7	6,521.9	27.1	23.2	-171.80	90.2	760.3	553.4	503.4	50.00	11.068	
6,800.0	6,620.4	6,698.2	6,619.4	27.6	23.2	-172.13	90.2	760.3	575.5	524.9	50.56	11.382	
6,900.0	6,718.1	6,795.9	6,717.1	28.1	23.3	-172.43	90.2	760.3	596.7	545.6	51.12	11.673	
7,000.0	6,816.0	6,893.8	6,815.0	28.5	23.3	-172.69	90.2	760.3	617.1	565.5	51.67	11.943	
7,100.0	6,914.0	6,991.8	6,913.0	29.0	23.3	-172.93	90.2	760.3	636.7	584.5	52.23	12.191	
7,200.0	7,012.2	7,090.0	7,011.2	29.5	23.4	-173.14	90.2	760.3	655.4	602.7	52.77	12.420	
7,300.0	7,110.6	7,188.4	7,109.6	29.9	23.4	-173.34	90.2	760.3	673.3	620.0	53.32	12.629	
7,400.0	7,209.1	7,286.9	7,208.1	30.4	23.4	-173.51	90.2	760.3	690.3	636.5	53.86	12.818	
7,500.0	7,307.8	7,385.6	7,306.8	30.8	23.5	-173.67	90.2	760.3	706.5	652.1	54.39	12.990	
7,600.0	7,406.6	7,484.4	7,405.6	31.3	23.5	-173.81	90.2	760.3	721.9	666.9	54.92	13.144	
7,700.0	7,505.5	7,583.3	7,504.5	31.7	23.5	-173.94	90.2	760.3	736.3	680.9	55.44	13.281	
7,800.0	7,604.6	7,682.4	7,603.6	32.1	23.6	-174.06	90.2	760.3	750.0	694.0	55.96	13.401	
7,900.0	7,703.7	7,781.5	7,702.7	32.6	23.6	-174.17	90.2	760.3	762.7	706.3	56.48	13.505	
8,000.0	7,803.0	7,880.8	7,802.0	33.0	23.6	-174.26	90.2	760.3	774.6	717.7	56.98	13.594	
8,100.0	7,902.4	7,980.2	7,901.4	33.4	23.7	-174.35	90.2	760.3	785.7	728.2	57.48	13.668	
8,200.0	8,001.9	8,079.7	8,000.9	33.8	23.7	-174.43	90.2	760.3	795.9	737.9	57.98	13.727	
8,300.0	8,101.4	8,179.2	8,100.4	34.2	23.7	-174.50	90.2	760.3	805.2	746.7	58.46	13.773	
8,400.0	8,201.1	8,278.9	8,200.1	34.6	23.8	-174.56	90.2	760.3	813.6	754.7	58.93	13.806	
8,500.0	8,300.8	8,378.6	8,299.8	34.9	23.8	-174.61	90.2	760.3	821.2	761.8	59.40	13.826	
8,600.0	8,400.5	8,478.3	8,399.5	35.3	23.9	-174.66	90.2	760.3	828.0	768.1	59.85	13.834	
8,700.0	8,500.4	8,578.2	8,499.4	35.7	23.9	-174.70	90.2	760.3	833.8	773.5	60.29	13.830	
8,800.0	8,600.2	8,678.0	8,599.2	36.0	23.9	-174.73	90.2	760.3	838.8	778.1	60.72	13.815	
8,900.0	8,700.2	8,778.0	8,699.2	36.3	24.0	-174.76	90.2	760.3	842.9	781.8	61.13	13.790	
9,000.0	8,800.1	8,877.9	8,799.1	36.6	24.0	-174.78	90.2	760.3	846.2	784.7	61.52	13.756	
9,100.0	8,900.1	8,977.9	8,899.1	36.9	24.0	-174.80	90.2	760.3	848.6	786.7	61.88	13.713	
9,200.0	9,000.1	9,077.9	8,999.1	37.2	24.1	-174.81	90.2	760.3	850.1	787.9	62.21	13.665	
9,300.0	9,100.1	9,177.9	9,099.1	37.4	24.1	-174.81	90.2	760.3	850.7	788.3	62.48	13.616	
9,324.5	9,124.6	9,202.4	9,123.6	37.4	24.1	-85.81	90.2	760.3	850.8	788.2	62.51	13.610	
9,400.0	9,200.1	9,277.9	9,199.1	37.4	24.2	-85.81	90.2	760.3	850.8	788.2	62.55	13.602	
9,500.0	9,300.1	9,377.9	9,299.1	37.4	24.2	-85.81	90.2	760.3	850.8	788.2	62.60	13.590	
9,600.0	9,400.1	9,477.9	9,399.1	37.4	24.2	-85.81	90.2	760.3	850.8	788.1	62.65	13.579	
9,700.0	9,500.1	9,577.9	9,499.1	37.5	24.3	-85.81	90.2	760.3	850.8	788.0	62.71	13.567	
9,800.0	9,600.1	9,677.9	9,599.1	37.5	24.3	-85.81	90.2	760.3	850.8	788.0	62.76	13.555	
9,900.0	9,700.1	9,777.9	9,699.1	37.5	24.4	-85.81	90.2	760.3	850.8	787.9	62.82	13.543	
10,000.0	9,800.1	9,877.9	9,799.1	37.5	24.4	-85.81	90.2	760.3	850.8	787.9	62.87	13.531	
10,100.0	9,900.1	9,977.9	9,899.1	37.6	24.4	-85.81	90.2	760.3	850.8	787.8	62.93	13.519	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.0	10,000.1	10,077.9	9,999.1	37.6	24.5	-85.81	90.2	760.3	850.8	787.8	62.99	13.507	
10,300.0	10,100.1	10,177.9	10,099.1	37.6	24.5	-85.81	90.2	760.3	850.8	787.7	63.04	13.495	
10,400.0	10,200.1	10,277.9	10,199.1	37.6	24.6	-85.81	90.2	760.3	850.8	787.7	63.10	13.483	
10,500.0	10,300.1	10,377.9	10,299.1	37.6	24.6	-85.81	90.2	760.3	850.8	787.6	63.16	13.471	
10,600.0	10,400.1	10,477.9	10,399.1	37.7	24.7	-85.81	90.2	760.3	850.8	787.5	63.21	13.458	
10,700.0	10,500.1	10,577.9	10,499.1	37.7	24.7	-85.81	90.2	760.3	850.8	787.5	63.27	13.446	
10,800.0	10,600.1	10,677.9	10,599.1	37.7	24.7	-85.81	90.2	760.3	850.8	787.4	63.33	13.434	
10,900.0	10,700.1	10,777.9	10,699.1	37.7	24.8	-85.81	90.2	760.3	850.8	787.4	63.39	13.421	
11,000.0	10,800.1	10,877.9	10,799.1	37.7	24.8	-85.81	90.2	760.3	850.8	787.3	63.45	13.409	
11,100.0	10,900.1	10,977.9	10,899.1	37.8	24.9	-85.81	90.2	760.3	850.8	787.3	63.51	13.396	
11,200.0	11,000.1	11,077.9	10,999.1	37.8	24.9	-85.81	90.2	760.3	850.8	787.2	63.57	13.384	
11,300.0	11,100.1	11,177.9	11,099.1	37.8	25.0	-85.81	90.2	760.3	850.8	787.1	63.63	13.371	
11,400.0	11,200.1	11,277.9	11,199.1	37.8	25.0	-85.81	90.2	760.3	850.8	787.1	63.69	13.358	
11,461.5	11,261.5	11,339.3	11,260.5	37.8	25.0	-85.81	90.2	760.3	850.8	787.0	63.71	13.354	
11,475.0	11,275.1	11,355.1	11,276.3	37.8	25.0	94.56	90.0	760.3	850.8	787.2	63.52	13.394	
11,500.0	11,300.0	11,384.2	11,305.3	37.9	25.0	94.54	88.1	760.3	850.7	787.2	63.57	13.382	
11,525.0	11,324.9	11,413.3	11,334.2	37.9	25.0	94.51	84.5	760.4	850.7	787.1	63.63	13.370	
11,550.0	11,349.6	11,442.3	11,362.7	37.9	25.0	94.47	79.1	760.4	850.7	787.0	63.68	13.357	
11,575.0	11,374.0	11,471.3	11,390.9	37.9	25.0	94.41	72.1	760.4	850.6	786.8	63.74	13.345	
11,600.0	11,398.1	11,500.2	11,418.4	37.9	25.0	94.34	63.4	760.5	850.5	786.7	63.79	13.333	
11,625.0	11,421.9	11,529.1	11,445.3	37.9	25.0	94.25	53.0	760.6	850.4	786.6	63.84	13.321	
11,650.0	11,445.2	11,557.8	11,471.4	37.9	25.0	94.15	41.1	760.7	850.3	786.4	63.89	13.309	
11,675.0	11,468.0	11,586.3	11,496.7	37.9	25.0	94.03	27.7	760.7	850.2	786.2	63.94	13.298	
11,700.0	11,490.3	11,614.8	11,521.0	37.9	25.0	93.91	12.9	760.8	850.1	786.1	63.98	13.287	
11,725.0	11,511.9	11,643.1	11,544.2	37.9	25.0	93.77	-3.2	760.9	849.9	785.9	64.02	13.277	
11,750.0	11,532.8	11,671.2	11,566.4	37.9	25.0	93.62	-20.6	761.1	849.8	785.7	64.05	13.267	
11,775.0	11,553.0	11,699.2	11,587.3	37.9	25.1	93.46	-39.1	761.2	849.6	785.5	64.08	13.258	
11,800.0	11,572.4	11,727.0	11,607.0	37.9	25.1	93.29	-58.7	761.3	849.5	785.4	64.11	13.251	
11,825.0	11,590.9	11,754.7	11,625.4	37.9	25.1	93.12	-79.3	761.4	849.3	785.2	64.13	13.243	
11,850.0	11,608.6	11,782.1	11,642.5	37.9	25.1	92.93	-100.8	761.6	849.2	785.0	64.15	13.237	
11,875.0	11,625.3	11,809.3	11,658.2	37.9	25.1	92.73	-123.0	761.7	849.0	784.9	64.17	13.231	
11,900.0	11,641.0	11,836.4	11,672.5	37.9	25.1	92.53	-146.0	761.9	848.9	784.7	64.18	13.227	
11,925.0	11,655.6	11,863.2	11,685.5	37.9	25.1	92.32	-169.5	762.0	848.8	784.6	64.19	13.223	
11,950.0	11,669.2	11,889.9	11,696.9	37.9	25.1	92.11	-193.5	762.2	848.6	784.4	64.20	13.219	
11,975.0	11,681.6	11,916.3	11,707.0	37.9	25.2	91.89	-218.0	762.3	848.5	784.3	64.20	13.217	
12,000.0	11,692.9	11,942.5	11,715.6	37.9	25.2	91.66	-242.7	762.5	848.4	784.2	64.20	13.214	
12,025.0	11,703.0	11,968.6	11,722.8	37.9	25.2	91.43	-267.8	762.7	848.3	784.1	64.20	13.213	
12,050.0	11,712.0	11,994.4	11,728.6	38.0	25.2	91.20	-292.9	762.8	848.3	784.0	64.20	13.212	
12,075.0	11,719.6	12,020.0	11,733.0	38.0	25.3	90.97	-318.2	763.0	848.2	784.0	64.20	13.211	
12,100.0	11,726.0	12,045.5	11,736.0	38.0	25.3	90.73	-343.4	763.2	848.1	783.9	64.20	13.211	
12,125.0	11,731.2	12,070.7	11,737.6	38.0	25.3	90.50	-368.6	763.3	848.1	783.9	64.20	13.211	
12,150.0	11,735.0	12,095.7	11,738.0	38.0	25.3	90.26	-393.6	763.5	848.1	783.9	64.20	13.211	
12,175.0	11,737.6	12,120.5	11,738.0	38.0	25.4	90.09	-418.5	763.6	848.1	783.9	64.21	13.208	
12,200.0	11,738.9	12,145.5	11,738.0	38.1	25.4	90.01	-443.4	763.8	848.1	783.8	64.24	13.201	
12,211.5	11,739.0	12,157.0	11,738.0	38.1	25.4	90.00	-454.9	763.9	848.1	783.8	64.26	13.197	
12,300.0	11,739.0	12,245.5	11,738.0	38.2	25.6	90.00	-543.4	764.5	848.1	783.6	64.45	13.159	
12,400.0	11,739.0	12,345.5	11,738.0	38.3	25.7	90.00	-643.4	765.1	848.1	783.4	64.69	13.109	
12,500.0	11,739.0	12,445.5	11,738.0	38.4	25.9	90.00	-743.4	765.8	848.1	783.1	64.97	13.052	
12,600.0	11,739.0	12,545.5	11,738.0	38.5	26.1	90.00	-843.4	766.4	848.1	782.8	65.29	12.989	
12,700.0	11,739.0	12,645.5	11,738.0	38.7	26.4	90.00	-943.4	767.1	848.1	782.4	65.64	12.920	
12,800.0	11,739.0	12,745.5	11,738.0	38.8	26.6	90.00	-1,043.4	767.7	848.1	782.0	66.02	12.846	
