

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-025-53235
3a. Address	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.
2. A Drilling Plan.
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). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
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)

Additional Operator Remarks

Location of Well

0. SHL: SWNW / 2632 FNL / 1037 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0282895 / LONG: -103.7024176 (TVD: 0 feet, MD: 0 feet)

PPP: SENW / 2620 FNL / 2480 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0283326 / LONG: -103.6977612 (TVD: 11597 feet, MD: 11826 feet)

BHL: NENW / 50 FNL / 2480 FWL / TWSP: 26S / RANGE: 32E / SECTION: 17 / LAT: 32.0500823 / LONG: -103.697846 (TVD: 11740 feet, MD: 19638 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 30-025-53235		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 707H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY			9 Elevation 3175.01'

¹⁰ Surface Location

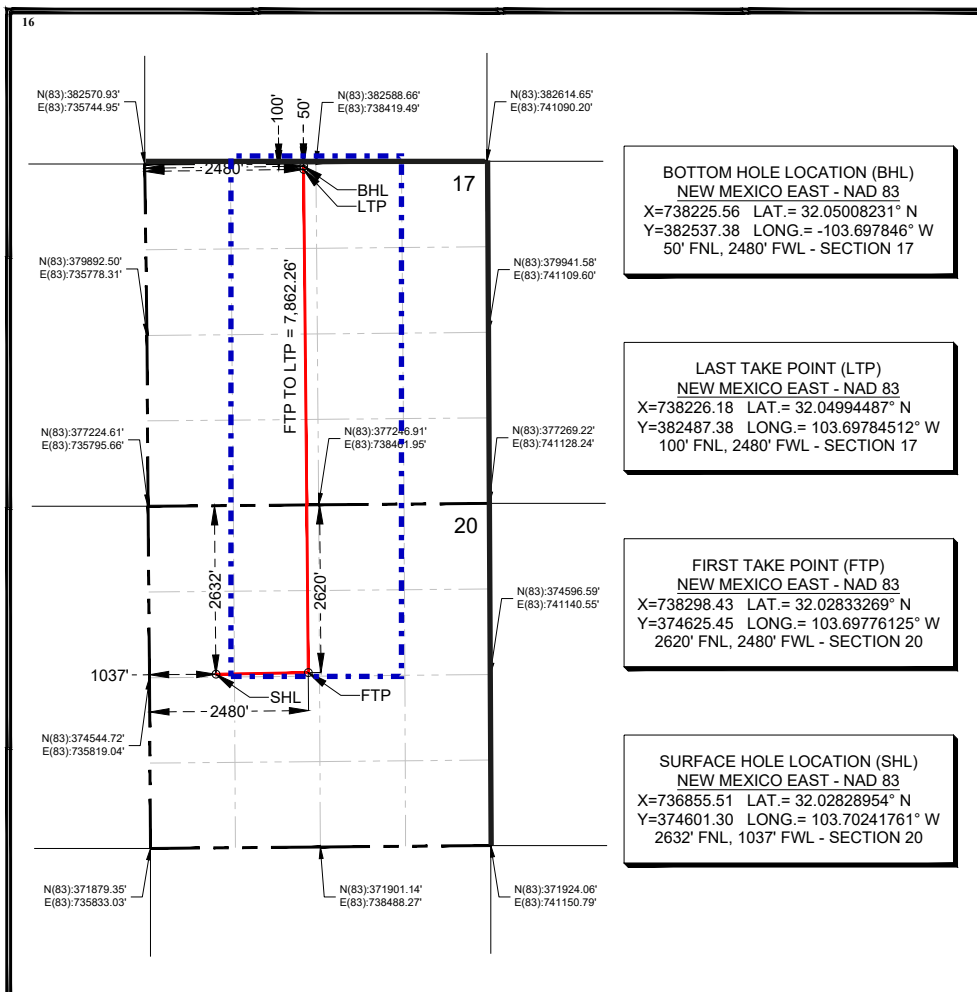
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	20	26-S	32-E		2632'	NORTH	1037'	WEST	LEA

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
C	17	26-S	32-E		50'	NORTH	2480'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
480		Unit	R-20080

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.

Signature Stan Wagner Date 2/20/2023

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 in the best of my belief.

11/10/2022

Signature and Seal of Professional Surveyor

Certificate Number

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 01/30/2023

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 701H	30-025-	E-20-26S-32E	2530 FNL & 887 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 702H	30-025-	E-20-26S-32E	2547 FNL & 912 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 703H	30-025-	E-20-26S-32E	2564 FNL & 937 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 704H	30-025-	E-20-26S-32E	2581 FNL & 962 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 705H	30-025-	E-20-26S-32E	2598 FNL & 987 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 706H	30-025-	E-20-26S-32E	2615 FNL & 1012 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 707H	30-025-	E-20-26S-32E	2632 FNL & 1037 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 701H-707H	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: 01/30/2023
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 707H

1. Geologic Formations

TVD of target	11,740' EOL	Pilot hole depth	NA
MD at TD:	19,638'	Deepest expected fresh water:	314'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1265	Water	
Top of Salt	1559	Salt	
Base of Salt	4096	Salt	
Lamar	4314	Salt Water	
Bell Canyon	4347	Salt Water	
Cherry Canyon	5232	Oil/Gas	
Brushy Canyon	6725	Oil/Gas	
Bone Spring Shale	8323	Oil/Gas	
1st Bone Spring Sand	9305	Oil/Gas	
2nd Bone Spring Sand	9985	Oil/Gas	
3rd Bone Spring Sand	11133	Oil/Gas	
Wolfcamp	11551	Target	
Wolfcamp A	11758	Not Penetrated	
Wolfcamp B	12063	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	19,638	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 707H

	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 707H

3. Cementing Program

Casing	# Sks	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
	758	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 707H

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 707H

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 707H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7635 psi at 11740' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

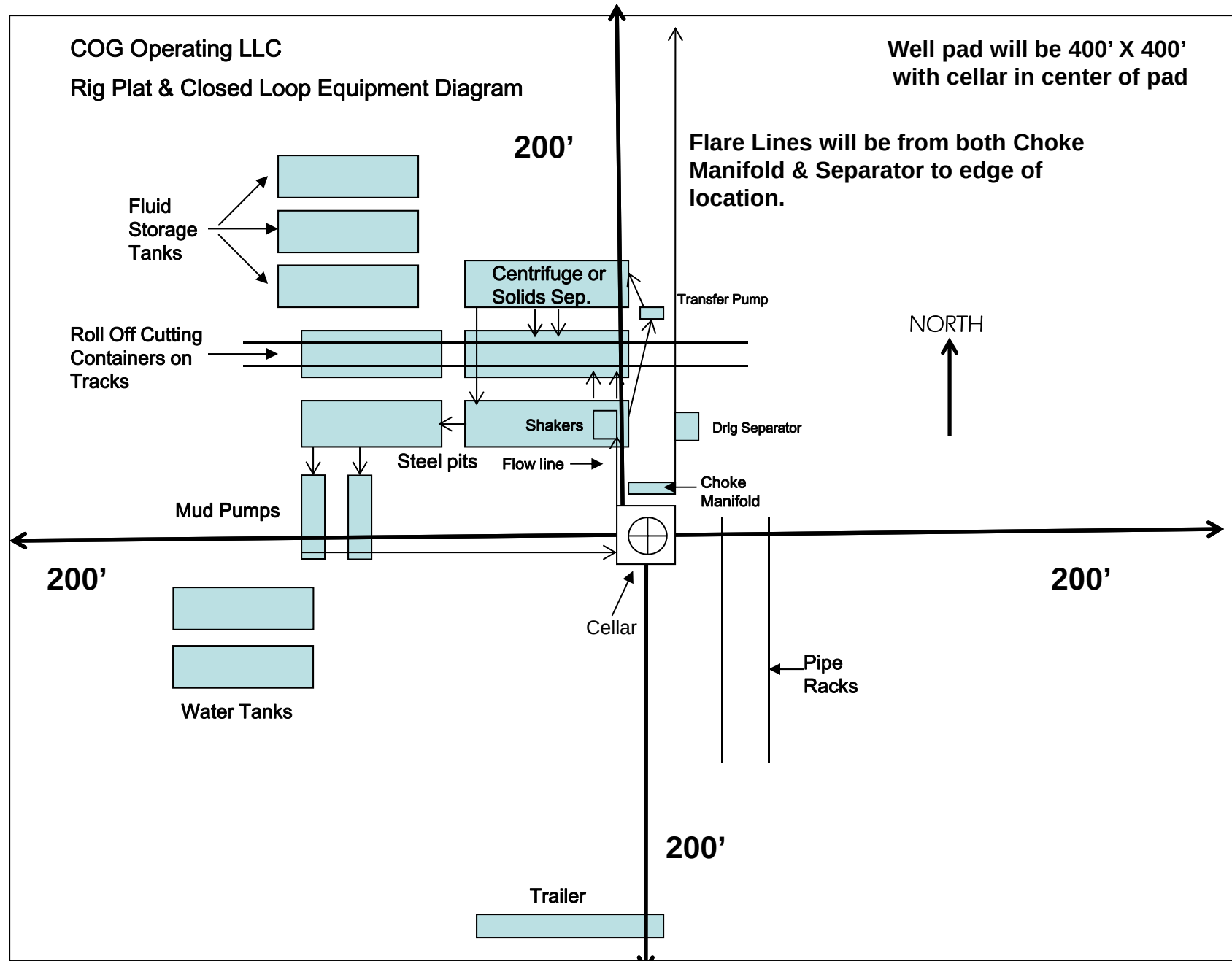


Exhibit 1

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2032 PROJECT

ZIA HILLS UNIT 2032 WC #707H

OWB

PWP0

Anticollision Report

24 January, 2023

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	1/24/2023		
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-Initialzd Cont. rev.5
1,500.0	11,184.9	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
11,184.9	19,638.4	PWP0 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
BUCK 20 FEDERAL #3H (P&A) - OWB - AWP	9,377.8	11,343.7	158.3	84.8	2.154	CC, ES, SF
BUCK 20 FEDERAL #6H (P&A) - OWB - AWP	8,994.0	11,084.2	526.3	442.6	6.287	CC
BUCK 20 FEDERAL #6H (P&A) - OWB - AWP	9,000.0	11,084.4	526.3	442.5	6.282	ES, SF
RED HILLS WEST UNIT #8H - OWB - AWP	19,638.4	11,742.9	258.1	153.9	2.479	CC, ES, SF
RUSSELL FEDERAL #10 - OWB - AWP	1,300.0	1,315.9	983.0	947.7	27.854	CC
RUSSELL FEDERAL #10 - OWB - AWP	2,300.0	2,305.9	993.5	923.7	14.242	ES
RUSSELL FEDERAL #10 - OWB - AWP	2,400.0	2,405.9	999.5	925.8	13.569	SF
RUSSELL FEDERAL #12 - OWB - AWP	1,439.6	1,442.5	727.9	690.2	19.287	CC
RUSSELL FEDERAL #12 - OWB - AWP	1,600.0	1,601.7	729.8	687.3	17.166	ES
RUSSELL FEDERAL #12 - OWB - AWP	2,900.0	2,870.5	999.2	903.3	10.417	SF
RUSSELL FEDERAL #2 - OWB - AWP						Out of range
RUSSELL FEDERAL #3 (P&A) - OWB - AWP						Out of range
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	4,105.2	4,034.0	375.5	230.2	2.585	CC
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	4,400.0	4,315.1	383.4	217.9	2.316	ES, SF
ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2	11,830.5	11,638.6	413.2	361.4	7.979	CC
ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2	19,638.4	19,521.0	457.9	328.2	3.530	ES, SF
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	12,257.8	11,958.3	834.4	784.1	16.597	CC
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	19,638.4	19,336.7	855.1	725.5	6.597	ES, SF
ZIA HILLS 20 FEDERAL COM #103H - OWB - PWP2						Out of range
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	11,225.5	11,057.4	491.1	440.2	9.641	CC, ES
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	11,300.0	11,128.1	491.3	440.3	9.629	SF
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	9,583.2	9,405.9	796.7	749.3	16.789	CC
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	9,600.0	9,416.0	796.7	749.2	16.762	ES
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	9,700.0	9,497.1	798.4	750.6	16.706	SF
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	9,583.2	9,405.9	796.7	749.5	16.875	CC
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	9,600.0	9,416.0	796.7	749.5	16.847	ES
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	9,700.0	9,497.1	798.4	750.9	16.790	SF
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	7,526.8	7,345.0	811.6	764.8	17.354	CC
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	7,721.2	7,540.4	811.6	764.6	17.261	ES
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	11,200.0	10,988.5	859.7	806.2	16.074	SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	7,273.5	7,013.8	932.1	885.9	20.147	CC
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	7,300.0	7,041.0	932.3	885.8	20.076	ES
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	7,500.0	7,251.2	939.5	892.0	19.781	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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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						Out of range
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	1,500.0	1,498.0	181.4	171.2	17.876	CC, ES, SF
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	1,500.0	1,498.0	151.2	141.1	14.902	CC, ES, SF
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	1,500.0	1,499.0	120.9	110.8	11.918	CC, ES, SF
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	1,500.0	1,499.0	90.7	80.5	8.936	CC
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	1,800.0	1,806.2	91.5	80.5	8.300	ES
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	1,900.0	1,906.1	93.6	82.1	8.167	SF
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,500.0	1,500.0	60.5	50.3	5.960	CC
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,900.0	1,906.7	61.3	49.8	5.329	ES
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	2,100.0	2,108.1	64.0	51.5	5.122	SF
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	1,500.0	1,500.0	30.2	20.1	2.978	CC
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	2,200.0	2,205.8	31.5	18.5	2.423	ES, SF
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	1,500.0	1,498.0	269.6	259.7	26.974	CC, ES
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	1,700.0	1,682.2	282.0	271.5	26.925	SF
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	1,500.0	1,499.0	250.6	240.6	24.991	CC, ES, SF
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	1,500.0	1,500.0	233.9	223.8	23.216	CC, ES
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	1,800.0	1,799.5	248.2	237.3	22.792	SF
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	1,922.4	1,950.1	216.7	204.9	18.377	CC, ES
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	4,300.0	4,304.4	500.4	470.1	16.506	SF
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	2,123.9	2,159.3	204.3	191.5	15.956	CC, ES
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	5,200.0	5,220.3	382.9	343.5	9.705	SF
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	2,213.1	2,248.2	198.7	185.6	15.224	CC, ES
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	6,300.0	6,324.0	307.0	258.3	6.297	SF
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	8,221.7	8,228.6	165.4	126.0	4.200	CC, ES
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	11,454.9	11,461.5	173.5	127.8	3.795	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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
BUCK 20 FEDERAL #3H (P&A) - OWB - AWP	19,638.4	8,896.5				Out of Range @TD
BUCK 20 FEDERAL #6H (P&A) - OWB - AWP	19,638.4	8,539.3				Out of Range @TD
RED HILLS WEST UNIT #8H - OWB - AWP	19,638.4	11,742.9	258.1	153.9	2.479	CC, ES, SF
RUSSELL FEDERAL #10 - OWB - AWP	19,638.4	4,500.0				Out of Range @TD
RUSSELL FEDERAL #12 - OWB - AWP	19,638.4	4,335.0				Out of Range @TD
RUSSELL FEDERAL #2 - OWB - AWP	19,638.4	4,351.0				Out of Range @TD
RUSSELL FEDERAL #3 (P&A) - OWB - AWP	19,638.4	4,353.0				Out of Range @TD
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	19,638.4	4,378.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2	19,638.4	19,521.0	457.9	328.2	3.530	ES, SF
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	19,638.4	19,336.7	855.1	725.5	6.597	ES, SF
ZIA HILLS 20 FEDERAL COM #103H - OWB - PWP2	19,638.4	19,544.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	19,638.4	11,211.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	19,638.4	11,643.3				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	19,638.4	11,259.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	19,638.4	10,978.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	19,638.4	11,211.0				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #2H (P&A) - OWB - AWP	19,638.4	8,924.2				Out of Range @TD
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	19,638.4	19,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	19,638.4	19,646.9				Out of Range @TD
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	19,638.4	19,449.5				Out of Range @TD
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	19,638.4	19,561.7				Out of Range @TD
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	19,638.4	19,423.0	820.0	687.5	6.190	
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	19,638.4	19,689.7	445.8	310.5	3.294	
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	19,638.4	11,400.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	19,638.4	11,500.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	19,638.4	11,275.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	19,638.4	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	19,638.4	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	19,638.4	11,600.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	19,638.4	11,500.0				Out of Range @TD

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		Offset Wellbore Centre		Distance		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)	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	8,207.7	11,353.1	9,205.4	30.9	42.3	-93.89	14.4	1,284.6	990.5	946.6	43.89	22.566		
8,500.0	8,307.7	11,352.3	9,205.4	30.9	42.3	-93.61	15.2	1,284.6	891.9	847.5	44.42	20.077		
8,600.0	8,407.7	11,351.5	9,205.4	30.9	42.3	-93.31	16.0	1,284.6	793.7	748.6	45.08	17.608		
8,700.0	8,507.7	11,350.6	9,205.4	31.0	42.3	-93.00	16.9	1,284.6	696.0	650.1	45.91	15.161		
8,800.0	8,607.7	11,349.7	9,205.4	31.0	42.3	-92.68	17.8	1,284.6	599.1	552.0	47.01	12.743		
8,900.0	8,707.7	11,348.8	9,205.4	31.0	42.2	-92.35	18.7	1,284.6	503.3	454.7	48.57	10.362		
9,000.0	8,807.7	11,347.8	9,205.4	31.0	42.2	-92.00	19.7	1,284.6	409.6	358.7	50.93	8.043		
9,100.0	8,907.7	11,346.8	9,205.5	31.1	42.2	-91.63	20.7	1,284.6	319.7	264.9	54.77	5.838		
9,200.0	9,007.7	11,345.8	9,205.5	31.1	42.2	-91.25	21.7	1,284.6	238.0	176.8	61.28	3.884		
9,300.0	9,107.7	11,344.7	9,205.5	31.1	42.2	-90.84	22.9	1,284.5	176.4	105.8	70.55	2.500		
9,377.8	9,185.5	11,343.7	9,205.5	31.1	42.2	-90.52	23.8	1,284.5	158.3	84.8	73.46	2.154 CC, ES, SF		
9,400.0	9,207.7	11,343.5	9,205.5	31.1	42.2	-90.42	24.0	1,284.5	159.8	87.5	72.37	2.208		
9,500.0	9,307.7	11,342.3	9,205.5	31.2	42.1	-89.97	25.3	1,284.5	199.9	138.5	61.40	3.257		
9,600.0	9,407.7	11,341.0	9,205.5	31.2	42.1	-89.51	26.6	1,284.5	272.8	220.1	52.70	5.176		
9,700.0	9,507.7	11,339.6	9,205.5	31.2	42.1	-89.01	27.9	1,284.5	358.9	310.5	48.48	7.404		
9,800.0	9,607.7	11,338.2	9,205.6	31.3	42.1	-88.49	29.4	1,284.5	450.8	404.3	46.55	9.685		
9,900.0	9,707.7	11,336.6	9,205.6	31.3	42.1	-87.94	30.9	1,284.5	545.6	499.9	45.67	11.946		
10,000.0	9,807.7	11,335.0	9,205.6	31.3	42.0	-87.36	32.5	1,284.4	642.0	596.7	45.30	14.172		
10,100.0	9,907.7	11,333.3	9,205.6	31.3	42.0	-86.74	34.2	1,284.4	739.3	694.1	45.19	16.360		
10,200.0	10,007.7	11,331.5	9,205.7	31.4	42.0	-86.08	36.0	1,284.4	837.2	792.0	45.22	18.513		
10,300.0	10,107.7	11,329.5	9,205.7	31.4	41.9	-85.39	38.0	1,284.4	935.6	890.2	45.34	20.633		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	8,007.7	11,057.5	8,818.6	30.8	50.7	86.50	57.4	1,969.0	952.2	899.6		52.59	18.105
8,300.0	8,107.7	11,061.4	8,818.7	30.9	50.8	86.91	53.6	1,969.0	870.6	815.2		55.42	15.709
8,400.0	8,207.7	11,065.1	8,818.9	30.9	50.8	87.31	49.9	1,969.0	793.3	734.5		58.83	13.485
8,500.0	8,307.7	11,068.6	8,819.1	30.9	50.9	87.70	46.3	1,969.0	721.6	658.7		62.87	11.477
8,600.0	8,407.7	11,072.0	8,819.2	30.9	50.9	88.07	42.9	1,969.0	657.3	589.8		67.52	9.735
8,700.0	8,507.7	11,075.3	8,819.3	31.0	51.0	88.43	39.6	1,969.0	602.7	530.2		72.56	8.307
8,800.0	8,607.7	11,078.4	8,819.5	31.0	51.0	88.77	36.5	1,969.0	560.9	483.4		77.49	7.238
8,900.0	8,707.7	11,081.5	8,819.6	31.0	51.0	89.10	33.5	1,969.0	534.6	453.1		81.51	6.558
8,994.0	8,801.7	11,084.2	8,819.7	31.0	51.1	89.40	30.7	1,969.0	526.3	442.6		83.70	6.287 CC
9,000.0	8,807.7	11,084.4	8,819.7	31.0	51.1	89.42	30.5	1,969.0	526.3	442.5		83.78	6.282 ES, SF
9,100.0	8,907.7	11,087.2	8,819.8	31.1	51.1	89.73	27.7	1,969.1	536.8	453.0		83.85	6.402
9,200.0	9,007.7	11,090.0	8,819.9	31.1	51.2	90.02	25.0	1,969.1	565.1	483.1		81.96	6.895
9,300.0	9,107.7	11,092.6	8,820.0	31.1	51.2	90.31	22.3	1,969.1	608.7	529.8		78.84	7.720
9,400.0	9,207.7	11,095.1	8,820.1	31.1	51.2	90.59	19.8	1,969.2	664.5	589.3		75.25	8.831
9,500.0	9,307.7	11,097.6	8,820.2	31.2	51.3	90.85	17.3	1,969.2	729.9	658.1		71.71	10.178
9,600.0	9,407.7	11,100.0	8,820.3	31.2	51.3	91.11	15.0	1,969.3	802.3	733.9		68.49	11.714
9,700.0	9,507.7	11,102.3	8,820.4	31.2	51.3	91.36	12.7	1,969.3	880.2	814.5		65.70	13.397
9,800.0	9,607.7	11,104.5	8,820.5	31.3	51.4	91.60	10.4	1,969.4	962.2	898.9		63.34	15.190