12,900.0	11,739.0	12,845.5	11,738.0	39.0	26.9	90.00	-1,143.4	768.4	848.1	781.6	66.43	12.766	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,000.0	11,739.0	12,945.5	11,738.0	39.2	27.2	90.00	-1,243.4	769.0	848.1	781.2	66.88	12.681	
13,100.0	11,739.0	13,045.5	11,738.0	39.4	27.5	90.00	-1,343.4	769.7	848.1	780.7	67.35	12.591	
13,200.0	11,739.0	13,145.5	11,738.0	39.7	27.8	90.00	-1,443.4	770.3	848.1	780.2	67.86	12.498	
13,300.0	11,739.0	13,245.5	11,738.0	39.9	28.2	90.00	-1,543.4	771.0	848.1	779.7	68.39	12.400	
13,400.0	11,739.0	13,345.5	11,738.0	40.2	28.5	90.00	-1,643.4	771.6	848.1	779.1	68.96	12.298	
13,500.0	11,739.0	13,445.5	11,738.0	40.4	28.9	90.00	-1,743.4	772.3	848.1	778.5	69.55	12.193	
13,600.0	11,739.0	13,545.5	11,738.0	40.7	29.3	90.00	-1,843.4	772.9	848.0	777.9	70.17	12.085	
13,700.0	11,739.0	13,645.5	11,738.0	41.0	29.7	90.00	-1,943.4	773.6	848.0	777.2	70.82	11.975	
13,800.0	11,739.0	13,745.5	11,738.0	41.3	30.1	90.00	-2,043.4	774.2	848.0	776.6	71.49	11.862	
13,900.0	11,739.0	13,845.5	11,738.0	41.6	30.5	90.00	-2,143.4	774.9	848.0	775.9	72.19	11.747	
14,000.0	11,739.0	13,945.5	11,738.0	41.9	31.0	90.00	-2,243.4	775.5	848.0	775.1	72.91	11.631	
14,100.0	11,739.0	14,045.5	11,738.0	42.3	31.4	90.00	-2,343.4	776.2	848.0	774.4	73.66	11.513	
14,200.0	11,739.0	14,145.5	11,738.0	42.6	31.9	90.00	-2,443.4	776.8	848.0	773.6	74.43	11.394	
14,300.0	11,739.0	14,245.5	11,738.0	43.0	32.4	90.00	-2,543.4	777.5	848.0	772.8	75.22	11.274	
14,400.0	11,739.0	14,345.5	11,738.0	43.4	32.9	90.00	-2,643.4	778.1	848.0	772.0	76.04	11.153	
14,500.0	11,739.0	14,445.5	11,738.0	43.7	33.4	90.00	-2,743.4	778.8	848.0	771.2	76.87	11.032	
14,600.0	11,739.0	14,545.5	11,738.0	44.1	33.9	90.00	-2,843.4	779.4	848.0	770.3	77.73	10.910	
14,700.0	11,739.0	14,645.5	11,738.0	44.5	34.4	90.00	-2,943.4	780.1	848.0	769.4	78.60	10.789	
14,800.0	11,739.0	14,745.5	11,738.0	44.9	34.9	90.00	-3,043.4	780.7	848.0	768.5	79.50	10.668	
14,900.0	11,739.0	14,845.5	11,738.0	45.3	35.5	90.00	-3,143.4	781.4	848.0	767.6	80.41	10.546	
15,000.0	11,739.0	14,945.5	11,738.0	45.8	36.0	90.00	-3,243.4	782.0	848.0	766.7	81.34	10.426	
15,100.0	11,739.0	15,045.5	11,738.0	46.2	36.6	90.00	-3,343.4	782.7	848.0	765.7	82.29	10.306	
15,200.0	11,739.0	15,145.5	11,738.0	46.6	37.1	90.00	-3,443.4	783.3	848.0	764.8	83.25	10.186	
15,300.0	11,739.0	15,245.5	11,738.0	47.1	37.7	90.00	-3,543.4	784.0	848.0	763.8	84.23	10.068	
15,400.0	11,739.0	15,345.5	11,738.0	47.6	38.3	90.00	-3,643.3	784.6	848.0	762.8	85.23	9.950	
15,500.0	11,739.0	15,445.5	11,738.0	48.0	38.8	90.00	-3,743.3	785.3	848.0	761.8	86.24	9.834	
15,600.0	11,739.0	15,545.5	11,738.0	48.5	39.4	90.00	-3,843.3	785.9	848.0	760.8	87.26	9.718	
15,700.0	11,739.0	15,645.5	11,738.0	49.0	40.0	90.00	-3,943.3	786.6	848.0	759.7	88.30	9.604	
15,800.0	11,739.0	15,745.5	11,738.0	49.5	40.6	90.00	-4,043.3	787.2	848.0	758.7	89.35	9.491	
15,900.0	11,739.0	15,845.5	11,738.0	50.0	41.2	90.00	-4,143.3	787.9	848.0	757.6	90.42	9.379	
16,000.0	11,739.0	15,945.5	11,738.0	50.5	41.8	90.00	-4,243.3	788.5	848.0	756.5	91.50	9.268	
16,100.0	11,739.0	16,045.5	11,738.0	51.0	42.4	90.00	-4,343.3	789.2	848.0	755.4	92.59	9.159	
16,200.0	11,739.0	16,145.5	11,738.0	51.5	43.0	90.00	-4,443.3	789.8	848.0	754.3	93.69	9.052	
16,300.0	11,739.0	16,245.5	11,738.0	52.0	43.7	90.00	-4,543.3	790.5	848.0	753.2	94.80	8.945	
16,400.0	11,739.0	16,345.5	11,738.0	52.5	44.3	90.00	-4,643.3	791.1	848.0	752.1	95.92	8.841	
16,500.0	11,739.0	16,445.5	11,738.0	53.0	44.9	90.00	-4,743.3	791.8	848.0	751.0	97.06	8.737	
16,600.0	11,739.0	16,545.5	11,738.0	53.6	45.6	90.00	-4,843.3	792.4	848.0	749.8	98.20	8.636	
16,700.0	11,739.0	16,645.5	11,738.0	54.1	46.2	90.00	-4,943.3	793.1	848.0	748.7	99.35	8.535	
16,800.0	11,739.0	16,745.5	11,738.0	54.7	46.8	90.00	-5,043.3	793.8	848.0	747.5	100.52	8.437	
16,900.0	11,739.0	16,845.5	11,738.0	55.2	47.5	90.00	-5,143.3	794.4	848.0	746.3	101.69	8.339	
17,000.0	11,739.0	16,945.5	11,738.0	55.8	48.1	90.00	-5,243.3	795.1	848.0	745.2	102.87	8.244	
17,100.0	11,739.0	17,045.5	11,738.0	56.3	48.8	90.00	-5,343.3	795.7	848.0	744.0	104.06	8.150	
17,200.0	11,739.0	17,145.5	11,738.0	56.9	49.4	90.00	-5,443.3	796.4	848.0	742.8	105.26	8.057	
17,300.0	11,739.0	17,245.5	11,738.0	57.5	50.1	90.00	-5,543.3	797.0	848.0	741.6	106.46	7.966	
17,400.0	11,739.0	17,345.5	11,738.0	58.1	50.8	90.00	-5,643.3	797.7	848.0	740.3	107.67	7.876	
17,500.0	11,739.0	17,445.5	11,738.0	58.6	51.4	90.00	-5,743.3	798.3	848.0	739.1	108.89	7.788	
17,600.0	11,739.0	17,545.5	11,738.0	59.2	52.1	90.00	-5,843.3	799.0	848.0	737.9	110.12	7.701	
17,700.0	11,739.0	17,645.5	11,738.0	59.8	52.8	90.00	-5,943.3	799.6	848.0	736.7	111.35	7.616	
17,800.0	11,739.0	17,745.5	11,738.0	60.4	53.4	90.00	-6,043.3	800.3	848.0	735.4	112.59	7.532	
17,900.0	11,739.0	17,845.5	11,738.0	61.0	54.1	90.00	-6,143.3	800.9	848.0	734.2	113.84	7.449	
18,000.0	11,739.0	17,945.5	11,738.0	61.6	54.8	90.00	-6,243.3	801.6	848.0	732.9	115.10	7.368	
18,100.0	11,739.0	18,045.5	11,738.0	62.2	55.5	90.00	-6,343.3	802.2	848.0	731.7	116.35	7.288	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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
18,200.0	11,739.0	18,145.5	11,738.0	62.8	56.1	90.00	-6,443.3	802.9	848.0	730.4	117.62	7.210	
18,300.0	11,739.0	18,245.5	11,738.0	63.4	56.8	90.00	-6,543.3	803.5	848.0	729.1	118.89	7.133	
18,400.0	11,739.0	18,345.5	11,738.0	64.0	57.5	90.00	-6,643.3	804.2	848.0	727.8	120.17	7.057	
18,500.0	11,739.0	18,445.5	11,738.0	64.6	58.2	90.00	-6,743.3	804.8	848.0	726.6	121.45	6.982	
18,600.0	11,739.0	18,545.5	11,738.0	65.3	58.9	90.00	-6,843.3	805.5	848.0	725.3	122.74	6.909	
18,700.0	11,739.0	18,645.5	11,738.0	65.9	59.6	90.00	-6,943.3	806.1	848.0	724.0	124.03	6.837	
18,800.0	11,739.0	18,745.5	11,738.0	66.5	60.3	90.00	-7,043.3	806.8	848.0	722.7	125.32	6.767	
18,900.0	11,739.0	18,845.5	11,738.0	67.1	61.0	90.00	-7,143.3	807.4	848.0	721.4	126.62	6.697	
19,000.0	11,739.0	18,945.5	11,738.0	67.8	61.7	90.00	-7,243.3	808.1	848.0	720.1	127.93	6.629	
19,100.0	11,739.0	19,045.5	11,738.0	68.4	62.4	90.00	-7,343.3	808.7	848.0	718.8	129.24	6.561	
19,200.0	11,739.0	19,145.5	11,738.0	69.0	63.0	90.00	-7,443.3	809.4	848.0	717.5	130.55	6.495	
19,300.0	11,739.0	19,245.5	11,738.0	69.7	63.8	90.00	-7,543.3	810.0	848.0	716.1	131.87	6.430	
19,400.0	11,739.0	19,345.5	11,738.0	70.3	64.5	90.00	-7,643.3	810.7	848.0	714.8	133.19	6.367	
19,500.0	11,739.0	19,445.5	11,738.0	70.9	65.2	90.00	-7,743.3	811.3	848.0	713.5	134.52	6.304	
19,600.0	11,739.0	19,545.5	11,738.0	71.6	65.9	90.00	-7,843.3	812.0	848.0	712.2	135.85	6.242	
19,700.0	11,739.0	19,645.5	11,738.0	72.2	66.6	90.00	-7,943.3	812.6	848.0	710.8	137.18	6.181	
19,800.0	11,739.0	19,745.5	11,738.0	72.9	67.3	90.00	-8,043.3	813.3	848.0	709.5	138.52	6.122	
19,900.0	11,739.0	19,845.5	11,738.0	73.5	68.0	90.00	-8,143.3	813.9	848.0	708.1	139.86	6.063	
20,000.0	11,739.0	19,945.5	11,738.0	74.2	68.7	90.00	-8,243.3	814.6	848.0	706.8	141.21	6.005	
20,100.0	11,739.0	20,045.5	11,738.0	74.8	69.4	90.00	-8,343.3	815.2	848.0	705.4	142.55	5.949	
20,200.0	11,739.0	20,145.5	11,738.0	75.5	70.1	90.00	-8,443.2	815.9	848.0	704.1	143.90	5.893	
20,300.0	11,739.0	20,245.5	11,738.0	76.2	70.8	90.00	-8,543.2	816.5	848.0	702.7	145.26	5.838	
20,400.0	11,739.0	20,345.5	11,738.0	76.8	71.5	90.00	-8,643.2	817.2	848.0	701.4	146.61	5.784	
20,500.0	11,739.0	20,445.5	11,738.0	77.5	72.3	90.00	-8,743.2	817.8	848.0	700.0	147.97	5.731	
20,600.0	11,739.0	20,545.5	11,738.0	78.2	73.0	90.00	-8,843.2	818.5	848.0	698.7	149.34	5.678	
20,700.0	11,739.0	20,645.5	11,738.0	78.8	73.7	90.00	-8,943.2	819.1	848.0	697.3	150.70	5.627	
20,800.0	11,739.0	20,745.5	11,738.0	79.5	74.4	90.00	-9,043.2	819.8	848.0	695.9	152.07	5.576	
20,900.0	11,739.0	20,845.5	11,738.0	80.2	75.1	90.00	-9,143.2	820.4	848.0	694.6	153.44	5.527	
21,000.0	11,739.0	20,945.5	11,738.0	80.8	75.8	90.00	-9,243.2	821.1	848.0	693.2	154.81	5.478	
21,100.0	11,739.0	21,045.5	11,738.0	81.5	76.6	90.00	-9,343.2	821.7	848.0	691.8	156.19	5.429	
21,200.0	11,739.0	21,145.5	11,738.0	82.2	77.3	90.00	-9,443.2	822.4	848.0	690.4	157.56	5.382	
21,300.0	11,739.0	21,245.5	11,738.0	82.9	78.0	90.00	-9,543.2	823.0	848.0	689.0	158.94	5.335	
21,400.0	11,739.0	21,345.5	11,738.0	83.5	78.7	90.00	-9,643.2	823.7	848.0	687.7	160.33	5.289	
21,500.0	11,739.0	21,445.5	11,738.0	84.2	79.5	90.00	-9,743.2	824.3	848.0	686.3	161.71	5.244	
21,600.0	11,739.0	21,545.5	11,738.0	84.9	80.2	90.00	-9,843.2	825.0	848.0	684.9	163.10	5.199	
21,697.5	11,739.0	21,643.0	11,738.0	85.6	80.9	90.00	-9,940.7	825.6	848.0	683.5	164.45	5.157	
21,700.0	11,739.0	21,645.5	11,738.0	85.6	80.9	90.00	-9,943.2	825.6	848.0	683.5	164.48	5.155	
21,747.0	11,739.0	21,692.5	11,738.0	85.9	81.2	90.00	-9,990.2	826.0	848.0	682.9	165.13	5.135	
21,747.5	11,739.0	21,692.9	11,738.0	85.9	81.2	90.00	-9,990.6	826.0	848.0	682.8	165.14	5.135	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-56.28	16.8	-25.1	30.2	23.2	6.98	4.328		
100.0	100.0	100.0	100.0	3.1	3.1	-56.28	16.8	-25.1	30.2	23.0	7.23	4.181		
200.0	200.0	200.0	200.0	3.2	3.2	-56.28	16.8	-25.1	30.2	22.7	7.46	4.048		
300.0	300.0	300.0	300.0	3.4	3.4	-56.28	16.8	-25.1	30.2	22.5	7.70	3.926		
400.0	400.0	400.0	400.0	3.5	3.5	-56.28	16.8	-25.1	30.2	22.3	7.92	3.814		
500.0	500.0	500.0	500.0	3.6	3.6	-56.28	16.8	-25.1	30.2	22.1	8.14	3.711		
600.0	600.0	600.0	600.0	3.7	3.7	-56.28	16.8	-25.1	30.2	21.9	8.36	3.615		
700.0	700.0	700.0	700.0	3.9	3.9	-56.28	16.8	-25.1	30.2	21.6	8.57	3.525		
800.0	800.0	800.0	800.0	4.0	4.0	-56.28	16.8	-25.1	30.2	21.4	8.78	3.442		
900.0	900.0	900.0	900.0	4.1	4.1	-56.28	16.8	-25.1	30.2	21.2	8.98	3.363		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.28	16.8	-25.1	30.2	21.0	9.18	3.290		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.28	16.8	-25.1	30.2	20.8	9.38	3.220		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	-56.28	16.8	-25.1	30.2	20.6	9.58	3.154		
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-56.28	16.8	-25.1	30.2	20.4	9.77	3.092		
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-56.28	16.8	-25.1	30.2	20.3	9.96	3.033		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.28	16.8	-25.1	30.2	20.1	10.15	2.977 CC		
1,600.0	1,600.0	1,600.9	1,600.8	4.9	4.9	-145.22	16.8	-23.4	30.2	20.1	10.13	2.984		
1,700.0	1,699.8	1,701.7	1,701.6	5.1	5.1	-145.03	17.0	-18.0	30.2	19.7	10.58	2.858		
1,800.0	1,799.5	1,802.6	1,802.0	5.3	5.3	-144.70	17.3	-9.2	30.3	19.2	11.05	2.740		
1,900.0	1,898.7	1,903.4	1,902.1	5.6	5.6	-144.26	17.8	3.2	30.3	18.8	11.53	2.628		
2,000.0	1,997.5	2,004.3	2,001.7	5.9	5.9	-143.68	18.3	19.1	30.4	18.3	12.03	2.523		
2,100.0	2,095.6	2,105.1	2,100.7	6.3	6.3	-142.99	19.0	38.5	30.4	17.9	12.55	2.424		
2,200.0	2,193.1	2,205.9	2,198.8	6.6	6.6	-142.18	19.8	61.3	30.5	17.4	13.09	2.332 ES, SF		
2,300.0	2,289.6	2,305.9	2,295.8	7.0	7.0	-143.47	20.6	85.5	32.2	18.5	13.71	2.347		
2,400.0	2,385.8	2,405.8	2,392.8	7.3	7.3	-146.30	21.5	109.7	35.3	20.9	14.38	2.453		
2,500.0	2,481.9	2,505.8	2,489.8	7.7	7.6	-148.67	22.3	133.8	38.4	23.4	15.09	2.548		
2,600.0	2,578.0	2,605.7	2,586.7	8.0	8.0	-150.67	23.2	158.0	41.7	25.8	15.84	2.632		
2,700.0	2,674.1	2,705.7	2,683.7	8.4	8.4	-152.38	24.0	182.2	44.9	28.3	16.61	2.706		
2,800.0	2,770.3	2,805.6	2,780.7	8.8	8.8	-153.86	24.9	206.3	48.3	30.8	17.41	2.772		
2,900.0	2,866.4	2,905.5	2,877.6	9.2	9.1	-155.15	25.7	230.5	51.6	33.4	18.23	2.830		
3,000.0	2,962.5	3,005.5	2,974.6	9.6	9.6	-156.28	26.5	254.7	54.9	35.9	19.07	2.881		
3,100.0	3,058.7	3,105.4	3,071.6	10.1	10.0	-157.28	27.4	278.8	58.3	38.4	19.93	2.927		
3,200.0	3,154.8	3,205.4	3,168.5	10.5	10.4	-158.17	28.2	303.0	61.7	40.9	20.80	2.968		
3,300.0	3,250.9	3,305.3	3,265.5	10.9	10.8	-158.97	29.1	327.1	65.1	43.4	21.68	3.004		
3,400.0	3,347.0	3,405.2	3,362.5	11.4	11.2	-159.69	29.9	351.3	68.5	46.0	22.57	3.037		
3,500.0	3,443.2	3,505.2	3,459.5	11.8	11.7	-160.34	30.8	375.5	72.0	48.5	23.47	3.066		
3,600.0	3,539.3	3,605.1	3,556.4	12.3	12.1	-160.93	31.6	399.6	75.4	51.0	24.38	3.092		
3,700.0	3,635.4	3,705.0	3,653.4	12.7	12.6	-161.47	32.4	423.8	78.9	53.5	25.30	3.116		
3,800.0	3,731.5	3,805.0	3,750.4	13.2	13.0	-161.96	33.3	448.0	82.3	56.1	26.23	3.138		
3,900.0	3,827.7	3,904.9	3,847.3	13.6	13.5	-162.42	34.1	472.1	85.8	58.6	27.16	3.158		
4,000.0	3,923.8	4,004.9	3,944.3	14.1	13.9	-162.84	35.0	496.3	89.2	61.1	28.09	3.176		
4,100.0	4,019.9	4,104.8	4,041.3	14.6	14.4	-163.22	35.8	520.4	92.7	63.6	29.04	3.192		
4,200.0	4,116.0	4,204.7	4,138.2	15.0	14.8	-163.58	36.7	544.6	96.1	66.2	29.98	3.207		
4,300.0	4,212.2	4,304.7	4,235.2	15.5	15.3	-163.92	37.5	568.8	99.6	68.7	30.93	3.221		
4,400.0	4,308.3	4,404.6	4,332.2	16.0	15.7	-164.23	38.4	592.9	103.1	71.2	31.88	3.234		
4,500.0	4,404.4	4,504.5	4,429.1	16.4	16.2	-164.52	39.2	617.1	106.6	73.7	32.84	3.245		
4,600.0	4,500.5	4,604.5	4,526.1	16.9	16.7	-164.80	40.0	641.3	110.1	76.3	33.80	3.256		
4,700.0	4,596.7	4,704.4	4,623.1	17.4	17.1	-165.05	40.9	665.4	113.5	78.8	34.76	3.266		
4,800.0	4,692.8	4,804.4	4,720.1	17.9	17.6	-165.30	41.7	689.6	117.0	81.3	35.72	3.276		
4,900.0	4,788.9	4,904.3	4,817.0	18.4	18.1	-165.52	42.6	713.7	120.5	83.8	36.69	3.285		
5,000.0	4,885.0	5,004.2	4,914.0	18.8	18.6	-165.74	43.4	737.9	124.0	86.3	37.66	3.293		
5,100.0	4,981.2	5,104.2	5,011.0	19.3	19.0	-165.94	44.3	762.1	127.5	88.9	38.63	3.300		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,077.3	5,204.1	5,107.9	19.8	19.5	-166.13	45.1	786.2	131.0	91.4	39.60	3.308	
5,300.0	5,173.4	5,304.1	5,204.9	20.3	20.0	-166.31	45.9	810.4	134.5	93.9	40.57	3.314	
5,400.0	5,269.6	5,404.0	5,301.9	20.8	20.4	-166.49	46.8	834.6	138.0	96.4	41.55	3.321	
5,500.0	5,365.7	5,503.9	5,398.8	21.3	20.9	-166.65	47.6	858.7	141.5	98.9	42.53	3.327	
5,600.0	5,461.8	5,603.9	5,495.8	21.8	21.4	-166.81	48.5	882.9	145.0	101.5	43.50	3.332	
5,700.0	5,557.9	5,703.8	5,592.8	22.3	21.9	-166.96	49.3	907.0	148.5	104.0	44.48	3.338	
5,800.0	5,654.1	5,803.7	5,689.8	22.7	22.3	-167.10	50.2	931.2	152.0	106.5	45.46	3.343	
5,900.0	5,750.2	5,903.7	5,786.7	23.2	22.8	-167.24	51.0	955.4	155.5	109.0	46.44	3.347	
6,000.0	5,846.3	6,003.6	5,883.7	23.7	23.3	-167.36	51.9	979.5	159.0	111.5	47.43	3.352	
6,100.0	5,942.4	6,103.6	5,980.7	24.2	23.8	-167.49	52.7	1,003.7	162.5	114.1	48.41	3.356	
6,124.5	5,966.0	6,128.1	6,004.4	24.3	23.9	-167.52	52.9	1,009.6	163.3	114.7	48.64	3.358	
6,200.0	6,038.6	6,202.0	6,076.2	24.7	24.2	-167.61	53.5	1,027.2	166.0	116.6	49.36	3.363	
6,300.0	6,135.1	6,300.0	6,171.7	25.2	24.7	-167.79	54.3	1,049.2	170.1	119.8	50.32	3.381	
6,400.0	6,231.7	6,396.2	6,265.8	25.7	25.2	-168.01	55.0	1,069.2	175.1	123.9	51.25	3.417	
6,500.0	6,328.6	6,493.0	6,360.9	26.2	25.6	-168.29	55.6	1,087.8	180.9	128.7	52.17	3.467	
6,600.0	6,425.7	6,589.8	6,456.1	26.6	26.0	-168.61	56.2	1,104.7	187.4	134.4	53.06	3.533	
6,700.0	6,522.9	6,686.4	6,551.5	27.1	26.5	-168.96	56.8	1,119.9	194.8	140.9	53.94	3.612	
6,800.0	6,620.4	6,782.8	6,646.9	27.6	26.9	-169.33	57.2	1,133.6	203.0	148.2	54.78	3.705	
6,900.0	6,718.1	6,878.9	6,742.3	28.1	27.3	-169.72	57.7	1,145.6	211.9	156.3	55.60	3.811	
7,000.0	6,816.0	6,974.9	6,837.7	28.5	27.7	-170.12	58.0	1,155.9	221.7	165.3	56.39	3.931	
7,100.0	6,914.0	7,070.6	6,933.0	29.0	28.0	-170.53	58.3	1,164.7	232.2	175.1	57.14	4.063	
7,200.0	7,012.2	7,166.0	7,028.2	29.5	28.4	-170.93	58.6	1,171.8	243.5	185.7	57.86	4.209	
7,300.0	7,110.6	7,261.2	7,123.2	29.9	28.7	-171.34	58.8	1,177.4	255.6	197.1	58.54	4.367	
7,400.0	7,209.1	7,356.1	7,218.0	30.4	29.0	-171.73	58.9	1,181.4	268.5	209.3	59.17	4.538	
7,500.0	7,307.8	7,450.6	7,312.5	30.8	29.3	-172.12	59.0	1,183.8	282.2	222.4	59.74	4.723	
7,600.0	7,406.6	7,544.8	7,406.7	31.3	29.5	-172.49	59.0	1,184.6	296.6	236.4	60.21	4.926	
7,700.0	7,505.5	7,643.6	7,505.5	31.7	29.5	-172.85	59.0	1,184.6	311.0	250.3	60.70	5.124	
7,800.0	7,604.6	7,742.7	7,604.6	32.1	29.5	-173.16	59.0	1,184.6	324.6	263.4	61.19	5.305	
7,900.0	7,703.7	7,841.8	7,703.7	32.6	29.6	-173.43	59.0	1,184.6	337.4	275.7	61.68	5.470	
8,000.0	7,803.0	7,941.1	7,803.0	33.0	29.6	-173.66	59.0	1,184.6	349.3	287.1	62.15	5.620	
8,100.0	7,902.4	8,040.5	7,902.4	33.4	29.6	-173.86	59.0	1,184.6	360.3	297.7	62.62	5.754	