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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 - RED HILLS WEST UNIT #8H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS, 1131-MWD - OWSG R1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,800.0	11,740.0	11,609.0	11,606.0	63.1	37.5	-52.97	8,006.6	1,141.8	955.0	886.4	68.58	13.925		
18,900.0	11,740.0	11,609.0	11,606.0	63.7	37.5	-52.97	8,006.6	1,141.8	860.1	790.4	69.68	12.343		
19,000.0	11,740.0	11,619.9	11,616.6	64.4	37.6	-54.71	8,009.0	1,141.8	766.3	695.3	71.08	10.781		
19,100.0	11,740.0	11,631.8	11,628.2	65.0	37.6	-56.69	8,011.7	1,141.8	674.0	601.1	72.93	9.242		
19,200.0	11,740.0	11,640.0	11,636.2	65.7	37.6	-58.12	8,013.7	1,141.7	583.8	508.3	75.49	7.732		
19,300.0	11,740.0	11,661.9	11,657.3	66.4	37.7	-62.13	8,019.3	1,141.5	496.4	417.4	78.95	6.287		
19,400.0	11,740.0	11,681.0	11,675.7	67.1	37.8	-65.86	8,024.7	1,141.3	413.6	329.6	83.96	4.926		
19,500.0	11,740.0	11,703.0	11,696.6	67.7	37.8	-70.40	8,031.3	1,141.1	338.4	247.3	91.11	3.715		
19,588.4	11,740.0	11,727.6	11,719.8	68.3	37.9	-75.72	8,039.5	1,140.9	282.7	183.4	99.26	2.848		
19,600.0	11,740.0	11,731.0	11,723.0	68.4	37.9	-76.47	8,040.6	1,140.8	276.5	176.1	100.40	2.754		
19,638.4	11,740.0	11,742.9	11,734.2	68.7	37.9	-79.15	8,044.9	1,140.7	258.1	153.9	104.11	2.479 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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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 #10 - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 250-INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	15.8	15.8	3.0	3.0	-3.23	981.4	-55.5	983.0	976.1	6.90	142.540	
100.0	100.0	115.8	115.8	3.1	3.2	-3.23	981.4	-55.5	983.0	975.8	7.20	136.535	
200.0	200.0	215.8	215.8	3.2	3.6	-3.23	981.4	-55.5	983.0	975.2	7.74	126.958	
300.0	300.0	315.8	315.8	3.4	4.7	-3.23	981.4	-55.5	983.0	974.0	9.00	109.260	
400.0	400.0	417.3	417.2	3.5	6.3	-3.23	981.6	-55.5	983.2	972.2	10.97	89.589	
500.0	500.0	515.8	515.8	3.6	8.0	-3.23	981.4	-55.5	983.0	969.8	13.18	74.596	
600.0	600.0	615.8	615.8	3.7	9.8	-3.23	981.4	-55.5	983.0	967.3	15.62	62.912	
700.0	700.0	715.8	715.8	3.9	11.7	-3.23	981.4	-55.5	983.0	964.8	18.16	54.120	
800.0	800.0	817.7	817.7	4.0	13.6	-3.23	982.1	-55.5	983.7	962.9	20.81	47.279	
900.0	900.0	920.4	920.4	4.1	15.6	-3.23	981.8	-55.5	983.4	959.8	23.51	41.832	
1,000.0	1,000.0	1,015.9	1,015.8	4.2	17.5	-3.23	981.4	-55.5	983.0	956.9	26.09	37.674	
1,100.0	1,100.0	1,120.2	1,120.2	4.3	19.7	-3.23	981.5	-55.5	983.1	954.0	29.07	33.814	
1,196.4	1,196.4	1,212.3	1,212.2	4.5	21.8	-3.23	981.4	-55.5	983.0	951.0	31.95	30.768	
1,200.0	1,200.0	1,215.9	1,215.8	4.5	21.8	-3.23	981.4	-55.5	983.0	950.9	32.06	30.656	
1,300.0	1,300.0	1,315.9	1,315.8	4.6	24.2	-3.23	981.4	-55.5	983.0	947.7	35.29	27.854 CC	
1,400.0	1,400.0	1,416.8	1,416.7	4.7	26.5	-3.23	982.7	-55.5	984.3	945.9	38.43	25.616	
1,500.0	1,500.0	1,521.3	1,521.2	4.8	29.0	-3.23	982.4	-55.5	984.0	942.2	41.81	23.532	
1,600.0	1,600.0	1,625.8	1,625.7	4.9	31.4	-92.35	981.6	-55.5	983.3	938.3	45.00	21.850	
1,629.0	1,629.0	1,656.1	1,656.0	5.0	32.1	-92.43	981.3	-55.5	983.0	937.0	45.99	21.376	
1,700.0	1,699.8	1,715.9	1,715.6	5.1	33.7	-92.63	981.4	-55.5	983.2	935.1	48.16	20.418	
1,800.0	1,799.5	1,815.5	1,815.3	5.3	36.2	-93.13	981.4	-55.5	983.7	932.0	51.71	19.024	
1,900.0	1,898.7	1,915.8	1,915.6	5.6	38.8	-93.82	983.0	-55.5	986.1	930.8	55.29	17.834	
2,000.0	1,997.5	2,020.0	2,019.7	5.9	41.5	-94.75	982.6	-55.5	986.8	927.8	59.01	16.723	
2,100.0	2,095.6	2,123.5	2,123.2	6.3	44.1	-95.88	981.7	-55.5	987.7	925.0	62.71	15.750	
2,200.0	2,193.1	2,209.3	2,208.9	6.6	46.5	-96.95	981.4	-55.5	989.9	923.9	65.99	15.001	
2,300.0	2,289.6	2,305.9	2,305.4	7.0	49.2	-98.31	981.4	-55.5	993.5	923.7	69.76	14.242 ES	
2,400.0	2,385.8	2,405.9	2,405.5	7.3	52.0	-99.87	982.9	-55.5	999.5	925.8	73.66	13.569 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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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 #12 - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 296-INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	3.1	3.1	3.0	3.0	-104.25	-179.3	-705.8	728.2	721.3	6.89	105.655	
100.0	100.0	103.1	103.1	3.1	3.1	-104.25	-179.3	-705.8	728.2	721.1	7.15	101.872	
200.0	200.0	203.1	203.1	3.2	3.5	-104.25	-179.3	-705.8	728.2	720.6	7.63	95.468	
300.0	300.0	303.1	303.1	3.4	4.1	-104.25	-179.3	-705.8	728.2	719.9	8.33	87.378	
400.0	400.0	403.1	403.1	3.5	5.5	-104.25	-179.3	-705.8	728.2	718.2	9.99	72.907	
441.5	441.5	444.6	444.6	3.5	6.1	-104.24	-179.1	-705.8	728.2	717.4	10.78	67.539	
500.0	500.0	502.9	502.9	3.6	7.0	-104.24	-179.1	-705.8	728.2	716.2	11.97	60.832	
600.0	600.0	603.1	603.1	3.7	8.7	-104.25	-179.3	-705.8	728.2	714.1	14.16	51.440	
700.0	700.0	703.1	703.1	3.9	10.5	-104.25	-179.3	-705.8	728.2	711.6	16.59	43.884	
734.1	734.1	737.1	737.1	3.9	11.2	-104.23	-179.0	-705.8	728.2	710.7	17.44	41.747	
800.0	800.0	802.7	802.7	4.0	12.4	-104.23	-179.0	-705.8	728.2	709.1	19.10	38.132	
900.0	900.0	903.1	903.1	4.1	14.3	-104.25	-179.3	-705.8	728.2	706.5	21.74	33.499	
1,000.0	1,000.0	1,003.1	1,003.1	4.2	16.4	-104.25	-179.3	-705.8	728.2	703.6	24.60	29.605	
1,031.4	1,031.4	1,034.3	1,034.3	4.3	17.1	-104.20	-178.7	-705.8	728.1	702.6	25.50	28.556	
1,100.0	1,100.0	1,102.2	1,102.2	4.3	18.5	-104.22	-178.9	-705.8	728.1	700.7	27.46	26.518	
1,200.0	1,200.0	1,203.2	1,203.1	4.5	20.7	-104.25	-179.3	-705.8	728.2	697.9	30.33	24.008	
1,300.0	1,300.0	1,303.2	1,303.1	4.6	22.9	-104.25	-179.3	-705.8	728.2	694.8	33.42	21.790	
1,400.0	1,400.0	1,403.2	1,403.1	4.7	25.2	-104.25	-179.3	-705.8	728.2	691.7	36.52	19.941	
1,439.6	1,439.6	1,442.5	1,442.4	4.7	26.1	-104.15	-177.9	-705.8	727.9	690.2	37.74	19.287 CC	
1,500.0	1,500.0	1,502.5	1,502.4	4.8	27.4	-104.16	-178.1	-705.8	727.9	688.3	39.61	18.380	
1,600.0	1,600.0	1,601.7	1,601.6	4.9	29.6	-166.81	-178.7	-705.8	729.8	687.3	42.51	17.166 ES	
1,700.0	1,699.8	1,703.1	1,702.9	5.1	32.1	166.84	-179.3	-705.8	735.0	689.1	45.98	15.986	
1,800.0	1,799.5	1,802.1	1,801.9	5.3	34.8	166.99	-178.8	-705.8	743.4	693.7	49.72	14.953	
1,900.0	1,898.7	1,902.1	1,901.8	5.6	37.6	167.11	-179.3	-705.8	755.4	701.8	53.63	14.085	
2,000.0	1,997.5	1,998.7	1,998.3	5.9	40.5	167.34	-178.7	-705.8	770.5	712.8	57.71	13.351	
2,100.0	2,095.6	2,099.2	2,098.7	6.3	43.6	167.53	-179.3	-705.8	789.3	727.3	62.02	12.726	
2,200.0	2,193.1	2,196.2	2,195.7	6.6	46.5	167.86	-178.0	-705.8	811.0	744.8	66.22	12.248	
2,300.0	2,289.6	2,290.7	2,290.2	7.0	49.5	168.06	-178.8	-705.8	836.6	766.2	70.31	11.897	
2,400.0	2,385.8	2,389.5	2,388.9	7.3	52.5	168.42	-179.3	-705.8	863.7	789.0	74.64	11.571	
2,500.0	2,481.9	2,485.7	2,485.0	7.7	55.6	168.77	-179.3	-705.8	890.7	811.9	78.88	11.292	
2,600.0	2,578.0	2,581.4	2,580.7	8.0	58.6	169.27	-176.7	-705.8	917.3	834.2	83.11	11.038	
2,700.0	2,674.1	2,676.1	2,675.3	8.4	61.5	169.54	-177.3	-705.8	944.6	857.3	87.29	10.821	
2,800.0	2,770.3	2,770.8	2,770.0	8.8	64.5	169.74	-178.8	-705.8	972.0	880.5	91.48	10.626	
2,900.0	2,866.4	2,870.5	2,869.5	9.2	67.7	170.00	-179.3	-705.8	999.2	903.3	95.92	10.417 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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #6 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 500-INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	10.0	10.0	3.0	3.0	120.48	-367.3	624.2	724.2	717.2	6.98	103.723	
100.0	100.0	110.0	110.0	3.1	3.2	120.48	-367.3	624.2	724.2	717.1	7.11	101.824	
200.0	200.0	210.0	210.0	3.2	3.6	120.48	-367.3	624.2	724.2	716.6	7.64	94.808	
300.0	300.0	310.0	310.0	3.4	4.1	120.48	-367.3	624.2	724.2	715.9	8.35	86.687	
400.0	400.0	410.0	410.0	3.5	4.8	120.48	-367.3	624.2	724.2	715.0	9.21	78.631	
500.0	500.0	510.0	510.0	3.6	5.7	120.48	-367.3	624.2	724.2	714.0	10.27	70.549	
600.0	600.0	610.0	610.0	3.7	7.4	120.48	-367.3	624.2	724.2	711.8	12.39	58.467	
700.0	700.0	710.0	710.0	3.9	9.1	120.48	-367.3	624.2	724.2	709.5	14.69	49.286	
741.4	741.4	751.4	751.4	3.9	9.9	120.44	-366.8	624.2	724.0	708.3	15.68	46.162	
800.0	800.0	809.6	809.6	4.0	10.9	120.44	-366.8	624.2	724.0	706.9	17.10	42.339	
900.0	900.0	909.0	909.0	4.1	12.8	120.46	-367.0	624.2	724.1	704.5	19.56	37.011	
1,000.0	1,000.0	1,010.0	1,010.0	4.2	14.7	120.48	-367.3	624.2	724.2	702.2	22.04	32.856	
1,100.0	1,100.0	1,110.0	1,110.0	4.3	16.8	120.48	-367.3	624.2	724.2	699.3	24.95	29.026	
1,200.0	1,200.0	1,210.0	1,210.0	4.5	18.9	120.48	-367.3	624.2	724.2	696.3	27.89	25.971	
1,241.4	1,241.4	1,251.4	1,251.4	4.5	19.8	120.42	-366.5	624.2	723.8	694.7	29.11	24.869	
1,300.0	1,300.0	1,309.5	1,309.4	4.6	21.1	120.43	-366.6	624.2	723.8	693.0	30.82	23.484	
1,400.0	1,400.0	1,408.5	1,408.5	4.7	23.2	120.44	-366.8	624.2	724.0	690.2	33.76	21.444	
1,500.0	1,500.0	1,510.1	1,510.0	4.8	25.4	120.48	-367.3	624.2	724.2	687.4	36.85	19.655	
1,600.0	1,600.0	1,610.1	1,610.0	4.9	28.0	31.57	-367.3	624.2	722.7	682.5	40.24	17.959	
1,700.0	1,699.8	1,707.9	1,707.8	5.1	30.6	31.77	-366.6	624.2	717.9	674.1	43.79	16.394	
1,800.0	1,799.5	1,809.7	1,809.5	5.3	33.2	32.28	-367.3	624.2	710.9	663.4	47.51	14.965	
1,900.0	1,898.7	1,909.0	1,908.7	5.6	35.9	32.92	-367.3	624.2	700.6	649.4	51.20	13.683	
2,000.0	1,997.5	2,007.7	2,007.4	5.9	38.5	33.64	-365.5	624.2	686.5	631.6	54.89	12.507	
2,100.0	2,095.6	2,103.0	2,102.7	6.3	41.0	34.72	-365.8	624.2	670.8	612.4	58.45	11.477	
2,200.0	2,193.1	2,197.7	2,197.4	6.6	43.6	36.10	-367.0	624.2	653.0	591.0	61.99	10.533	
2,300.0	2,289.6	2,300.1	2,299.6	7.0	46.1	37.83	-367.3	624.2	632.2	566.6	65.64	9.632	
2,400.0	2,385.8	2,394.6	2,394.1	7.3	48.5	39.31	-366.6	624.2	609.9	541.0	68.95	8.845	
2,500.0	2,481.9	2,492.5	2,491.9	7.7	51.0	41.06	-367.3	624.2	589.0	516.5	72.46	8.129	
2,600.0	2,578.0	2,588.6	2,588.0	8.0	53.8	42.86	-367.3	624.2	568.1	491.8	76.36	7.440	
2,700.0	2,674.1	2,680.7	2,680.2	8.4	56.5	44.68	-367.1	624.2	547.7	467.6	80.11	6.837	
2,800.0	2,770.3	2,781.0	2,780.3	8.8	59.6	46.84	-367.3	624.2	528.3	443.8	84.43	6.257	
2,900.0	2,866.4	2,871.4	2,870.7	9.2	62.4	48.88	-366.8	624.2	509.1	420.7	88.38	5.759	
3,000.0	2,962.5	2,973.4	2,972.5	9.6	65.4	51.43	-367.3	624.2	491.4	398.8	92.55	5.309	
3,100.0	3,058.7	3,069.5	3,068.7	10.1	68.1	53.97	-367.3	624.2	474.2	377.9	96.36	4.922	
3,200.0	3,154.8	3,165.2	3,164.3	10.5	70.8	56.51	-365.2	624.2	456.4	356.2	100.16	4.557	
3,300.0	3,250.9	3,259.0	3,258.1	10.9	73.5	59.37	-365.6	624.2	441.7	337.8	103.87	4.252	
3,400.0	3,347.0	3,352.8	3,351.8	11.4	76.2	62.43	-366.6	624.2	428.8	321.2	107.58	3.986	
3,500.0	3,443.2	3,454.3	3,453.2	11.8	79.4	65.91	-367.3	624.2	417.1	305.0	112.10	3.721	
3,600.0	3,539.3	3,550.4	3,549.3	12.3	82.8	69.34	-367.3	624.2	406.2	289.4	116.80	3.478	
3,700.0	3,635.4	3,645.2	3,644.0	12.7	86.1	72.82	-365.9	624.2	395.7	274.2	121.43	3.258	
3,800.0	3,731.5	3,738.6	3,737.5	13.2	89.4	76.48	-366.6	624.2	388.8	262.8	125.99	3.086	
3,900.0	3,827.7	3,839.2	3,837.7	13.6	93.5	80.52	-367.3	624.2	383.8	252.0	131.80	2.912	
4,000.0	3,923.8	3,935.3	3,933.8	14.1	98.3	84.47	-367.3	624.2	380.1	241.7	138.43	2.746	
4,100.0	4,019.9	4,029.2	4,027.5	14.6	103.0	88.35	-364.5	624.2	375.5	230.6	144.91	2.591	
4,105.2	4,025.0	4,034.0	4,032.3	14.6	103.2	88.55	-364.5	624.2	375.5	230.2	145.24	2.585 CC	
4,200.0	4,116.0	4,120.2	4,118.5	15.0	107.5	92.17	-365.7	624.2	377.0	225.8	151.18	2.494	
4,300.0	4,212.2	4,224.7	4,222.2	15.5	112.8	96.47	-367.3	624.2	380.8	222.1	158.69	2.400	
4,400.0	4,308.3	4,315.1	4,312.4	16.0	117.7	100.19	-365.7	624.2	383.4	217.9	165.51	2.316 ES, SF	
4,500.0	4,404.4	4,378.0	4,374.8	16.4	121.1	102.66	-367.3	624.2	393.1	223.6	169.45	2.320	
4,600.0	4,500.5	4,378.0	4,374.8	16.9	121.1	102.66	-367.3	624.2	421.5	260.0	161.44	2.611	
4,700.0	4,596.7	4,378.0	4,374.8	17.4	121.1	102.66	-367.3	624.2	469.8	321.2	148.63	3.161	
4,800.0	4,692.8	4,378.0	4,374.8	17.9	121.1	102.66	-367.3	624.2	532.8	397.7	135.05	3.945	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #6 (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 500-INC-ONLY													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,788.9	4,378.0	4,374.8	18.4	121.1	102.66	-367.3	624.2	605.8	483.0	122.78	4.934		
5,000.0	4,885.0	4,378.0	4,374.8	18.8	121.1	102.66	-367.3	624.2	685.6	573.2	112.42	6.099		
5,100.0	4,981.2	4,378.0	4,374.8	19.3	121.1	102.66	-367.3	624.2	770.2	666.3	103.91	7.412		
5,200.0	5,077.3	4,378.0	4,374.8	19.8	121.1	102.66	-367.3	624.2	858.1	761.1	96.96	8.849		
5,300.0	5,173.4	4,378.0	4,374.8	20.3	121.1	102.66	-367.3	624.2	948.4	857.1	91.29	10.388		

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	
5,100.0	4,981.2	5,014.3	4,994.1	19.3	15.1	-5.89	129.0	1,854.9	978.9	944.9	34.01	28.783	
5,200.0	5,077.3	5,110.4	5,090.2	19.8	15.1	-6.06	129.0	1,854.9	951.5	916.9	34.59	27.507	
5,300.0	5,173.4	5,206.5	5,186.3	20.3	15.2	-6.24	129.0	1,854.9	924.0	888.9	35.17	26.272	
5,400.0	5,269.6	5,302.7	5,282.5	20.8	15.2	-6.43	129.0	1,854.9	896.6	860.9	35.76	25.074	
5,500.0	5,365.7	5,398.8	5,378.6	21.3	15.3	-6.64	129.0	1,854.9	869.2	832.9	36.35	23.913	
5,600.0	5,461.8	5,494.9	5,474.7	21.8	15.4	-6.85	129.0	1,854.9	841.9	804.9	36.94	22.788	
5,700.0	5,557.9	5,591.0	5,570.8	22.3	15.4	-7.08	129.0	1,854.9	814.5	776.9	37.54	21.698	
5,800.0	5,654.1	5,687.2	5,667.0	22.7	15.5	-7.33	129.0	1,854.9	787.1	749.0	38.13	20.640	
5,900.0	5,750.2	5,783.3	5,763.1	23.2	15.5	-7.60	129.0	1,854.9	759.8	721.0	38.73	19.615	
6,000.0	5,846.3	5,879.4	5,859.2	23.7	15.6	-7.88	129.0	1,854.9	732.4	693.1	39.33	18.621	
6,100.0	5,942.4	5,975.5	5,955.3	24.2	15.6	-8.19	129.0	1,854.9	705.1	665.2	39.93	17.657	
6,200.0	6,038.6	6,071.7	6,051.5	24.7	15.7	-8.52	129.0	1,854.9	677.8	637.3	40.54	16.722	
6,300.0	6,134.7	6,167.8	6,147.6	25.2	15.7	-8.88	129.0	1,854.9	650.6	609.4	41.14	15.815	
6,400.0	6,230.8	6,263.9	6,243.7	25.7	15.8	-9.27	129.0	1,854.9	623.3	581.6	41.74	14.935	
6,500.0	6,326.9	6,360.0	6,339.8	26.2	15.8	-9.70	129.0	1,854.9	596.1	553.8	42.33	14.081	
6,600.0	6,423.1	6,456.2	6,436.0	26.7	15.9	-10.16	129.0	1,854.9	568.9	526.0	42.93	13.253	
6,700.0	6,519.2	6,552.3	6,532.1	27.2	15.9	-10.68	129.0	1,854.9	541.8	498.3	43.52	12.449	
6,730.0	6,548.0	6,581.1	6,560.9	27.3	16.0	-10.84	129.0	1,854.9	533.6	490.0	43.69	12.215	
6,800.0	6,615.5	6,648.6	6,628.4	27.7	16.0	-11.15	129.0	1,854.9	515.5	471.4	44.09	11.691	
6,900.0	6,712.7	6,745.8	6,725.6	28.2	16.1	-11.59	129.0	1,854.9	492.4	447.7	44.68	11.020	
7,000.0	6,810.7	6,843.8	6,823.6	28.6	16.1	-11.99	129.0	1,854.9	472.7	427.5	45.25	10.446	
7,100.0	6,909.3	6,942.4	6,922.2	29.1	16.2	-12.36	129.0	1,854.9	456.4	410.6	45.81	9.964	
7,200.0	7,008.4	7,041.5	7,021.3	29.6	16.2	-12.66	129.0	1,854.9	443.5	397.1	46.34	9.571	
7,300.0	7,107.9	7,141.0	7,120.8	30.0	16.3	-12.90	129.0	1,854.9	434.0	387.1	46.84	9.265	
7,400.0	7,207.7	7,240.8	7,220.6	30.3	16.3	-13.06	129.0	1,854.9	427.9	380.5	47.31	9.044	
7,500.0	7,307.7	7,340.8	7,320.6	30.6	16.4	-13.14	129.0	1,854.9	425.1	377.4	47.70	8.912	
7,530.0	7,337.6	7,370.7	7,350.5	30.7	16.4	75.86	129.0	1,854.9	425.0	377.2	47.76	8.899	
7,600.0	7,407.7	7,440.8	7,420.6	30.7	16.5	75.86	129.0	1,854.9	425.0	377.2	47.80	8.891	
7,700.0	7,507.7	7,540.8	7,520.6	30.7	16.5	75.86	129.0	1,854.9	425.0	377.1	47.87	8.878	
7,800.0	7,607.7	7,640.8	7,620.6	30.7	16.6	75.86	129.0	1,854.9	425.0	377.0	47.94	8.865	
7,900.0	7,707.7	7,740.8	7,720.6	30.8	16.6	75.86	129.0	1,854.9	425.0	377.0	48.01	8.851	
8,000.0	7,807.7	7,840.8	7,820.6	30.8	16.7	75.86	129.0	1,854.9	425.0	376.9	48.09	8.838	
8,100.0	7,907.7	7,940.8	7,920.6	30.8	16.8	75.86	129.0	1,854.9	425.0	376.8	48.16	8.825	
8,200.0	8,007.7	8,040.8	8,020.6	30.8	16.8	75.86	129.0	1,854.9	425.0	376.7	48.23	8.811	
8,300.0	8,107.7	8,140.8	8,120.6	30.9	16.9	75.86	129.0	1,854.9	425.0	376.7	48.31	8.798	
8,400.0	8,207.7	8,240.8	8,220.6	30.9	16.9	75.86	129.0	1,854.9	425.0	376.6	48.38	8.784	
8,500.0	8,307.7	8,340.8	8,320.6	30.9	17.0	75.86	129.0	1,854.9	425.0	376.5	48.45	8.771	
8,600.0	8,407.7	8,440.8	8,420.6	30.9	17.1	75.86	129.0	1,854.9	425.0	376.4	48.53	8.757	
8,700.0	8,507.7	8,540.8	8,520.6	31.0	17.1	75.86	129.0	1,854.9	425.0	376.4	48.61	8.743	
8,800.0	8,607.7	8,640.8	8,620.6	31.0	17.2	75.86	129.0	1,854.9	425.0	376.3	48.68	8.730	
8,900.0	8,707.7	8,740.8	8,720.6	31.0	17.2	75.86	129.0	1,854.9	425.0	376.2	48.76	8.716	
9,000.0	8,807.7	8,840.8	8,820.6	31.0	17.3	75.86	129.0	1,854.9	425.0	376.1	48.83	8.702	
9,100.0	8,907.7	8,940.8	8,920.6	31.1	17.4	75.86	129.0	1,854.9	425.0	376.1	48.91	8.689	
9,200.0	9,007.7	9,040.8	9,020.6	31.1	17.4	75.86	129.0	1,854.9	425.0	376.0	48.99	8.675	
9,300.0	9,107.7	9,140.8	9,120.6	31.1	17.5	75.86	129.0	1,854.9	425.0	375.9	49.07	8.661	
9,400.0	9,207.7	9,240.8	9,220.6	31.1	17.5	75.86	129.0	1,854.9	425.0	375.8	49.15	8.647	
9,500.0	9,307.7	9,340.8	9,320.6	31.2	17.6	75.86	129.0	1,854.9	425.0	375.8	49.22	8.634	
9,600.0	9,407.7	9,440.8	9,420.6	31.2	17.7	75.86	129.0	1,854.9	425.0	375.7	49.30	8.620	
9,700.0	9,507.7	9,540.8	9,520.6	31.2	17.7	75.86	129.0	1,854.9	425.0	375.6	49.38	8.606	
9,800.0	9,607.7	9,640.8	9,620.6	31.3	17.8	75.86	129.0	1,854.9	425.0	375.5	49.46	8.592	
9,900.0	9,707.7	9,740.8	9,720.6	31.3	17.9	75.86	129.0	1,854.9	425.0	375.4	49.54	8.578	
10,000.0	9,807.7	9,840.8	9,820.6	31.3	17.9	75.86	129.0	1,854.9	425.0	375.4	49.62	8.564	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	9,907.7	9,940.8	9,920.6	31.3	18.0	75.86	129.0	1,854.9	425.0	375.3	49.71	8.550	
10,200.0	10,007.7	10,040.8	10,020.6	31.4	18.0	75.86	129.0	1,854.9	425.0	375.2	49.79	8.536	
10,300.0	10,107.7	10,140.8	10,120.6	31.4	18.1	75.86	129.0	1,854.9	425.0	375.1	49.87	8.522	
10,400.0	10,207.7	10,240.8	10,220.6	31.4	18.2	75.86	129.0	1,854.9	425.0	375.0	49.95	8.508	
10,500.0	10,307.7	10,340.8	10,320.6	31.5	18.2	75.86	129.0	1,854.9	425.0	374.9	50.03	8.494	
10,600.0	10,407.7	10,440.8	10,420.6	31.5	18.3	75.86	129.0	1,854.9	425.0	374.9	50.12	8.480	
10,700.0	10,507.7	10,540.8	10,520.6	31.5	18.4	75.86	129.0	1,854.9	425.0	374.8	50.20	8.466	
10,800.0	10,607.7	10,640.8	10,620.6	31.6	18.4	75.86	129.0	1,854.9	425.0	374.7	50.28	8.451	
10,900.0	10,707.7	10,740.8	10,720.6	31.6	18.5	75.86	129.0	1,854.9	425.0	374.6	50.37	8.437	
11,000.0	10,807.7	10,840.8	10,820.6	31.6	18.6	75.86	129.0	1,854.9	425.0	374.5	50.45	8.423	
11,100.0	10,907.7	10,940.8	10,920.6	31.6	18.6	75.86	129.0	1,854.9	425.0	374.4	50.54	8.409	
11,200.0	11,007.7	11,040.8	11,020.6	31.7	18.7	75.86	129.0	1,854.9	425.0	374.4	50.62	8.396	
11,300.0	11,107.7	11,140.8	11,120.6	31.7	18.8	75.86	129.0	1,854.9	425.0	374.3	50.70	8.383	
11,400.0	11,207.7	11,240.8	11,220.6	31.7	18.8	75.86	129.0	1,854.9	425.0	374.2	50.77	8.370	
11,454.9	11,262.5	11,295.6	11,275.4	31.7	18.9	75.86	129.0	1,854.9	425.0	374.2	50.81	8.365	
11,475.0	11,282.7	11,315.8	11,295.6	31.7	18.9	76.45	129.0	1,854.9	424.9	374.2	50.69	8.382	
11,500.0	11,307.6	11,340.7	11,320.5	31.7	18.9	76.72	129.0	1,854.9	424.5	373.7	50.73	8.367	
11,525.0	11,332.4	11,365.5	11,345.3	31.7	18.9	77.19	129.0	1,854.9	423.8	373.0	50.79	8.344	
11,550.0	11,357.0	11,390.1	11,369.9	31.7	18.9	77.86	129.0	1,854.9	422.9	372.0	50.87	8.312	
11,575.0	11,381.4	11,414.5	11,394.3	31.7	18.9	78.73	129.0	1,854.9	421.7	370.7	50.96	8.275	
11,600.0	11,405.5	11,438.5	11,418.4	31.7	18.9	79.76	129.0	1,854.9	420.4	369.3	51.06	8.233	
11,625.0	11,429.1	11,459.1	11,438.9	31.7	18.9	80.77	129.4	1,854.9	419.0	367.8	51.21	8.182	
11,650.0	11,452.3	11,479.9	11,459.7	31.7	18.9	81.80	130.8	1,854.9	417.8	366.4	51.35	8.135	
11,675.0	11,475.0	11,500.0	11,479.6	31.7	18.9	82.81	132.9	1,854.9	416.7	365.2	51.49	8.092	
11,700.0	11,497.0	11,522.3	11,501.6	31.7	18.9	83.93	136.3	1,854.9	415.7	364.1	51.58	8.059	
11,725.0	11,518.5	11,543.9	11,522.8	31.7	18.9	85.02	140.5	1,854.8	414.8	363.2	51.67	8.029	
11,750.0	11,539.2	11,565.7	11,544.1	31.7	18.9	86.14	145.8	1,854.8	414.1	362.4	51.73	8.006	
11,775.0	11,559.2	11,588.0	11,565.3	31.7	18.9	87.26	152.1	1,854.8	413.6	361.9	51.77	7.990	
11,800.0	11,578.4	11,610.5	11,586.6	31.7	19.0	88.41	159.6	1,854.7	413.3	361.5	51.79	7.980	
11,825.0	11,596.7	11,633.4	11,607.9	31.8	19.0	89.56	168.2	1,854.7	413.2	361.4	51.78	7.979	
11,830.5	11,600.6	11,638.6	11,612.6	31.8	19.0	89.82	170.2	1,854.6	413.2	361.4	51.78	7.979 CC	
11,850.0	11,614.1	11,656.8	11,629.1	31.8	19.0	90.72	177.9	1,854.6	413.2	361.5	51.76	7.984	
11,875.0	11,630.5	11,680.5	11,650.1	31.8	19.0	91.89	188.9	1,854.5	413.5	361.8	51.71	7.997	
11,900.0	11,645.9	11,704.7	11,671.0	31.8	19.0	93.06	201.2	1,854.4	413.9	362.3	51.64	8.016	
11,925.0	11,660.3	11,729.4	11,691.6	31.8	19.0	94.23	214.8	1,854.4	414.6	363.1	51.55	8.043	
11,950.0	11,673.6	11,754.6	11,711.9	31.8	19.0	95.39	229.7	1,854.3	415.5	364.0	51.44	8.076	
11,975.0	11,685.7	11,780.3	11,731.7	31.8	19.0	96.56	246.1	1,854.2	416.5	365.2	51.33	8.115	
12,000.0	11,696.7	11,806.6	11,751.1	31.8	19.0	97.71	263.9	1,854.1	417.8	366.6	51.20	8.160	
12,025.0	11,706.5	11,833.6	11,769.9	31.8	19.0	98.86	283.2	1,853.9	419.3	368.2	51.07	8.209	
12,050.0	11,715.1	11,861.2	11,788.0	31.8	19.0	99.99	304.0	1,853.8	420.9	369.9	50.94	8.262	
12,075.0	11,722.4	11,889.4	11,805.2	31.8	19.0	101.11	326.4	1,853.7	422.6	371.8	50.81	8.318	
12,100.0	11,728.5	11,918.4	11,821.5	31.9	19.1	102.20	350.3	1,853.5	424.5	373.9	50.69	8.376	
12,125.0	11,733.3	11,948.1	11,836.6	31.9	19.1	103.28	375.9	1,853.3	426.6	376.0	50.57	8.435	
12,150.0	11,736.9	11,978.6	11,850.5	31.9	19.1	104.32	403.1	1,853.2	428.7	378.2	50.47	8.494	
12,175.0	11,739.1	12,009.9	11,862.9	31.9	19.1	105.34	431.8	1,853.0	430.8	380.5	50.38	8.552	
12,200.0	11,740.0	12,042.0	11,873.6	31.9	19.2	106.31	462.1	1,852.8	433.0	382.7	50.30	8.609	
12,204.9	11,740.0	12,048.4	11,875.5	31.9	19.2	106.50	468.1	1,852.8	433.5	383.2	50.29	8.620	
12,300.0	11,740.0	12,180.0	11,895.9	32.0	19.3	109.04	597.8	1,851.9	438.4	388.1	50.25	8.724	
12,400.0	11,740.0	12,282.6	11,896.0	32.2	19.5	109.04	700.4	1,851.3	438.7	388.1	50.53	8.681	
12,500.0	11,740.0	12,382.6	11,896.0	32.3	19.6	109.03	800.4	1,850.7	438.9	388.1	50.87	8.629	
12,600.0	11,740.0	12,482.6	11,896.0	32.5	19.9	109.02	900.4	1,850.0	439.2	387.9	51.24	8.571	
12,700.0	11,740.0	12,582.6	11,896.0	32.6	20.1	109.00	1,000.4	1,849.4	439.5	387.8	51.66	8.507	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,800.0	11,740.0	12,682.6	11,896.0	32.8	20.4	108.99	1,100.4	1,848.8	439.7	387.6	52.12	8.437	
12,900.0	11,740.0	12,782.6	11,896.0	33.0	20.7	108.98	1,200.4	1,848.2	440.0	387.4	52.62	8.362	
13,000.0	11,740.0	12,882.6	11,896.0	33.3	21.0	108.97	1,300.4	1,847.5	440.3	387.1	53.16	8.283	
13,100.0	11,740.0	12,982.6	11,896.0	33.5	21.3	108.96	1,400.4	1,846.9	440.5	386.8	53.73	8.199	
13,200.0	11,740.0	13,082.6	11,896.0	33.8	21.7	108.94	1,500.4	1,846.3	440.8	386.5	54.34	8.112	
13,300.0	11,740.0	13,182.6	11,896.0	34.0	22.1	108.93	1,600.4	1,845.6	441.1	386.1	54.99	8.021	
13,400.0	11,740.0	13,282.6	11,896.0	34.3	22.5	108.92	1,700.4	1,845.0	441.3	385.7	55.67	7.928	
13,500.0	11,740.0	13,382.6	11,896.0	34.6	22.9	108.91	1,800.3	1,844.4	441.6	385.2	56.38	7.833	
13,600.0	11,740.0	13,482.6	11,896.0	35.0	23.4	108.90	1,900.3	1,843.7	441.9	384.7	57.12	7.735	
13,700.0	11,740.0	13,582.6	11,896.0	35.3	23.8	108.88	2,000.3	1,843.1	442.1	384.2	57.90	7.637	
13,800.0	11,740.0	13,682.6	11,896.0	35.6	24.3	108.87	2,100.3	1,842.5	442.4	383.7	58.70	7.537	
13,900.0	11,740.0	13,782.6	11,896.0	36.0	24.8	108.86	2,200.3	1,841.8	442.7	383.1	59.53	7.436	
14,000.0	11,740.0	13,882.6	11,896.0	36.4	25.3	108.85	2,300.3	1,841.2	442.9	382.6	60.39	7.335	
14,100.0	11,740.0	13,982.6	11,896.0	36.8	25.9	108.84	2,400.3	1,840.6	443.2	381.9	61.27	7.234	
14,200.0	11,740.0	14,082.6	11,896.0	37.2	26.4	108.82	2,500.3	1,840.0	443.5	381.3	62.18	7.133	
14,300.0	11,740.0	14,182.6	11,896.0	37.6	26.9	108.81	2,600.3	1,839.3	443.8	380.6	63.11	7.032	
14,400.0	11,740.0	14,282.6	11,896.0	38.0	27.5	108.80	2,700.3	1,838.7	444.0	380.0	64.06	6.932	
14,500.0	11,740.0	14,382.6	11,896.0	38.4	28.1	108.79	2,800.3	1,838.1	444.3	379.3	65.03	6.832	
14,600.0	11,740.0	14,482.6	11,896.0	38.8	28.6	108.78	2,900.3	1,837.4	444.6	378.5	66.03	6.733	
14,700.0	11,740.0	14,582.6	11,896.0	39.3	29.2	108.77	3,000.3	1,836.8	444.8	377.8	67.04	6.635	
14,800.0	11,740.0	14,682.6	11,896.0	39.8	29.8	108.75	3,100.3	1,836.2	445.1	377.0	68.07	6.539	
14,900.0	11,740.0	14,782.6	11,896.0	40.2	30.4	108.74	3,200.3	1,835.5	445.4	376.2	69.12	6.443	
15,000.0	11,740.0	14,882.6	11,896.0	40.7	31.0	108.73	3,300.3	1,834.9	445.6	375.4	70.19	6.349	
15,100.0	11,740.0	14,982.6	11,896.0	41.2	31.7	108.72	3,400.3	1,834.3	445.9	374.6	71.27	6.257	
15,200.0	11,740.0	15,082.6	11,896.0	41.7	32.3	108.71	3,500.3	1,833.7	446.2	373.8	72.37	6.165	
15,300.0	11,740.0	15,182.6	11,896.0	42.2	32.9	108.70	3,600.3	1,833.0	446.4	373.0	73.48	6.076	
15,400.0	11,740.0	15,282.6	11,896.0	42.7	33.5	108.68	3,700.3	1,832.4	446.7	372.1	74.61	5.988	
15,500.0	11,740.0	15,382.6	11,896.0	43.2	34.2	108.67	3,800.3	1,831.8	447.0	371.2	75.75	5.901	
15,600.0	11,740.0	15,482.6	11,896.0	43.7	34.8	108.66	3,900.3	1,831.1	447.2	370.3	76.90	5.816	
15,700.0	11,740.0	15,582.6	11,896.0	44.3	35.5	108.65	4,000.3	1,830.5	447.5	369.4	78.06	5.733	
15,800.0	11,740.0	15,682.6	11,896.0	44.8	36.1	108.64	4,100.3	1,829.9	447.8	368.5	79.24	5.651	
15,900.0	11,740.0	15,782.6	11,896.0	45.3	36.8	108.63	4,200.3	1,829.2	448.1	367.6	80.43	5.571	
16,000.0	11,740.0	15,882.6	11,896.0	45.9	37.5	108.61	4,300.3	1,828.6	448.3	366.7	81.63	5.492	
16,100.0	11,740.0	15,982.6	11,896.0	46.4	38.1	108.60	4,400.3	1,828.0	448.6	365.8	82.84	5.415	
16,200.0	11,740.0	16,082.6	11,896.0	47.0	38.8	108.59	4,500.3	1,827.4	448.9	364.8	84.06	5.340	
16,300.0	11,740.0	16,182.6	11,896.0	47.6	39.5	108.58	4,600.3	1,826.7	449.1	363.8	85.28	5.266	
16,400.0	11,740.0	16,282.6	11,896.0	48.1	40.1	108.57	4,700.3	1,826.1	449.4	362.9	86.52	5.194	
16,500.0	11,740.0	16,382.6	11,896.0	48.7	40.8	108.56	4,800.3	1,825.5	449.7	361.9	87.77	5.123	
16,600.0	11,740.0	16,482.6	11,896.0	49.3	41.5	108.54	4,900.3	1,824.8	449.9	360.9	89.02	5.054	
16,700.0	11,740.0	16,582.6	11,896.0	49.9	42.2	108.53	5,000.3	1,824.2	450.2	359.9	90.28	4.987	
16,800.0	11,740.0	16,682.6	11,896.0	50.5	42.9	108.52	5,100.3	1,823.6	450.5	358.9	91.55	4.920	
16,900.0	11,740.0	16,782.6	11,896.0	51.1	43.6	108.51	5,200.3	1,822.9	450.7	357.9	92.83	4.856	
17,000.0	11,740.0	16,882.6	11,896.0	51.7	44.3	108.50	5,300.3	1,822.3	451.0	356.9	94.11	4.792	
17,100.0	11,740.0	16,982.6	11,896.0	52.3	45.0	108.49	5,400.3	1,821.7	451.3	355.9	95.40	4.730	
17,200.0	11,740.0	17,082.6	11,896.0	52.9	45.7	108.48	5,500.3	1,821.1	451.5	354.9	96.70	4.670	
17,300.0	11,740.0	17,182.6	11,896.0	53.5	46.4	108.46	5,600.3	1,820.4	451.8	353.8	98.00	4.610	
17,400.0	11,740.0	17,282.6	11,896.0	54.1	47.1	108.45	5,700.3	1,819.8	452.1	352.8	99.31	4.552	
17,500.0	11,740.0	17,382.6	11,896.0	54.7	47.8	108.44	5,800.3	1,819.2	452.4	351.7	100.62	4.496	
17,600.0	11,740.0	17,482.6	11,896.0	55.3	48.5	108.43	5,900.3	1,818.5	452.6	350.7	101.94	4.440	
17,700.0	11,740.0	17,582.6	11,896.0	56.0	49.2	108.42	6,000.2	1,817.9	452.9	349.6	103.27	4.386	
17,800.0	11,740.0	17,682.6	11,896.0	56.6	49.9	108.41	6,100.2	1,817.3	453.2	348.6	104.60	4.333	
17,900.0	11,740.0	17,782.6	11,896.0	57.2	50.6	108.40	6,200.2	1,816.6	453.4	347.5	105.93	4.280	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	
18,000.0	11,740.0	17,882.6	11,896.0	57.9	51.3	108.39	6,300.2	1,816.0	453.7	346.4	107.27	4.230	
18,100.0	11,740.0	17,982.6	11,896.0	58.5	52.0	108.37	6,400.2	1,815.4	454.0	345.4	108.61	4.180	
18,200.0	11,740.0	18,082.6	11,896.0	59.2	52.7	108.36	6,500.2	1,814.8	454.2	344.3	109.96	4.131	
18,300.0	11,740.0	18,182.6	11,896.0	59.8	53.5	108.35	6,600.2	1,814.1	454.5	343.2	111.31	4.083	
18,400.0	11,740.0	18,282.6	11,896.0	60.4	54.2	108.34	6,700.2	1,813.5	454.8	342.1	112.67	4.036	
18,500.0	11,740.0	18,382.6	11,896.0	61.1	54.9	108.33	6,800.2	1,812.9	455.0	341.0	114.03	3.991	
18,600.0	11,740.0	18,482.6	11,896.0	61.7	55.6	108.32	6,900.2	1,812.2	455.3	339.9	115.39	3.946	
18,700.0	11,740.0	18,582.6	11,896.0	62.4	56.3	108.31	7,000.2	1,811.6	455.6	338.8	116.76	3.902	
18,800.0	11,740.0	18,682.6	11,896.0	63.1	57.1	108.30	7,100.2	1,811.0	455.9	337.7	118.13	3.859	
18,900.0	11,740.0	18,782.6	11,896.0	63.7	57.8	108.28	7,200.2	1,810.3	456.1	336.6	119.51	3.817	
19,000.0	11,740.0	18,882.6	11,896.0	64.4	58.5	108.27	7,300.2	1,809.7	456.4	335.5	120.88	3.776	
19,100.0	11,740.0	18,982.6	11,896.0	65.0	59.2	108.26	7,400.2	1,809.1	456.7	334.4	122.26	3.735	
19,200.0	11,740.0	19,082.6	11,896.0	65.7	59.9	108.25	7,500.2	1,808.5	456.9	333.3	123.65	3.695	
19,300.0	11,740.0	19,182.6	11,896.0	66.4	60.7	108.24	7,600.2	1,807.8	457.2	332.2	125.03	3.657	
19,400.0	11,740.0	19,282.6	11,896.0	67.1	61.4	108.23	7,700.2	1,807.2	457.5	331.0	126.42	3.619	
19,500.0	11,740.0	19,382.6	11,896.0	67.7	62.1	108.22	7,800.2	1,806.6	457.7	329.9	127.81	3.581	
19,588.4	11,740.0	19,471.9	11,896.0	68.3	62.8	108.22	7,889.5	1,805.8	457.8	328.7	129.05	3.547	
19,600.0	11,740.0	19,482.6	11,896.0	68.4	62.9	108.21	7,900.2	1,805.7	457.8	328.6	129.21	3.543	
19,638.4	11,740.0	19,521.0	11,896.0	68.7	63.1	108.21	7,938.6	1,805.5	457.9	328.2	129.74	3.530 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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	
6,600.0	6,423.1	6,442.5	6,435.2	26.7	12.3	-6.26	143.1	2,274.7	986.1	945.4	40.67	24.248	
6,700.0	6,519.2	6,538.6	6,531.3	27.2	12.4	-6.44	143.1	2,274.7	958.7	917.3	41.35	23.183	
6,730.0	6,548.0	6,567.4	6,560.1	27.3	12.4	-6.49	143.1	2,274.7	950.5	908.9	41.55	22.874	
6,800.0	6,615.5	6,635.0	6,627.6	27.7	12.5	-6.58	143.1	2,274.7	932.1	890.1	42.02	22.180	
6,900.0	6,712.7	6,732.2	6,724.8	28.2	12.6	-6.69	143.1	2,274.7	908.7	866.0	42.71	21.276	
7,000.0	6,810.7	6,830.1	6,822.8	28.6	12.6	-6.79	143.1	2,274.7	888.8	845.4	43.38	20.488	
7,100.0	6,909.3	6,928.7	6,921.4	29.1	12.7	-6.88	143.1	2,274.7	872.2	828.2	44.02	19.812	
7,200.0	7,008.4	7,027.8	7,020.5	29.6	12.8	-6.96	143.1	2,274.7	859.1	814.4	44.64	19.245	
7,300.0	7,107.9	7,127.4	7,120.0	30.0	12.9	-7.01	143.1	2,274.7	849.4	804.2	45.22	18.785	
7,400.0	7,207.7	7,227.2	7,219.8	30.3	13.0	-7.05	143.1	2,274.7	843.2	797.4	45.74	18.433	
7,500.0	7,307.7	7,327.1	7,319.8	30.6	13.1	-7.07	143.1	2,274.7	840.4	794.2	46.18	18.199	
7,530.0	7,337.6	7,357.1	7,349.7	30.7	13.1	81.93	143.1	2,274.7	840.2	794.0	46.24	18.172	
7,600.0	7,407.7	7,427.1	7,419.8	30.7	13.2	81.93	143.1	2,274.7	840.2	793.9	46.28	18.154	
7,700.0	7,507.7	7,527.1	7,519.8	30.7	13.2	81.93	143.1	2,274.7	840.2	793.9	46.36	18.123	
7,800.0	7,607.7	7,627.1	7,619.8	30.7	13.3	81.93	143.1	2,274.7	840.2	793.8	46.44	18.092	
7,900.0	7,707.7	7,727.1	7,719.8	30.8	13.4	81.93	143.1	2,274.7	840.2	793.7	46.52	18.061	
8,000.0	7,807.7	7,827.1	7,819.8	30.8	13.5	81.93	143.1	2,274.7	840.2	793.6	46.60	18.030	
8,100.0	7,907.7	7,927.1	7,919.8	30.8	13.6	81.93	143.1	2,274.7	840.2	793.6	46.68	17.999	
8,200.0	8,007.7	8,027.1	8,019.8	30.8	13.7	81.93	143.1	2,274.7	840.2	793.5	46.76	17.968	
8,300.0	8,107.7	8,127.1	8,119.8	30.9	13.7	81.93	143.1	2,274.7	840.2	793.4	46.84	17.937	
8,400.0	8,207.7	8,227.1	8,219.8	30.9	13.8	81.93	143.1	2,274.7	840.2	793.3	46.93	17.905	
8,500.0	8,307.7	8,327.1	8,319.8	30.9	13.9	81.93	143.1	2,274.7	840.2	793.2	47.01	17.874	
8,600.0	8,407.7	8,427.1	8,419.8	30.9	14.0	81.93	143.1	2,274.7	840.2	793.1	47.09	17.843	
8,700.0	8,507.7	8,527.1	8,519.8	31.0	14.1	81.93	143.1	2,274.7	840.2	793.1	47.17	17.811	
8,800.0	8,607.7	8,627.1	8,619.8	31.0	14.2	81.93	143.1	2,274.7	840.2	793.0	47.26	17.780	
8,900.0	8,707.7	8,727.1	8,719.8	31.0	14.3	81.93	143.1	2,274.7	840.2	792.9	47.34	17.748	
9,000.0	8,807.7	8,827.1	8,819.8	31.0	14.3	81.93	143.1	2,274.7	840.2	792.8	47.43	17.717	
9,100.0	8,907.7	8,927.1	8,919.8	31.1	14.4	81.93	143.1	2,274.7	840.2	792.7	47.51	17.685	
9,200.0	9,007.7	9,027.1	9,019.8	31.1	14.5	81.93	143.1	2,274.7	840.2	792.6	47.60	17.654	
9,300.0	9,107.7	9,127.1	9,119.8	31.1	14.6	81.93	143.1	2,274.7	840.2	792.6	47.68	17.622	
9,400.0	9,207.7	9,227.1	9,219.8	31.1	14.7	81.93	143.1	2,274.7	840.2	792.5	47.77	17.590	
9,500.0	9,307.7	9,327.1	9,319.8	31.2	14.8	81.93	143.1	2,274.7	840.2	792.4	47.85	17.559	
9,600.0	9,407.7	9,427.1	9,419.8	31.2	14.8	81.93	143.1	2,274.7	840.2	792.3	47.94	17.527	
9,700.0	9,507.7	9,527.1	9,519.8	31.2	14.9	81.93	143.1	2,274.7	840.2	792.2	48.03	17.495	
9,800.0	9,607.7	9,627.1	9,619.8	31.3	15.0	81.93	143.1	2,274.7	840.2	792.1	48.11	17.463	
9,900.0	9,707.7	9,727.1	9,719.8	31.3	15.1	81.93	143.1	2,274.7	840.2	792.0	48.20	17.431	
10,000.0	9,807.7	9,827.1	9,819.8	31.3	15.2	81.93	143.1	2,274.7	840.2	791.9	48.29	17.400	
10,100.0	9,907.7	9,927.1	9,919.8	31.3	15.3	81.93	143.1	2,274.7	840.2	791.9	48.38	17.368	
10,200.0	10,007.7	10,027.1	10,019.8	31.4	15.3	81.93	143.1	2,274.7	840.2	791.8	48.47	17.336	
10,300.0	10,107.7	10,127.1	10,119.8	31.4	15.4	81.93	143.1	2,274.7	840.2	791.7	48.56	17.304	
10,400.0	10,207.7	10,227.1	10,219.8	31.4	15.5	81.93	143.1	2,274.7	840.2	791.6	48.65	17.272	
10,500.0	10,307.7	10,327.1	10,319.8	31.5	15.6	81.93	143.1	2,274.7	840.2	791.5	48.74	17.240	
10,600.0	10,407.7	10,427.1	10,419.8	31.5	15.7	81.93	143.1	2,274.7	840.2	791.4	48.83	17.208	
10,700.0	10,507.7	10,527.1	10,519.8	31.5	15.8	81.93	143.1	2,274.7	840.2	791.3	48.92	17.176	
10,800.0	10,607.7	10,627.1	10,619.8	31.6	15.9	81.93	143.1	2,274.7	840.2	791.2	49.01	17.144	
10,900.0	10,707.7	10,727.1	10,719.8	31.6	15.9	81.93	143.1	2,274.7	840.2	791.1	49.10	17.112	
11,000.0	10,807.7	10,827.1	10,819.8	31.6	16.0	81.93	143.1	2,274.7	840.2	791.0	49.19	17.080	
11,100.0	10,907.7	10,927.1	10,919.8	31.6	16.1	81.93	143.1	2,274.7	840.2	790.9	49.29	17.048	
11,200.0	11,007.7	11,027.1	11,019.8	31.7	16.2	81.93	143.1	2,274.7	840.2	790.9	49.37	17.018	
11,300.0	11,107.7	11,127.1	11,119.8	31.7	16.3	81.93	143.1	2,274.7	840.2	790.8	49.46	16.989	
11,400.0	11,207.7	11,227.1	11,219.8	31.7	16.3	81.93	143.1	2,274.7	840.2	790.7	49.53	16.963	
11,401.6	11,209.2	11,228.7	11,221.3	31.7	16.3	81.93	143.1	2,274.7	840.2	790.7	49.53	16.963	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	
11,454.9	11,262.5	11,278.9	11,271.6	31.7	16.4	81.92	143.3	2,274.7	840.3	790.7	49.58	16.947	
11,475.0	11,282.7	11,295.2	11,287.8	31.7	16.4	82.41	144.0	2,274.7	840.3	790.8	49.49	16.980	
11,500.0	11,307.6	11,315.4	11,307.9	31.7	16.4	82.39	145.7	2,274.7	840.4	790.8	49.54	16.964	
11,525.0	11,332.4	11,335.6	11,328.0	31.7	16.4	82.38	148.2	2,274.7	840.4	790.8	49.59	16.948	
11,550.0	11,357.0	11,355.7	11,347.9	31.7	16.4	82.39	151.5	2,274.7	840.4	790.8	49.64	16.931	
11,575.0	11,381.4	11,375.0	11,366.7	31.7	16.4	82.41	155.5	2,274.6	840.4	790.7	49.69	16.911	
11,600.0	11,405.5	11,396.1	11,387.2	31.7	16.4	82.46	160.8	2,274.6	840.3	790.6	49.73	16.897	
11,625.0	11,429.1	11,416.4	11,406.6	31.7	16.4	82.52	166.6	2,274.6	840.2	790.4	49.78	16.879	
11,650.0	11,452.3	11,436.6	11,425.7	31.7	16.4	82.60	173.3	2,274.5	840.1	790.2	49.82	16.861	
11,675.0	11,475.0	11,456.9	11,444.5	31.7	16.5	82.69	180.8	2,274.5	839.9	790.0	49.87	16.843	
11,700.0	11,497.0	11,475.0	11,461.0	31.7	16.5	82.79	188.2	2,274.4	839.7	789.8	49.93	16.819	
11,725.0	11,518.5	11,497.6	11,481.3	31.7	16.5	82.93	198.3	2,274.4	839.5	789.6	49.95	16.808	
11,750.0	11,539.2	11,518.1	11,499.2	31.7	16.5	83.08	208.2	2,274.3	839.3	789.3	49.98	16.791	
11,775.0	11,559.2	11,538.6	11,516.6	31.7	16.5	83.24	218.9	2,274.2	839.1	789.0	50.02	16.774	
11,800.0	11,578.4	11,559.1	11,533.7	31.7	16.5	83.41	230.4	2,274.2	838.8	788.7	50.05	16.758	
11,825.0	11,596.7	11,579.8	11,550.3	31.8	16.6	83.61	242.6	2,274.1	838.5	788.4	50.08	16.743	
11,850.0	11,614.1	11,600.0	11,566.1	31.8	16.6	83.81	255.3	2,274.0	838.2	788.1	50.11	16.727	
11,875.0	11,630.5	11,621.3	11,582.0	31.8	16.6	84.03	269.4	2,273.9	837.9	787.8	50.13	16.714	
11,900.0	11,645.9	11,642.2	11,597.1	31.8	16.6	84.27	283.9	2,273.8	837.6	787.5	50.15	16.701	
11,925.0	11,660.3	11,663.2	11,611.6	31.8	16.6	84.52	299.1	2,273.7	837.3	787.1	50.17	16.688	
11,950.0	11,673.6	11,684.4	11,625.5	31.8	16.7	84.78	315.1	2,273.6	837.0	786.8	50.19	16.677	
11,975.0	11,685.7	11,705.7	11,638.7	31.8	16.7	85.06	331.7	2,273.5	836.7	786.5	50.20	16.666	
12,000.0	11,696.7	11,727.1	11,651.3	31.8	16.7	85.34	349.0	2,273.4	836.4	786.2	50.21	16.657	
12,025.0	11,706.5	11,750.0	11,663.9	31.8	16.7	85.66	368.2	2,273.3	836.1	785.9	50.21	16.650	
12,050.0	11,715.1	11,770.3	11,674.2	31.8	16.8	85.95	385.7	2,273.2	835.8	785.6	50.23	16.641	
12,075.0	11,722.4	11,792.1	11,684.5	31.8	16.8	86.27	404.9	2,273.1	835.5	785.3	50.23	16.634	
12,100.0	11,728.5	11,814.2	11,694.0	31.9	16.8	86.60	424.8	2,272.9	835.3	785.0	50.23	16.628	
12,125.0	11,733.3	11,836.4	11,702.7	31.9	16.8	86.94	445.3	2,272.8	835.0	784.8	50.23	16.623	
12,150.0	11,736.9	11,858.8	11,710.4	31.9	16.8	87.29	466.3	2,272.7	834.8	784.6	50.23	16.619	
12,175.0	11,739.1	11,881.4	11,717.2	31.9	16.9	87.64	487.9	2,272.5	834.7	784.4	50.23	16.615	
12,200.0	11,740.0	11,904.2	11,723.0	31.9	16.9	88.00	509.9	2,272.4	834.5	784.3	50.23	16.612	
12,204.9	11,740.0	11,908.7	11,724.0	31.9	16.9	88.07	514.3	2,272.4	834.5	784.3	50.23	16.612	
12,257.8	11,740.0	11,958.3	11,732.5	32.0	16.9	88.66	563.2	2,272.1	834.4	784.1	50.27	16.597 CC	
12,300.0	11,740.0	11,998.9	11,735.7	32.0	16.9	88.87	603.6	2,271.8	834.4	784.1	50.34	16.575	
12,400.0	11,740.0	12,098.3	11,736.0	32.2	16.9	88.89	703.0	2,271.2	834.7	784.1	50.63	16.488	
12,500.0	11,740.0	12,198.3	11,736.0	32.3	17.0	88.90	803.0	2,270.6	835.0	784.0	50.96	16.385	
12,600.0	11,740.0	12,298.3	11,736.0	32.5	17.1	88.90	903.0	2,269.9	835.3	783.9	51.34	16.270	
12,700.0	11,740.0	12,398.3	11,736.0	32.6	17.2	88.90	1,003.0	2,269.3	835.6	783.8	51.76	16.144	
12,800.0	11,740.0	12,498.3	11,736.0	32.8	17.3	88.90	1,103.0	2,268.7	835.8	783.6	52.22	16.008	
12,900.0	11,740.0	12,598.3	11,736.0	33.0	17.6	88.90	1,203.0	2,268.0	836.1	783.4	52.71	15.862	
13,000.0	11,740.0	12,698.3	11,736.0	33.3	17.9	88.90	1,303.0	2,267.4	836.4	783.2	53.25	15.707	
13,100.0	11,740.0	12,798.3	11,736.0	33.5	18.3	88.90	1,403.0	2,266.8	836.7	782.9	53.82	15.545	
13,200.0	11,740.0	12,898.3	11,736.0	33.8	18.7	88.90	1,503.0	2,266.1	837.0	782.5	54.43	15.376	
13,300.0	11,740.0	12,998.3	11,736.0	34.0	19.2	88.90	1,603.0	2,265.5	837.3	782.2	55.08	15.201	
13,400.0	11,740.0	13,098.3	11,736.0	34.3	19.7	88.90	1,703.0	2,264.9	837.5	781.8	55.76	15.021	
13,500.0	11,740.0	13,198.3	11,736.0	34.6	20.2	88.90	1,803.0	2,264.3	837.8	781.4	56.47	14.837	
13,600.0	11,740.0	13,298.3	11,736.0	35.0	20.7	88.90	1,903.0	2,263.6	838.1	780.9	57.21	14.650	
13,700.0	11,740.0	13,398.3	11,736.0	35.3	21.2	88.90	2,003.0	2,263.0	838.4	780.4	57.98	14.459	
13,800.0	11,740.0	13,498.3	11,736.0	35.6	21.8	88.90	2,103.0	2,262.4	838.7	779.9	58.78	14.267	
13,900.0	11,740.0	13,598.3	11,736.0	36.0	22.3	88.90	2,203.0	2,261.7	839.0	779.4	59.61	14.074	
14,000.0	11,740.0	13,698.3	11,736.0	36.4	22.9	88.90	2,303.0	2,261.1	839.2	778.8	60.47	13.880	
14,100.0	11,740.0	13,798.3	11,736.0	36.8	23.5	88.90	2,403.0	2,260.5	839.5	778.2	61.35	13.685	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	
14,200.0	11,740.0	13,898.3	11,736.0	37.2	24.1	88.90	2,503.0	2,259.8	839.8	777.6	62.25	13.491	
14,300.0	11,740.0	13,998.3	11,736.0	37.6	24.7	88.90	2,603.0	2,259.2	840.1	776.9	63.18	13.298	
14,400.0	11,740.0	14,098.3	11,736.0	38.0	25.3	88.90	2,703.0	2,258.6	840.4	776.3	64.13	13.105	
14,500.0	11,740.0	14,198.3	11,736.0	38.4	25.9	88.90	2,803.0	2,258.0	840.7	775.6	65.10	12.914	
14,600.0	11,740.0	14,298.3	11,736.0	38.8	26.5	88.90	2,903.0	2,257.3	840.9	774.9	66.09	12.725	
14,700.0	11,740.0	14,398.3	11,736.0	39.3	27.2	88.90	3,003.0	2,256.7	841.2	774.1	67.10	12.537	
14,800.0	11,740.0	14,498.3	11,736.0	39.8	27.8	88.90	3,103.0	2,256.1	841.5	773.4	68.13	12.352	
14,900.0	11,740.0	14,598.3	11,736.0	40.2	28.5	88.90	3,203.0	2,255.4	841.8	772.6	69.17	12.170	
15,000.0	11,740.0	14,698.3	11,736.0	40.7	29.1	88.90	3,303.0	2,254.8	842.1	771.8	70.24	11.989	
15,100.0	11,740.0	14,798.3	11,736.0	41.2	29.8	88.90	3,403.0	2,254.2	842.4	771.1	71.31	11.812	
15,200.0	11,740.0	14,898.3	11,736.0	41.7	30.4	88.91	3,503.0	2,253.5	842.6	770.2	72.41	11.637	
15,300.0	11,740.0	14,998.3	11,736.0	42.2	31.1	88.91	3,603.0	2,252.9	842.9	769.4	73.52	11.466	
15,400.0	11,740.0	15,098.3	11,736.0	42.7	31.8	88.91	3,702.9	2,252.3	843.2	768.6	74.64	11.297	
15,500.0	11,740.0	15,198.3	11,736.0	43.2	32.4	88.91	3,802.9	2,251.7	843.5	767.7	75.78	11.131	
15,600.0	11,740.0	15,298.3	11,736.0	43.7	33.1	88.91	3,902.9	2,251.0	843.8	766.9	76.93	10.969	
15,700.0	11,740.0	15,398.3	11,736.0	44.3	33.8	88.91	4,002.9	2,250.4	844.1	766.0	78.09	10.809	
15,800.0	11,740.0	15,498.3	11,736.0	44.8	34.5	88.91	4,102.9	2,249.8	844.4	765.1	79.26	10.653	
15,900.0	11,740.0	15,598.3	11,736.0	45.3	35.2	88.91	4,202.9	2,249.1	844.6	764.2	80.45	10.499	
16,000.0	11,740.0	15,698.3	11,736.0	45.9	35.9	88.91	4,302.9	2,248.5	844.9	763.3	81.64	10.349	
16,100.0	11,740.0	15,798.3	11,736.0	46.4	36.6	88.91	4,402.9	2,247.9	845.2	762.4	82.85	10.202	
16,200.0	11,740.0	15,898.3	11,736.0	47.0	37.3	88.91	4,502.9	2,247.2	845.5	761.4	84.06	10.058	
16,300.0	11,740.0	15,998.3	11,736.0	47.6	38.0	88.91	4,602.9	2,246.6	845.8	760.5	85.29	9.917	
16,400.0	11,740.0	16,098.3	11,736.0	48.1	38.7	88.91	4,702.9	2,246.0	846.1	759.5	86.52	9.779	
16,500.0	11,740.0	16,198.3	11,736.0	48.7	39.4	88.91	4,802.9	2,245.4	846.3	758.6	87.76	9.643	
16,600.0	11,740.0	16,298.3	11,736.0	49.3	40.1	88.91	4,902.9	2,244.7	846.6	757.6	89.01	9.511	
16,700.0	11,740.0	16,398.3	11,736.0	49.9	40.8	88.91	5,002.9	2,244.1	846.9	756.6	90.27	9.382	
16,800.0	11,740.0	16,498.3	11,736.0	50.5	41.5	88.91	5,102.9	2,243.5	847.2	755.6	91.54	9.255	
16,900.0	11,740.0	16,598.3	11,736.0	51.1	42.2	88.91	5,202.9	2,242.8	847.5	754.7	92.81	9.131	
17,000.0	11,740.0	16,698.3	11,736.0	51.7	42.9	88.91	5,302.9	2,242.2	847.8	753.7	94.09	9.010	
17,100.0	11,740.0	16,798.3	11,736.0	52.3	43.6	88.91	5,402.9	2,241.6	848.0	752.7	95.38	8.891	
17,200.0	11,740.0	16,898.3	11,736.0	52.9	44.4	88.91	5,502.9	2,240.9	848.3	751.7	96.67	8.775	
17,300.0	11,740.0	16,998.3	11,736.0	53.5	45.1	88.91	5,602.9	2,240.3	848.6	750.6	97.97	8.662	
17,400.0	11,740.0	17,098.3	11,736.0	54.1	45.8	88.91	5,702.9	2,239.7	848.9	749.6	99.27	8.551	
17,500.0	11,740.0	17,198.3	11,736.0	54.7	46.5	88.91	5,802.9	2,239.1	849.2	748.6	100.58	8.442	
17,600.0	11,740.0	17,298.3	11,736.0	55.3	47.3	88.91	5,902.9	2,238.4	849.5	747.6	101.90	8.336	
17,700.0	11,740.0	17,398.3	11,736.0	56.0	48.0	88.91	6,002.9	2,237.8	849.7	746.5	103.22	8.232	
17,800.0	11,740.0	17,498.3	11,736.0	56.6	48.7	88.91	6,102.9	2,237.2	850.0	745.5	104.55	8.131	
17,900.0	11,740.0	17,598.3	11,736.0	57.2	49.4	88.92	6,202.9	2,236.5	850.3	744.4	105.88	8.031	
18,000.0	11,740.0	17,698.3	11,736.0	57.9	50.2	88.92	6,302.9	2,235.9	850.6	743.4	107.21	7.934	
18,100.0	11,740.0	17,798.3	11,736.0	58.5	50.9	88.92	6,402.9	2,235.3	850.9	742.3	108.55	7.838	
18,200.0	11,740.0	17,898.3	11,736.0	59.2	51.6	88.92	6,502.9	2,234.6	851.2	741.3	109.90	7.745	
18,300.0	11,740.0	17,998.3	11,736.0	59.8	52.3	88.92	6,602.9	2,234.0	851.4	740.2	111.25	7.654	
18,400.0	11,740.0	18,098.3	11,736.0	60.4	53.1	88.92	6,702.9	2,233.4	851.7	739.1	112.60	7.564	
18,500.0	11,740.0	18,198.3	11,736.0	61.1	53.8	88.92	6,802.9	2,232.8	852.0	738.1	113.96	7.477	
18,600.0	11,740.0	18,298.3	11,736.0	61.7	54.5	88.92	6,902.9	2,232.1	852.3	737.0	115.32	7.391	
18,700.0	11,740.0	18,398.3	11,736.0	62.4	55.3	88.92	7,002.9	2,231.5	852.6	735.9	116.68	7.307	
18,800.0	11,740.0	18,498.3	11,736.0	63.1	56.0	88.92	7,102.9	2,230.9	852.9	734.8	118.05	7.225	
18,900.0	11,740.0	18,598.3	11,736.0	63.7	56.8	88.92	7,202.9	2,230.2	853.1	733.7	119.42	7.144	
19,000.0	11,740.0	18,698.3	11,736.0	64.4	57.5	88.92	7,302.9	2,229.6	853.4	732.6	120.79	7.065	
19,100.0	11,740.0	18,798.3	11,736.0	65.0	58.2	88.92	7,402.9	2,229.0	853.7	731.5	122.17	6.988	
19,200.0	11,740.0	18,898.3	11,736.0	65.7	59.0	88.92	7,502.9	2,228.3	854.0	730.4	123.55	6.912	
19,300.0	11,740.0	18,998.3	11,736.0	66.4	59.7	88.92	7,602.9	2,227.7	854.3	729.3	124.93	6.838	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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		Rule Assigned:						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,400.0	11,740.0	19,098.3	11,736.0	67.1	60.4	88.92	7,702.9	2,227.1	854.6	728.2	126.32	6.765		
19,500.0	11,740.0	19,198.3	11,736.0	67.7	61.2	88.92	7,802.9	2,226.5	854.8	727.1	127.71	6.694		
19,588.4	11,740.0	19,287.6	11,736.0	68.3	61.8	88.92	7,892.2	2,225.8	855.0	726.1	128.94	6.631		
19,600.0	11,740.0	19,298.3	11,736.0	68.4	61.9	88.92	7,902.8	2,225.7	855.0	725.9	129.10	6.623		
19,638.4	11,740.0	19,336.7	11,736.0	68.7	62.2	88.92	7,941.3	2,225.5	855.1	725.5	129.63	6.597 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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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)			
6,300.0	6,134.7	6,143.8	6,143.2	25.2	10.3	9.98	-127.2	2,194.2	992.0	953.8	38.25	25.934	
6,400.0	6,230.8	6,240.5	6,240.0	25.7	10.4	10.25	-127.1	2,194.4	965.0	926.1	38.91	24.803	
6,500.0	6,326.9	6,337.4	6,336.9	26.2	10.4	10.55	-127.1	2,194.5	938.0	898.4	39.56	23.710	
6,600.0	6,423.1	6,434.5	6,434.0	26.7	10.5	10.88	-127.1	2,194.5	910.9	870.7	40.20	22.659	
6,700.0	6,519.2	6,531.6	6,531.1	27.2	10.5	11.22	-127.2	2,194.3	883.6	842.8	40.82	21.646	
6,730.0	6,548.0	6,560.3	6,559.7	27.3	10.5	11.33	-127.2	2,194.3	875.5	834.5	41.00	21.350	
6,800.0	6,615.5	6,628.2	6,627.6	27.7	10.6	11.51	-127.3	2,194.2	857.2	815.8	41.43	20.689	
6,900.0	6,712.7	6,727.5	6,726.9	28.2	10.6	11.76	-127.7	2,193.8	833.9	791.8	42.04	19.835	
7,000.0	6,810.7	6,829.4	6,828.8	28.6	10.6	12.02	-128.1	2,193.0	813.5	770.9	42.61	19.095	
7,100.0	6,909.3	6,930.7	6,930.1	29.1	10.6	12.28	-128.9	2,191.6	796.1	752.9	43.16	18.447	
7,200.0	7,008.4	7,030.4	7,029.8	29.6	10.7	12.51	-129.8	2,190.1	781.8	738.1	43.70	17.890	
7,300.0	7,107.9	7,129.1	7,128.5	30.0	10.7	12.72	-130.8	2,188.5	770.9	726.6	44.23	17.429	
7,400.0	7,207.7	7,227.2	7,226.6	30.3	10.7	12.89	-132.0	2,187.0	763.5	718.8	44.72	17.072	
7,500.0	7,307.7	7,327.6	7,327.0	30.6	10.8	13.06	-133.5	2,185.5	759.7	714.6	45.11	16.841	
7,530.0	7,337.6	7,358.7	7,358.1	30.7	10.8	102.11	-134.1	2,185.0	759.2	714.1	45.14	16.818	
7,600.0	7,407.7	7,433.3	7,432.6	30.7	10.8	102.23	-135.3	2,183.5	758.1	713.0	45.11	16.805	
7,700.0	7,507.7	7,545.9	7,545.1	30.7	10.9	102.38	-136.7	2,180.2	755.4	710.4	45.00	16.787	
7,800.0	7,607.7	7,663.5	7,662.6	30.7	11.0	102.45	-136.3	2,174.2	750.3	705.5	44.83	16.735	
7,900.0	7,707.7	7,765.3	7,764.2	30.8	11.1	102.42	-134.5	2,168.2	744.2	699.3	44.88	16.581	
8,000.0	7,807.7	7,867.5	7,866.2	30.8	11.1	102.33	-132.1	2,162.1	737.9	692.9	44.94	16.419	
8,100.0	7,907.7	7,968.9	7,967.3	30.8	11.2	102.25	-129.6	2,155.7	731.2	686.2	45.02	16.243	
8,200.0	8,007.7	8,068.7	8,067.0	30.8	11.3	102.17	-127.2	2,149.4	724.5	679.3	45.12	16.058	
8,300.0	8,107.7	8,171.2	8,169.2	30.9	11.4	102.10	-124.9	2,142.6	717.6	672.4	45.18	15.881	
8,400.0	8,207.7	8,271.0	8,268.7	30.9	11.5	102.04	-122.7	2,135.8	710.4	665.1	45.30	15.684	
8,500.0	8,307.7	8,378.0	8,375.4	30.9	11.7	101.96	-120.0	2,128.1	702.8	657.5	45.32	15.510	
8,600.0	8,407.7	8,483.2	8,480.2	30.9	11.8	101.83	-116.5	2,119.6	694.2	648.9	45.37	15.301	
8,700.0	8,507.7	8,583.7	8,580.3	31.0	12.0	101.67	-112.9	2,111.2	685.3	639.8	45.50	15.061	
8,800.0	8,607.7	8,689.9	8,686.0	31.0	12.2	101.51	-109.0	2,101.4	675.6	630.0	45.56	14.828	
8,900.0	8,707.7	8,787.0	8,782.6	31.0	12.4	101.36	-105.4	2,092.4	665.7	620.0	45.75	14.550	
9,000.0	8,807.7	8,886.2	8,881.4	31.0	12.6	101.24	-102.1	2,083.3	656.1	610.2	45.92	14.288	
9,100.0	8,907.7	8,993.0	8,987.5	31.1	12.8	101.19	-99.4	2,073.0	646.1	600.2	45.98	14.053	
9,200.0	9,007.7	9,100.9	9,094.7	31.1	13.1	101.20	-97.2	2,060.7	634.6	588.6	46.02	13.790	
9,300.0	9,107.7	9,203.1	9,196.2	31.1	13.3	101.24	-95.1	2,048.3	622.2	576.1	46.15	13.483	
9,400.0	9,207.7	9,303.4	9,295.6	31.1	13.6	101.27	-92.9	2,035.7	609.6	563.2	46.32	13.160	
9,500.0	9,307.7	9,404.1	9,395.5	31.2	13.8	101.17	-89.4	2,023.3	596.7	550.2	46.50	12.833	
9,600.0	9,407.7	9,507.0	9,497.4	31.2	14.1	100.91	-84.2	2,010.3	583.4	536.8	46.67	12.502	
9,700.0	9,507.7	9,606.8	9,596.2	31.2	14.4	100.59	-78.5	1,997.5	569.7	522.8	46.89	12.148	
9,800.0	9,607.7	9,698.3	9,686.9	31.3	14.7	100.20	-72.7	1,986.5	556.7	509.4	47.26	11.778	
9,900.0	9,707.7	9,787.0	9,774.9	31.3	14.9	99.78	-66.9	1,976.9	544.9	497.3	47.67	11.430	
10,000.0	9,807.7	9,882.0	9,869.4	31.3	15.2	99.46	-62.3	1,967.8	534.8	486.8	47.99	11.143	
10,100.0	9,907.7	9,971.2	9,958.2	31.3	15.4	99.33	-59.9	1,960.6	526.3	478.0	48.37	10.882	
10,200.0	10,007.7	10,068.9	10,055.6	31.4	15.7	99.26	-58.1	1,953.6	518.9	470.3	48.62	10.674	
10,300.0	10,107.7	10,165.0	10,151.6	31.4	16.0	99.20	-56.6	1,947.4	512.3	463.4	48.89	10.480	
10,400.0	10,207.7	10,254.6	10,241.0	31.4	16.2	99.14	-55.3	1,942.9	507.1	457.8	49.24	10.297	
10,500.0	10,307.7	10,347.9	10,334.2	31.5	16.4	99.08	-54.2	1,939.4	503.2	453.7	49.54	10.158	
10,600.0	10,407.7	10,448.2	10,434.5	31.5	16.7	99.02	-53.2	1,936.3	500.0	450.3	49.73	10.054	
10,700.0	10,507.7	10,546.7	10,532.9	31.5	16.9	98.93	-51.9	1,933.4	496.8	446.9	49.95	9.947	
10,800.0	10,607.7	10,643.0	10,629.2	31.6	17.1	98.86	-50.9	1,931.0	494.2	444.0	50.20	9.846	
10,900.0	10,707.7	10,736.3	10,722.5	31.6	17.3	98.84	-50.5	1,929.6	492.7	442.2	50.46	9.763	
11,000.0	10,807.7	10,834.6	10,820.8	31.6	17.5	98.86	-50.6	1,928.9	491.9	441.3	50.64	9.714	
11,100.0	10,907.7	10,934.0	10,920.2	31.6	17.7	98.90	-50.8	1,928.3	491.5	440.7	50.79	9.676	
11,200.0	11,007.7	11,032.7	11,018.9	31.7	17.7	98.97	-51.4	1,927.9	491.1	440.2	50.91	9.647	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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		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)			
11,225.5	11,033.2	11,057.4	11,043.6	31.7	17.8	99.00	-51.6	1,927.9	491.1	440.2	50.94	9.641	CC, ES
11,300.0	11,107.7	11,128.1	11,114.3	31.7	17.8	99.15	-52.9	1,927.8	491.3	440.3	51.02	9.629	SF
11,400.0	11,207.7	11,219.6	11,205.6	31.7	17.7	99.68	-57.7	1,928.7	493.1	442.0	51.11	9.649	
11,454.9	11,262.5	11,270.4	11,256.2	31.7	17.7	100.23	-62.6	1,929.4	494.7	443.6	51.12	9.678	
11,475.0	11,282.7	11,288.9	11,274.6	31.7	17.7	100.95	-64.9	1,929.7	495.5	444.6	50.90	9.736	
11,500.0	11,307.6	11,311.8	11,297.3	31.7	17.7	101.31	-67.9	1,930.0	496.9	446.0	50.88	9.765	
11,525.0	11,332.4	11,334.8	11,320.0	31.7	17.6	101.81	-71.4	1,930.3	498.6	447.7	50.84	9.807	
11,550.0	11,357.0	11,357.6	11,342.4	31.7	17.6	102.42	-75.4	1,930.6	500.7	449.9	50.77	9.862	
11,575.0	11,381.4	11,380.7	11,365.1	31.7	17.6	103.16	-79.8	1,930.7	503.3	452.6	50.67	9.932	
11,600.0	11,405.5	11,402.9	11,386.8	31.7	17.6	103.95	-84.4	1,930.8	506.4	455.8	50.56	10.016	
11,625.0	11,429.1	11,424.2	11,407.5	31.7	17.6	104.77	-89.2	1,930.7	510.1	459.7	50.42	10.117	
11,650.0	11,452.3	11,444.1	11,426.8	31.7	17.6	105.56	-94.2	1,930.5	514.4	464.2	50.26	10.236	
11,675.0	11,475.0	11,460.8	11,442.9	31.7	17.6	106.14	-98.7	1,930.2	519.6	469.5	50.11	10.370	
11,700.0	11,497.0	11,476.0	11,457.5	31.7	17.6	106.57	-103.0	1,930.0	525.8	475.8	49.94	10.527	
11,725.0	11,518.5	11,494.0	11,474.7	31.7	17.6	107.19	-108.4	1,929.7	532.9	483.2	49.68	10.726	
11,750.0	11,539.2	11,494.0	11,474.7	31.7	17.6	106.19	-108.4	1,929.7	541.1	491.4	49.70	10.887	
11,775.0	11,559.2	11,512.5	11,492.2	31.7	17.6	106.71	-114.4	1,929.4	550.2	500.8	49.35	11.149	
11,800.0	11,578.4	11,521.7	11,500.8	31.7	17.6	106.28	-117.5	1,929.3	560.5	511.3	49.13	11.409	
11,825.0	11,596.7	11,529.6	11,508.2	31.8	17.6	105.59	-120.3	1,929.1	571.8	522.9	48.89	11.696	
11,850.0	11,614.1	11,536.3	11,514.5	31.8	17.6	104.63	-122.7	1,929.0	584.2	535.5	48.64	12.009	
11,875.0	11,630.5	11,541.9	11,519.7	31.8	17.6	103.39	-124.8	1,928.9	597.5	549.1	48.39	12.349	
11,900.0	11,645.9	11,546.5	11,523.9	31.8	17.6	101.85	-126.5	1,928.8	611.7	563.6	48.12	12.712	
11,925.0	11,660.3	11,550.0	11,527.1	31.8	17.6	100.01	-127.9	1,928.7	626.8	579.0	47.86	13.098	
11,950.0	11,673.6	11,552.5	11,529.4	31.8	17.6	97.86	-128.9	1,928.7	642.7	595.1	47.59	13.505	
11,975.0	11,685.7	11,554.1	11,530.9	31.8	17.6	95.42	-129.5	1,928.7	659.2	611.9	47.32	13.931	
12,000.0	11,696.7	11,554.9	11,531.6	31.8	17.6	92.69	-129.8	1,928.6	676.4	629.3	47.05	14.375	
12,025.0	11,706.5	11,554.9	11,531.6	31.8	17.6	89.69	-129.8	1,928.6	694.1	647.3	46.79	14.834	
12,050.0	11,715.1	11,554.1	11,530.9	31.8	17.6	86.45	-129.5	1,928.7	712.2	665.6	46.52	15.308	
12,075.0	11,722.4	11,552.6	11,529.6	31.8	17.6	83.01	-128.9	1,928.7	730.6	684.4	46.26	15.793	
12,100.0	11,728.5	11,550.5	11,527.6	31.9	17.6	79.42	-128.1	1,928.7	749.3	703.3	46.00	16.289	
12,125.0	11,733.3	11,547.8	11,525.1	31.9	17.6	75.73	-127.0	1,928.8	768.3	722.5	45.75	16.794	
12,150.0	11,736.9	11,544.5	11,522.0	31.9	17.6	72.00	-125.8	1,928.8	787.3	741.8	45.49	17.306	
12,175.0	11,739.1	11,540.7	11,518.5	31.9	17.6	68.30	-124.3	1,928.9	806.3	761.1	45.24	17.823	
12,200.0	11,740.0	11,536.3	11,514.5	31.9	17.6	64.67	-122.7	1,929.0	825.4	780.4	44.99	18.344	
12,204.9	11,740.0	11,535.4	11,513.7	31.9	17.6	63.97	-122.4	1,929.0	829.1	784.1	44.95	18.446	
12,300.0	11,740.0	11,518.9	11,498.2	32.0	17.6	62.53	-116.5	1,929.3	903.1	859.0	44.08	20.488	
12,400.0	11,740.0	11,494.0	11,474.7	32.2	17.6	60.42	-108.4	1,929.7	984.4	941.0	43.41	22.680	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre				Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,500.0	6,326.9	6,331.9	6,328.2	26.2	11.9	4.92	-42.9	2,263.5	997.2	956.9	40.31	24.736		
6,600.0	6,423.1	6,428.3	6,424.7	26.7	12.0	5.06	-43.0	2,264.4	970.6	929.6	41.00	23.671		
6,700.0	6,519.2	6,525.0	6,521.4	27.2	12.1	5.21	-43.1	2,265.1	943.9	902.2	41.69	22.640		
6,730.0	6,548.0	6,553.7	6,550.1	27.3	12.1	5.26	-43.2	2,265.4	935.9	894.0	41.89	22.340		
6,800.0	6,615.5	6,621.6	6,617.9	27.7	12.2	5.34	-43.3	2,265.9	918.1	875.7	42.37	21.667		
6,900.0	6,712.7	6,720.1	6,716.4	28.2	12.2	5.44	-43.4	2,266.6	895.4	852.3	43.06	20.795		
7,000.0	6,810.7	6,820.1	6,816.5	28.6	12.3	5.53	-43.5	2,267.2	875.9	832.2	43.71	20.038		
7,100.0	6,909.3	6,920.9	6,917.2	29.1	12.4	5.62	-43.6	2,267.5	859.6	815.3	44.34	19.387		
7,200.0	7,008.4	7,020.5	7,016.8	29.6	12.4	5.70	-43.9	2,267.6	846.6	801.7	44.94	18.839		
7,300.0	7,107.9	7,120.9	7,117.3	30.0	12.4	5.77	-44.3	2,267.7	837.0	791.5	45.49	18.399		
7,400.0	7,207.7	7,221.4	7,217.8	30.3	12.4	5.83	-44.8	2,267.7	830.8	784.8	45.99	18.065		
7,500.0	7,307.7	7,321.6	7,317.9	30.6	12.4	5.89	-45.4	2,267.5	827.9	781.5	46.39	17.845		
7,530.0	7,337.6	7,351.7	7,348.0	30.7	12.3	94.91	-45.6	2,267.5	827.7	781.3	46.44	17.823		
7,600.0	7,407.7	7,423.8	7,420.2	30.7	12.3	94.94	-46.1	2,267.3	827.6	781.1	46.44	17.819		
7,700.0	7,507.7	7,524.4	7,520.7	30.7	12.3	94.99	-46.8	2,266.9	827.2	780.7	46.48	17.798		
7,800.0	7,607.7	7,627.0	7,623.4	30.7	12.2	95.04	-47.5	2,266.2	826.7	780.2	46.49	17.783		
7,900.0	7,707.7	7,727.0	7,723.3	30.8	12.2	95.09	-48.1	2,265.5	825.9	779.4	46.52	17.754		
8,000.0	7,807.7	7,827.4	7,823.7	30.8	12.2	95.14	-48.7	2,264.6	825.2	778.6	46.55	17.726		
8,100.0	7,907.7	7,927.5	7,923.9	30.8	12.1	95.19	-49.4	2,263.8	824.4	777.8	46.59	17.696		
8,200.0	8,007.7	8,028.4	8,024.7	30.8	12.1	95.24	-50.0	2,262.9	823.6	777.0	46.62	17.666		
8,300.0	8,107.7	8,128.8	8,125.1	30.9	12.1	95.29	-50.7	2,261.9	822.7	776.0	46.65	17.634		
8,400.0	8,207.7	8,229.4	8,225.7	30.9	12.1	95.34	-51.3	2,260.9	821.7	775.0	46.69	17.600		
8,500.0	8,307.7	8,330.1	8,326.4	30.9	12.0	95.40	-52.0	2,259.7	820.6	773.9	46.72	17.564		
8,600.0	8,407.7	8,430.5	8,426.8	30.9	12.0	95.47	-52.9	2,258.5	819.5	772.7	46.76	17.525		
8,700.0	8,507.7	8,530.6	8,526.8	31.0	12.0	95.54	-53.8	2,257.3	818.3	771.5	46.81	17.484		
8,800.0	8,607.7	8,629.4	8,625.6	31.0	12.0	95.60	-54.6	2,256.1	817.2	770.4	46.87	17.437		
8,900.0	8,707.7	8,737.7	8,733.9	31.0	12.0	95.67	-55.4	2,254.6	815.9	769.1	46.83	17.423		
9,000.0	8,807.7	8,840.3	8,836.5	31.0	12.1	95.78	-56.7	2,252.1	813.6	766.8	46.85	17.366		
9,100.0	8,907.7	8,938.5	8,934.6	31.1	12.1	95.86	-57.6	2,249.7	811.4	764.4	46.92	17.292		
9,200.0	9,007.7	9,047.4	9,043.5	31.1	12.2	95.73	-55.5	2,247.1	808.7	761.8	46.90	17.242		
9,300.0	9,107.7	9,153.3	9,149.3	31.1	12.3	95.54	-52.5	2,243.5	805.1	758.2	46.92	17.160		
9,400.0	9,207.7	9,252.2	9,248.1	31.1	12.4	95.43	-50.6	2,239.7	801.0	754.0	47.00	17.043		
9,500.0	9,307.7	9,340.6	9,336.4	31.2	12.4	95.35	-49.2	2,236.9	797.8	750.6	47.20	16.902		
9,583.2	9,390.9	9,405.9	9,401.8	31.2	12.5	95.25	-47.7	2,236.2	796.7	749.3	47.45	16.789 CC		
9,600.0	9,407.7	9,416.0	9,411.8	31.2	12.5	95.23	-47.5	2,236.2	796.7	749.2	47.53	16.762 ES		
9,700.0	9,507.7	9,497.1	9,492.8	31.2	12.6	95.00	-44.4	2,237.8	798.4	750.6	47.79	16.706 SF		
9,800.0	9,607.7	9,592.6	9,588.1	31.3	12.8	94.64	-39.7	2,241.6	802.0	754.0	47.92	16.737		
9,900.0	9,707.7	9,699.3	9,694.7	31.3	12.9	94.24	-34.4	2,245.5	805.2	757.3	47.94	16.797		
10,000.0	9,807.7	9,798.0	9,793.2	31.3	13.0	93.93	-30.1	2,248.7	808.2	760.2	48.03	16.825		
10,100.0	9,907.7	9,903.0	9,898.1	31.3	13.2	93.65	-26.4	2,251.8	810.9	762.8	48.07	16.869		
10,200.0	10,007.7	10,004.6	9,999.7	31.4	13.3	93.41	-23.2	2,254.1	813.0	764.8	48.14	16.889		
10,300.0	10,107.7	10,094.7	10,089.7	31.4	13.4	93.37	-22.7	2,256.6	815.7	767.4	48.30	16.887		
10,400.0	10,207.7	10,190.6	10,185.5	31.4	13.5	93.61	-26.4	2,260.3	819.8	771.3	48.43	16.926		
10,500.0	10,307.7	10,307.3	10,302.0	31.5	13.5	93.99	-32.0	2,262.9	822.2	773.9	48.35	17.007		
10,600.0	10,407.7	10,410.6	10,405.1	31.5	13.4	94.31	-36.8	2,264.3	823.9	775.6	48.37	17.033		
10,700.0	10,507.7	10,514.5	10,509.0	31.5	13.4	94.60	-41.0	2,265.3	825.2	776.8	48.39	17.051		
10,800.0	10,607.7	10,620.2	10,614.6	31.6	13.4	94.86	-44.8	2,265.7	825.9	777.5	48.40	17.063		
10,900.0	10,707.7	10,722.2	10,716.6	31.6	13.4	95.07	-47.9	2,265.6	826.1	777.6	48.44	17.053		
11,000.0	10,807.7	10,824.7	10,819.0	31.6	13.4	95.26	-50.5	2,265.3	826.0	777.5	48.48	17.040		
11,057.4	10,865.1	10,880.5	10,874.8	31.6	13.4	95.34	-51.7	2,265.2	826.0	777.4	48.52	17.022		
11,100.0	10,907.7	10,921.9	10,916.2	31.6	13.4	95.39	-52.3	2,265.1	826.0	777.4	48.56	17.010		
11,200.0	11,007.7	11,019.8	11,014.1	31.7	13.4	95.44	-53.2	2,265.3	826.3	777.6	48.65	16.986		