8,200.0	8,001.9	8,140.0	8,001.9	33.8	29.6	-174.03	59.0	1,184.6	370.5	307.4	63.08	5.874	
8,300.0	8,101.4	8,239.5	8,101.4	34.2	29.7	-174.18	59.0	1,184.6	379.8	316.3	63.52	5.979	
8,400.0	8,201.1	8,339.2	8,201.1	34.6	29.7	-174.32	59.0	1,184.6	388.3	324.3	63.97	6.070	
8,500.0	8,300.8	8,438.9	8,300.8	34.9	29.7	-174.43	59.0	1,184.6	395.8	331.4	64.40	6.147	
8,600.0	8,400.5	8,538.7	8,400.5	35.3	29.7	-174.53	59.0	1,184.6	402.6	337.7	64.82	6.211	
8,700.0	8,500.4	8,638.5	8,500.4	35.7	29.8	-174.61	59.0	1,184.6	408.4	343.2	65.22	6.262	
8,800.0	8,600.2	8,738.4	8,600.2	36.0	29.8	-174.67	59.0	1,184.6	413.4	347.8	65.62	6.300	
8,900.0	8,700.2	8,838.3	8,700.2	36.3	29.8	-174.73	59.0	1,184.6	417.5	351.5	65.99	6.327	
9,000.0	8,800.1	8,938.2	8,800.1	36.6	29.8	-174.77	59.0	1,184.6	420.8	354.4	66.35	6.342	
9,100.0	8,900.1	9,038.2	8,900.1	36.9	29.9	-174.80	59.0	1,184.6	423.2	356.5	66.69	6.345	
9,200.0	9,000.1	9,138.2	9,000.1	37.2	29.9	-174.82	59.0	1,184.6	424.7	357.7	67.00	6.339	
9,300.0	9,100.1	9,238.2	9,100.1	37.4	29.9	-174.83	59.0	1,184.6	425.3	358.1	67.24	6.325	
9,324.5	9,124.6	9,262.7	9,124.6	37.4	29.9	-85.83	59.0	1,184.6	425.4	358.1	67.27	6.323	
9,400.0	9,200.1	9,338.2	9,200.1	37.4	30.0	-85.83	59.0	1,184.6	425.4	358.1	67.30	6.320	
9,500.0	9,300.1	9,438.2	9,300.1	37.4	30.0	-85.83	59.0	1,184.6	425.4	358.0	67.35	6.316	
9,600.0	9,400.1	9,538.2	9,400.1	37.4	30.0	-85.83	59.0	1,184.6	425.4	358.0	67.40	6.311	
9,700.0	9,500.1	9,638.2	9,500.1	37.5	30.1	-85.83	59.0	1,184.6	425.4	357.9	67.45	6.307	
9,800.0	9,600.1	9,738.2	9,600.1	37.5	30.1	-85.83	59.0	1,184.6	425.4	357.9	67.49	6.302	
9,900.0	9,700.1	9,838.2	9,700.1	37.5	30.1	-85.83	59.0	1,184.6	425.4	357.8	67.54	6.298	
10,000.0	9,800.1	9,938.2	9,800.1	37.5	30.1	-85.83	59.0	1,184.6	425.4	357.8	67.59	6.293	
10,100.0	9,900.1	10,038.2	9,900.1	37.6	30.2	-85.83	59.0	1,184.6	425.4	357.7	67.64	6.289	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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
10,200.0	10,000.1	10,138.2	10,000.1	37.6	30.2	-85.83	59.0	1,184.6	425.4	357.7	67.69	6.284	
10,300.0	10,100.1	10,238.2	10,100.1	37.6	30.2	-85.83	59.0	1,184.6	425.4	357.6	67.74	6.279	
10,400.0	10,200.1	10,338.2	10,200.1	37.6	30.3	-85.83	59.0	1,184.6	425.4	357.6	67.79	6.275	
10,500.0	10,300.1	10,438.2	10,300.1	37.6	30.3	-85.83	59.0	1,184.6	425.4	357.5	67.84	6.270	
10,600.0	10,400.1	10,538.2	10,400.1	37.7	30.3	-85.83	59.0	1,184.6	425.4	357.5	67.89	6.265	
10,700.0	10,500.1	10,638.2	10,500.1	37.7	30.4	-85.83	59.0	1,184.6	425.4	357.4	67.94	6.260	
10,800.0	10,600.1	10,738.2	10,600.1	37.7	30.4	-85.83	59.0	1,184.6	425.4	357.4	68.00	6.256	
10,900.0	10,700.1	10,838.2	10,700.1	37.7	30.4	-85.83	59.0	1,184.6	425.4	357.3	68.05	6.251	
11,000.0	10,800.1	10,938.2	10,800.1	37.7	30.4	-85.83	59.0	1,184.6	425.4	357.3	68.10	6.246	
11,100.0	10,900.1	11,038.2	10,900.1	37.8	30.5	-85.83	59.0	1,184.6	425.4	357.2	68.15	6.241	
11,200.0	11,000.1	11,138.2	11,000.1	37.8	30.5	-85.83	59.0	1,184.6	425.4	357.2	68.21	6.236	
11,300.0	11,100.1	11,238.2	11,100.1	37.8	30.5	-85.83	59.0	1,184.6	425.4	357.1	68.26	6.232	
11,400.0	11,200.1	11,338.2	11,200.1	37.8	30.6	-85.83	59.0	1,184.6	425.4	357.0	68.31	6.227	
11,461.5	11,261.5	11,399.6	11,261.5	37.8	30.6	-85.83	59.0	1,184.6	425.4	357.0	68.34	6.224	
11,475.0	11,275.1	11,413.2	11,275.1	37.8	30.6	94.57	59.0	1,184.6	425.4	357.2	68.21	6.236	
11,500.0	11,300.0	11,438.1	11,300.0	37.9	30.6	94.74	59.0	1,184.6	425.5	357.3	68.20	6.238	
11,525.0	11,324.9	11,463.0	11,324.9	37.9	30.6	95.06	59.0	1,184.6	425.7	357.5	68.18	6.244	
11,550.0	11,349.6	11,487.7	11,349.6	37.9	30.6	95.54	59.0	1,184.6	426.1	358.0	68.14	6.254	
11,575.0	11,374.0	11,512.1	11,374.0	37.9	30.6	96.16	59.0	1,184.6	426.6	358.6	68.07	6.268	
11,600.0	11,398.1	11,536.2	11,398.1	37.9	30.6	96.91	59.0	1,184.6	427.4	359.4	67.97	6.288	
11,625.0	11,421.9	11,560.0	11,421.9	37.9	30.6	97.77	59.0	1,184.6	428.4	360.6	67.85	6.315	
11,650.0	11,445.2	11,584.8	11,446.7	37.9	30.7	98.78	58.9	1,184.6	429.8	362.2	67.63	6.355	
11,675.0	11,468.0	11,612.4	11,474.3	37.9	30.7	99.91	57.5	1,184.6	431.4	363.8	67.58	6.384	
11,700.0	11,490.3	11,640.8	11,502.5	37.9	30.7	101.03	54.4	1,184.6	433.1	365.6	67.54	6.413	
11,725.0	11,511.9	11,669.8	11,531.1	37.9	30.7	102.12	49.6	1,184.6	435.0	367.5	67.52	6.442	
11,750.0	11,532.8	11,699.7	11,560.1	37.9	30.7	103.20	42.7	1,184.7	437.0	369.4	67.53	6.471	
11,775.0	11,553.0	11,730.3	11,589.5	37.9	30.7	104.25	33.9	1,184.7	439.0	371.5	67.56	6.499	
11,800.0	11,572.4	11,761.8	11,618.9	37.9	30.7	105.26	22.8	1,184.8	441.2	373.6	67.62	6.525	
11,825.0	11,590.9	11,794.1	11,648.3	37.9	30.7	106.24	9.5	1,184.9	443.3	375.6	67.70	6.548	
11,850.0	11,608.6	11,827.3	11,677.5	37.9	30.7	107.18	-6.3	1,185.0	445.5	377.7	67.82	6.568	
11,875.0	11,625.3	11,861.3	11,706.3	37.9	30.7	108.08	-24.5	1,185.1	447.6	379.6	67.97	6.585	
11,900.0	11,641.0	11,896.2	11,734.4	37.9	30.7	108.91	-45.3	1,185.3	449.7	381.5	68.15	6.598	
11,925.0	11,655.6	11,932.0	11,761.4	37.9	30.7	109.69	-68.6	1,185.4	451.6	383.3	68.36	6.607	
11,950.0	11,669.2	11,968.6	11,787.3	37.9	30.7	110.39	-94.5	1,185.6	453.5	384.9	68.59	6.611	
11,975.0	11,681.6	12,005.9	11,811.5	37.9	30.7	111.02	-122.8	1,185.8	455.1	386.3	68.85	6.611	
12,000.0	11,692.9	12,043.9	11,833.8	37.9	30.7	111.56	-153.6	1,186.0	456.6	387.5	69.11	6.606	
12,025.0	11,703.0	12,082.5	11,853.9	37.9	30.7	112.01	-186.5	1,186.2	457.8	388.4	69.39	6.597	
12,050.0	11,712.0	12,121.6	11,871.5	38.0	30.8	112.36	-221.5	1,186.4	458.8	389.1	69.67	6.585	
12,075.0	11,719.6	12,161.1	11,886.3	38.0	30.8	112.61	-258.1	1,186.6	459.5	389.5	69.94	6.570	
12,100.0	11,726.0	12,200.9	11,898.0	38.0	30.8	112.76	-296.1	1,186.9	459.8	389.7	70.19	6.552	
12,125.0	11,731.2	12,240.8	11,906.6	38.0	30.8	112.79	-335.0	1,187.1	459.9	389.5	70.42	6.531	
12,150.0	11,735.0	12,280.6	11,912.0	38.0	30.9	112.72	-374.5	1,187.4	459.7	389.1	70.63	6.510	
12,175.0	11,737.6	12,320.3	11,914.0	38.0	30.9	112.54	-414.1	1,187.7	459.2	388.4	70.80	6.487	
12,200.0	11,738.9	12,346.9	11,914.0	38.1	30.9	112.44	-440.7	1,187.8	458.8	387.9	70.86	6.475	
12,211.5	11,739.0	12,358.3	11,914.0	38.1	31.0	112.43	-452.1	1,187.9	458.7	387.8	70.87	6.472	
12,300.0	11,739.0	12,446.9	11,914.0	38.2	31.1	112.43	-540.7	1,188.5	458.7	387.7	71.04	6.457	
12,400.0	11,739.0	12,546.9	11,914.0	38.3	31.2	112.43	-640.7	1,189.1	458.7	387.5	71.26	6.437	
12,500.0	11,739.0	12,646.9	11,914.0	38.4	31.4	112.43	-740.6	1,189.8	458.7	387.2	71.51	6.415	
12,600.0	11,739.0	12,746.9	11,914.0	38.5	31.5	112.43	-840.6	1,190.4	458.7	386.9	71.79	6.390	
12,700.0	11,739.0	12,846.9	11,914.0	38.7	31.7	112.43	-940.6	1,191.1	458.7	386.6	72.10	6.362	
12,800.0	11,739.0	12,946.9	11,914.0	38.8	31.9	112.43	-1,040.6	1,191.7	458.7	386.3	72.44	6.332	
12,900.0	11,739.0	13,046.9	11,914.0	39.0	32.2	112.43	-1,140.6	1,192.4	458.7	385.9	72.82	6.300	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,000.0	11,739.0	13,146.9	11,914.0	39.2	32.4	112.43	-1,240.6	1,193.0	458.7	385.5	73.22	6.265	
13,100.0	11,739.0	13,246.9	11,914.0	39.4	32.7	112.43	-1,340.6	1,193.7	458.7	385.1	73.65	6.228	
13,200.0	11,739.0	13,346.9	11,914.0	39.7	32.9	112.43	-1,440.6	1,194.3	458.7	384.6	74.11	6.190	
13,300.0	11,739.0	13,446.9	11,914.0	39.9	33.2	112.43	-1,540.6	1,195.0	458.7	384.1	74.60	6.149	
13,400.0	11,739.0	13,546.9	11,914.0	40.2	33.5	112.43	-1,640.6	1,195.6	458.7	383.6	75.11	6.107	
13,500.0	11,739.0	13,646.9	11,914.0	40.4	33.9	112.43	-1,740.6	1,196.3	458.7	383.1	75.66	6.063	
13,600.0	11,739.0	13,746.9	11,914.0	40.7	34.2	112.43	-1,840.6	1,196.9	458.7	382.5	76.23	6.018	
13,700.0	11,739.0	13,846.9	11,914.0	41.0	34.5	112.43	-1,940.6	1,197.6	458.7	381.9	76.82	5.971	
13,800.0	11,739.0	13,946.9	11,914.0	41.3	34.9	112.43	-2,040.6	1,198.2	458.7	381.3	77.44	5.923	
13,900.0	11,739.0	14,046.9	11,914.0	41.6	35.3	112.43	-2,140.6	1,198.9	458.7	380.6	78.08	5.875	
14,000.0	11,739.0	14,146.9	11,914.0	41.9	35.7	112.43	-2,240.6	1,199.5	458.7	380.0	78.75	5.825	