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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)			
11,300.0	11,107.7	11,119.8	11,114.1	31.7	13.5	95.46	-53.5	2,265.7	826.7	778.0	48.71	16.971	
11,400.0	11,207.7	11,221.4	11,215.7	31.7	13.5	95.49	-53.9	2,266.0	827.0	778.2	48.76	16.960	
11,454.9	11,262.5	11,276.4	11,270.7	31.7	13.5	95.51	-54.3	2,266.0	827.1	778.3	48.78	16.954	
11,475.0	11,282.7	11,296.6	11,290.9	31.7	13.5	96.07	-54.4	2,266.1	827.2	778.5	48.66	16.999	
11,500.0	11,307.6	11,321.5	11,315.8	31.7	13.5	96.17	-54.6	2,266.1	827.4	778.7	48.66	17.003	
11,525.0	11,332.4	11,346.3	11,340.6	31.7	13.5	96.34	-54.8	2,266.1	827.8	779.1	48.66	17.011	
11,550.0	11,357.0	11,370.9	11,365.2	31.7	13.5	96.59	-55.0	2,266.1	828.3	779.6	48.65	17.025	
11,575.0	11,381.4	11,395.2	11,389.5	31.7	13.6	96.89	-55.3	2,266.2	829.0	780.4	48.64	17.044	
11,600.0	11,405.5	11,419.2	11,413.5	31.7	13.6	97.24	-55.5	2,266.2	830.0	781.3	48.62	17.070	
11,625.0	11,429.1	11,442.8	11,437.1	31.7	13.6	97.64	-55.7	2,266.2	831.1	782.5	48.59	17.104	
11,650.0	11,452.3	11,465.9	11,460.2	31.7	13.6	98.08	-56.0	2,266.2	832.5	784.0	48.56	17.145	
11,675.0	11,475.0	11,488.5	11,482.8	31.7	13.6	98.54	-56.2	2,266.2	834.3	785.8	48.52	17.196	
11,700.0	11,497.0	11,510.5	11,504.8	31.7	13.6	99.00	-56.5	2,266.2	836.4	787.9	48.47	17.257	
11,725.0	11,518.5	11,531.8	11,526.1	31.7	13.6	99.47	-56.8	2,266.2	838.8	790.4	48.41	17.329	
11,750.0	11,539.2	11,552.4	11,546.7	31.7	13.6	99.92	-57.0	2,266.2	841.7	793.4	48.34	17.414	
11,775.0	11,559.2	11,572.3	11,566.5	31.7	13.6	100.33	-57.3	2,266.2	845.1	796.8	48.26	17.512	
11,800.0	11,578.4	11,591.1	11,585.4	31.7	13.6	100.70	-57.5	2,266.2	848.9	800.8	48.17	17.625	
11,825.0	11,596.7	11,609.0	11,603.3	31.8	13.6	101.00	-57.7	2,266.3	853.4	805.3	48.07	17.754	
11,850.0	11,614.1	11,626.0	11,620.3	31.8	13.6	101.22	-58.0	2,266.3	858.4	810.4	47.96	17.900	
11,875.0	11,630.5	11,642.0	11,636.3	31.8	13.6	101.36	-58.2	2,266.3	864.0	816.2	47.83	18.063	
11,900.0	11,645.9	11,657.0	11,651.3	31.8	13.6	101.39	-58.4	2,266.3	870.3	822.6	47.70	18.246	
11,925.0	11,660.3	11,671.0	11,665.2	31.8	13.6	101.31	-58.6	2,266.3	877.3	829.7	47.56	18.447	
11,950.0	11,673.6	11,684.0	11,678.2	31.8	13.6	101.11	-58.8	2,266.3	884.9	837.5	47.40	18.669	
11,975.0	11,685.7	11,695.8	11,690.1	31.8	13.6	100.76	-59.0	2,266.3	893.3	846.1	47.24	18.910	
12,000.0	11,696.7	11,706.5	11,700.7	31.8	13.6	100.27	-59.1	2,266.3	902.4	855.3	47.07	19.172	
12,025.0	11,706.5	11,716.0	11,710.2	31.8	13.7	99.61	-59.3	2,266.3	912.1	865.2	46.89	19.453	
12,050.0	11,715.1	11,724.2	11,718.4	31.8	13.7	98.78	-59.4	2,266.3	922.5	875.8	46.70	19.753	
12,075.0	11,722.4	11,731.2	11,725.4	31.8	13.7	97.76	-59.5	2,266.3	933.6	887.1	46.51	20.072	
12,100.0	11,728.5	11,736.9	11,731.2	31.9	13.7	96.56	-59.6	2,266.3	945.4	899.1	46.32	20.410	
12,125.0	11,733.3	11,741.4	11,735.6	31.9	13.7	95.16	-59.6	2,266.3	957.8	911.6	46.13	20.764	
12,150.0	11,736.9	11,744.5	11,738.7	31.9	13.7	93.57	-59.7	2,266.3	970.7	924.8	45.93	21.135	
12,175.0	11,739.1	11,746.3	11,740.6	31.9	13.7	91.78	-59.7	2,266.3	984.1	938.4	45.73	21.520	
12,200.0	11,740.0	11,746.9	11,741.1	31.9	13.7	89.81	-59.7	2,266.3	998.1	952.5	45.54	21.919	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		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	Warning	
6,500.0	6,326.9	6,331.9	6,328.2	26.2	11.9	4.92	-42.9	2,263.5	997.2	957.2	40.08	24.884		
6,600.0	6,423.1	6,428.3	6,424.7	26.7	12.0	5.06	-43.0	2,264.4	970.6	929.8	40.76	23.810		
6,700.0	6,519.2	6,525.0	6,521.4	27.2	12.1	5.21	-43.1	2,265.1	943.9	902.5	41.45	22.771		
6,730.0	6,548.0	6,553.7	6,550.1	27.3	12.1	5.26	-43.2	2,265.4	935.9	894.3	41.65	22.469		
6,800.0	6,615.5	6,621.6	6,617.9	27.7	12.2	5.34	-43.3	2,265.9	918.1	875.9	42.13	21.791		
6,900.0	6,712.7	6,720.1	6,716.4	28.2	12.2	5.44	-43.4	2,266.6	895.4	852.5	42.82	20.911		
7,000.0	6,810.7	6,820.1	6,816.5	28.6	12.3	5.53	-43.5	2,267.2	875.9	832.4	43.47	20.148		
7,100.0	6,909.3	6,920.9	6,917.2	29.1	12.4	5.62	-43.6	2,267.5	859.6	815.5	44.10	19.492		
7,200.0	7,008.4	7,020.5	7,016.8	29.6	12.4	5.70	-43.9	2,267.6	846.6	801.9	44.70	18.940		
7,300.0	7,107.9	7,120.9	7,117.3	30.0	12.4	5.77	-44.3	2,267.7	837.0	791.8	45.25	18.497		
7,400.0	7,207.7	7,221.4	7,217.8	30.3	12.4	5.83	-44.8	2,267.7	830.8	785.0	45.75	18.160		
7,500.0	7,307.7	7,321.6	7,317.9	30.6	12.4	5.89	-45.4	2,267.5	827.9	781.8	46.16	17.938		
7,530.0	7,337.6	7,351.7	7,348.0	30.7	12.3	94.91	-45.6	2,267.5	827.7	781.5	46.20	17.915		
7,600.0	7,407.7	7,423.8	7,420.2	30.7	12.3	94.94	-46.1	2,267.3	827.6	781.4	46.20	17.912		
7,700.0	7,507.7	7,524.4	7,520.7	30.7	12.3	94.99	-46.8	2,266.9	827.2	781.0	46.24	17.890		
7,800.0	7,607.7	7,627.0	7,623.4	30.7	12.2	95.04	-47.5	2,266.2	826.7	780.4	46.25	17.875		
7,900.0	7,707.7	7,727.0	7,723.3	30.8	12.2	95.09	-48.1	2,265.5	825.9	779.6	46.28	17.846		
8,000.0	7,807.7	7,827.4	7,823.7	30.8	12.2	95.14	-48.7	2,264.6	825.2	778.9	46.31	17.818		
8,100.0	7,907.7	7,927.5	7,923.9	30.8	12.1	95.19	-49.4	2,263.8	824.4	778.1	46.35	17.787		
8,200.0	8,007.7	8,028.4	8,024.7	30.8	12.1	95.24	-50.0	2,262.9	823.6	777.2	46.38	17.758		
8,300.0	8,107.7	8,128.8	8,125.1	30.9	12.1	95.29	-50.7	2,261.9	822.7	776.2	46.41	17.725		
8,400.0	8,207.7	8,229.4	8,225.7	30.9	12.1	95.34	-51.3	2,260.9	821.7	775.2	46.45	17.691		
8,500.0	8,307.7	8,330.1	8,326.4	30.9	12.0	95.40	-52.0	2,259.7	820.6	774.1	46.48	17.655		
8,600.0	8,407.7	8,430.5	8,426.8	30.9	12.0	95.47	-52.9	2,258.5	819.5	773.0	46.52	17.615		
8,700.0	8,507.7	8,530.6	8,526.8	31.0	12.0	95.54	-53.8	2,257.3	818.3	771.8	46.57	17.573		
8,800.0	8,607.7	8,629.4	8,625.6	31.0	12.0	95.60	-54.6	2,256.1	817.2	770.6	46.63	17.527		
8,900.0	8,707.7	8,737.7	8,733.9	31.0	12.0	95.67	-55.4	2,254.6	815.9	769.3	46.59	17.513		
9,000.0	8,807.7	8,840.3	8,836.5	31.0	12.1	95.78	-56.7	2,252.1	813.6	767.0	46.61	17.455		
9,100.0	8,907.7	8,938.5	8,934.6	31.1	12.1	95.86	-57.6	2,249.7	811.4	764.7	46.68	17.380		
9,200.0	9,007.7	9,047.4	9,043.5	31.1	12.2	95.73	-55.5	2,247.1	808.7	762.1	46.66	17.331		
9,300.0	9,107.7	9,153.3	9,149.3	31.1	12.3	95.54	-52.5	2,243.5	805.1	758.4	46.68	17.248		
9,400.0	9,207.7	9,252.2	9,248.1	31.1	12.4	95.43	-50.6	2,239.7	801.0	754.3	46.76	17.130		
9,500.0	9,307.7	9,340.6	9,336.4	31.2	12.4	95.35	-49.2	2,236.9	797.8	750.8	46.96	16.988		
9,583.2	9,390.9	9,405.9	9,401.8	31.2	12.5	95.25	-47.7	2,236.2	796.7	749.5	47.21	16.875 CC		
9,600.0	9,407.7	9,416.0	9,411.8	31.2	12.5	95.23	-47.5	2,236.2	796.7	749.5	47.29	16.847 ES		
9,700.0	9,507.7	9,497.1	9,492.8	31.2	12.6	95.00	-44.4	2,237.8	798.4	750.9	47.55	16.790 SF		
9,800.0	9,607.7	9,592.6	9,588.1	31.3	12.8	94.64	-39.7	2,241.6	802.0	754.3	47.68	16.821		
9,900.0	9,707.7	9,699.3	9,694.7	31.3	12.9	94.24	-34.4	2,245.5	805.2	757.5	47.70	16.881		
10,000.0	9,807.7	9,798.0	9,793.2	31.3	13.0	93.93	-30.1	2,248.7	808.2	760.4	47.79	16.910		
10,100.0	9,907.7	9,903.0	9,898.1	31.3	13.2	93.65	-26.4	2,251.8	810.9	763.1	47.83	16.953		
10,200.0	10,007.7	10,004.6	9,999.7	31.4	13.3	93.41	-23.2	2,254.1	813.0	765.1	47.90	16.973		
10,300.0	10,107.7	10,094.7	10,089.7	31.4	13.4	93.37	-22.7	2,256.6	815.7	767.6	48.06	16.971		
10,400.0	10,207.7	10,190.6	10,185.5	31.4	13.5	93.61	-26.4	2,260.3	819.8	771.6	48.19	17.010		
10,500.0	10,307.7	10,307.3	10,302.0	31.5	13.5	93.99	-32.0	2,262.9	822.2	774.1	48.11	17.092		
10,600.0	10,407.7	10,410.6	10,405.1	31.5	13.4	94.31	-36.8	2,264.3	823.9	775.8	48.13	17.118		
10,700.0	10,507.7	10,514.5	10,509.0	31.5	13.4	94.60	-41.0	2,265.3	825.2	777.0	48.15	17.136		
10,800.0	10,607.7	10,620.2	10,614.6	31.6	13.4	94.86	-44.8	2,265.7	825.9	777.7	48.16	17.148		
10,900.0	10,707.7	10,722.2	10,716.6	31.6	13.4	95.07	-47.9	2,265.6	826.1	777.9	48.20	17.138		
11,000.0	10,807.7	10,824.7	10,819.0	31.6	13.4	95.26	-50.5	2,265.3	826.0	777.8	48.24	17.125		
11,057.4	10,865.1	10,880.5	10,874.8	31.6	13.4	95.34	-51.7	2,265.2	826.0	777.7	48.28	17.106		
11,100.0	10,907.7	10,921.9	10,916.2	31.6	13.4	95.39	-52.3	2,265.1	826.0	777.7	48.32	17.094		
11,200.0	11,007.7	11,019.8	11,014.1	31.7	13.4	95.44	-53.2	2,265.3	826.3	777.9	48.41	17.070		

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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 #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		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)			
11,300.0	11,107.7	11,119.8	11,114.1	31.7	13.5	95.46	-53.5	2,265.7	826.7	778.2	48.47	17.055	
11,400.0	11,207.7	11,213.1	11,207.3	31.7	13.5	95.49	-54.0	2,266.0	827.1	778.5	48.60	17.018	
11,454.9	11,262.5	11,246.5	11,240.7	31.7	13.5	95.60	-55.6	2,266.7	828.5	779.6	48.82	16.970	
11,475.0	11,282.7	11,259.0	11,253.2	31.7	13.6	96.10	-56.7	2,267.1	829.4	780.6	48.76	17.009	
11,500.0	11,307.6	11,273.8	11,267.9	31.7	13.6	96.09	-58.2	2,267.8	830.9	782.0	48.85	17.010	
11,525.0	11,332.4	11,288.5	11,282.5	31.7	13.6	96.10	-60.0	2,268.5	832.9	783.9	48.92	17.023	
11,550.0	11,357.0	11,307.0	11,300.7	31.7	13.6	96.21	-62.8	2,269.7	835.3	786.3	48.96	17.061	
11,575.0	11,381.4	11,318.2	11,311.7	31.7	13.6	96.16	-64.8	2,270.5	838.2	789.1	49.05	17.088	
11,600.0	11,405.5	11,333.3	11,326.5	31.7	13.6	96.22	-67.8	2,271.6	841.6	792.5	49.09	17.142	
11,625.0	11,429.1	11,354.0	11,346.5	31.7	13.7	96.51	-72.6	2,273.1	845.4	796.4	49.07	17.229	
11,650.0	11,452.3	11,362.2	11,354.4	31.7	13.7	96.33	-74.7	2,273.8	849.8	800.6	49.15	17.290	
11,675.0	11,475.0	11,377.0	11,368.6	31.7	13.7	96.38	-78.8	2,275.0	854.7	805.5	49.15	17.390	
11,700.0	11,497.0	11,390.5	11,381.4	31.7	13.7	96.36	-82.8	2,276.1	860.1	810.9	49.14	17.502	
11,725.0	11,518.5	11,403.8	11,394.0	31.7	13.7	96.30	-87.0	2,277.1	866.1	817.0	49.12	17.632	
11,750.0	11,539.2	11,421.3	11,410.5	31.7	13.7	96.44	-92.8	2,278.5	872.6	823.6	49.03	17.797	
11,775.0	11,559.2	11,437.0	11,425.2	31.7	13.8	96.44	-98.2	2,279.5	879.7	830.7	48.94	17.973	
11,800.0	11,578.4	11,450.8	11,438.1	31.7	13.8	96.29	-103.1	2,280.4	887.3	838.4	48.85	18.164	
11,825.0	11,596.7	11,448.0	11,435.4	31.8	13.8	95.07	-102.1	2,280.2	895.6	846.7	48.91	18.313	
11,850.0	11,614.1	11,460.4	11,447.0	31.8	13.8	94.69	-106.7	2,281.0	904.5	855.7	48.79	18.540	
11,875.0	11,630.5	11,464.6	11,450.8	31.8	13.8	93.71	-108.3	2,281.3	914.1	865.4	48.73	18.758	
11,900.0	11,645.9	11,468.0	11,453.9	31.8	13.8	92.59	-109.6	2,281.5	924.4	875.7	48.67	18.993	
11,925.0	11,660.3	11,470.5	11,456.3	31.8	13.8	91.32	-110.6	2,281.7	935.2	886.6	48.59	19.246	
11,950.0	11,673.6	11,472.3	11,457.9	31.8	13.8	89.91	-111.3	2,281.8	946.6	898.1	48.50	19.516	
11,975.0	11,685.7	11,473.5	11,458.9	31.8	13.8	88.36	-111.8	2,281.9	958.5	910.1	48.40	19.801	
12,000.0	11,696.7	11,473.9	11,459.4	31.8	13.8	86.69	-111.9	2,281.9	970.8	922.5	48.30	20.102	
12,025.0	11,706.5	11,473.8	11,459.2	31.8	13.8	84.90	-111.9	2,281.9	983.6	935.4	48.18	20.416	
12,050.0	11,715.1	11,473.0	11,458.6	31.8	13.8	83.01	-111.6	2,281.9	996.7	948.7	48.05	20.745	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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)			
6,500.0	6,326.9	6,320.9	6,319.7	26.2	11.3	9.97	-126.8	2,249.0	991.9	951.6	40.37	24.571	
6,600.0	6,423.1	6,417.4	6,416.3	26.7	11.5	10.31	-128.0	2,250.5	966.5	925.4	41.08	23.524	
6,700.0	6,519.2	6,515.4	6,514.3	27.2	11.7	10.67	-129.2	2,252.0	940.9	899.1	41.79	22.518	
6,730.0	6,548.0	6,544.6	6,543.4	27.3	11.7	10.79	-129.6	2,252.4	933.2	891.3	41.99	22.226	
6,800.0	6,615.5	6,616.9	6,615.8	27.7	11.9	10.99	-130.4	2,253.3	916.1	873.6	42.44	21.583	
6,900.0	6,712.7	6,735.8	6,734.7	28.2	12.1	11.35	-131.8	2,253.0	893.0	850.0	42.98	20.778	
7,000.0	6,810.7	6,844.5	6,843.2	28.6	12.3	11.67	-133.1	2,250.3	871.1	827.5	43.56	19.996	
7,100.0	6,909.3	6,943.3	6,942.1	29.1	12.5	11.93	-134.3	2,247.4	852.1	807.9	44.21	19.272	
7,200.0	7,008.4	7,042.7	7,041.4	29.6	12.7	12.16	-135.4	2,244.5	836.5	791.6	44.84	18.655	
7,300.0	7,107.9	7,143.7	7,142.3	30.0	12.9	12.36	-136.3	2,241.4	824.1	778.7	45.42	18.143	
7,400.0	7,207.7	7,233.9	7,232.5	30.3	13.1	12.50	-137.1	2,238.9	815.5	769.5	46.07	17.700	
7,500.0	7,307.7	7,321.6	7,320.1	30.6	13.3	12.61	-138.1	2,237.8	811.7	765.1	46.67	17.394	
7,526.8	7,334.4	7,345.0	7,343.6	30.7	13.3	12.63	-138.5	2,237.7	811.6	764.8	46.77	17.354 CC	
7,530.0	7,337.6	7,348.2	7,346.8	30.7	13.3	101.64	-138.5	2,237.7	811.6	764.8	46.77	17.351	
7,600.0	7,407.7	7,418.6	7,417.1	30.7	13.5	101.71	-139.5	2,237.5	811.6	764.8	46.86	17.321	
7,700.0	7,507.7	7,519.4	7,518.0	30.7	13.7	101.80	-140.8	2,237.3	811.6	764.7	46.99	17.273	
7,721.2	7,528.9	7,540.4	7,538.9	30.7	13.7	101.81	-140.9	2,237.2	811.6	764.6	47.02	17.261 ES	
7,800.0	7,607.7	7,614.6	7,613.1	30.7	13.9	101.83	-141.3	2,237.4	811.9	764.7	47.18	17.209	
7,900.0	7,707.7	7,704.5	7,703.1	30.8	14.0	101.82	-141.3	2,238.4	813.0	765.6	47.41	17.147	
8,000.0	7,807.7	7,796.6	7,795.2	30.8	14.2	101.75	-140.7	2,240.7	815.3	767.7	47.63	17.116	
8,100.0	7,907.7	7,884.0	7,882.4	30.8	14.4	101.62	-139.6	2,244.0	818.8	770.9	47.89	17.097	
8,200.0	8,007.7	7,975.4	7,973.6	30.8	14.6	101.40	-137.4	2,249.1	823.7	775.6	48.12	17.116	
8,300.0	8,107.7	8,072.8	8,070.8	30.9	14.8	101.09	-134.1	2,255.3	829.3	780.9	48.32	17.161	
8,400.0	8,207.7	8,176.7	8,174.5	30.9	15.0	100.79	-130.9	2,261.7	834.7	786.3	48.48	17.218	
8,500.0	8,307.7	8,280.6	8,278.2	30.9	15.2	100.54	-128.2	2,267.4	839.7	791.0	48.63	17.265	
8,600.0	8,407.7	8,376.7	8,374.1	30.9	15.4	100.32	-125.9	2,272.6	844.6	795.7	48.84	17.294	
8,700.0	8,507.7	8,483.4	8,480.6	31.0	15.6	100.08	-123.3	2,278.3	849.4	800.4	48.98	17.343	
8,800.0	8,607.7	8,594.1	8,591.2	31.0	15.9	99.84	-120.5	2,282.9	853.1	804.0	49.09	17.378	
8,900.0	8,707.7	8,701.3	8,698.2	31.0	16.1	99.53	-116.5	2,286.5	855.8	806.5	49.23	17.384	
9,000.0	8,807.7	8,813.9	8,810.7	31.0	16.3	99.14	-111.0	2,289.3	857.4	808.1	49.34	17.380	
9,100.0	8,907.7	8,928.3	8,925.0	31.1	16.5	98.91	-107.6	2,289.8	857.4	807.9	49.41	17.351	
9,200.0	9,007.7	9,027.1	9,023.8	31.1	16.7	98.77	-105.4	2,289.2	856.4	806.8	49.60	17.266	
9,300.0	9,107.7	9,123.6	9,120.3	31.1	16.9	98.69	-104.1	2,288.9	855.9	806.1	49.81	17.184	
9,400.0	9,207.7	9,227.9	9,224.6	31.1	17.2	98.68	-103.9	2,288.4	855.4	805.5	49.95	17.125	
9,500.0	9,307.7	9,327.8	9,324.5	31.2	17.4	98.69	-104.0	2,287.5	854.5	804.4	50.13	17.048	
9,542.4	9,350.1	9,363.4	9,360.1	31.2	17.4	98.71	-104.1	2,287.3	854.3	804.1	50.25	17.002	
9,600.0	9,407.7	9,412.0	9,408.7	31.2	17.5	98.73	-104.6	2,287.5	854.7	804.2	50.41	16.954	
9,700.0	9,507.7	9,490.8	9,487.4	31.2	17.7	98.81	-106.0	2,289.1	857.0	806.2	50.72	16.897	
9,800.0	9,607.7	9,589.8	9,586.3	31.3	17.9	98.97	-108.9	2,292.5	860.8	809.9	50.89	16.915	
9,900.0	9,707.7	9,703.6	9,700.1	31.3	18.1	99.09	-111.3	2,295.4	863.7	812.7	50.97	16.945	
10,000.0	9,807.7	9,816.7	9,813.1	31.3	18.4	99.18	-112.8	2,296.5	864.8	813.8	51.06	16.938	
10,100.0	9,907.7	9,922.9	9,919.4	31.3	18.6	99.24	-113.8	2,296.6	865.0	813.8	51.19	16.897	
10,200.0	10,007.7	10,027.4	10,023.9	31.4	18.8	99.28	-114.2	2,295.9	864.5	813.1	51.34	16.837	
10,300.0	10,107.7	10,129.7	10,126.2	31.4	19.0	99.28	-114.0	2,295.1	863.6	812.1	51.51	16.765	
10,400.0	10,207.7	10,231.8	10,228.2	31.4	19.2	99.27	-113.7	2,294.0	862.5	810.8	51.69	16.687	
10,500.0	10,307.7	10,332.9	10,329.3	31.5	19.4	99.27	-113.5	2,292.7	861.2	809.3	51.87	16.603	
10,600.0	10,407.7	10,434.4	10,430.9	31.5	19.6	99.29	-113.7	2,291.2	859.8	807.7	52.05	16.519	
10,700.0	10,507.7	10,528.9	10,525.3	31.5	19.8	99.31	-113.7	2,290.0	858.5	806.2	52.27	16.423	
10,800.0	10,607.7	10,623.2	10,619.6	31.6	20.0	99.29	-113.4	2,289.5	858.0	805.5	52.50	16.342	
10,900.0	10,707.7	10,721.8	10,718.2	31.6	20.2	99.26	-112.9	2,289.5	857.8	805.1	52.70	16.277	
11,000.0	10,807.7	10,823.0	10,819.4	31.6	20.4	99.23	-112.3	2,289.4	857.7	804.8	52.89	16.217	
11,038.1	10,845.8	10,859.3	10,855.8	31.6	20.5	99.22	-112.2	2,289.4	857.7	804.7	52.98	16.190	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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		Offset Wellbore Centre			Rule Assigned: Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,100.0	10,907.7	10,918.0	10,914.5	31.6	20.6	99.23	-112.4	2,289.5	857.8	804.7	53.11	16.150		
11,200.0	11,007.7	10,988.5	10,984.9	31.7	20.8	99.40	-115.1	2,290.4	859.7	806.2	53.49	16.074	SF	
11,300.0	11,107.7	11,059.1	11,054.7	31.7	20.9	99.99	-124.6	2,292.6	865.2	811.4	53.80	16.083		
11,400.0	11,207.7	11,117.0	11,110.7	31.7	21.0	100.90	-138.9	2,295.3	874.7	820.6	54.13	16.160		
11,454.9	11,262.5	11,164.0	11,154.9	31.7	21.1	101.87	-154.5	2,297.9	881.7	827.5	54.18	16.272		
11,475.0	11,282.7	11,175.8	11,165.9	31.7	21.2	102.34	-159.0	2,298.5	884.6	830.5	54.10	16.351		
11,500.0	11,307.6	11,195.4	11,183.9	31.7	21.2	102.42	-166.7	2,299.6	888.6	834.5	54.11	16.421		
11,525.0	11,332.4	11,214.7	11,201.4	31.7	21.2	102.52	-174.8	2,300.5	893.1	839.0	54.12	16.503		
11,550.0	11,357.0	11,237.0	11,221.3	31.7	21.3	102.75	-184.7	2,301.4	898.1	844.0	54.09	16.604		
11,575.0	11,381.4	11,257.7	11,239.7	31.7	21.3	102.94	-194.3	2,302.0	903.6	849.6	54.06	16.715		
11,600.0	11,405.5	11,278.1	11,257.6	31.7	21.4	103.12	-204.0	2,302.5	909.6	855.6	54.01	16.840		
11,625.0	11,429.1	11,297.0	11,274.1	31.7	21.4	103.21	-213.2	2,302.8	916.2	862.2	53.96	16.978		
11,650.0	11,452.3	11,313.2	11,288.2	31.7	21.4	103.14	-221.2	2,303.0	923.3	869.4	53.91	17.127		
11,675.0	11,475.0	11,326.8	11,300.0	31.7	21.5	102.88	-228.1	2,303.1	931.1	877.3	53.86	17.288		
11,700.0	11,497.0	11,339.2	11,310.6	31.7	21.5	102.49	-234.4	2,303.2	939.7	885.9	53.80	17.464		
11,725.0	11,518.5	11,350.1	11,320.0	31.7	21.5	101.95	-240.0	2,303.2	948.9	895.1	53.74	17.656		
11,750.0	11,539.2	11,359.6	11,328.1	31.7	21.5	101.23	-244.9	2,303.3	958.7	905.1	53.67	17.864		
11,775.0	11,559.2	11,367.8	11,335.1	31.7	21.5	100.35	-249.2	2,303.3	969.3	915.7	53.59	18.086		
11,800.0	11,578.4	11,374.7	11,340.9	31.7	21.6	99.28	-252.8	2,303.3	980.6	927.0	53.51	18.324		
11,825.0	11,596.7	11,380.4	11,345.8	31.8	21.6	98.04	-255.8	2,303.3	992.4	939.0	53.42	18.577		