14,100.0	11,739.0	14,246.9	11,914.0	42.3	36.1	112.43	-2,340.6	1,200.2	458.7	379.3	79.45	5.774	
14,200.0	11,739.0	14,346.9	11,914.0	42.6	36.5	112.43	-2,440.6	1,200.8	458.7	378.6	80.16	5.722	
14,300.0	11,739.0	14,446.9	11,914.0	43.0	36.9	112.43	-2,540.6	1,201.5	458.7	377.8	80.90	5.670	
14,400.0	11,739.0	14,546.9	11,914.0	43.4	37.3	112.43	-2,640.6	1,202.1	458.7	377.1	81.65	5.618	
14,500.0	11,739.0	14,646.9	11,914.0	43.7	37.7	112.43	-2,740.6	1,202.8	458.7	376.3	82.43	5.565	
14,600.0	11,739.0	14,746.9	11,914.0	44.1	38.2	112.43	-2,840.6	1,203.4	458.7	375.5	83.23	5.511	
14,700.0	11,739.0	14,846.9	11,914.0	44.5	38.7	112.43	-2,940.6	1,204.1	458.7	374.7	84.05	5.457	
14,800.0	11,739.0	14,946.9	11,914.0	44.9	39.1	112.43	-3,040.6	1,204.7	458.7	373.8	84.89	5.403	
14,900.0	11,739.0	15,046.9	11,914.0	45.3	39.6	112.43	-3,140.6	1,205.4	458.7	373.0	85.75	5.349	
15,000.0	11,739.0	15,146.9	11,914.0	45.8	40.1	112.43	-3,240.6	1,206.0	458.7	372.1	86.62	5.295	
15,100.0	11,739.0	15,246.9	11,914.0	46.2	40.6	112.43	-3,340.6	1,206.7	458.7	371.2	87.52	5.241	
15,200.0	11,739.0	15,346.9	11,914.0	46.6	41.1	112.43	-3,440.6	1,207.3	458.7	370.3	88.43	5.187	
15,300.0	11,739.0	15,446.9	11,914.0	47.1	41.6	112.43	-3,540.6	1,208.0	458.7	369.4	89.35	5.134	
15,400.0	11,739.0	15,546.9	11,914.0	47.6	42.1	112.43	-3,640.6	1,208.6	458.7	368.4	90.29	5.080	
15,500.0	11,739.0	15,646.9	11,914.0	48.0	42.6	112.43	-3,740.6	1,209.3	458.7	367.5	91.25	5.027	
15,600.0	11,739.0	15,746.9	11,914.0	48.5	43.2	112.43	-3,840.6	1,209.9	458.7	366.5	92.22	4.974	
15,700.0	11,739.0	15,846.9	11,914.0	49.0	43.7	112.43	-3,940.6	1,210.6	458.7	365.5	93.21	4.921	
15,800.0	11,739.0	15,946.9	11,914.0	49.5	44.3	112.43	-4,040.6	1,211.3	458.7	364.5	94.21	4.869	
15,900.0	11,739.0	16,046.9	11,914.0	50.0	44.8	112.43	-4,140.6	1,211.9	458.7	363.5	95.23	4.817	
16,000.0	11,739.0	16,146.9	11,914.0	50.5	45.4	112.43	-4,240.6	1,212.6	458.7	362.5	96.26	4.766	
16,100.0	11,739.0	16,246.9	11,914.0	51.0	45.9	112.43	-4,340.6	1,213.2	458.7	361.4	97.30	4.715	
16,200.0	11,739.0	16,346.9	11,914.0	51.5	46.5	112.43	-4,440.6	1,213.9	458.7	360.4	98.35	4.664	
16,300.0	11,739.0	16,446.9	11,914.0	52.0	47.1	112.43	-4,540.6	1,214.5	458.7	359.3	99.41	4.614	
16,400.0	11,739.0	16,546.9	11,914.0	52.5	47.7	112.43	-4,640.6	1,215.2	458.7	358.2	100.49	4.565	
16,500.0	11,739.0	16,646.9	11,914.0	53.0	48.2	112.43	-4,740.6	1,215.8	458.7	357.1	101.58	4.516	
16,600.0	11,739.0	16,746.9	11,914.0	53.6	48.8	112.43	-4,840.6	1,216.5	458.7	356.0	102.68	4.467	
16,700.0	11,739.0	16,846.9	11,914.0	54.1	49.4	112.43	-4,940.6	1,217.1	458.7	354.9	103.79	4.420	
16,800.0	11,739.0	16,946.9	11,914.0	54.7	50.0	112.43	-5,040.6	1,217.8	458.7	353.8	104.91	4.373	
16,900.0	11,739.0	17,046.9	11,914.0	55.2	50.6	112.43	-5,140.6	1,218.4	458.7	352.7	106.03	4.326	
17,000.0	11,739.0	17,146.9	11,914.0	55.8	51.2	112.43	-5,240.6	1,219.1	458.7	351.5	107.17	4.280	
17,100.0	11,739.0	17,246.9	11,914.0	56.3	51.8	112.43	-5,340.6	1,219.7	458.7	350.4	108.32	4.235	
17,200.0	11,739.0	17,346.9	11,914.0	56.9	52.5	112.43	-5,440.5	1,220.4	458.7	349.2	109.48	4.190	
17,300.0	11,739.0	17,446.9	11,914.0	57.5	53.1	112.43	-5,540.5	1,221.0	458.7	348.1	110.64	4.146	
17,400.0	11,739.0	17,546.9	11,914.0	58.1	53.7	112.43	-5,640.5	1,221.7	458.7	346.9	111.82	4.102	
17,500.0	11,739.0	17,646.9	11,914.0	58.6	54.3	112.43	-5,740.5	1,222.3	458.7	345.7	113.00	4.059	
17,600.0	11,739.0	17,746.9	11,914.0	59.2	55.0	112.43	-5,840.5	1,223.0	458.7	344.5	114.19	4.017	
17,700.0	11,739.0	17,846.9	11,914.0	59.8	55.6	112.43	-5,940.5	1,223.6	458.7	343.3	115.39	3.975	
17,800.0	11,739.0	17,946.9	11,914.0	60.4	56.2	112.43	-6,040.5	1,224.3	458.7	342.1	116.59	3.934	
17,900.0	11,739.0	18,046.9	11,914.0	61.0	56.9	112.43	-6,140.5	1,224.9	458.7	340.9	117.80	3.894	
18,000.0	11,739.0	18,146.9	11,914.0	61.6	57.5	112.43	-6,240.5	1,225.6	458.7	339.7	119.02	3.854	
18,100.0	11,739.0	18,246.9	11,914.0	62.2	58.2	112.43	-6,340.5	1,226.2	458.7	338.5	120.25	3.815	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	Rule Assigned:				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,200.0	11,739.0	18,346.9	11,914.0	62.8	58.8	112.43	-6,440.5	1,226.9	458.7	337.2	121.48	3.776	
18,300.0	11,739.0	18,446.9	11,914.0	63.4	59.5	112.43	-6,540.5	1,227.5	458.7	336.0	122.72	3.738	
18,400.0	11,739.0	18,546.9	11,914.0	64.0	60.1	112.43	-6,640.5	1,228.2	458.7	334.7	123.96	3.700	
18,500.0	11,739.0	18,646.9	11,914.0	64.6	60.8	112.43	-6,740.5	1,228.8	458.7	333.5	125.21	3.663	
18,600.0	11,739.0	18,746.9	11,914.0	65.3	61.4	112.43	-6,840.5	1,229.5	458.7	332.2	126.47	3.627	
18,700.0	11,739.0	18,846.9	11,914.0	65.9	62.1	112.43	-6,940.5	1,230.1	458.7	331.0	127.73	3.591	
18,800.0	11,739.0	18,946.9	11,914.0	66.5	62.7	112.43	-7,040.5	1,230.8	458.7	329.7	129.00	3.556	
18,900.0	11,739.0	19,046.9	11,914.0	67.1	63.4	112.43	-7,140.5	1,231.4	458.7	328.4	130.27	3.521	
19,000.0	11,739.0	19,146.9	11,914.0	67.8	64.1	112.43	-7,240.5	1,232.1	458.7	327.2	131.55	3.487	
19,100.0	11,739.0	19,246.9	11,914.0	68.4	64.8	112.43	-7,340.5	1,232.7	458.7	325.9	132.83	3.453	
19,200.0	11,739.0	19,346.9	11,914.0	69.0	65.4	112.43	-7,440.5	1,233.4	458.7	324.6	134.12	3.420	
19,300.0	11,739.0	19,446.9	11,914.0	69.7	66.1	112.43	-7,540.5	1,234.0	458.7	323.3	135.41	3.387	
19,400.0	11,739.0	19,546.9	11,914.0	70.3	66.8	112.43	-7,640.5	1,234.7	458.7	322.0	136.71	3.355	
19,500.0	11,739.0	19,646.9	11,914.0	70.9	67.4	112.43	-7,740.5	1,235.3	458.7	320.7	138.01	3.324	
19,600.0	11,739.0	19,746.9	11,914.0	71.6	68.1	112.43	-7,840.5	1,236.0	458.7	319.4	139.31	3.293	
19,700.0	11,739.0	19,846.9	11,914.0	72.2	68.8	112.43	-7,940.5	1,236.6	458.7	318.1	140.62	3.262	
19,800.0	11,739.0	19,946.9	11,914.0	72.9	69.5	112.43	-8,040.5	1,237.3	458.7	316.8	141.94	3.232	
19,900.0	11,739.0	20,046.9	11,914.0	73.5	70.2	112.43	-8,140.5	1,237.9	458.7	315.4	143.25	3.202	
20,000.0	11,739.0	20,146.9	11,914.0	74.2	70.9	112.43	-8,240.5	1,238.6	458.7	314.1	144.58	3.173	
20,100.0	11,739.0	20,246.9	11,914.0	74.8	71.5	112.43	-8,340.5	1,239.2	458.7	312.8	145.90	3.144	
20,200.0	11,739.0	20,346.9	11,914.0	75.5	72.2	112.43	-8,440.5	1,239.9	458.7	311.5	147.23	3.116	
20,300.0	11,739.0	20,446.9	11,914.0	76.2	72.9	112.43	-8,540.5	1,240.5	458.7	310.1	148.56	3.088	
20,400.0	11,739.0	20,546.9	11,914.0	76.8	73.6	112.43	-8,640.5	1,241.2	458.7	308.8	149.90	3.060	
20,500.0	11,739.0	20,646.9	11,914.0	77.5	74.3	112.43	-8,740.5	1,241.8	458.7	307.5	151.24	3.033	
20,600.0	11,739.0	20,746.9	11,914.0	78.2	75.0	112.43	-8,840.5	1,242.5	458.7	306.1	152.58	3.006	
20,700.0	11,739.0	20,846.9	11,914.0	78.8	75.7	112.43	-8,940.5	1,243.1	458.7	304.8	153.93	2.980	
20,800.0	11,739.0	20,946.9	11,914.0	79.5	76.4	112.43	-9,040.5	1,243.8	458.7	303.4	155.27	2.954	
20,900.0	11,739.0	21,046.9	11,914.0	80.2	77.1	112.43	-9,140.5	1,244.4	458.7	302.1	156.63	2.929	
21,000.0	11,739.0	21,146.9	11,914.0	80.8	77.8	112.43	-9,240.5	1,245.1	458.7	300.7	157.98	2.903	
21,100.0	11,739.0	21,246.9	11,914.0	81.5	78.5	112.43	-9,340.5	1,245.7	458.7	299.4	159.34	2.879	
21,200.0	11,739.0	21,346.9	11,914.0	82.2	79.2	112.43	-9,440.5	1,246.4	458.7	298.0	160.70	2.854	
21,300.0	11,739.0	21,446.9	11,914.0	82.9	79.9	112.43	-9,540.5	1,247.0	458.7	296.6	162.06	2.830	
21,400.0	11,739.0	21,546.9	11,914.0	83.5	80.6	112.43	-9,640.5	1,247.7	458.7	295.3	163.43	2.807	
21,500.0	11,739.0	21,646.9	11,914.0	84.2	81.3	112.43	-9,740.5	1,248.3	458.7	293.9	164.80	2.783	
21,600.0	11,739.0	21,746.9	11,914.0	84.9	82.0	112.43	-9,840.5	1,249.0	458.7	292.5	166.17	2.760	
21,697.5	11,739.0	21,844.4	11,914.0	85.6	82.7	112.43	-9,937.9	1,249.6	458.7	291.2	167.50	2.738	
21,700.0	11,739.0	21,846.9	11,914.0	85.6	82.7	112.43	-9,940.5	1,249.6	458.7	291.2	167.54	2.738	
21,746.3	11,739.0	21,893.1	11,914.0	85.9	83.1	112.43	-9,986.7	1,249.9	458.7	290.5	168.17	2.728	
21,747.5	11,739.0	21,894.3	11,914.0	85.9	83.1	112.43	-9,987.9	1,249.9	458.7	290.5	168.19	2.727	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 @ 3176.0usft