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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)			
6,700.0	6,519.2	6,470.0	6,468.1	27.2	11.2	8.71	-106.1	2,301.3	988.0	946.1	41.98	23.536	
6,730.0	6,548.0	6,499.0	6,496.8	27.3	11.3	8.60	-103.3	2,303.5	981.8	939.6	42.21	23.261	
6,800.0	6,615.5	6,547.4	6,544.8	27.7	11.4	8.37	-98.8	2,307.8	968.6	925.8	42.83	22.613	
6,900.0	6,712.7	6,635.0	6,631.7	28.2	11.6	8.03	-91.9	2,316.7	954.3	910.6	43.66	21.859	
7,000.0	6,810.7	6,734.0	6,730.0	28.6	11.8	7.67	-84.8	2,327.0	943.7	899.3	44.41	21.250	
7,100.0	6,909.3	6,834.0	6,829.3	29.1	12.0	7.38	-79.4	2,337.2	936.7	891.6	45.13	20.755	
7,200.0	7,008.4	6,937.5	6,932.2	29.6	12.2	7.16	-75.4	2,347.5	933.0	887.2	45.80	20.369	
7,273.5	7,081.5	7,013.8	7,008.1	29.9	12.4	7.01	-72.7	2,354.6	932.1	885.9	46.27	20.147 CC	
7,300.0	7,107.9	7,041.0	7,035.2	30.0	12.4	6.96	-71.9	2,357.1	932.3	885.8	46.44	20.076 ES	
7,400.0	7,207.7	7,149.4	7,143.1	30.3	12.6	6.75	-68.4	2,366.7	934.5	887.5	46.99	19.885	
7,500.0	7,307.7	7,251.2	7,244.5	30.6	12.9	6.51	-64.8	2,375.0	939.5	892.0	47.49	19.781 SF	
7,530.0	7,337.6	7,280.8	7,273.9	30.7	12.9	95.43	-63.7	2,377.4	941.6	894.0	47.58	19.792	
7,600.0	7,407.7	7,349.6	7,342.5	30.7	13.1	95.26	-61.3	2,383.0	947.1	899.4	47.68	19.863	
7,700.0	7,507.7	7,448.2	7,440.7	30.7	13.3	95.03	-58.2	2,391.1	955.0	907.2	47.84	19.962	
7,800.0	7,607.7	7,546.7	7,538.8	30.7	13.5	94.80	-55.1	2,399.3	963.1	915.1	48.01	20.061	
7,900.0	7,707.7	7,643.9	7,635.6	30.8	13.7	94.54	-51.4	2,407.7	971.3	923.1	48.18	20.161	
8,000.0	7,807.7	7,742.2	7,733.4	30.8	13.9	94.25	-47.2	2,416.3	979.8	931.4	48.35	20.265	
8,100.0	7,907.7	7,843.0	7,833.8	30.8	14.1	93.97	-43.0	2,425.2	988.3	939.8	48.51	20.375	
8,200.0	8,007.7	7,948.4	7,938.6	30.8	14.3	93.71	-39.1	2,434.1	996.5	947.8	48.64	20.486	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11344-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-56.25	100.8	-150.8	181.4	174.4	6.98	25.985	
100.0	100.0	98.0	98.0	3.1	3.1	-56.25	100.8	-150.8	181.4	174.2	7.22	25.118	
200.0	200.0	198.0	198.0	3.2	3.2	-56.25	100.8	-150.8	181.4	173.9	7.46	24.311	
300.0	300.0	298.0	298.0	3.4	3.4	-56.25	100.8	-150.8	181.4	173.7	7.69	23.578	
400.0	400.0	398.0	398.0	3.5	3.5	-56.25	100.8	-150.8	181.4	173.5	7.92	22.905	
500.0	500.0	498.0	498.0	3.6	3.6	-56.25	100.8	-150.8	181.4	173.2	8.14	22.283	
600.0	600.0	598.0	598.0	3.7	3.7	-56.25	100.8	-150.8	181.4	173.0	8.36	21.707	
700.0	700.0	698.0	698.0	3.9	3.9	-56.25	100.8	-150.8	181.4	172.8	8.57	21.169	
800.0	800.0	798.0	798.0	4.0	4.0	-56.25	100.8	-150.8	181.4	172.6	8.78	20.667	
900.0	900.0	898.0	898.0	4.1	4.1	-56.25	100.8	-150.8	181.4	172.4	8.98	20.196	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	-56.25	100.8	-150.8	181.4	172.2	9.18	19.753	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	-56.25	100.8	-150.8	181.4	172.0	9.38	19.336	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	-56.25	100.8	-150.8	181.4	171.8	9.58	18.942	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	-56.25	100.8	-150.8	181.4	171.6	9.77	18.568	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	-56.25	100.8	-150.8	181.4	171.4	9.96	18.213	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	-56.25	100.8	-150.8	181.4	171.2	10.15	17.876 CC, ES, SF	
1,600.0	1,600.0	1,593.2	1,593.1	4.9	4.9	-145.80	100.7	-152.3	184.1	174.0	10.11	18.213	
1,700.0	1,699.8	1,687.6	1,687.4	5.1	5.0	-147.36	100.4	-157.0	192.5	181.9	10.54	18.260	
1,800.0	1,799.5	1,780.7	1,780.3	5.3	5.2	-149.64	100.0	-164.5	206.7	195.7	11.00	18.789	
1,900.0	1,898.7	1,872.0	1,870.9	5.6	5.5	-152.32	99.5	-174.9	227.1	215.6	11.50	19.754	
2,000.0	1,997.5	1,960.8	1,958.8	5.9	5.8	-155.07	98.8	-187.8	253.9	241.8	12.03	21.102	
2,100.0	2,095.6	2,046.7	2,043.4	6.3	6.1	-157.68	98.0	-202.8	286.9	274.3	12.59	22.789	
2,200.0	2,193.1	2,132.4	2,127.3	6.6	6.3	-160.11	97.1	-220.1	326.1	312.9	13.18	24.749	
2,300.0	2,289.6	2,221.5	2,214.5	7.0	6.6	-162.29	96.2	-238.6	369.3	355.5	13.79	26.773	
2,400.0	2,385.8	2,309.8	2,300.9	7.3	6.9	-164.34	95.2	-256.9	414.5	400.2	14.38	28.818	
2,500.0	2,481.9	2,398.1	2,387.2	7.7	7.2	-166.00	94.2	-275.2	460.1	445.1	15.00	30.676	
2,600.0	2,578.0	2,486.4	2,473.6	8.0	7.5	-167.35	93.3	-293.6	505.9	490.3	15.64	32.348	
2,700.0	2,674.1	2,574.7	2,560.0	8.4	7.8	-168.49	92.3	-311.9	551.9	535.6	16.30	33.853	
2,800.0	2,770.3	2,663.0	2,646.3	8.8	8.1	-169.45	91.4	-330.2	598.1	581.1	16.99	35.206	
2,900.0	2,866.4	2,751.3	2,732.7	9.2	8.4	-170.27	90.4	-348.6	644.3	626.6	17.69	36.424	
3,000.0	2,962.5	2,839.6	2,819.1	9.6	8.8	-170.99	89.4	-366.9	690.7	672.3	18.41	37.522	
3,100.0	3,058.7	2,927.9	2,905.4	10.1	9.1	-171.61	88.5	-385.2	737.1	718.0	19.14	38.512	
3,200.0	3,154.8	3,016.2	2,991.8	10.5	9.5	-172.17	87.5	-403.6	783.6	763.7	19.88	39.407	
3,300.0	3,250.9	3,104.5	3,078.2	10.9	9.8	-172.66	86.6	-421.9	830.1	809.5	20.64	40.218	
3,400.0	3,347.0	3,192.8	3,164.6	11.4	10.2	-173.09	85.6	-440.2	876.7	855.3	21.41	40.954	
3,500.0	3,443.2	3,281.1	3,250.9	11.8	10.6	-173.49	84.6	-458.6	923.3	901.1	22.18	41.624	
3,600.0	3,539.3	3,369.4	3,337.3	12.3	10.9	-173.85	83.7	-476.9	970.0	947.0	22.97	42.235	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	-56.24	84.0	-125.7	151.2	144.2	6.98	21.664	
100.0	100.0	98.0	98.0	3.1	3.1	-56.24	84.0	-125.7	151.2	144.0	7.22	20.940	
200.0	200.0	198.0	198.0	3.2	3.2	-56.24	84.0	-125.7	151.2	143.7	7.46	20.267	
300.0	300.0	298.0	298.0	3.4	3.4	-56.24	84.0	-125.7	151.2	143.5	7.69	19.656	
400.0	400.0	398.0	398.0	3.5	3.5	-56.24	84.0	-125.7	151.2	143.3	7.92	19.095	
500.0	500.0	498.0	498.0	3.6	3.6	-56.24	84.0	-125.7	151.2	143.1	8.14	18.576	
600.0	600.0	598.0	598.0	3.7	3.7	-56.24	84.0	-125.7	151.2	142.9	8.36	18.096	
700.0	700.0	698.0	698.0	3.9	3.9	-56.24	84.0	-125.7	151.2	142.6	8.57	17.648	
800.0	800.0	798.0	798.0	4.0	4.0	-56.24	84.0	-125.7	151.2	142.4	8.78	17.229	
900.0	900.0	898.0	898.0	4.1	4.1	-56.24	84.0	-125.7	151.2	142.2	8.98	16.836	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	-56.24	84.0	-125.7	151.2	142.0	9.18	16.467	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	-56.24	84.0	-125.7	151.2	141.8	9.38	16.119	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	-56.24	84.0	-125.7	151.2	141.6	9.58	15.790	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	-56.24	84.0	-125.7	151.2	141.4	9.77	15.479	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	-56.24	84.0	-125.7	151.2	141.2	9.96	15.183	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	-56.24	84.0	-125.7	151.2	141.1	10.15	14.902 CC, ES, SF	
1,600.0	1,600.0	1,594.2	1,594.2	4.9	4.9	-145.95	83.8	-127.2	153.9	143.8	10.10	15.232	
1,700.0	1,699.8	1,689.6	1,689.5	5.1	5.1	-147.96	83.2	-131.9	162.0	151.5	10.53	15.392	
1,800.0	1,799.5	1,783.8	1,783.3	5.3	5.2	-150.85	82.1	-139.6	176.1	165.1	10.99	16.027	
1,900.0	1,898.7	1,876.0	1,874.9	5.6	5.5	-154.16	80.6	-150.1	196.4	184.9	11.49	17.096	
2,000.0	1,997.5	1,965.7	1,963.7	5.9	5.8	-157.46	78.8	-163.1	223.1	211.1	12.03	18.550	
2,100.0	2,095.6	2,056.8	2,053.4	6.3	6.1	-160.59	76.6	-178.6	255.9	243.3	12.60	20.312	
2,200.0	2,193.1	2,148.8	2,144.0	6.6	6.3	-163.26	74.4	-194.4	292.6	279.4	13.20	22.171	
2,300.0	2,289.6	2,239.5	2,233.3	7.0	6.6	-165.46	72.2	-210.0	333.0	319.2	13.83	24.081	
2,400.0	2,385.8	2,329.4	2,321.9	7.3	6.9	-167.43	70.0	-225.5	375.3	360.9	14.42	26.020	
2,500.0	2,481.9	2,419.3	2,410.4	7.7	7.2	-169.01	67.8	-240.9	418.0	402.9	15.04	27.783	
2,600.0	2,578.0	2,509.2	2,499.0	8.0	7.5	-170.30	65.7	-256.4	460.8	445.1	15.69	29.373	
2,700.0	2,674.1	2,599.2	2,587.5	8.4	7.8	-171.37	63.5	-271.8	503.8	487.4	16.35	30.806	
2,800.0	2,770.3	2,689.1	2,676.1	8.8	8.1	-172.27	61.3	-287.3	546.9	529.9	17.04	32.095	
2,900.0	2,866.4	2,779.0	2,764.6	9.2	8.4	-173.05	59.1	-302.8	590.1	572.4	17.74	33.258	
3,000.0	2,962.5	2,868.9	2,853.2	9.6	8.7	-173.71	57.0	-318.2	633.4	614.9	18.46	34.307	
3,100.0	3,058.7	2,958.8	2,941.7	10.1	9.1	-174.29	54.8	-333.7	676.8	657.6	19.20	35.255	
3,200.0	3,154.8	3,048.7	3,030.3	10.5	9.4	-174.81	52.6	-349.1	720.2	700.2	19.94	36.115	
3,300.0	3,250.9	3,138.6	3,118.8	10.9	9.8	-175.26	50.5	-364.6	763.6	742.9	20.70	36.895	
3,400.0	3,347.0	3,228.6	3,207.4	11.4	10.1	-175.67	48.3	-380.1	807.1	785.6	21.46	37.604	
3,500.0	3,443.2	3,318.5	3,295.9	11.8	10.5	-176.03	46.1	-395.5	850.6	828.3	22.24	38.251	
3,600.0	3,539.3	3,408.4	3,384.5	12.3	10.9	-176.36	43.9	-411.0	894.1	871.1	23.02	38.843	
3,700.0	3,635.4	3,498.3	3,473.0	12.7	11.2	-176.66	41.8	-426.5	937.7	913.9	23.81	39.385	
3,800.0	3,731.5	3,588.2	3,561.6	13.2	11.6	-176.93	39.6	-441.9	981.2	956.6	24.60	39.882	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Tooface (")	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-56.20	67.3	-100.5	121.0	114.0	6.98	17.327	
100.0	100.0	99.0	99.0	3.1	3.1	-56.20	67.3	-100.5	120.9	113.7	7.22	16.744	
200.0	200.0	199.0	199.0	3.2	3.2	-56.20	67.3	-100.5	120.9	113.5	7.46	16.208	
300.0	300.0	299.0	299.0	3.4	3.4	-56.20	67.3	-100.5	120.9	113.3	7.69	15.720	
400.0	400.0	399.0	399.0	3.5	3.5	-56.20	67.3	-100.5	120.9	113.0	7.92	15.271	
500.0	500.0	499.0	499.0	3.6	3.6	-56.20	67.3	-100.5	120.9	112.8	8.14	14.857	
600.0	600.0	599.0	599.0	3.7	3.7	-56.20	67.3	-100.5	120.9	112.6	8.36	14.472	
700.0	700.0	699.0	699.0	3.9	3.9	-56.20	67.3	-100.5	120.9	112.4	8.57	14.114	
800.0	800.0	799.0	799.0	4.0	4.0	-56.20	67.3	-100.5	120.9	112.2	8.78	13.779	
900.0	900.0	899.0	899.0	4.1	4.1	-56.20	67.3	-100.5	120.9	112.0	8.98	13.466	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.20	67.3	-100.5	120.9	111.8	9.18	13.170	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.20	67.3	-100.5	120.9	111.6	9.38	12.892	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.20	67.3	-100.5	120.9	111.4	9.58	12.629	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.20	67.3	-100.5	120.9	111.2	9.77	12.380	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.20	67.3	-100.5	120.9	111.0	9.96	12.143	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.20	67.3	-100.5	120.9	110.8	10.15	11.918 CC, ES, SF	
1,600.0	1,600.0	1,597.1	1,597.1	4.9	4.9	-146.33	66.4	-101.9	123.1	113.1	10.07	12.232	
1,700.0	1,699.8	1,694.6	1,694.5	5.1	5.1	-149.47	63.9	-106.2	130.0	119.5	10.46	12.426	
1,800.0	1,799.5	1,792.0	1,791.5	5.3	5.2	-153.93	59.8	-113.0	141.9	131.2	10.79	13.151	
1,900.0	1,898.7	1,889.9	1,889.1	5.6	5.4	-158.32	55.4	-120.3	158.3	147.0	11.25	14.064	
2,000.0	1,997.5	1,987.1	1,985.9	5.9	5.6	-162.19	51.0	-127.6	178.6	166.9	11.77	15.181	
2,100.0	2,095.6	2,083.5	2,081.9	6.3	5.9	-165.50	46.7	-134.8	203.0	190.6	12.32	16.472	
2,200.0	2,193.1	2,178.8	2,176.9	6.6	6.1	-168.25	42.4	-141.9	231.1	218.2	12.91	17.902	
2,300.0	2,289.6	2,273.1	2,270.8	7.0	6.4	-170.52	38.2	-148.9	263.0	249.5	13.53	19.442	
2,400.0	2,385.8	2,366.8	2,364.1	7.3	6.6	-172.45	34.0	-155.9	296.9	282.8	14.10	21.051	
2,500.0	2,481.9	2,460.5	2,457.4	7.7	6.9	-173.98	29.8	-162.9	330.9	316.2	14.70	22.518	
2,600.0	2,578.0	2,554.1	2,550.8	8.0	7.2	-175.23	25.6	-169.9	365.2	349.9	15.31	23.848	
2,700.0	2,674.1	2,647.8	2,644.1	8.4	7.4	-176.26	21.4	-176.9	399.6	383.6	15.93	25.080	
2,800.0	2,770.3	2,746.5	2,742.4	8.8	7.7	-177.14	17.2	-183.8	433.6	417.0	16.59	26.143	
2,900.0	2,866.4	2,847.6	2,843.3	9.2	8.0	-177.78	13.8	-189.4	466.4	449.1	17.29	26.974	
3,000.0	2,962.5	2,949.8	2,945.4	9.6	8.3	-178.22	11.4	-193.6	497.7	479.7	18.00	27.657	
3,100.0	3,058.7	3,053.1	3,048.6	10.1	8.6	-178.50	9.8	-196.1	527.7	509.0	18.70	28.221	
3,200.0	3,154.8	3,157.4	3,152.9	10.5	8.8	-178.64	9.2	-197.1	556.1	536.8	19.34	28.755	
3,300.0	3,250.9	3,254.3	3,249.9	10.9	8.9	-178.71	9.2	-197.1	583.7	563.8	19.87	29.368	
3,400.0	3,347.0	3,350.5	3,346.0	11.4	8.9	-178.76	9.2	-197.1	611.2	590.8	20.43	29.915	
3,500.0	3,443.2	3,446.6	3,442.2	11.8	9.0	-178.82	9.2	-197.1	638.8	617.8	21.00	30.419	
3,600.0	3,539.3	3,542.7	3,538.3	12.3	9.1	-178.87	9.2	-197.1	666.3	644.8	21.58	30.883	
3,700.0	3,635.4	3,638.9	3,634.4	12.7	9.2	-178.91	9.2	-197.1	693.9	671.7	22.16	31.313	
3,800.0	3,731.5	3,735.0	3,730.5	13.2	9.2	-178.95	9.2	-197.1	721.5	698.7	22.75	31.709	
3,900.0	3,827.7	3,831.1	3,826.7	13.6	9.3	-178.99	9.2	-197.1	749.0	725.7	23.35	32.077	
4,000.0	3,923.8	3,927.2	3,922.8	14.1	9.4	-179.03	9.2	-197.1	776.6	752.6	23.96	32.417	
4,100.0	4,019.9	4,023.4	4,018.9	14.6	9.5	-179.06	9.2	-197.1	804.1	779.6	24.57	32.733	
4,200.0	4,116.0	4,119.5	4,115.0	15.0	9.5	-179.09	9.2	-197.1	831.7	806.5	25.18	33.026	
4,300.0	4,212.2	4,215.6	4,211.2	15.5	9.6	-179.12	9.2	-197.1	859.3	833.5	25.80	33.299	
4,400.0	4,308.3	4,311.7	4,307.3	16.0	9.7	-179.15	9.2	-197.1	886.8	860.4	26.43	33.553	
4,500.0	4,404.4	4,407.9	4,403.4	16.4	9.8	-179.17	9.2	-197.1	914.4	887.3	27.06	33.789	
4,600.0	4,500.5	4,504.0	4,499.5	16.9	9.8	-179.20	9.2	-197.1	941.9	914.3	27.70	34.010	
4,700.0	4,596.7	4,600.1	4,595.7	17.4	9.9	-179.22	9.2	-197.1	969.5	941.2	28.33	34.216	
4,800.0	4,692.8	4,696.2	4,691.8	17.9	10.0	-179.24	9.2	-197.1	997.1	968.1	28.98	34.409	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11450-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-56.22	50.4	-75.4	90.7	83.7	6.98	12.991	
100.0	100.0	99.0	99.0	3.1	3.1	-56.22	50.4	-75.4	90.7	83.5	7.22	12.554	
200.0	200.0	199.0	199.0	3.2	3.2	-56.22	50.4	-75.4	90.7	83.2	7.46	12.152	
300.0	300.0	299.0	299.0	3.4	3.4	-56.22	50.4	-75.4	90.7	83.0	7.69	11.786	
400.0	400.0	399.0	399.0	3.5	3.5	-56.22	50.4	-75.4	90.7	82.8	7.92	11.449	
500.0	500.0	499.0	499.0	3.6	3.6	-56.22	50.4	-75.4	90.7	82.5	8.14	11.139	
600.0	600.0	599.0	599.0	3.7	3.7	-56.22	50.4	-75.4	90.7	82.3	8.36	10.850	
700.0	700.0	699.0	699.0	3.9	3.9	-56.22	50.4	-75.4	90.7	82.1	8.57	10.582	
800.0	800.0	799.0	799.0	4.0	4.0	-56.22	50.4	-75.4	90.7	81.9	8.78	10.331	
900.0	900.0	899.0	899.0	4.1	4.1	-56.22	50.4	-75.4	90.7	81.7	8.98	10.096	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.22	50.4	-75.4	90.7	81.5	9.18	9.874	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.22	50.4	-75.4	90.7	81.3	9.38	9.666	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.22	50.4	-75.4	90.7	81.1	9.58	9.468	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.22	50.4	-75.4	90.7	80.9	9.77	9.282	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.22	50.4	-75.4	90.7	80.7	9.96	9.104	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.22	50.4	-75.4	90.7	80.5	10.15	8.936 CC	
1,600.0	1,600.0	1,601.4	1,601.4	4.9	4.9	-145.12	50.6	-73.6	90.8	80.7	10.12	8.972	
1,700.0	1,699.8	1,703.9	1,703.7	5.1	5.1	-144.80	51.3	-68.2	91.1	80.5	10.57	8.617	
1,800.0	1,799.5	1,806.2	1,805.6	5.3	5.3	-144.26	52.4	-59.2	91.5	80.5	11.02	8.300 ES	
1,900.0	1,898.7	1,906.1	1,905.0	5.6	5.5	-144.34	53.7	-48.8	93.6	82.1	11.46	8.167 SF	
2,000.0	1,997.5	2,006.0	2,004.3	5.9	5.7	-145.56	55.0	-38.4	98.6	86.6	11.94	8.256	
2,100.0	2,095.6	2,105.6	2,103.4	6.3	6.0	-147.66	56.2	-28.1	106.5	94.0	12.47	8.542	
2,200.0	2,193.1	2,204.8	2,202.1	6.6	6.3	-150.29	57.5	-17.8	117.6	104.5	13.06	9.004	
2,300.0	2,289.6	2,303.6	2,300.3	7.0	6.5	-153.12	58.7	-7.5	131.9	118.2	13.70	9.627	
2,400.0	2,385.8	2,402.0	2,398.2	7.3	6.8	-155.79	60.0	2.7	148.2	133.8	14.34	10.335	
2,500.0	2,481.9	2,500.5	2,496.1	7.7	7.1	-157.92	61.3	12.9	164.6	149.6	14.99	10.981	
2,600.0	2,578.0	2,599.0	2,594.1	8.0	7.4	-159.67	62.5	23.1	181.3	165.6	15.68	11.565	
2,700.0	2,674.1	2,697.4	2,692.0	8.4	7.8	-161.12	63.8	33.3	198.1	181.7	16.38	12.093	
2,800.0	2,770.3	2,795.9	2,789.9	8.8	8.1	-162.35	65.0	43.5	215.0	197.9	17.11	12.569	
2,900.0	2,866.4	2,894.4	2,887.8	9.2	8.4	-163.40	66.3	53.7	232.0	214.1	17.85	12.999	
3,000.0	2,962.5	2,992.8	2,985.8	9.6	8.8	-164.30	67.5	64.0	249.0	230.4	18.60	13.388	
3,100.0	3,058.7	3,091.3	3,083.7	10.1	9.1	-165.09	68.8	74.2	266.1	246.8	19.37	13.739	
3,200.0	3,154.8	3,189.8	3,181.6	10.5	9.5	-165.78	70.0	84.4	283.3	263.1	20.15	14.058	
3,300.0	3,250.9	3,288.2	3,279.5	10.9	9.8	-166.39	71.3	94.6	300.5	279.5	20.94	14.348	
3,400.0	3,347.0	3,386.7	3,377.5	11.4	10.2	-166.94	72.5	104.8	317.7	295.9	21.74	14.612	
3,500.0	3,443.2	3,485.2	3,475.4	11.8	10.5	-167.43	73.8	115.0	334.9	312.4	22.55	14.853	
3,600.0	3,539.3	3,583.6	3,573.3	12.3	10.9	-167.88	75.1	125.3	352.2	328.8	23.36	15.073	
3,700.0	3,635.4	3,682.1	3,671.2	12.7	11.2	-168.28	76.3	135.5	369.4	345.3	24.19	15.275	
3,800.0	3,731.5	3,780.6	3,769.2	13.2	11.6	-168.64	77.6	145.7	386.7	361.7	25.01	15.461	
3,900.0	3,827.7	3,879.0	3,867.1	13.6	12.0	-168.98	78.8	155.9	404.0	378.2	25.85	15.632	
4,000.0	3,923.8	3,977.5	3,965.0	14.1	12.3	-169.28	80.1	166.1	421.4	394.7	26.68	15.791	
4,100.0	4,019.9	4,076.0	4,062.9	14.6	12.7	-169.57	81.3	176.3	438.7	411.2	27.53	15.937	
4,200.0	4,116.0	4,170.6	4,157.1	15.0	13.1	-169.83	82.5	185.9	456.2	427.9	28.33	16.105	
4,300.0	4,212.2	4,261.7	4,247.8	15.5	13.4	-170.10	83.5	193.9	475.2	446.0	29.11	16.322	
4,400.0	4,308.3	4,352.2	4,338.1	16.0	13.7	-170.40	84.3	200.4	495.6	465.7	29.88	16.586	
4,500.0	4,404.4	4,442.0	4,427.8	16.4	14.0	-170.72	84.9	205.4	517.5	486.9	30.63	16.897	
4,600.0	4,500.5	4,531.2	4,516.9	16.9	14.3	-171.05	85.3	209.1	540.9	509.6	31.35	17.254	
4,700.0	4,596.7	4,619.7	4,605.4	17.4	14.5	-171.39	85.6	211.3	565.8	533.8	32.04	17.658	
4,800.0	4,692.8	4,707.5	4,693.2	17.9	14.7	-171.73	85.7	212.2	592.1	559.5	32.68	18.118	
4,900.0	4,788.9	4,802.3	4,787.9	18.4	14.8	-172.09	85.7	212.2	619.4	586.2	33.25	18.628	
5,000.0	4,885.0	4,898.4	4,884.0	18.8	14.8	-172.42	85.7	212.2	646.8	612.9	33.84	19.111	
5,100.0	4,981.2	4,994.5	4,980.2	19.3	14.9	-172.73	85.7	212.2	674.1	639.7	34.43	19.577	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.0	5,077.3	5,090.7	5,076.3	19.8	14.9	-173.02	85.7	212.2	701.5	666.5	35.03	20.025		
5,300.0	5,173.4	5,186.8	5,172.4	20.3	15.0	-173.28	85.7	212.2	728.9	693.2	35.63	20.457		
5,400.0	5,269.6	5,282.9	5,268.6	20.8	15.0	-173.53	85.7	212.2	756.3	720.0	36.23	20.872		
5,500.0	5,365.7	5,379.0	5,364.7	21.3	15.1	-173.75	85.7	212.2	783.7	746.8	36.84	21.273		
5,600.0	5,461.8	5,475.2	5,460.8	21.8	15.1	-173.96	85.7	212.2	811.1	773.6	37.45	21.659		
5,700.0	5,557.9	5,571.3	5,556.9	22.3	15.2	-174.16	85.7	212.2	838.5	800.5	38.06	22.031		
5,800.0	5,654.1	5,667.4	5,653.1	22.7	15.2	-174.35	85.7	212.2	865.9	827.3	38.68	22.390		
5,900.0	5,750.2	5,763.5	5,749.2	23.2	15.3	-174.52	85.7	212.2	893.4	854.1	39.29	22.735		
6,000.0	5,846.3	5,859.7	5,845.3	23.7	15.3	-174.69	85.7	212.2	920.8	880.9	39.92	23.069		
6,100.0	5,942.4	5,955.8	5,941.4	24.2	15.4	-174.84	85.7	212.2	948.3	907.8	40.54	23.391		
6,200.0	6,038.6	6,051.9	6,037.6	24.7	15.5	-174.99	85.7	212.2	975.8	934.6	41.17	23.702		