Offset Depths are relative to Offset Datum

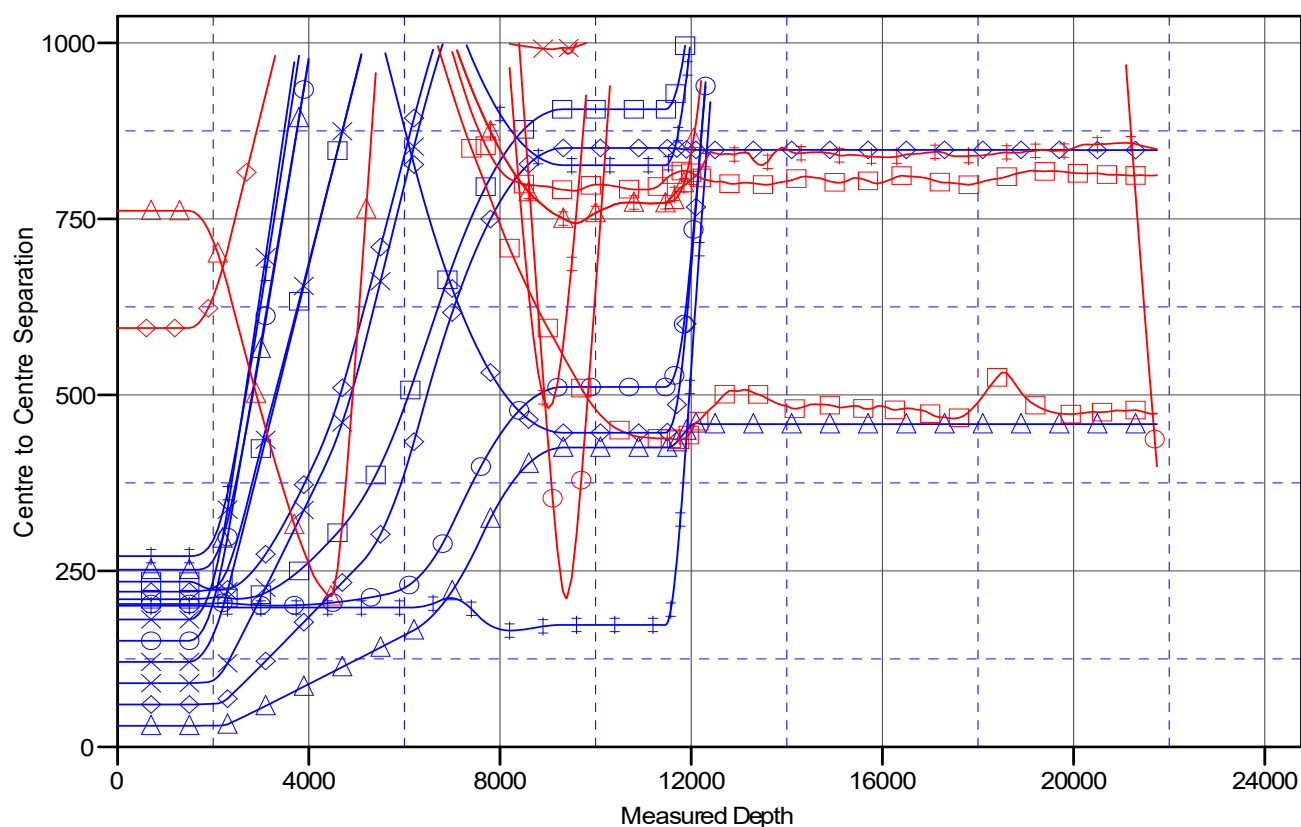
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #757H

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

Grid Convergence at Surface is: 0.33°

Ladder Plot



LEGEND

● ODELL STATE 54-1-6 LOV #2H, OWB, AWP V0	▲ BUCK 20 FEDERAL #2H (P&A), OWB, AWP V0	■ ZIA HILLS 20 FEDERAL COM#105H, OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #759H, OWB, PWP0 V0	▲ ZIA HILLS UNIT 2032 WC #708H, OWB, PWP0 V0	■ ZIA HILLS 20 FEDERAL COM#106H, OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #753H, OWB, PWP0 V0	▲ ZIA HILLS UNIT 2032 WC #702H, OWB, PWP0 V0	■ ZIA HILLS 20 FEDERAL COM#106H, ST01, AWP V0
● ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	▲ ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	■ BUCK 20 FEDERAL #6H (P&A), OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #756H, OWB, PWP0 V0	▲ ZIA HILLS UNIT 2032 WC #751H, OWB, PWP0 V0	■ ZIA HILLS 20 FEDERAL COM#108H, OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #705H, OWB, PWP0 V0	▲ ZIA HILLS 20 FEDERAL COM#102H, OWB, PWP2 V0	■ RUSSELL FEDERAL #6 (P&A), OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0	▲ ZIA HILLS 20 FEDERAL COM#107H, OWB, AWP V0	■ RUSSELL FEDERAL #12, OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #752H, OWB, PWP0 V0	▲ BUCK 20 FEDERAL #3H (P&A), OWB, AWP V0	■ ZIA HILLS 20 FEDERAL COM#101H, OWB, PWP2 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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 @ 3176.0usft

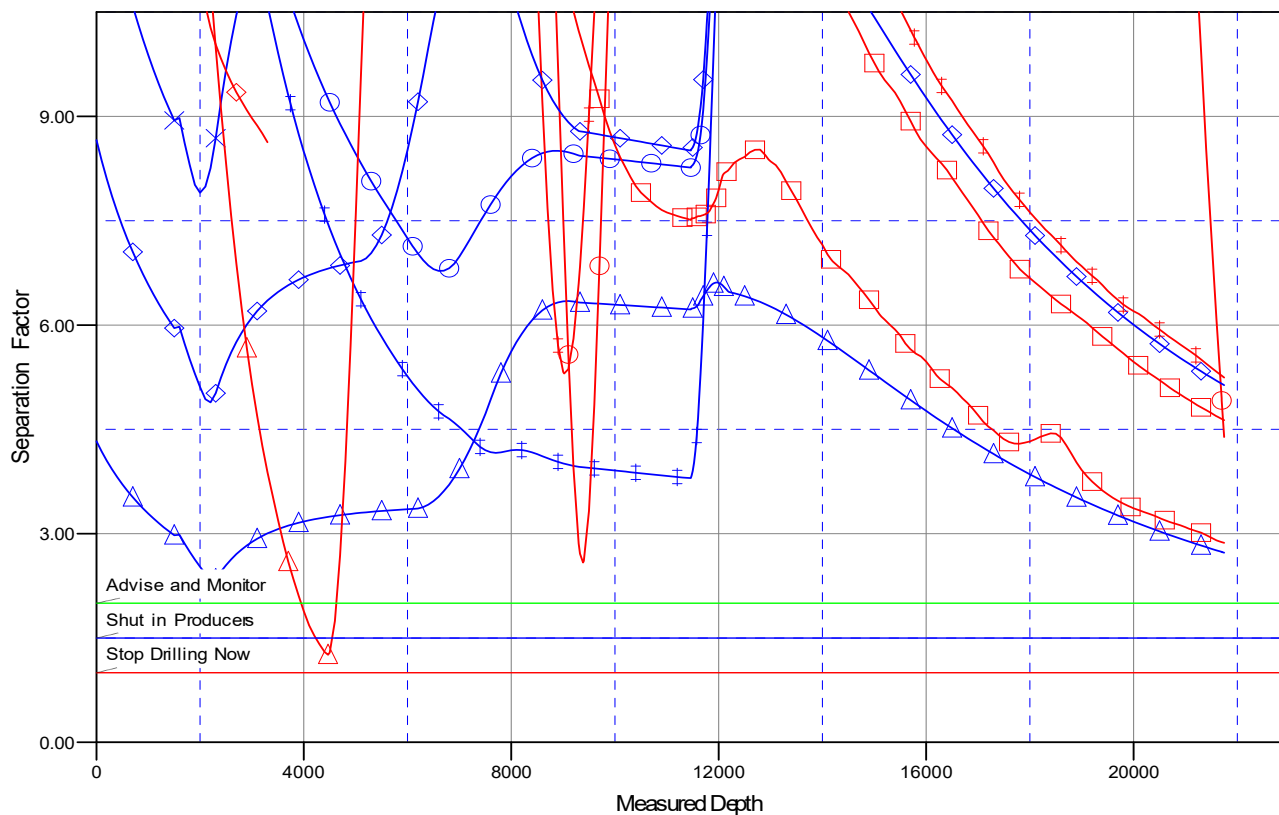
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #757H

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

Grid Convergence at Surface is: 0.33°

Separation Factor Plot**LEGEND**

ODELL STATE 54-14 LOV #2H, OWB, AWP V0	BUCK 20 FEDERAL #2H (P&A), OWB, AWP V0	ZIA HILLS 20 FEDERAL COM#105H, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#106H, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #702H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#106H, ST01, AWP V0
ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	BUCK 20 FEDERAL #6H (P&A), OWB, AWP V0
ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#108H, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	RUSSELL FEDERAL #6 (P&A), OWB, AWP V0
ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#102H, OWB, PWP2 V0	RUSSELL FEDERAL #12, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#107H, OWB, AWP V0	ZIA HILLS 20 FEDERAL COM#101H, OWB, PWP2 V0
	BUCK 20 FEDERAL #3H (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 #757H

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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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 #757H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
Grid Convergence:	0.33 °		
		Latitude:	32° 1' 39.742 N
		Longitude:	103° 42' 8.306 W
		Ground Level:	3,176.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.33	59.53	47,264.71230328

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	170.48	

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	11,461.5 PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1 rev.5		
3	11,461.5	21,747.5 PWP0 (OWB)	r.5 MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-St		