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	-56.18	33.7	-50.2	60.5	53.5	6.98	8.665	
100.0	100.0	100.0	100.0	3.1	3.1	-56.18	33.7	-50.2	60.5	53.3	7.23	8.371	
200.0	200.0	200.0	200.0	3.2	3.2	-56.18	33.7	-50.2	60.5	53.0	7.46	8.104	
300.0	300.0	300.0	300.0	3.4	3.4	-56.18	33.7	-50.2	60.5	52.8	7.70	7.860	
400.0	400.0	400.0	400.0	3.5	3.5	-56.18	33.7	-50.2	60.5	52.6	7.92	7.636	
500.0	500.0	500.0	500.0	3.6	3.6	-56.18	33.7	-50.2	60.5	52.3	8.14	7.429	
600.0	600.0	600.0	600.0	3.7	3.7	-56.18	33.7	-50.2	60.5	52.1	8.36	7.237	
700.0	700.0	700.0	700.0	3.9	3.9	-56.18	33.7	-50.2	60.5	51.9	8.57	7.058	
800.0	800.0	800.0	800.0	4.0	4.0	-56.18	33.7	-50.2	60.5	51.7	8.78	6.890	
900.0	900.0	900.0	900.0	4.1	4.1	-56.18	33.7	-50.2	60.5	51.5	8.98	6.733	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.18	33.7	-50.2	60.5	51.3	9.18	6.586	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.18	33.7	-50.2	60.5	51.1	9.38	6.447	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	-56.18	33.7	-50.2	60.5	50.9	9.58	6.315	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-56.18	33.7	-50.2	60.5	50.7	9.77	6.190	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-56.18	33.7	-50.2	60.5	50.5	9.96	6.072	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.18	33.7	-50.2	60.5	50.3	10.15	5.960 CC	
1,600.0	1,600.0	1,601.7	1,601.7	4.9	4.9	-145.06	33.8	-48.5	60.5	50.4	10.12	5.980	
1,700.0	1,699.8	1,703.3	1,703.2	5.1	5.1	-144.73	34.3	-43.1	60.7	50.1	10.57	5.740	
1,800.0	1,799.5	1,805.0	1,804.4	5.3	5.3	-144.18	35.1	-34.1	60.9	49.9	11.03	5.524	
1,900.0	1,898.7	1,906.7	1,905.3	5.6	5.6	-143.41	36.2	-21.5	61.3	49.8	11.51	5.329 ES	
2,000.0	1,997.5	2,008.2	2,005.5	5.9	5.9	-142.45	37.6	-5.5	61.8	49.8	11.99	5.155	
2,100.0	2,095.6	2,108.1	2,104.0	6.3	6.2	-142.54	39.1	11.8	64.0	51.5	12.49	5.122 SF	
2,200.0	2,193.1	2,208.0	2,202.3	6.6	6.5	-144.35	40.6	29.1	68.9	55.9	13.06	5.277	
2,300.0	2,289.6	2,307.6	2,300.4	7.0	6.8	-147.33	42.1	46.3	76.9	63.1	13.72	5.602	
2,400.0	2,385.8	2,407.0	2,398.3	7.3	7.1	-150.41	43.6	63.5	86.5	72.1	14.39	6.011	
2,500.0	2,481.9	2,506.5	2,496.2	7.7	7.4	-152.86	45.1	80.7	96.3	81.2	15.09	6.384	
2,600.0	2,578.0	2,605.9	2,594.2	8.0	7.8	-154.86	46.6	97.9	106.3	90.5	15.81	6.721	
2,700.0	2,674.1	2,705.4	2,692.1	8.4	8.1	-156.52	48.1	115.1	116.3	99.8	16.56	7.025	
2,800.0	2,770.3	2,804.8	2,790.0	8.8	8.5	-157.91	49.6	132.3	126.5	109.2	17.33	7.299	
2,900.0	2,866.4	2,904.2	2,888.0	9.2	8.9	-159.09	51.1	149.5	136.7	118.6	18.12	7.545	
3,000.0	2,962.5	3,003.7	2,985.9	9.6	9.3	-160.11	52.7	166.7	147.0	128.0	18.92	7.767	
3,100.0	3,058.7	3,103.1	3,083.8	10.1	9.6	-160.99	54.2	183.9	157.3	137.5	19.74	7.967	
3,200.0	3,154.8	3,202.6	3,181.7	10.5	10.0	-161.77	55.7	201.1	167.6	147.0	20.57	8.148	
3,300.0	3,250.9	3,302.0	3,279.7	10.9	10.4	-162.46	57.2	218.3	178.0	156.5	21.41	8.312	
3,400.0	3,347.0	3,401.4	3,377.6	11.4	10.8	-163.07	58.7	235.5	188.3	166.1	22.26	8.460	
3,500.0	3,443.2	3,500.9	3,475.5	11.8	11.2	-163.62	60.2	252.7	198.7	175.6	23.12	8.596	
3,600.0	3,539.3	3,600.3	3,573.5	12.3	11.7	-164.11	61.7	269.9	209.2	185.2	23.99	8.720	
3,700.0	3,635.4	3,699.8	3,671.4	12.7	12.1	-164.55	63.2	287.1	219.6	194.7	24.86	8.833	
3,800.0	3,731.5	3,799.2	3,769.3	13.2	12.5	-164.96	64.7	304.3	230.0	204.3	25.74	8.937	
3,900.0	3,827.7	3,898.6	3,867.3	13.6	12.9	-165.33	66.2	321.5	240.5	213.9	26.63	9.032	
4,000.0	3,923.8	3,998.1	3,965.2	14.1	13.3	-165.67	67.7	338.7	251.0	223.4	27.52	9.120	
4,100.0	4,019.9	4,097.5	4,063.1	14.6	13.7	-165.98	69.2	356.0	261.4	233.0	28.41	9.201	
4,200.0	4,116.0	4,197.0	4,161.0	15.0	14.2	-166.27	70.7	373.2	271.9	242.6	29.31	9.277	
4,300.0	4,212.2	4,296.4	4,259.0	15.5	14.6	-166.53	72.2	390.4	282.4	252.2	30.21	9.346	
4,400.0	4,308.3	4,395.8	4,356.9	16.0	15.0	-166.78	73.7	407.6	292.9	261.8	31.12	9.411	
4,500.0	4,404.4	4,495.3	4,454.8	16.4	15.5	-167.01	75.2	424.8	303.4	271.3	32.03	9.472	
4,600.0	4,500.5	4,594.7	4,552.8	16.9	15.9	-167.23	76.7	442.0	313.9	280.9	32.94	9.528	
4,700.0	4,596.7	4,692.6	4,649.2	17.4	16.3	-167.43	78.2	458.7	324.5	290.7	33.82	9.595	
4,800.0	4,692.8	4,789.3	4,744.5	17.9	16.7	-167.66	79.6	474.6	335.9	301.2	34.72	9.676	
4,900.0	4,788.9	4,885.7	4,839.8	18.4	17.1	-167.91	80.9	489.6	348.1	312.5	35.61	9.776	
5,000.0	4,885.0	4,982.0	4,935.0	18.8	17.5	-168.17	82.1	503.8	361.1	324.6	36.50	9.894	
5,100.0	4,981.2	5,078.0	5,030.1	19.3	17.9	-168.46	83.3	517.1	375.0	337.6	37.39	10.030	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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		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	5,173.9	5,125.1	19.8	18.3	-168.75	84.4	529.7	389.6	351.3	38.26	10.181	
5,300.0	5,173.4	5,269.4	5,220.0	20.3	18.7	-169.05	85.4	541.4	405.0	365.9	39.14	10.349	
5,400.0	5,269.6	5,364.8	5,314.7	20.8	19.1	-169.36	86.4	552.3	421.3	381.3	40.00	10.531	
5,500.0	5,365.7	5,459.8	5,409.2	21.3	19.5	-169.66	87.3	562.3	438.3	397.5	40.86	10.727	
5,600.0	5,461.8	5,554.6	5,503.5	21.8	19.8	-169.97	88.1	571.6	456.2	414.5	41.71	10.937	
5,700.0	5,557.9	5,649.1	5,597.6	22.3	20.2	-170.28	88.8	580.1	474.8	432.3	42.55	11.160	
5,800.0	5,654.1	5,743.2	5,691.5	22.7	20.6	-170.59	89.5	587.8	494.3	450.9	43.38	11.395	
5,900.0	5,750.2	5,837.1	5,785.1	23.2	20.9	-170.89	90.1	594.6	514.5	470.4	44.20	11.643	
6,000.0	5,846.3	5,930.7	5,878.4	23.7	21.2	-171.19	90.6	600.7	535.6	490.6	45.00	11.902	
6,100.0	5,942.4	6,023.9	5,971.4	24.2	21.6	-171.48	91.1	606.1	557.4	511.6	45.79	12.173	
6,200.0	6,038.6	6,116.7	6,064.2	24.7	21.9	-171.77	91.5	610.6	580.1	533.5	46.57	12.455	
6,300.0	6,134.7	6,209.2	6,156.6	25.2	22.2	-172.05	91.8	614.4	603.5	556.1	47.34	12.749	
6,400.0	6,230.8	6,300.0	6,247.3	25.7	22.5	-172.32	92.1	617.4	627.7	579.6	48.06	13.059	
6,500.0	6,326.9	6,393.1	6,340.4	26.2	22.7	-172.59	92.3	619.7	652.6	603.8	48.81	13.372	
6,600.0	6,423.1	6,484.5	6,431.8	26.7	23.0	-172.84	92.4	621.3	678.4	628.9	49.51	13.702	
6,700.0	6,519.2	6,575.5	6,522.8	27.2	23.2	-173.09	92.5	622.1	704.9	654.7	50.17	14.049	
6,730.0	6,548.0	6,602.6	6,550.0	27.3	23.2	-173.17	92.5	622.2	713.0	662.6	50.36	14.157	
6,800.0	6,615.5	6,668.2	6,615.5	27.7	23.3	-173.38	92.5	622.3	731.3	680.5	50.74	14.411	
6,900.0	6,712.7	6,765.4	6,712.7	28.2	23.3	-173.64	92.5	622.3	754.7	703.3	51.32	14.706	
7,000.0	6,810.7	6,863.4	6,810.7	28.6	23.3	-173.85	92.5	622.3	774.7	722.8	51.88	14.932	
7,100.0	6,909.3	6,962.0	6,909.3	29.1	23.4	-174.01	92.5	622.3	791.2	738.8	52.42	15.094	
7,200.0	7,008.4	7,061.1	7,008.4	29.6	23.4	-174.14	92.5	622.3	804.4	751.5	52.94	15.195	
7,300.0	7,107.9	7,160.6	7,107.9	30.0	23.4	-174.23	92.5	622.3	814.1	760.7	53.42	15.239	
7,400.0	7,207.7	7,260.4	7,207.7	30.3	23.5	-174.28	92.5	622.3	820.3	766.5	53.86	15.231	
7,500.0	7,307.7	7,360.4	7,307.7	30.6	23.5	-174.31	92.5	622.3	823.1	768.9	54.22	15.180	
7,530.0	7,337.6	7,390.3	7,337.6	30.7	23.5	-85.31	92.5	622.3	823.3	769.0	54.27	15.170	
7,600.0	7,407.7	7,460.4	7,407.7	30.7	23.5	-85.31	92.5	622.3	823.3	769.0	54.30	15.161	
7,700.0	7,507.7	7,560.4	7,507.7	30.7	23.6	-85.31	92.5	622.3	823.3	768.9	54.36	15.145	
7,800.0	7,607.7	7,660.4	7,607.7	30.7	23.6	-85.31	92.5	622.3	823.3	768.9	54.42	15.129	
7,900.0	7,707.7	7,760.4	7,707.7	30.8	23.6	-85.31	92.5	622.3	823.3	768.8	54.47	15.113	
8,000.0	7,807.7	7,860.4	7,807.7	30.8	23.7	-85.31	92.5	622.3	823.3	768.7	54.53	15.097	
8,100.0	7,907.7	7,960.4	7,907.7	30.8	23.7	-85.31	92.5	622.3	823.3	768.7	54.59	15.081	
8,200.0	8,007.7	8,060.4	8,007.7	30.8	23.8	-85.31	92.5	622.3	823.3	768.6	54.65	15.065	
8,300.0	8,107.7	8,160.4	8,107.7	30.9	23.8	-85.31	92.5	622.3	823.3	768.6	54.71	15.048	
8,400.0	8,207.7	8,260.4	8,207.7	30.9	23.8	-85.31	92.5	622.3	823.3	768.5	54.77	15.032	
8,500.0	8,307.7	8,360.4	8,307.7	30.9	23.9	-85.31	92.5	622.3	823.3	768.4	54.83	15.015	
8,600.0	8,407.7	8,460.4	8,407.7	30.9	23.9	-85.31	92.5	622.3	823.3	768.4	54.89	14.999	
8,700.0	8,507.7	8,560.4	8,507.7	31.0	23.9	-85.31	92.5	622.3	823.3	768.3	54.95	14.982	
8,800.0	8,607.7	8,660.4	8,607.7	31.0	24.0	-85.31	92.5	622.3	823.3	768.3	55.01	14.966	
8,900.0	8,707.7	8,760.4	8,707.7	31.0	24.0	-85.31	92.5	622.3	823.3	768.2	55.07	14.949	
9,000.0	8,807.7	8,860.4	8,807.7	31.0	24.0	-85.31	92.5	622.3	823.3	768.1	55.13	14.932	
9,100.0	8,907.7	8,960.4	8,907.7	31.1	24.1	-85.31	92.5	622.3	823.3	768.1	55.20	14.915	
9,200.0	9,007.7	9,060.4	9,007.7	31.1	24.1	-85.31	92.5	622.3	823.3	768.0	55.26	14.898	
9,300.0	9,107.7	9,160.4	9,107.7	31.1	24.2	-85.31	92.5	622.3	823.3	768.0	55.32	14.881	
9,400.0	9,207.7	9,260.4	9,207.7	31.1	24.2	-85.31	92.5	622.3	823.3	767.9	55.39	14.864	
9,500.0	9,307.7	9,360.4	9,307.7	31.2	24.2	-85.31	92.5	622.3	823.3	767.8	55.45	14.847	
9,600.0	9,407.7	9,460.4	9,407.7	31.2	24.3	-85.31	92.5	622.3	823.3	767.8	55.52	14.830	
9,700.0	9,507.7	9,560.4	9,507.7	31.2	24.3	-85.31	92.5	622.3	823.3	767.7	55.58	14.812	
9,800.0	9,607.7	9,660.4	9,607.7	31.3	24.4	-85.31	92.5	622.3	823.3	767.6	55.65	14.795	
9,900.0	9,707.7	9,760.4	9,707.7	31.3	24.4	-85.31	92.5	622.3	823.3	767.6	55.71	14.777	
10,000.0	9,807.7	9,860.4	9,807.7	31.3	24.4	-85.31	92.5	622.3	823.3	767.5	55.78	14.760	
10,100.0	9,907.7	9,960.4	9,907.7	31.3	24.5	-85.31	92.5	622.3	823.3	767.4	55.84	14.742	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
10,200.0	10,007.7	10,060.4	10,007.7	31.4	24.5	-85.31	92.5	622.3	823.3	767.4	55.91	14.725	
10,300.0	10,107.7	10,160.4	10,107.7	31.4	24.6	-85.31	92.5	622.3	823.3	767.3	55.98	14.707	
10,400.0	10,207.7	10,260.4	10,207.7	31.4	24.6	-85.31	92.5	622.3	823.3	767.2	56.05	14.689	
10,500.0	10,307.7	10,360.4	10,307.7	31.5	24.6	-85.31	92.5	622.3	823.3	767.2	56.11	14.672	
10,600.0	10,407.7	10,460.4	10,407.7	31.5	24.7	-85.31	92.5	622.3	823.3	767.1	56.18	14.654	
10,700.0	10,507.7	10,560.4	10,507.7	31.5	24.7	-85.31	92.5	622.3	823.3	767.0	56.25	14.636	
10,800.0	10,607.7	10,660.4	10,607.7	31.6	24.8	-85.31	92.5	622.3	823.3	767.0	56.32	14.618	
10,900.0	10,707.7	10,760.4	10,707.7	31.6	24.8	-85.31	92.5	622.3	823.3	766.9	56.39	14.600	
11,000.0	10,807.7	10,860.4	10,807.7	31.6	24.8	-85.31	92.5	622.3	823.3	766.8	56.46	14.582	
11,100.0	10,907.7	10,960.4	10,907.7	31.6	24.9	-85.31	92.5	622.3	823.3	766.7	56.53	14.564	
11,200.0	11,007.7	11,060.4	11,007.7	31.7	24.9	-85.31	92.5	622.3	823.3	766.7	56.60	14.547	
11,300.0	11,107.7	11,160.4	11,107.7	31.7	25.0	-85.31	92.5	622.3	823.3	766.6	56.66	14.530	
11,400.0	11,207.7	11,260.4	11,207.7	31.7	25.0	-85.31	92.5	622.3	823.3	766.6	56.72	14.514	
11,436.2	11,243.9	11,296.6	11,243.9	31.7	25.0	-85.31	92.5	622.3	823.3	766.5	56.74	14.510	
11,454.9	11,262.5	11,315.1	11,262.4	31.7	25.0	-85.31	92.5	622.3	823.3	766.6	56.66	14.531	
11,475.0	11,282.7	11,332.5	11,279.8	31.7	25.0	-84.79	92.9	622.3	823.3	766.8	56.50	14.571	
11,500.0	11,307.6	11,354.1	11,301.4	31.7	25.0	-84.80	94.2	622.3	823.3	766.8	56.47	14.579	
11,525.0	11,332.4	11,375.0	11,322.1	31.7	25.0	-84.83	96.4	622.2	823.2	766.8	56.43	14.587	
11,550.0	11,357.0	11,397.4	11,344.3	31.7	25.0	-84.86	99.7	622.2	823.2	766.8	56.42	14.591	
11,575.0	11,381.4	11,419.1	11,365.5	31.7	25.0	-84.91	104.0	622.2	823.1	766.7	56.39	14.596	
11,600.0	11,405.5	11,440.7	11,386.6	31.7	25.0	-84.98	109.2	622.1	823.0	766.7	56.37	14.599	
11,625.0	11,429.1	11,462.5	11,407.4	31.7	25.0	-85.05	115.3	622.1	822.9	766.6	56.36	14.602	
11,650.0	11,452.3	11,484.2	11,428.0	31.7	25.0	-85.14	122.4	622.0	822.8	766.5	56.35	14.603	
11,675.0	11,475.0	11,506.0	11,448.2	31.7	25.1	-85.24	130.5	621.9	822.7	766.4	56.34	14.603	
11,700.0	11,497.0	11,527.9	11,468.1	31.7	25.1	-85.35	139.5	621.9	822.6	766.3	56.33	14.602	
11,725.0	11,518.5	11,550.0	11,487.8	31.7	25.1	-85.47	149.5	621.8	822.5	766.1	56.34	14.599	
11,750.0	11,539.2	11,571.8	11,506.8	31.7	25.1	-85.60	160.3	621.7	822.3	766.0	56.34	14.596	
11,775.0	11,559.2	11,593.8	11,525.4	31.7	25.1	-85.75	172.0	621.6	822.1	765.8	56.35	14.591	
11,800.0	11,578.4	11,615.9	11,543.5	31.7	25.1	-85.90	184.7	621.4	822.0	765.6	56.36	14.585	
11,825.0	11,596.7	11,638.1	11,561.1	31.8	25.1	-86.07	198.2	621.3	821.8	765.4	56.38	14.577	
11,850.0	11,614.1	11,660.4	11,578.2	31.8	25.1	-86.24	212.6	621.2	821.7	765.3	56.40	14.568	
11,875.0	11,630.5	11,682.8	11,594.6	31.8	25.1	-86.42	227.8	621.0	821.5	765.1	56.43	14.559	
11,900.0	11,645.9	11,705.3	11,610.3	31.8	25.1	-86.62	243.9	620.9	821.3	764.9	56.46	14.548	
11,925.0	11,660.3	11,727.9	11,625.3	31.8	25.1	-86.82	260.7	620.7	821.2	764.7	56.49	14.535	
11,950.0	11,673.6	11,750.0	11,639.3	31.8	25.1	-87.02	277.9	620.6	821.0	764.5	56.53	14.523	
11,975.0	11,685.7	11,773.4	11,653.1	31.8	25.1	-87.25	296.8	620.4	820.8	764.3	56.58	14.508	
12,000.0	11,696.7	11,796.4	11,665.8	31.8	25.1	-87.47	315.9	620.2	820.7	764.1	56.63	14.492	
12,025.0	11,706.5	11,819.5	11,677.6	31.8	25.1	-87.70	335.8	620.1	820.5	763.9	56.68	14.476	
12,050.0	11,715.1	11,842.7	11,688.5	31.8	25.1	-87.94	356.3	619.9	820.4	763.7	56.74	14.459	
12,075.0	11,722.4	11,866.1	11,698.5	31.8	25.2	-88.19	377.4	619.7	820.3	763.5	56.81	14.440	
12,100.0	11,728.5	11,889.6	11,707.4	31.9	25.2	-88.44	399.2	619.5	820.2	763.3	56.87	14.421	
12,125.0	11,733.3	11,913.3	11,715.3	31.9	25.2	-88.69	421.5	619.3	820.1	763.1	56.94	14.402	
12,150.0	11,736.9	11,937.2	11,722.2	31.9	25.2	-88.95	444.4	619.1	820.0	763.0	57.02	14.381	
12,175.0	11,739.1	11,961.2	11,727.9	31.9	25.2	-89.21	467.7	618.8	820.0	762.9	57.10	14.361	
12,200.0	11,740.0	11,985.4	11,732.5	31.9	25.2	-89.48	491.5	618.6	819.9	762.7	57.18	14.339	
12,204.9	11,740.0	11,990.2	11,733.3	31.9	25.2	-89.53	496.2	618.6	819.9	762.7	57.20	14.335	
12,273.6	11,740.0	12,058.1	11,739.0	32.0	25.3	-89.93	563.9	618.0	819.9	762.5	57.39	14.285	
12,300.0	11,740.0	12,084.5	11,739.0	32.0	25.3	-89.93	590.3	617.7	819.9	762.4	57.45	14.271	
12,400.0	11,740.0	12,184.5	11,739.0	32.2	25.5	-89.93	690.3	616.8	819.9	762.2	57.70	14.209	
12,500.0	11,740.0	12,284.5	11,739.0	32.3	25.6	-89.93	790.3	615.9	819.9	761.9	57.99	14.137	
12,600.0	11,740.0	12,384.5	11,739.0	32.5	25.8	-89.93	890.2	615.0	819.9	761.6	58.32	14.057	
12,700.0	11,740.0	12,484.5	11,739.0	32.6	26.0	-89.93	990.2	614.1	819.9	761.2	58.69	13.970	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,800.0	11,740.0	12,584.5	11,739.0	32.8	26.2	-89.93	1,090.2	613.1	819.9	760.8	59.09	13.875	
12,900.0	11,740.0	12,684.5	11,739.0	33.0	26.5	-89.93	1,190.2	612.2	819.9	760.4	59.53	13.772	
13,000.0	11,740.0	12,784.5	11,739.0	33.3	26.7	-89.93	1,290.2	611.3	819.9	759.9	60.00	13.664	
13,100.0	11,740.0	12,884.5	11,739.0	33.5	27.0	-89.93	1,390.2	610.4	819.9	759.4	60.51	13.549	
13,200.0	11,740.0	12,984.5	11,739.0	33.8	27.3	-89.93	1,490.2	609.5	819.9	758.8	61.05	13.429	
13,300.0	11,740.0	13,084.5	11,739.0	34.0	27.6	-89.93	1,590.2	608.6	819.9	758.3	61.63	13.304	
13,400.0	11,740.0	13,184.5	11,739.0	34.3	28.0	-89.93	1,690.2	607.7	819.9	757.7	62.23	13.175	
13,500.0	11,740.0	13,284.5	11,739.0	34.6	28.3	-89.93	1,790.2	606.7	819.9	757.0	62.87	13.042	
13,600.0	11,740.0	13,384.5	11,739.0	35.0	28.7	-89.93	1,890.2	605.8	819.9	756.4	63.53	12.906	
13,700.0	11,740.0	13,484.5	11,739.0	35.3	29.1	-89.93	1,990.2	604.9	819.9	755.7	64.22	12.766	
13,800.0	11,740.0	13,584.5	11,739.0	35.6	29.5	-89.93	2,090.2	604.0	819.9	755.0	64.95	12.624	
13,900.0	11,740.0	13,684.5	11,739.0	36.0	29.9	-89.93	2,190.2	603.1	819.9	754.2	65.69	12.481	
14,000.0	11,740.0	13,784.5	11,739.0	36.4	30.3	-89.93	2,290.2	602.2	819.9	753.4	66.47	12.335	
14,100.0	11,740.0	13,884.5	11,739.0	36.8	30.8	-89.93	2,390.2	601.2	819.9	752.6	67.27	12.189	
14,200.0	11,740.0	13,984.5	11,739.0	37.2	31.2	-89.93	2,490.2	600.3	819.9	751.8	68.09	12.042	
14,300.0	11,740.0	14,084.5	11,739.0	37.6	31.7	-89.93	2,590.2	599.4	819.9	751.0	68.94	11.894	
14,400.0	11,740.0	14,184.5	11,739.0	38.0	32.2	-89.93	2,690.2	598.5	819.9	750.1	69.81	11.746	
14,500.0	11,740.0	14,284.5	11,739.0	38.4	32.7	-89.93	2,790.2	597.6	819.9	749.2	70.70	11.598	
14,600.0	11,740.0	14,384.5	11,739.0	38.8	33.2	-89.93	2,890.2	596.7	819.9	748.3	71.61	11.450	
14,700.0	11,740.0	14,484.5	11,739.0	39.3	33.7	-89.93	2,990.2	595.8	819.9	747.4	72.54	11.303	
14,800.0	11,740.0	14,584.5	11,739.0	39.8	34.2	-89.93	3,090.2	594.8	819.9	746.4	73.49	11.157	
14,900.0	11,740.0	14,684.5	11,739.0	40.2	34.7	-89.93	3,190.2	593.9	819.9	745.5	74.46	11.012	
15,000.0	11,740.0	14,784.5	11,739.0	40.7	35.3	-89.93	3,290.1	593.0	819.9	744.5	75.44	10.868	
15,100.0	11,740.0	14,884.5	11,739.0	41.2	35.8	-89.93	3,390.1	592.1	819.9	743.5	76.45	10.725	
15,200.0	11,740.0	14,984.5	11,739.0	41.7	36.4	-89.93	3,490.1	591.2	819.9	742.5	77.47	10.584	
15,300.0	11,740.0	15,084.5	11,739.0	42.2	36.9	-89.93	3,590.1	590.3	819.9	741.4	78.50	10.444	
15,400.0	11,740.0	15,184.5	11,739.0	42.7	37.5	-89.93	3,690.1	589.3	819.9	740.4	79.56	10.306	
15,500.0	11,740.0	15,284.5	11,739.0	43.2	38.1	-89.93	3,790.1	588.4	819.9	739.3	80.62	10.170	
15,600.0	11,740.0	15,384.5	11,739.0	43.7	38.7	-89.93	3,890.1	587.5	819.9	738.2	81.70	10.036	
15,700.0	11,740.0	15,484.5	11,739.0	44.3	39.2	-89.93	3,990.1	586.6	819.9	737.1	82.79	9.903	
15,800.0	11,740.0	15,584.5	11,739.0	44.8	39.8	-89.93	4,090.1	585.7	819.9	736.0	83.90	9.773	
15,900.0	11,740.0	15,684.5	11,739.0	45.3	40.4	-89.93	4,190.1	584.8	819.9	734.9	85.02	9.644	
16,000.0	11,740.0	15,784.5	11,739.0	45.9	41.0	-89.93	4,290.1	583.9	819.9	733.8	86.15	9.518	
16,100.0	11,740.0	15,884.5	11,739.0	46.4	41.6	-89.93	4,390.1	582.9	819.9	732.6	87.29	9.393	
16,200.0	11,740.0	15,984.5	11,739.0	47.0	42.3	-89.93	4,490.1	582.0	819.9	731.5	88.44	9.271	
16,300.0	11,740.0	16,084.5	11,739.0	47.6	42.9	-89.93	4,590.1	581.1	819.9	730.3	89.61	9.151	
16,400.0	11,740.0	16,184.5	11,739.0	48.1	43.5	-89.93	4,690.1	580.2	819.9	729.2	90.78	9.032	
16,500.0	11,740.0	16,284.5	11,739.0	48.7	44.1	-89.93	4,790.1	579.3	819.9	728.0	91.96	8.916	
16,600.0	11,740.0	16,384.5	11,739.0	49.3	44.8	-89.93	4,890.1	578.4	819.9	726.8	93.15	8.802	
16,700.0	11,740.0	16,484.5	11,739.0	49.9	45.4	-89.93	4,990.1	577.4	819.9	725.6	94.36	8.690	
16,800.0	11,740.0	16,584.5	11,739.0	50.5	46.0	-89.93	5,090.1	576.5	820.0	724.4	95.57	8.580	
16,900.0	11,740.0	16,684.5	11,739.0	51.1	46.7	-89.93	5,190.1	575.6	820.0	723.2	96.79	8.472	
17,000.0	11,740.0	16,784.5	11,739.0	51.7	47.3	-89.93	5,290.1	574.7	820.0	721.9	98.01	8.366	
17,100.0	11,740.0	16,884.5	11,739.0	52.3	48.0	-89.93	5,390.1	573.8	820.0	720.7	99.25	8.262	
17,200.0	11,740.0	16,984.5	11,739.0	52.9	48.6	-89.93	5,490.1	572.9	820.0	719.5	100.49	8.160	
17,300.0	11,740.0	17,084.5	11,739.0	53.5	49.3	-89.93	5,590.1	572.0	820.0	718.2	101.74	8.060	
17,400.0	11,740.0	17,184.5	11,739.0	54.1	50.0	-89.93	5,690.0	571.0	820.0	717.0	102.99	7.961	
17,500.0	11,740.0	17,284.5	11,739.0	54.7	50.6	-89.93	5,790.0	570.1	820.0	715.7	104.26	7.865	
17,600.0	11,740.0	17,384.5	11,739.0	55.3	51.3	-89.93	5,890.0	569.2	820.0	714.4	105.53	7.770	
17,700.0	11,740.0	17,484.5	11,739.0	56.0	52.0	-89.93	5,990.0	568.3	820.0	713.2	106.80	7.678	
17,800.0	11,740.0	17,584.5	11,739.0	56.6	52.6	-89.93	6,090.0	567.4	820.0	711.9	108.08	7.587	
17,900.0	11,740.0	17,684.5	11,739.0	57.2	53.3	-89.93	6,190.0	566.5	820.0	710.6	109.37	7.497	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning	
18,000.0	11,740.0	17,784.5	11,739.0	57.9	54.0	-89.93	6,290.0	565.5	820.0	709.3	110.66		
18,100.0	11,740.0	17,884.5	11,739.0	58.5	54.7	-89.93	6,390.0	564.6	820.0	708.0	111.96		
18,200.0	11,740.0	17,984.5	11,739.0	59.2	55.3	-89.93	6,490.0	563.7	820.0	706.7	113.26		
18,300.0	11,740.0	18,084.5	11,739.0	59.8	56.0	-89.93	6,590.0	562.8	820.0	705.4	114.57		
18,400.0	11,740.0	18,184.5	11,739.0	60.4	56.7	-89.93	6,690.0	561.9	820.0	704.1	115.88		
18,500.0	11,740.0	18,284.5	11,739.0	61.1	57.4	-89.93	6,790.0	561.0	820.0	702.8	117.20		
18,600.0	11,740.0	18,384.5	11,739.0	61.7	58.1	-89.93	6,890.0	560.1	820.0	701.5	118.52		
18,700.0	11,740.0	18,484.5	11,739.0	62.4	58.8	-89.93	6,990.0	559.1	820.0	700.1	119.85		
18,800.0	11,740.0	18,584.5	11,739.0	63.1	59.5	-89.93	7,090.0	558.2	820.0	698.8	121.18		
18,900.0	11,740.0	18,684.5	11,739.0	63.7	60.2	-89.93	7,190.0	557.3	820.0	697.5	122.52		
19,000.0	11,740.0	18,784.5	11,739.0	64.4	60.8	-89.93	7,290.0	556.4	820.0	696.1	123.86		
19,100.0	11,740.0	18,884.5	11,739.0	65.0	61.5	-89.93	7,390.0	555.5	820.0	694.8	125.20		
19,200.0	11,740.0	18,984.5	11,739.0	65.7	62.2	-89.93	7,490.0	554.6	820.0	693.4	126.54		
19,300.0	11,740.0	19,084.5	11,739.0	66.4	62.9	-89.93	7,590.0	553.6	820.0	692.1	127.89		
19,400.0	11,740.0	19,184.5	11,739.0	67.1	63.6	-89.93	7,690.0	552.7	820.0	690.7	129.25		
19,500.0	11,740.0	19,284.5	11,739.0	67.7	64.3	-89.93	7,790.0	551.8	820.0	689.4	130.60		
19,588.4	11,740.0	19,373.0	11,739.0	68.3	65.0	-89.93	7,878.4	551.0	820.0	688.2	131.81		
19,600.0	11,740.0	19,384.5	11,739.0	68.4	65.1	-89.93	7,890.0	550.9	820.0	688.0	131.96		
19,638.4	11,740.0	19,423.0	11,739.0	68.7	65.3	-89.93	7,928.4	550.6	820.0	687.5	132.48		