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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	
2,300.0	16.00	89.00	2,289.6	1.9	111.0	2.00	2.00	0.00	89.00	
6,124.5	16.00	89.00	5,966.0	20.3	1,165.0	0.00	0.00	0.00	0.00	
9,324.5	0.00	0.00	9,124.6	28.1	1,608.8	0.50	-0.50	0.00	180.00	
11,461.5	0.00	0.00	11,261.5	28.1	1,608.8	0.00	0.00	0.00	0.00	
12,211.5	90.00	179.63	11,739.0	-449.4	1,611.9	12.00	12.00	23.95	179.63	
21,697.5	90.00	179.63	11,739.0	-9,935.2	1,673.6	0.00	0.00	0.00	0.00	
21,747.5	90.00	179.63	11,739.0	-9,985.2	1,673.9	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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	89.00	1,600.0	0.0	1.7	0.3	2.00	2.00	0.00
1,700.0	4.00	89.00	1,699.8	0.1	7.0	1.0	2.00	2.00	0.00
1,800.0	6.00	89.00	1,799.5	0.3	15.7	2.3	2.00	2.00	0.00
1,900.0	8.00	89.00	1,898.7	0.5	27.9	4.1	2.00	2.00	0.00
2,000.0	10.00	89.00	1,997.5	0.8	43.5	6.4	2.00	2.00	0.00
2,100.0	12.00	89.00	2,095.6	1.1	62.6	9.3	2.00	2.00	0.00
2,200.0	14.00	89.00	2,193.1	1.5	85.1	12.6	2.00	2.00	0.00
2,300.0	16.00	89.00	2,289.6	1.9	111.0	16.4	2.00	2.00	0.00
Start 3824.5 hold at 2300.0 MD									
2,400.0	16.00	89.00	2,385.8	2.4	138.5	20.5	0.00	0.00	0.00
2,500.0	16.00	89.00	2,481.9	2.9	166.1	24.6	0.00	0.00	0.00
2,600.0	16.00	89.00	2,578.0	3.4	193.6	28.7	0.00	0.00	0.00
2,700.0	16.00	89.00	2,674.1	3.9	221.2	32.8	0.00	0.00	0.00
2,800.0	16.00	89.00	2,770.3	4.3	248.8	36.8	0.00	0.00	0.00
2,900.0	16.00	89.00	2,866.4	4.8	276.3	40.9	0.00	0.00	0.00
3,000.0	16.00	89.00	2,962.5	5.3	303.9	45.0	0.00	0.00	0.00
3,100.0	16.00	89.00	3,058.7	5.8	331.4	49.1	0.00	0.00	0.00
3,200.0	16.00	89.00	3,154.8	6.3	359.0	53.2	0.00	0.00	0.00
3,300.0	16.00	89.00	3,250.9	6.7	386.6	57.3	0.00	0.00	0.00
3,400.0	16.00	89.00	3,347.0	7.2	414.1	61.3	0.00	0.00	0.00
3,500.0	16.00	89.00	3,443.2	7.7	441.7	65.4	0.00	0.00	0.00
3,600.0	16.00	89.00	3,539.3	8.2	469.2	69.5	0.00	0.00	0.00
3,700.0	16.00	89.00	3,635.4	8.7	496.8	73.6	0.00	0.00	0.00
3,800.0	16.00	89.00	3,731.5	9.2	524.4	77.7	0.00	0.00	0.00
3,900.0	16.00	89.00	3,827.7	9.6	551.9	81.7	0.00	0.00	0.00
4,000.0	16.00	89.00	3,923.8	10.1	579.5	85.8	0.00	0.00	0.00
4,100.0	16.00	89.00	4,019.9	10.6	607.0	89.9	0.00	0.00	0.00
4,200.0	16.00	89.00	4,116.0	11.1	634.6	94.0	0.00	0.00	0.00
4,300.0	16.00	89.00	4,212.2	11.6	662.2	98.1	0.00	0.00	0.00
4,400.0	16.00	89.00	4,308.3	12.0	689.7	102.2	0.00	0.00	0.00
4,500.0	16.00	89.00	4,404.4	12.5	717.3	106.2	0.00	0.00	0.00
4,600.0	16.00	89.00	4,500.5	13.0	744.8	110.3	0.00	0.00	0.00
4,700.0	16.00	89.00	4,596.7	13.5	772.4	114.4	0.00	0.00	0.00
4,800.0	16.00	89.00	4,692.8	14.0	799.9	118.5	0.00	0.00	0.00
4,900.0	16.00	89.00	4,788.9	14.4	827.5	122.6	0.00	0.00	0.00
5,000.0	16.00	89.00	4,885.0	14.9	855.1	126.6	0.00	0.00	0.00
5,100.0	16.00	89.00	4,981.2	15.4	882.6	130.7	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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	16.00	89.00	5,077.3	15.9	910.2	134.8	0.00	0.00	0.00	
5,300.0	16.00	89.00	5,173.4	16.4	937.7	138.9	0.00	0.00	0.00	
5,400.0	16.00	89.00	5,269.6	16.8	965.3	143.0	0.00	0.00	0.00	
5,500.0	16.00	89.00	5,365.7	17.3	992.9	147.1	0.00	0.00	0.00	
5,600.0	16.00	89.00	5,461.8	17.8	1,020.4	151.1	0.00	0.00	0.00	
5,700.0	16.00	89.00	5,557.9	18.3	1,048.0	155.2	0.00	0.00	0.00	
5,800.0	16.00	89.00	5,654.1	18.8	1,075.5	159.3	0.00	0.00	0.00	
5,900.0	16.00	89.00	5,750.2	19.3	1,103.1	163.4	0.00	0.00	0.00	
6,000.0	16.00	89.00	5,846.3	19.7	1,130.7	167.5	0.00	0.00	0.00	
6,100.0	16.00	89.00	5,942.4	20.2	1,158.2	171.6	0.00	0.00	0.00	
6,124.5	16.00	89.00	5,966.0	20.3	1,165.0	172.6	0.00	0.00	0.00	
Start Drop -0.50										
6,200.0	15.62	89.00	6,038.6	20.7	1,185.5	175.6	0.50	-0.50	0.00	
6,300.0	15.12	89.00	6,135.1	21.2	1,212.0	179.5	0.50	-0.50	0.00	
6,400.0	14.62	89.00	6,231.7	21.6	1,237.7	183.3	0.50	-0.50	0.00	
6,500.0	14.12	89.00	6,328.6	22.0	1,262.5	187.0	0.50	-0.50	0.00	
6,600.0	13.62	89.00	6,425.7	22.5	1,286.5	190.6	0.50	-0.50	0.00	
6,700.0	13.12	89.00	6,522.9	22.9	1,309.6	194.0	0.50	-0.50	0.00	
6,800.0	12.62	89.00	6,620.4	23.2	1,331.9	197.3	0.50	-0.50	0.00	
6,900.0	12.12	89.00	6,718.1	23.6	1,353.3	200.4	0.50	-0.50	0.00	
7,000.0	11.62	89.00	6,816.0	24.0	1,373.9	203.5	0.50	-0.50	0.00	
7,100.0	11.12	89.00	6,914.0	24.3	1,393.6	206.4	0.50	-0.50	0.00	
7,200.0	10.62	89.00	7,012.2	24.7	1,412.5	209.2	0.50	-0.50	0.00	
7,300.0	10.12	89.00	7,110.6	25.0	1,430.5	211.9	0.50	-0.50	0.00	
7,400.0	9.62	89.00	7,209.1	25.3	1,447.6	214.4	0.50	-0.50	0.00	
7,500.0	9.12	89.00	7,307.8	25.6	1,463.9	216.8	0.50	-0.50	0.00	
7,600.0	8.62	89.00	7,406.6	25.8	1,479.3	219.1	0.50	-0.50	0.00	
7,700.0	8.12	89.00	7,505.5	26.1	1,493.9	221.3	0.50	-0.50	0.00	
7,800.0	7.62	89.00	7,604.6	26.3	1,507.6	223.3	0.50	-0.50	0.00	
7,900.0	7.12	89.00	7,703.7	26.5	1,520.4	225.2	0.50	-0.50	0.00	
8,000.0	6.62	89.00	7,803.0	26.7	1,532.4	227.0	0.50	-0.50	0.00	
8,100.0	6.12	89.00	7,902.4	26.9	1,543.5	228.6	0.50	-0.50	0.00	
8,200.0	5.62	89.00	8,001.9	27.1	1,553.7	230.1	0.50	-0.50	0.00	
8,300.0	5.12	89.00	8,101.4	27.3	1,563.1	231.5	0.50	-0.50	0.00	
8,400.0	4.62	89.00	8,201.1	27.4	1,571.6	232.8	0.50	-0.50	0.00	
8,500.0	4.12	89.00	8,300.8	27.6	1,579.2	233.9	0.50	-0.50	0.00	
8,600.0	3.62	89.00	8,400.5	27.7	1,585.9	234.9	0.50	-0.50	0.00	
8,700.0	3.12	89.00	8,500.4	27.8	1,591.8	235.8	0.50	-0.50	0.00	
8,800.0	2.62	89.00	8,600.2	27.9	1,596.8	236.5	0.50	-0.50	0.00	
8,900.0	2.12	89.00	8,700.2	27.9	1,601.0	237.1	0.50	-0.50	0.00	
9,000.0	1.62	89.00	8,800.1	28.0	1,604.2	237.6	0.50	-0.50	0.00	
9,100.0	1.12	89.00	8,900.1	28.0	1,606.6	238.0	0.50	-0.50	0.00	
9,200.0	0.62	89.00	9,000.1	28.1	1,608.1	238.2	0.50	-0.50	0.00	
9,300.0	0.12	89.00	9,100.1	28.1	1,608.8	238.3	0.50	-0.50	0.00	
9,324.5	0.00	0.00	9,124.6	28.1	1,608.8	238.3	0.50	-0.50	0.00	
Start 2137.0 hold at 9324.5 MD										
9,400.0	0.00	0.00	9,200.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,300.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,400.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,500.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,600.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,700.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,800.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,900.1	28.1	1,608.8	238.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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)
10,200.0	0.00	0.00	10,000.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,100.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,200.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,300.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,400.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,500.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,600.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,700.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,800.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,100.0	0.00	0.00	10,900.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,000.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,100.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,200.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,461.5	0.00	0.00	11,261.5	28.1	1,608.8	238.3	0.00	0.00	0.00
Start DLS 12.00 TFO 179.63									
11,475.0	1.62	179.63	11,275.1	27.9	1,608.8	238.5	12.00	12.00	0.00
11,500.0	4.62	179.63	11,300.0	26.5	1,608.8	239.8	12.00	12.00	0.00
11,525.0	7.62	179.63	11,324.9	23.9	1,608.8	242.5	12.00	12.00	0.00
11,550.0	10.62	179.63	11,349.6	19.9	1,608.9	246.4	12.00	12.00	0.00
11,575.0	13.62	179.63	11,374.0	14.6	1,608.9	251.6	12.00	12.00	0.00
11,600.0	16.62	179.63	11,398.1	8.1	1,608.9	258.0	12.00	12.00	0.00
11,625.0	19.62	179.63	11,421.9	0.4	1,609.0	265.7	12.00	12.00	0.00
11,650.0	22.62	179.63	11,445.2	-8.7	1,609.1	274.6	12.00	12.00	0.00
11,675.0	25.62	179.63	11,468.0	-18.9	1,609.1	284.6	12.00	12.00	0.00
11,700.0	28.62	179.63	11,490.3	-30.3	1,609.2	295.9	12.00	12.00	0.00
11,725.0	31.62	179.63	11,511.9	-42.8	1,609.3	308.3	12.00	12.00	0.00
11,750.0	34.62	179.63	11,532.8	-56.5	1,609.4	321.8	12.00	12.00	0.00
11,775.0	37.62	179.63	11,553.0	-71.2	1,609.5	336.3	12.00	12.00	0.00
11,800.0	40.62	179.63	11,572.4	-87.0	1,609.6	351.9	12.00	12.00	0.00
11,825.0	43.62	179.63	11,590.9	-103.7	1,609.7	368.4	12.00	12.00	0.00
11,850.0	46.62	179.63	11,608.6	-121.5	1,609.8	385.9	12.00	12.00	0.00
11,875.0	49.62	179.63	11,625.3	-140.1	1,609.9	404.3	12.00	12.00	0.00
11,900.0	52.62	179.63	11,641.0	-159.5	1,610.0	423.5	12.00	12.00	0.00
11,925.0	55.62	179.63	11,655.6	-179.8	1,610.2	443.5	12.00	12.00	0.00
11,950.0	58.62	179.63	11,669.2	-200.8	1,610.3	464.2	12.00	12.00	0.00
11,975.0	61.62	179.63	11,681.6	-222.5	1,610.4	485.6	12.00	12.00	0.00
12,000.0	64.62	179.63	11,692.9	-244.7	1,610.6	507.7	12.00	12.00	0.00
12,025.0	67.62	179.63	11,703.0	-267.6	1,610.7	530.2	12.00	12.00	0.00
12,050.0	70.62	179.63	11,712.0	-291.0	1,610.9	553.3	12.00	12.00	0.00
12,075.0	73.62	179.63	11,719.6	-314.8	1,611.0	576.8	12.00	12.00	0.00
12,100.0	76.62	179.63	11,726.0	-338.9	1,611.2	600.6	12.00	12.00	0.00
12,125.0	79.62	179.63	11,731.2	-363.4	1,611.4	624.8	12.00	12.00	0.00
12,150.0	82.62	179.63	11,735.0	-388.1	1,611.5	649.2	12.00	12.00	0.00
12,175.0	85.62	179.63	11,737.6	-412.9	1,611.7	673.7	12.00	12.00	0.00
12,200.0	88.62	179.63	11,738.9	-437.9	1,611.8	698.4	12.00	12.00	0.00
12,211.5	90.00	179.63	11,739.0	-449.4	1,611.9	709.7	12.00	12.00	0.00
Start 9486.0 hold at 12211.5 MD									
12,300.0	90.00	179.63	11,739.0	-537.9	1,612.5	797.1	0.00	0.00	0.00
12,400.0	90.00	179.63	11,739.0	-637.9	1,613.1	895.8	0.00	0.00	0.00
12,500.0	90.00	179.63	11,739.0	-737.9	1,613.8	994.5	0.00	0.00	0.00
12,600.0	90.00	179.63	11,739.0	-837.9	1,614.4	1,093.3	0.00	0.00	0.00
12,700.0	90.00	179.63	11,739.0	-937.9	1,615.1	1,192.0	0.00	0.00	0.00
12,800.0	90.00	179.63	11,739.0	-1,037.9	1,615.7	1,290.7	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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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	11,739.0	-1,137.9	1,616.4	1,389.5	0.00	0.00	0.00
13,000.0	90.00	179.63	11,739.0	-1,237.9	1,617.0	1,488.2	0.00	0.00	0.00
13,100.0	90.00	179.63	11,739.0	-1,337.9	1,617.7	1,586.9	0.00	0.00	0.00
13,200.0	90.00	179.63	11,739.0	-1,437.9	1,618.4	1,685.7	0.00	0.00	0.00
13,300.0	90.00	179.63	11,739.0	-1,537.9	1,619.0	1,784.4	0.00	0.00	0.00
13,400.0	90.00	179.63	11,739.0	-1,637.9	1,619.7	1,883.1	0.00	0.00	0.00
13,500.0	90.00	179.63	11,739.0	-1,737.9	1,620.3	1,981.8	0.00	0.00	0.00
13,600.0	90.00	179.63	11,739.0	-1,837.9	1,621.0	2,080.6	0.00	0.00	0.00
13,700.0	90.00	179.63	11,739.0	-1,937.9	1,621.6	2,179.3	0.00	0.00	0.00
13,800.0	90.00	179.63	11,739.0	-2,037.9	1,622.3	2,278.0	0.00	0.00	0.00
13,900.0	90.00	179.63	11,739.0	-2,137.9	1,622.9	2,376.8	0.00	0.00	0.00
14,000.0	90.00	179.63	11,739.0	-2,237.9	1,623.6	2,475.5	0.00	0.00	0.00
14,100.0	90.00	179.63	11,739.0	-2,337.9	1,624.2	2,574.2	0.00	0.00	0.00
14,200.0	90.00	179.63	11,739.0	-2,437.9	1,624.9	2,672.9	0.00	0.00	0.00
14,300.0	90.00	179.63	11,739.0	-2,537.9	1,625.5	2,771.7	0.00	0.00	0.00
14,400.0	90.00	179.63	11,739.0	-2,637.9	1,626.2	2,870.4	0.00	0.00	0.00
14,500.0	90.00	179.63	11,739.0	-2,737.8	1,626.8	2,969.1	0.00	0.00	0.00
14,600.0	90.00	179.63	11,739.0	-2,837.8	1,627.5	3,067.9	0.00	0.00	0.00
14,700.0	90.00	179.63	11,739.0	-2,937.8	1,628.1	3,166.6	0.00	0.00	0.00
14,800.0	90.00	179.63	11,739.0	-3,037.8	1,628.8	3,265.3	0.00	0.00	0.00
14,900.0	90.00	179.63	11,739.0	-3,137.8	1,629.4	3,364.0	0.00	0.00	0.00
15,000.0	90.00	179.63	11,739.0	-3,237.8	1,630.1	3,462.8	0.00	0.00	0.00
15,100.0	90.00	179.63	11,739.0	-3,337.8	1,630.7	3,561.5	0.00	0.00	0.00
15,200.0	90.00	179.63	11,739.0	-3,437.8	1,631.4	3,660.2	0.00	0.00	0.00
15,300.0	90.00	179.63	11,739.0	-3,537.8	1,632.0	3,759.0	0.00	0.00	0.00
15,400.0	90.00	179.63	11,739.0	-3,637.8	1,632.7	3,857.7	0.00	0.00	0.00
15,500.0	90.00	179.63	11,739.0	-3,737.8	1,633.3	3,956.4	0.00	0.00	0.00
15,600.0	90.00	179.63	11,739.0	-3,837.8	1,634.0	4,055.2	0.00	0.00	0.00
15,700.0	90.00	179.63	11,739.0	-3,937.8	1,634.6	4,153.9	0.00	0.00	0.00
15,800.0	90.00	179.63	11,739.0	-4,037.8	1,635.3	4,252.6	0.00	0.00	0.00
15,900.0	90.00	179.63	11,739.0	-4,137.8	1,635.9	4,351.3	0.00	0.00	0.00
16,000.0	90.00	179.63	11,739.0	-4,237.8	1,636.6	4,450.1	0.00	0.00	0.00
16,100.0	90.00	179.63	11,739.0	-4,337.8	1,637.2	4,548.8	0.00	0.00	0.00
16,200.0	90.00	179.63	11,739.0	-4,437.8	1,637.9	4,647.5	0.00	0.00	0.00
16,300.0	90.00	179.63	11,739.0	-4,537.8	1,638.5	4,746.3	0.00	0.00	0.00
16,400.0	90.00	179.63	11,739.0	-4,637.8	1,639.2	4,845.0	0.00	0.00	0.00
16,500.0	90.00	179.63	11,739.0	-4,737.8	1,639.8	4,943.7	0.00	0.00	0.00
16,600.0	90.00	179.63	11,739.0	-4,837.8	1,640.5	5,042.4	0.00	0.00	0.00
16,700.0	90.00	179.63	11,739.0	-4,937.8	1,641.1	5,141.2	0.00	0.00	0.00
16,800.0	90.00	179.63	11,739.0	-5,037.8	1,641.8	5,239.9	0.00	0.00	0.00
16,900.0	90.00	179.63	11,739.0	-5,137.8	1,642.4	5,338.6	0.00	0.00	0.00
17,000.0	90.00	179.63	11,739.0	-5,237.8	1,643.1	5,437.4	0.00	0.00	0.00
17,100.0	90.00	179.63	11,739.0	-5,337.8	1,643.7	5,536.1	0.00	0.00	0.00
17,200.0	90.00	179.63	11,739.0	-5,437.8	1,644.4	5,634.8	0.00	0.00	0.00
17,300.0	90.00	179.63	11,739.0	-5,537.8	1,645.0	5,733.5	0.00	0.00	0.00
17,400.0	90.00	179.63	11,739.0	-5,637.8	1,645.7	5,832.3	0.00	0.00	0.00
17,500.0	90.00	179.63	11,739.0	-5,737.8	1,646.3	5,931.0	0.00	0.00	0.00
17,600.0	90.00	179.63	11,739.0	-5,837.8	1,647.0	6,029.7	0.00	0.00	0.00
17,700.0	90.00	179.63	11,739.0	-5,937.8	1,647.6	6,128.5	0.00	0.00	0.00
17,800.0	90.00	179.63	11,739.0	-6,037.8	1,648.3	6,227.2	0.00	0.00	0.00
17,900.0	90.00	179.63	11,739.0	-6,137.8	1,648.9	6,325.9	0.00	0.00	0.00
18,000.0	90.00	179.63	11,739.0	-6,237.8	1,649.6	6,424.7	0.00	0.00	0.00
18,100.0	90.00	179.63	11,739.0	-6,337.8	1,650.2	6,523.4	0.00	0.00	0.00
18,200.0	90.00	179.63	11,739.0	-6,437.8	1,650.9	6,622.1	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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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	11,739.0	-6,537.8	1,651.5	6,720.8	0.00	0.00	0.00
18,400.0	90.00	179.63	11,739.0	-6,637.8	1,652.2	6,819.6	0.00	0.00	0.00
18,500.0	90.00	179.63	11,739.0	-6,737.8	1,652.8	6,918.3	0.00	0.00	0.00
18,600.0	90.00	179.63	11,739.0	-6,837.8	1,653.5	7,017.0	0.00	0.00	0.00
18,700.0	90.00	179.63	11,739.0	-6,937.8	1,654.1	7,115.8	0.00	0.00	0.00
18,800.0	90.00	179.63	11,739.0	-7,037.8	1,654.8	7,214.5	0.00	0.00	0.00
18,900.0	90.00	179.63	11,739.0	-7,137.8	1,655.4	7,313.2	0.00	0.00	0.00
19,000.0	90.00	179.63	11,739.0	-7,237.8	1,656.1	7,411.9	0.00	0.00	0.00
19,100.0	90.00	179.63	11,739.0	-7,337.8	1,656.7	7,510.7	0.00	0.00	0.00
19,200.0	90.00	179.63	11,739.0	-7,437.7	1,657.4	7,609.4	0.00	0.00	0.00
19,300.0	90.00	179.63	11,739.0	-7,537.7	1,658.0	7,708.1	0.00	0.00	0.00
19,400.0	90.00	179.63	11,739.0	-7,637.7	1,658.7	7,806.9	0.00	0.00	0.00
19,500.0	90.00	179.63	11,739.0	-7,737.7	1,659.3	7,905.6	0.00	0.00	0.00
19,600.0	90.00	179.63	11,739.0	-7,837.7	1,660.0	8,004.3	0.00	0.00	0.00
19,700.0	90.00	179.63	11,739.0	-7,937.7	1,660.6	8,103.1	0.00	0.00	0.00
19,800.0	90.00	179.63	11,739.0	-8,037.7	1,661.3	8,201.8	0.00	0.00	0.00
19,900.0	90.00	179.63	11,739.0	-8,137.7	1,661.9	8,300.5	0.00	0.00	0.00
20,000.0	90.00	179.63	11,739.0	-8,237.7	1,662.6	8,399.2	0.00	0.00	0.00
20,100.0	90.00	179.63	11,739.0	-8,337.7	1,663.2	8,498.0	0.00	0.00	0.00
20,200.0	90.00	179.63	11,739.0	-8,437.7	1,663.9	8,596.7	0.00	0.00	0.00
20,300.0	90.00	179.63	11,739.0	-8,537.7	1,664.5	8,695.4	0.00	0.00	0.00
20,400.0	90.00	179.63	11,739.0	-8,637.7	1,665.2	8,794.2	0.00	0.00	0.00
20,500.0	90.00	179.63	11,739.0	-8,737.7	1,665.8	8,892.9	0.00	0.00	0.00
20,600.0	90.00	179.63	11,739.0	-8,837.7	1,666.5	8,991.6	0.00	0.00	0.00
20,700.0	90.00	179.63	11,739.0	-8,937.7	1,667.1	9,090.3	0.00	0.00	0.00
20,800.0	90.00	179.63	11,739.0	-9,037.7	1,667.8	9,189.1	0.00	0.00	0.00
20,900.0	90.00	179.63	11,739.0	-9,137.7	1,668.4	9,287.8	0.00	0.00	0.00
21,000.0	90.00	179.63	11,739.0	-9,237.7	1,669.1	9,386.5	0.00	0.00	0.00
21,100.0	90.00	179.63	11,739.0	-9,337.7	1,669.7	9,485.3	0.00	0.00	0.00
21,200.0	90.00	179.63	11,739.0	-9,437.7	1,670.4	9,584.0	0.00	0.00	0.00
21,300.0	90.00	179.63	11,739.0	-9,537.7	1,671.0	9,682.7	0.00	0.00	0.00
21,400.0	90.00	179.63	11,739.0	-9,637.7	1,671.7	9,781.4	0.00	0.00	0.00
21,500.0	90.00	179.63	11,739.0	-9,737.7	1,672.3	9,880.2	0.00	0.00	0.00
21,600.0	90.00	179.63	11,739.0	-9,837.7	1,673.0	9,978.9	0.00	0.00	0.00
21,697.5	90.00	179.63	11,739.0	-9,935.2	1,673.6	10,075.2	0.00	0.00	0.00
Start 50.0 hold at 21697.5 MD									
21,700.0	90.00	179.63	11,739.0	-9,937.7	1,673.6	10,077.6	0.00	0.00	0.00
21,747.5	90.00	179.63	11,739.0	-9,985.2	1,673.9	10,124.5	0.00	0.00	0.00
TD at 21747.5									

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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)		
PBHL (ZHU 2032 WC #757H) - plan hits target center - Rectangle (sides W100.0 H10,071.8 D20.0)	0.00	359.63	11,739.0	-9,985.2	1,673.9	364,391.60	697,231.54	32° 0' 0.830 N	103° 41' 49.545 W
FTP (ZHU 2032 WC #757H) - plan misses target center by 240.0usft at 11807.4usft MD (11578.0 TVD, -91.9 N, 1609.6 E) - Circle (radius 50.0)	0.00	0.00	11,739.0	86.2	1,608.4	374,462.96	697,166.10	32° 1' 40.501 N	103° 41' 49.616 W
LTP (ZHU 2032 WC #757H) - plan hits target center - Point	0.00	0.00	11,739.0	-9,935.2	1,673.6	364,441.60	697,231.25	32° 0' 1.325 N	103° 41' 49.545 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
	11,461.5	11,261.5	DB INT 7-5/8"	7-5/8	9-7/8
	21,747.5	11,739.0	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
	2,300.0	2,289.6	1.9	111.0	Start 3824.5 hold at 2300.0 MD
	6,124.5	5,966.0	20.3	1,165.0	Start Drop -0.50
	9,324.5	9,124.6	28.1	1,608.8	Start 2137.0 hold at 9324.5 MD
	11,461.5	11,261.5	28.1	1,608.8	Start DLS 12.00 TFO 179.63
	12,211.5	11,739.0	-449.4	1,611.9	Start 9486.0 hold at 12211.5 MD
	21,697.5	11,739.0	-9,935.2	1,673.6	Start 50.0 hold at 21697.5 MD
	21,747.5	11,739.0	-9,985.2	1,673.9	TD at 21747.5

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 315662

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 315662
	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