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	-55.96	16.9	-25.0	30.2	23.2	6.98	4.330		
100.0	100.0	100.0	100.0	3.1	3.1	-55.96	16.9	-25.0	30.2	23.0	7.23	4.183		
200.0	200.0	200.0	200.0	3.2	3.2	-55.96	16.9	-25.0	30.2	22.8	7.46	4.050		
300.0	300.0	300.0	300.0	3.4	3.4	-55.96	16.9	-25.0	30.2	22.5	7.70	3.928		
400.0	400.0	400.0	400.0	3.5	3.5	-55.96	16.9	-25.0	30.2	22.3	7.92	3.816		
500.0	500.0	500.0	500.0	3.6	3.6	-55.96	16.9	-25.0	30.2	22.1	8.14	3.712		
600.0	600.0	600.0	600.0	3.7	3.7	-55.96	16.9	-25.0	30.2	21.9	8.36	3.616		
700.0	700.0	700.0	700.0	3.9	3.9	-55.96	16.9	-25.0	30.2	21.7	8.57	3.527		
800.0	800.0	800.0	800.0	4.0	4.0	-55.96	16.9	-25.0	30.2	21.4	8.78	3.443		
900.0	900.0	900.0	900.0	4.1	4.1	-55.96	16.9	-25.0	30.2	21.2	8.98	3.365		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-55.96	16.9	-25.0	30.2	21.0	9.19	3.291		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-55.96	16.9	-25.0	30.2	20.8	9.38	3.221		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	-55.96	16.9	-25.0	30.2	20.6	9.58	3.155		
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-55.96	16.9	-25.0	30.2	20.5	9.77	3.093		
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-55.96	16.9	-25.0	30.2	20.3	9.96	3.034		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-55.96	16.9	-25.0	30.2	20.1	10.15	2.978 CC		
1,600.0	1,600.0	1,600.8	1,600.8	4.9	4.9	-144.85	17.0	-23.3	30.3	20.1	10.13	2.988		
1,700.0	1,699.8	1,701.7	1,701.5	5.1	5.1	-144.52	17.3	-18.0	30.3	19.7	10.58	2.867		
1,800.0	1,799.5	1,802.5	1,802.0	5.3	5.3	-143.97	17.8	-9.1	30.4	19.4	11.04	2.758		
1,900.0	1,898.7	1,903.4	1,902.1	5.6	5.6	-143.20	18.4	3.3	30.6	19.1	11.51	2.660		
2,000.0	1,997.5	2,004.2	2,001.6	5.9	5.9	-142.24	19.2	19.1	30.9	18.9	12.00	2.571		
2,100.0	2,095.6	2,105.1	2,100.6	6.3	6.3	-141.08	20.3	38.5	31.2	18.7	12.50	2.492		
2,200.0	2,193.1	2,205.8	2,198.7	6.6	6.6	-139.75	21.4	61.3	31.5	18.5	13.01	2.423 ES, SF		
2,300.0	2,289.6	2,305.8	2,295.7	7.0	7.0	-140.57	22.7	85.5	33.4	19.8	13.60	2.458		
2,400.0	2,385.8	2,405.7	2,392.7	7.3	7.3	-143.03	24.0	109.6	36.7	22.5	14.24	2.577		
2,500.0	2,481.9	2,505.7	2,489.6	7.7	7.6	-145.08	25.2	133.8	40.0	25.1	14.92	2.682		
2,600.0	2,578.0	2,605.6	2,586.6	8.0	8.0	-146.81	26.5	157.9	43.4	27.8	15.64	2.776		
2,700.0	2,674.1	2,705.5	2,683.6	8.4	8.4	-148.30	27.8	182.1	46.8	30.4	16.39	2.858		
2,800.0	2,770.3	2,805.5	2,780.5	8.8	8.8	-149.58	29.0	206.2	50.3	33.1	17.16	2.930		
2,900.0	2,866.4	2,905.4	2,877.5	9.2	9.1	-150.69	30.3	230.4	53.7	35.8	17.95	2.993		
3,000.0	2,962.5	3,005.3	2,974.5	9.6	9.6	-151.67	31.6	254.5	57.2	38.4	18.76	3.049		
3,100.0	3,058.7	3,105.3	3,071.4	10.1	10.0	-152.54	32.8	278.6	60.7	41.1	19.59	3.098		
3,200.0	3,154.8	3,205.2	3,168.4	10.5	10.4	-153.31	34.1	302.8	64.2	43.8	20.43	3.142		
3,300.0	3,250.9	3,305.2	3,265.4	10.9	10.8	-154.01	35.4	326.9	67.7	46.4	21.29	3.181		
3,400.0	3,347.0	3,405.1	3,362.3	11.4	11.2	-154.63	36.6	351.1	71.2	49.1	22.16	3.215		
3,500.0	3,443.2	3,505.0	3,459.3	11.8	11.7	-155.20	37.9	375.2	74.8	51.7	23.03	3.246		
3,600.0	3,539.3	3,605.0	3,556.3	12.3	12.1	-155.71	39.2	399.4	78.3	54.4	23.92	3.274		
3,700.0	3,635.4	3,704.9	3,653.2	12.7	12.6	-156.18	40.4	423.5	81.8	57.0	24.81	3.299		
3,800.0	3,731.5	3,804.8	3,750.2	13.2	13.0	-156.61	41.7	447.6	85.4	59.7	25.71	3.321		
3,900.0	3,827.7	3,904.8	3,847.2	13.6	13.5	-157.01	43.0	471.8	88.9	62.3	26.62	3.341		
4,000.0	3,923.8	4,004.7	3,944.1	14.1	13.9	-157.38	44.2	495.9	92.5	65.0	27.53	3.360		
4,100.0	4,019.9	4,104.6	4,041.1	14.6	14.4	-157.72	45.5	520.1	96.1	67.6	28.45	3.377		
4,200.0	4,116.0	4,204.6	4,138.1	15.0	14.8	-158.03	46.8	544.2	99.6	70.3	29.37	3.392		
4,300.0	4,212.2	4,304.5	4,235.0	15.5	15.3	-158.32	48.0	568.4	103.2	72.9	30.30	3.406		
4,400.0	4,308.3	4,404.4	4,332.0	16.0	15.7	-158.60	49.3	592.5	106.8	75.5	31.23	3.419		
4,500.0	4,404.4	4,504.4	4,429.0	16.4	16.2	-158.85	50.5	616.6	110.3	78.2	32.16	3.430		
4,600.0	4,500.5	4,604.3	4,525.9	16.9	16.7	-159.09	51.8	640.8	113.9	80.8	33.10	3.441		
4,700.0	4,596.7	4,704.2	4,622.9	17.4	17.1	-159.32	53.1	664.9	117.5	83.4	34.04	3.451		
4,800.0	4,692.8	4,804.2	4,719.9	17.9	17.6	-159.53	54.3	689.1	121.1	86.1	34.98	3.461		
4,900.0	4,788.9	4,904.1	4,816.8	18.4	18.1	-159.73	55.6	713.2	124.6	88.7	35.93	3.469		
5,000.0	4,885.0	5,004.0	4,913.8	18.8	18.6	-159.92	56.9	737.4	128.2	91.3	36.88	3.477		
5,100.0	4,981.2	5,104.0	5,010.8	19.3	19.0	-160.10	58.1	761.5	131.8	94.0	37.83	3.485		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11557-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				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	5,203.9	5,107.7	19.8	19.5	-160.27	59.4	785.6	135.4	96.6	38.78	3.492	
5,300.0	5,173.4	5,303.9	5,204.7	20.3	20.0	-160.43	60.7	809.8	139.0	99.2	39.73	3.498	
5,400.0	5,269.6	5,403.8	5,301.7	20.8	20.4	-160.58	61.9	833.9	142.6	101.9	40.68	3.504	
5,500.0	5,365.7	5,503.7	5,398.6	21.3	20.9	-160.72	63.2	858.1	146.1	104.5	41.64	3.510	
5,600.0	5,461.8	5,601.7	5,493.8	21.8	21.4	-160.93	64.4	881.2	150.3	107.7	42.59	3.528	
5,700.0	5,557.9	5,700.0	5,589.7	22.3	21.8	-161.35	65.5	902.8	156.0	112.4	43.57	3.579	
5,800.0	5,654.1	5,796.3	5,684.0	22.7	22.3	-161.93	66.6	922.4	163.2	118.7	44.55	3.664	
5,900.0	5,750.2	5,893.2	5,779.2	23.2	22.7	-162.65	67.5	940.4	172.1	126.6	45.54	3.780	
6,000.0	5,846.3	5,989.8	5,874.4	23.7	23.1	-163.46	68.4	956.9	182.7	136.1	46.52	3.927	
6,100.0	5,942.4	6,086.0	5,969.4	24.2	23.6	-164.33	69.2	971.6	194.8	147.3	47.49	4.102	
6,200.0	6,038.6	6,181.7	6,064.3	24.7	24.0	-165.22	69.8	984.7	208.6	160.1	48.43	4.306	
6,300.0	6,134.7	6,277.0	6,158.9	25.2	24.4	-166.11	70.4	996.2	224.0	174.6	49.35	4.538	
6,400.0	6,230.8	6,371.8	6,253.1	25.7	24.7	-166.99	71.0	1,006.0	241.0	190.8	50.24	4.797	
6,500.0	6,326.9	6,466.0	6,347.0	26.2	25.1	-167.83	71.4	1,014.3	259.7	208.6	51.09	5.082	
6,600.0	6,423.1	6,559.5	6,440.3	26.7	25.5	-168.64	71.7	1,020.9	280.0	228.1	51.91	5.394	
6,700.0	6,519.2	6,652.4	6,533.0	27.2	25.8	-169.40	72.0	1,026.0	301.8	249.2	52.67	5.730	
6,730.0	6,548.0	6,680.1	6,560.7	27.3	25.9	-169.62	72.1	1,027.3	308.7	255.8	52.89	5.837	
6,800.0	6,615.5	6,744.8	6,625.4	27.7	26.1	-170.14	72.2	1,029.6	324.5	271.1	53.38	6.079	
6,900.0	6,712.7	6,837.2	6,717.7	28.2	26.3	-170.77	72.3	1,031.7	345.5	291.5	54.03	6.395	
7,000.0	6,810.7	6,930.2	6,810.7	28.6	26.5	-171.29	72.3	1,032.4	364.7	310.2	54.58	6.683	
7,100.0	6,909.3	7,028.8	6,909.3	29.1	26.5	-171.72	72.3	1,032.4	381.2	326.1	55.11	6.917	
7,200.0	7,008.4	7,127.9	7,008.4	29.6	26.5	-172.03	72.3	1,032.4	394.3	338.7	55.62	7.090	
7,300.0	7,107.9	7,227.4	7,107.9	30.0	26.6	-172.25	72.3	1,032.4	404.0	347.9	56.09	7.202	
7,400.0	7,207.7	7,327.2	7,207.7	30.3	26.6	-172.38	72.3	1,032.4	410.2	353.7	56.52	7.258	
7,500.0	7,307.7	7,427.2	7,307.7	30.6	26.6	-172.44	72.3	1,032.4	413.0	356.1	56.86	7.263	
7,530.0	7,337.6	7,457.1	7,337.6	30.7	26.6	-83.45	72.3	1,032.4	413.1	356.2	56.91	7.260	
7,600.0	7,407.7	7,527.2	7,407.7	30.7	26.7	-83.45	72.3	1,032.4	413.1	356.2	56.94	7.256	
7,700.0	7,507.7	7,627.2	7,507.7	30.7	26.7	-83.45	72.3	1,032.4	413.1	356.1	56.99	7.249	
7,800.0	7,607.7	7,727.2	7,607.7	30.7	26.7	-83.45	72.3	1,032.4	413.1	356.1	57.04	7.242	
7,900.0	7,707.7	7,827.2	7,707.7	30.8	26.8	-83.45	72.3	1,032.4	413.1	356.0	57.10	7.236	
8,000.0	7,807.7	7,927.2	7,807.7	30.8	26.8	-83.45	72.3	1,032.4	413.1	356.0	57.15	7.229	
8,100.0	7,907.7	8,027.2	7,907.7	30.8	26.8	-83.45	72.3	1,032.4	413.1	355.9	57.21	7.222	
8,200.0	8,007.7	8,127.2	8,007.7	30.8	26.8	-83.45	72.3	1,032.4	413.1	355.9	57.26	7.215	
8,300.0	8,107.7	8,227.2	8,107.7	30.9	26.9	-83.45	72.3	1,032.4	413.1	355.8	57.32	7.208	
8,400.0	8,207.7	8,327.2	8,207.7	30.9	26.9	-83.45	72.3	1,032.4	413.1	355.8	57.37	7.201	
8,500.0	8,307.7	8,427.2	8,307.7	30.9	26.9	-83.45	72.3	1,032.4	413.1	355.7	57.43	7.194	
8,600.0	8,407.7	8,527.2	8,407.7	30.9	27.0	-83.45	72.3	1,032.4	413.1	355.7	57.49	7.187	
8,700.0	8,507.7	8,627.2	8,507.7	31.0	27.0	-83.45	72.3	1,032.4	413.1	355.6	57.54	7.179	
8,800.0	8,607.7	8,727.2	8,607.7	31.0	27.0	-83.45	72.3	1,032.4	413.1	355.5	57.60	7.172	
8,900.0	8,707.7	8,827.2	8,707.7	31.0	27.1	-83.45	72.3	1,032.4	413.1	355.5	57.66	7.165	
9,000.0	8,807.7	8,927.2	8,807.7	31.0	27.1	-83.45	72.3	1,032.4	413.1	355.4	57.72	7.158	
9,100.0	8,907.7	9,027.2	8,907.7	31.1	27.1	-83.45	72.3	1,032.4	413.1	355.4	57.78	7.150	
9,200.0	9,007.7	9,127.2	9,007.7	31.1	27.2	-83.45	72.3	1,032.4	413.1	355.3	57.84	7.143	
9,300.0	9,107.7	9,227.2	9,107.7	31.1	27.2	-83.45	72.3	1,032.4	413.1	355.2	57.90	7.136	
9,400.0	9,207.7	9,327.2	9,207.7	31.1	27.2	-83.45	72.3	1,032.4	413.1	355.2	57.96	7.128	
9,500.0	9,307.7	9,427.2	9,307.7	31.2	27.3	-83.45	72.3	1,032.4	413.1	355.1	58.02	7.121	
9,600.0	9,407.7	9,527.2	9,407.7	31.2	27.3	-83.45	72.3	1,032.4	413.1	355.1	58.08	7.114	
9,700.0	9,507.7	9,627.2	9,507.7	31.2	27.3	-83.45	72.3	1,032.4	413.1	355.0	58.14	7.106	
9,800.0	9,607.7	9,727.2	9,607.7	31.3	27.4	-83.45	72.3	1,032.4	413.1	354.9	58.20	7.099	
9,900.0	9,707.7	9,827.2	9,707.7	31.3	27.4	-83.45	72.3	1,032.4	413.1	354.9	58.26	7.091	
10,000.0	9,807.7	9,927.2	9,807.7	31.3	27.4	-83.45	72.3	1,032.4	413.1	354.8	58.32	7.083	
10,100.0	9,907.7	10,027.2	9,907.7	31.3	27.5	-83.45	72.3	1,032.4	413.1	354.8	58.39	7.076	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
10,200.0	10,007.7	10,127.2	10,007.7	31.4	27.5	-83.45	72.3	1,032.4	413.1	354.7	58.45	7.068	
10,300.0	10,107.7	10,227.2	10,107.7	31.4	27.5	-83.45	72.3	1,032.4	413.1	354.6	58.51	7.061	
10,400.0	10,207.7	10,327.2	10,207.7	31.4	27.6	-83.45	72.3	1,032.4	413.1	354.6	58.58	7.053	
10,500.0	10,307.7	10,427.2	10,307.7	31.5	27.6	-83.45	72.3	1,032.4	413.1	354.5	58.64	7.045	
10,600.0	10,407.7	10,527.2	10,407.7	31.5	27.6	-83.45	72.3	1,032.4	413.1	354.4	58.71	7.037	
10,700.0	10,507.7	10,627.2	10,507.7	31.5	27.7	-83.45	72.3	1,032.4	413.1	354.4	58.77	7.030	
10,800.0	10,607.7	10,727.2	10,607.7	31.6	27.7	-83.45	72.3	1,032.4	413.1	354.3	58.84	7.022	
10,900.0	10,707.7	10,827.2	10,707.7	31.6	27.8	-83.45	72.3	1,032.4	413.1	354.2	58.90	7.014	
11,000.0	10,807.7	10,927.2	10,807.7	31.6	27.8	-83.45	72.3	1,032.4	413.1	354.2	58.97	7.006	
11,100.0	10,907.7	11,027.2	10,907.7	31.6	27.8	-83.45	72.3	1,032.4	413.1	354.1	59.04	6.998	
11,200.0	11,007.7	11,127.2	11,007.7	31.7	27.9	-83.45	72.3	1,032.4	413.1	354.0	59.10	6.991	
11,300.0	11,107.7	11,227.2	11,107.7	31.7	27.9	-83.45	72.3	1,032.4	413.1	354.0	59.16	6.984	
11,400.0	11,207.7	11,327.2	11,207.7	31.7	27.9	-83.45	72.3	1,032.4	413.1	353.9	59.22	6.977	
11,454.9	11,262.5	11,382.0	11,262.5	31.7	28.0	-83.45	72.3	1,032.4	413.1	353.9	59.24	6.974	
11,475.0	11,282.7	11,402.2	11,282.7	31.7	28.0	-82.99	72.3	1,032.4	413.1	354.0	59.13	6.987	
11,500.0	11,307.6	11,427.1	11,307.6	31.7	28.0	-83.25	72.3	1,032.4	412.9	353.7	59.16	6.979	
11,525.0	11,332.4	11,451.9	11,332.4	31.7	28.0	-83.70	72.3	1,032.4	412.5	353.3	59.21	6.968	
11,550.0	11,357.0	11,476.5	11,357.0	31.7	28.0	-84.34	72.3	1,032.4	412.1	352.8	59.27	6.953	
11,575.0	11,381.4	11,500.9	11,381.4	31.7	28.0	-85.16	72.3	1,032.4	411.6	352.2	59.34	6.935	
11,600.0	11,405.5	11,525.0	11,405.5	31.7	28.0	-86.14	72.3	1,032.4	411.0	351.6	59.42	6.917	
11,625.0	11,429.1	11,548.6	11,429.1	31.7	28.0	-87.26	72.3	1,032.4	410.5	351.0	59.49	6.900	
11,650.0	11,452.3	11,571.4	11,451.9	31.7	28.0	-88.47	72.6	1,032.4	410.2	350.7	59.46	6.898	
11,675.0	11,475.0	11,594.3	11,474.8	31.7	28.0	-89.68	73.8	1,032.3	410.0	350.5	59.51	6.889	
11,681.7	11,480.9	11,600.5	11,480.9	31.7	28.0	-90.00	74.3	1,032.3	410.0	350.5	59.53	6.887	
11,700.0	11,497.0	11,617.6	11,497.9	31.7	28.0	-90.89	76.2	1,032.3	410.0	350.5	59.57	6.883	
11,725.0	11,518.5	11,641.3	11,521.4	31.7	28.0	-92.11	79.8	1,032.3	410.3	350.7	59.63	6.881	
11,750.0	11,539.2	11,665.5	11,545.1	31.7	28.0	-93.34	84.6	1,032.2	410.8	351.1	59.70	6.881	
11,775.0	11,559.2	11,690.2	11,569.0	31.7	28.0	-94.56	90.8	1,032.2	411.5	351.7	59.77	6.885	
11,800.0	11,578.4	11,715.4	11,593.0	31.7	28.0	-95.78	98.4	1,032.1	412.4	352.6	59.85	6.891	
11,825.0	11,596.7	11,741.2	11,617.2	31.8	28.0	-97.00	107.4	1,032.0	413.6	353.7	59.94	6.900	
11,850.0	11,614.1	11,767.6	11,641.4	31.8	28.0	-98.21	118.0	1,031.9	414.9	354.9	60.03	6.912	
11,875.0	11,630.5	11,794.7	11,665.5	31.8	28.0	-99.42	130.3	1,031.8	416.5	356.4	60.13	6.926	
11,900.0	11,645.9	11,822.5	11,689.5	31.8	28.0	-100.60	144.2	1,031.7	418.2	358.0	60.25	6.942	
11,925.0	11,660.3	11,850.9	11,713.2	31.8	28.0	-101.78	160.0	1,031.6	420.1	359.7	60.37	6.959	
11,950.0	11,673.6	11,880.2	11,736.6	31.8	28.0	-102.93	177.6	1,031.4	422.1	361.6	60.51	6.976	
11,975.0	11,685.7	11,910.2	11,759.4	31.8	28.0	-104.06	197.1	1,031.2	424.3	363.6	60.66	6.995	
12,000.0	11,696.7	11,941.1	11,781.5	31.8	28.0	-105.16	218.6	1,031.0	426.5	365.7	60.82	7.013	
12,025.0	11,706.5	11,972.8	11,802.7	31.8	28.1	-106.22	242.2	1,030.8	428.9	367.9	61.00	7.031	
12,050.0	11,715.1	12,005.5	11,822.9	31.8	28.1	-107.25	267.9	1,030.6	431.2	370.0	61.18	7.048	
12,075.0	11,722.4	12,039.0	11,841.7	31.8	28.1	-108.23	295.6	1,030.3	433.5	372.2	61.38	7.063	
12,100.0	11,728.5	12,073.5	11,859.0	31.9	28.1	-109.16	325.4	1,030.0	435.8	374.2	61.57	7.078	
12,125.0	11,733.3	12,108.8	11,874.4	31.9	28.1	-110.03	357.2	1,029.8	438.0	376.3	61.77	7.091	
12,150.0	11,736.9	12,145.0	11,887.8	31.9	28.1	-110.84	390.9	1,029.4	440.1	378.2	61.96	7.104	
12,175.0	11,739.1	12,182.1	11,898.8	31.9	28.2	-111.57	426.3	1,029.1	442.1	379.9	62.14	7.115	
12,200.0	11,740.0	12,220.0	11,907.1	31.9	28.2	-112.21	463.2	1,028.8	443.8	381.5	62.29	7.125	
12,204.9	11,740.0	12,227.4	11,908.4	31.9	28.2	-112.33	470.5	1,028.7	444.1	381.8	62.32	7.126	
12,300.0	11,740.0	12,351.3	11,915.0	32.0	28.3	-113.11	594.0	1,027.6	445.8	383.1	62.63	7.118	
12,400.0	11,740.0	12,451.3	11,915.0	32.2	28.4	-113.11	694.0	1,026.7	445.8	382.9	62.86	7.091	
12,500.0	11,740.0	12,551.3	11,915.0	32.3	28.6	-113.11	794.0	1,025.8	445.8	382.6	63.13	7.061	
12,600.0	11,740.0	12,651.3	11,915.0	32.5	28.8	-113.11	894.0	1,024.8	445.8	382.3	63.44	7.027	
12,700.0	11,740.0	12,751.3	11,915.0	32.6	28.9	-113.11	994.0	1,023.9	445.8	382.0	63.78	6.990	
12,800.0	11,740.0	12,851.3	11,915.0	32.8	29.2	-113.11	1,094.0	1,023.0	445.8	381.6	64.15	6.949	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,900.0	11,740.0	12,951.3	11,915.0	33.0	29.4	-113.11	1,194.0	1,022.1	445.8	381.2	64.56	6.905	
13,000.0	11,740.0	13,051.3	11,915.0	33.3	29.6	-113.11	1,294.0	1,021.2	445.8	380.8	65.00	6.858	
13,100.0	11,740.0	13,151.3	11,915.0	33.5	29.9	-113.11	1,394.0	1,020.3	445.8	380.3	65.47	6.809	
13,200.0	11,740.0	13,251.3	11,915.0	33.8	30.2	-113.11	1,494.0	1,019.4	445.8	379.8	65.98	6.757	
13,300.0	11,740.0	13,351.3	11,915.0	34.0	30.5	-113.11	1,594.0	1,018.5	445.8	379.3	66.51	6.702	
13,400.0	11,740.0	13,451.3	11,915.0	34.3	30.8	-113.11	1,694.0	1,017.5	445.8	378.7	67.08	6.646	
13,500.0	11,740.0	13,551.3	11,915.0	34.6	31.1	-113.11	1,794.0	1,016.6	445.8	378.1	67.67	6.587	
13,600.0	11,740.0	13,651.3	11,915.0	35.0	31.5	-113.11	1,894.0	1,015.7	445.8	377.5	68.29	6.527	
13,700.0	11,740.0	13,751.3	11,915.0	35.3	31.8	-113.11	1,994.0	1,014.8	445.8	376.8	68.95	6.466	
13,800.0	11,740.0	13,851.3	11,915.0	35.6	32.2	-113.11	2,094.0	1,013.9	445.8	376.2	69.62	6.403	
13,900.0	11,740.0	13,951.3	11,915.0	36.0	32.6	-113.11	2,194.0	1,013.0	445.8	375.5	70.33	6.339	
14,000.0	11,740.0	14,051.3	11,915.0	36.4	33.0	-113.11	2,293.9	1,012.1	445.8	374.7	71.06	6.273	
14,100.0	11,740.0	14,151.3	11,915.0	36.8	33.4	-113.11	2,393.9	1,011.1	445.8	374.0	71.81	6.208	
14,200.0	11,740.0	14,251.3	11,915.0	37.2	33.8	-113.11	2,493.9	1,010.2	445.8	373.2	72.59	6.141	
14,300.0	11,740.0	14,351.3	11,915.0	37.6	34.3	-113.11	2,593.9	1,009.3	445.8	372.4	73.39	6.074	
14,400.0	11,740.0	14,451.3	11,915.0	38.0	34.7	-113.11	2,693.9	1,008.4	445.8	371.6	74.22	6.006	
14,500.0	11,740.0	14,551.3	11,915.0	38.4	35.2	-113.11	2,793.9	1,007.5	445.8	370.7	75.06	5.939	
14,600.0	11,740.0	14,651.3	11,915.0	38.8	35.6	-113.11	2,893.9	1,006.6	445.8	369.9	75.93	5.871	
14,700.0	11,740.0	14,751.3	11,915.0	39.3	36.1	-113.11	2,993.9	1,005.7	445.8	369.0	76.82	5.803	
14,800.0	11,740.0	14,851.3	11,915.0	39.8	36.6	-113.11	3,093.9	1,004.7	445.8	368.1	77.72	5.735	
14,900.0	11,740.0	14,951.3	11,915.0	40.2	37.1	-113.11	3,193.9	1,003.8	445.8	367.1	78.65	5.668	
15,000.0	11,740.0	15,051.3	11,915.0	40.7	37.6	-113.11	3,293.9	1,002.9	445.8	366.2	79.59	5.601	
15,100.0	11,740.0	15,151.3	11,915.0	41.2	38.1	-113.11	3,393.9	1,002.0	445.8	365.2	80.55	5.534	
15,200.0	11,740.0	15,251.3	11,915.0	41.7	38.7	-113.11	3,493.9	1,001.1	445.8	364.2	81.53	5.468	
15,300.0	11,740.0	15,351.3	11,915.0	42.2	39.2	-113.11	3,593.9	1,000.2	445.8	363.3	82.53	5.402	
15,400.0	11,740.0	15,451.3	11,915.0	42.7	39.7	-113.11	3,693.9	999.3	445.8	362.2	83.54	5.336	
15,500.0	11,740.0	15,551.3	11,915.0	43.2	40.3	-113.11	3,793.9	998.3	445.8	361.2	84.56	5.272	
15,600.0	11,740.0	15,651.3	11,915.0	43.7	40.8	-113.11	3,893.9	997.4	445.8	360.2	85.60	5.208	
15,700.0	11,740.0	15,751.3	11,915.0	44.3	41.4	-113.11	3,993.9	996.5	445.8	359.1	86.65	5.144	
15,800.0	11,740.0	15,851.3	11,915.0	44.8	42.0	-113.11	4,093.9	995.6	445.8	358.1	87.72	5.082	
15,900.0	11,740.0	15,951.3	11,915.0	45.3	42.5	-113.11	4,193.9	994.7	445.8	357.0	88.80	5.020	
16,000.0	11,740.0	16,051.3	11,915.0	45.9	43.1	-113.11	4,293.9	993.8	445.8	355.9	89.89	4.959	
16,100.0	11,740.0	16,151.3	11,915.0	46.4	43.7	-113.11	4,393.9	992.9	445.8	354.8	91.00	4.899	
16,200.0	11,740.0	16,251.3	11,915.0	47.0	44.3	-113.11	4,493.9	992.0	445.8	353.7	92.12	4.839	
16,300.0	11,740.0	16,351.3	11,915.0	47.6	44.9	-113.11	4,593.9	991.0	445.8	352.5	93.24	4.781	
16,400.0	11,740.0	16,451.3	11,915.0	48.1	45.5	-113.11	4,693.8	990.1	445.8	351.4	94.38	4.723	
16,500.0	11,740.0	16,551.3	11,915.0	48.7	46.1	-113.11	4,793.8	989.2	445.8	350.2	95.53	4.666	
16,600.0	11,740.0	16,651.3	11,915.0	49.3	46.7	-113.11	4,893.8	988.3	445.8	349.1	96.69	4.610	
16,700.0	11,740.0	16,751.3	11,915.0	49.9	47.3	-113.11	4,993.8	987.4	445.8	347.9	97.86	4.555	
16,800.0	11,740.0	16,851.3	11,915.0	50.5	47.9	-113.11	5,093.8	986.5	445.8	346.7	99.04	4.501	
16,900.0	11,740.0	16,951.3	11,915.0	51.1	48.5	-113.11	5,193.8	985.6	445.8	345.6	100.23	4.448	
17,000.0	11,740.0	17,051.3	11,915.0	51.7	49.2	-113.11	5,293.8	984.6	445.8	344.4	101.43	4.395	
17,100.0	11,740.0	17,151.3	11,915.0	52.3	49.8	-113.11	5,393.8	983.7	445.8	343.2	102.63	4.344	
17,200.0	11,740.0	17,251.3	11,915.0	52.9	50.4	-113.11	5,493.8	982.8	445.8	341.9	103.84	4.293	
17,300.0	11,740.0	17,351.3	11,915.0	53.5	51.1	-113.11	5,593.8	981.9	445.8	340.7	105.06	4.243	
17,400.0	11,740.0	17,451.3	11,915.0	54.1	51.7	-113.11	5,693.8	981.0	445.8	339.5	106.29	4.194	
17,500.0	11,740.0	17,551.3	11,915.0	54.7	52.4	-113.11	5,793.8	980.1	445.8	338.3	107.53	4.146	
17,600.0	11,740.0	17,651.3	11,915.0	55.3	53.0	-113.11	5,893.8	979.2	445.8	337.0	108.77	4.098	
17,700.0	11,740.0	17,751.3	11,915.0	56.0	53.7	-113.11	5,993.8	978.2	445.8	335.8	110.02	4.052	
17,800.0	11,740.0	17,851.3	11,915.0	56.6	54.3	-113.11	6,093.8	977.3	445.8	334.5	111.28	4.006	
17,900.0	11,740.0	17,951.3	11,915.0	57.2	55.0	-113.11	6,193.8	976.4	445.8	333.2	112.54	3.961	
18,000.0	11,740.0	18,051.3	11,915.0	57.9	55.6	-113.11	6,293.8	975.5	445.8	332.0	113.81	3.917	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11557-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,100.0	11,740.0	18,151.3	11,915.0	58.5	56.3	-113.11	6,393.8	974.6	445.8	330.7	115.08	3.874		
18,200.0	11,740.0	18,251.3	11,915.0	59.2	56.9	-113.11	6,493.8	973.7	445.8	329.4	116.37	3.831		
18,300.0	11,740.0	18,351.3	11,915.0	59.8	57.6	-113.11	6,593.8	972.8	445.8	328.1	117.65	3.789		
18,400.0	11,740.0	18,451.3	11,915.0	60.4	58.3	-113.11	6,693.8	971.8	445.8	326.8	118.94	3.748		
18,500.0	11,740.0	18,551.3	11,915.0	61.1	59.0	-113.11	6,793.8	970.9	445.8	325.5	120.24	3.707		
18,600.0	11,740.0	18,651.3	11,915.0	61.7	59.6	-113.11	6,893.8	970.0	445.8	324.2	121.54	3.668		
18,700.0	11,740.0	18,751.3	11,915.0	62.4	60.3	-113.11	6,993.8	969.1	445.8	322.9	122.85	3.629		
18,800.0	11,740.0	18,851.3	11,915.0	63.1	61.0	-113.11	7,093.7	968.2	445.8	321.6	124.16	3.590		
18,900.0	11,740.0	18,951.3	11,915.0	63.7	61.7	-113.11	7,193.7	967.3	445.8	320.3	125.48	3.553		
19,000.0	11,740.0	19,051.3	11,915.0	64.4	62.3	-113.11	7,293.7	966.4	445.8	319.0	126.80	3.516		
19,100.0	11,740.0	19,151.3	11,915.0	65.0	63.0	-113.11	7,393.7	965.5	445.8	317.7	128.12	3.479		
19,200.0	11,740.0	19,251.3	11,915.0	65.7	63.7	-113.11	7,493.7	964.5	445.8	316.3	129.45	3.444		
19,300.0	11,740.0	19,351.3	11,915.0	66.4	64.4	-113.11	7,593.7	963.6	445.8	315.0	130.78	3.409		
19,400.0	11,740.0	19,451.3	11,915.0	67.1	65.1	-113.11	7,693.7	962.7	445.8	313.7	132.12	3.374		
19,500.0	11,740.0	19,551.3	11,915.0	67.7	65.8	-113.11	7,793.7	961.8	445.8	312.3	133.46	3.340		
19,588.4	11,740.0	19,639.7	11,915.0	68.3	66.4	-113.11	7,882.2	961.0	445.8	311.1	134.65	3.311		
19,600.0	11,740.0	19,651.3	11,915.0	68.4	66.5	-113.11	7,893.7	960.9	445.8	311.0	134.80	3.307		
19,638.4	11,740.0	19,689.7	11,915.0	68.7	66.7	-113.11	7,932.1	960.5	445.8	310.5	135.32	3.294		

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	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	-104.31	-66.7	-261.3	269.7	262.7	6.98	38.628	
100.0	100.0	98.0	98.0	3.1	3.1	-104.31	-66.7	-261.3	269.6	262.4	7.22	37.347	
200.0	200.0	198.0	198.0	3.2	3.2	-104.31	-66.7	-261.3	269.6	262.2	7.46	36.160	
300.0	300.0	298.0	298.0	3.4	3.4	-104.31	-66.7	-261.3	269.6	262.0	7.68	35.089	
400.0	400.0	398.0	398.0	3.5	3.5	-104.31	-66.7	-261.3	269.6	261.7	7.90	34.112	
500.0	500.0	498.0	498.0	3.6	3.6	-104.31	-66.7	-261.3	269.6	261.5	8.12	33.214	
600.0	600.0	598.0	598.0	3.7	3.7	-104.31	-66.7	-261.3	269.6	261.3	8.33	32.385	
700.0	700.0	698.0	698.0	3.9	3.9	-104.31	-66.7	-261.3	269.6	261.1	8.53	31.616	
800.0	800.0	798.0	798.0	4.0	4.0	-104.31	-66.7	-261.3	269.6	260.9	8.73	30.901	
900.0	900.0	898.0	898.0	4.1	4.1	-104.31	-66.7	-261.3	269.6	260.7	8.92	30.232	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	-104.31	-66.7	-261.3	269.6	260.5	9.11	29.606	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	-104.31	-66.7	-261.3	269.6	260.4	9.29	29.018	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	-104.31	-66.7	-261.3	269.6	260.2	9.47	28.463	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	-104.31	-66.7	-261.3	269.6	260.0	9.65	27.940	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	-104.31	-66.7	-261.3	269.6	259.8	9.83	27.444	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	-104.31	-66.7	-261.3	269.6	259.7	10.00	26.974 CC, ES	
1,600.0	1,600.0	1,590.4	1,590.4	4.9	4.9	166.61	-67.6	-262.3	272.7	262.7	9.99	27.291	
1,700.0	1,699.8	1,682.2	1,682.1	5.1	5.2	166.36	-70.6	-265.5	282.0	271.5	10.47	26.925 SF	
1,800.0	1,799.5	1,772.9	1,772.5	5.3	5.4	165.98	-75.5	-270.8	297.4	286.4	10.97	27.103	
1,900.0	1,898.7	1,862.1	1,861.1	5.6	5.6	165.51	-82.2	-278.0	318.9	307.4	11.49	27.758	
2,000.0	1,997.5	1,949.2	1,947.4	5.9	5.9	164.96	-90.6	-287.0	346.3	334.2	12.02	28.813	
2,100.0	2,095.6	2,034.0	2,030.9	6.3	6.2	164.38	-100.5	-297.6	379.4	366.9	12.56	30.211	
2,200.0	2,193.1	2,115.9	2,111.2	6.6	6.4	163.79	-111.6	-309.5	418.2	405.1	13.11	31.899	
2,300.0	2,289.6	2,200.0	2,193.1	7.0	6.7	163.18	-124.7	-323.5	462.3	448.6	13.71	33.733	
2,400.0	2,385.8	2,282.3	2,272.9	7.3	7.0	162.89	-138.3	-338.1	509.1	494.9	14.21	35.822	
2,500.0	2,481.9	2,370.6	2,358.6	7.7	7.3	162.63	-152.9	-353.7	556.0	541.2	14.79	37.593	
2,600.0	2,578.0	2,459.0	2,444.3	8.0	7.6	162.41	-167.4	-369.3	602.9	587.5	15.39	39.162	
2,700.0	2,674.1	2,547.3	2,530.0	8.4	7.9	162.22	-182.0	-385.0	649.7	633.7	16.02	40.551	
2,800.0	2,770.3	2,635.6	2,615.7	8.8	8.2	162.06	-196.6	-400.6	696.6	680.0	16.67	41.782	
2,900.0	2,866.4	2,723.9	2,701.4	9.2	8.5	161.92	-211.1	-416.2	743.5	726.2	17.34	42.874	
3,000.0	2,962.5	2,812.2	2,787.1	9.6	8.9	161.79	-225.7	-431.8	790.4	772.4	18.03	43.845	
3,100.0	3,058.7	2,900.5	2,872.8	10.1	9.2	161.68	-240.3	-447.5	837.3	818.6	18.73	44.708	
3,200.0	3,154.8	2,988.9	2,958.5	10.5	9.6	161.58	-254.8	-463.1	884.2	864.7	19.44	45.478	
3,300.0	3,250.9	3,077.2	3,044.2	10.9	9.9	161.49	-269.4	-478.7	931.1	910.9	20.17	46.166	
3,400.0	3,347.0	3,165.5	3,129.9	11.4	10.3	161.41	-284.0	-494.3	978.0	957.1	20.90	46.782	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-109.44	-83.4	-236.3	250.6	243.6	6.98	35.898	
100.0	100.0	99.0	99.0	3.1	3.1	-109.44	-83.4	-236.3	250.6	243.4	7.22	34.696	
200.0	200.0	199.0	199.0	3.2	3.2	-109.44	-83.4	-236.3	250.6	243.1	7.46	33.595	
300.0	300.0	299.0	299.0	3.4	3.4	-109.44	-83.4	-236.3	250.6	242.9	7.69	32.598	
400.0	400.0	399.0	399.0	3.5	3.5	-109.44	-83.4	-236.3	250.6	242.7	7.91	31.686	
500.0	500.0	499.0	499.0	3.6	3.6	-109.44	-83.4	-236.3	250.6	242.5	8.12	30.847	
600.0	600.0	599.0	599.0	3.7	3.7	-109.44	-83.4	-236.3	250.6	242.3	8.33	30.071	
700.0	700.0	699.0	699.0	3.9	3.9	-109.44	-83.4	-236.3	250.6	242.1	8.54	29.352	
800.0	800.0	799.0	799.0	4.0	4.0	-109.44	-83.4	-236.3	250.6	241.9	8.74	28.681	
900.0	900.0	899.0	899.0	4.1	4.1	-109.44	-83.4	-236.3	250.6	241.7	8.93	28.054	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-109.44	-83.4	-236.3	250.6	241.5	9.12	27.466	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-109.44	-83.4	-236.3	250.6	241.3	9.31	26.914	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-109.44	-83.4	-236.3	250.6	241.1	9.50	26.392	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-109.44	-83.4	-236.3	250.6	240.9	9.68	25.900	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-109.44	-83.4	-236.3	250.6	240.7	9.85	25.433	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-109.44	-83.4	-236.3	250.6	240.6	10.03	24.991	CC, ES, SF
1,600.0	1,600.0	1,591.9	1,591.8	4.9	5.0	161.50	-84.5	-237.3	253.6	243.6	10.02	25.312	
1,700.0	1,699.8	1,684.1	1,684.0	5.1	5.2	161.31	-87.8	-240.3	262.8	252.3	10.50	25.042	
1,800.0	1,799.5	1,775.3	1,774.9	5.3	5.4	161.02	-93.2	-245.2	278.1	267.1	10.99	25.308	
1,900.0	1,898.7	1,865.1	1,864.1	5.6	5.7	160.64	-100.7	-251.9	299.4	287.9	11.50	26.040	
2,000.0	1,997.5	1,952.8	1,951.0	5.9	5.9	160.22	-110.0	-260.2	326.5	314.4	12.02	27.162	
2,100.0	2,095.6	2,042.5	2,039.3	6.3	6.2	159.78	-121.2	-270.4	359.0	346.5	12.56	28.593	
2,200.0	2,193.1	2,135.8	2,131.2	6.6	6.4	159.48	-133.3	-281.2	395.0	381.9	13.12	30.116	
2,300.0	2,289.6	2,227.8	2,221.8	7.0	6.7	159.33	-145.2	-291.9	434.0	420.3	13.70	31.678	
2,400.0	2,385.8	2,319.2	2,311.8	7.3	7.0	159.54	-156.9	-302.5	474.6	460.3	14.26	33.290	
2,500.0	2,481.9	2,410.6	2,401.9	7.7	7.2	159.71	-168.7	-313.1	515.1	500.3	14.83	34.726	
2,600.0	2,578.0	2,502.0	2,491.9	8.0	7.5	159.86	-180.5	-323.8	555.7	540.2	15.44	35.995	
2,700.0	2,674.1	2,593.4	2,581.9	8.4	7.9	159.99	-192.3	-334.4	596.2	580.2	16.06	37.117	
2,800.0	2,770.3	2,684.8	2,671.9	8.8	8.2	160.11	-204.1	-345.0	636.8	620.1	16.71	38.110	
2,900.0	2,866.4	2,776.2	2,761.9	9.2	8.5	160.20	-215.9	-355.6	677.3	660.0	17.37	38.991	
3,000.0	2,962.5	2,867.6	2,851.9	9.6	8.8	160.29	-227.7	-366.2	717.9	699.8	18.05	39.774	
3,100.0	3,058.7	2,959.0	2,941.9	10.1	9.2	160.37	-239.5	-376.9	758.5	739.7	18.74	40.470	
3,200.0	3,154.8	3,050.4	3,032.0	10.5	9.5	160.44	-251.3	-387.5	799.0	779.6	19.44	41.091	
3,300.0	3,250.9	3,141.8	3,122.0	10.9	9.9	160.50	-263.1	-398.1	839.6	819.4	20.16	41.647	
3,400.0	3,347.0	3,233.2	3,212.0	11.4	10.2	160.56	-274.9	-408.7	880.1	859.3	20.88	42.145	
3,500.0	3,443.2	3,324.6	3,302.0	11.8	10.6	160.61	-286.7	-419.3	920.7	899.1	21.62	42.593	
3,600.0	3,539.3	3,416.1	3,392.0	12.3	11.0	160.66	-298.5	-430.0	961.3	938.9	22.36	42.997	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	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	-115.39	-100.3	-211.3	233.9	226.9	6.98	33.500		
100.0	100.0	100.0	100.0	3.1	3.1	-115.39	-100.3	-211.3	233.9	226.6	7.23	32.367		
200.0	200.0	200.0	200.0	3.2	3.2	-115.39	-100.3	-211.3	233.9	226.4	7.46	31.341		
300.0	300.0	300.0	300.0	3.4	3.4	-115.39	-100.3	-211.3	233.9	226.2	7.69	30.407		
400.0	400.0	400.0	400.0	3.5	3.5	-115.39	-100.3	-211.3	233.9	225.9	7.91	29.550		
500.0	500.0	500.0	500.0	3.6	3.6	-115.39	-100.3	-211.3	233.9	225.7	8.13	28.761		
600.0	600.0	600.0	600.0	3.7	3.7	-115.39	-100.3	-211.3	233.9	225.5	8.34	28.030		
700.0	700.0	700.0	700.0	3.9	3.9	-115.39	-100.3	-211.3	233.9	225.3	8.55	27.351		
800.0	800.0	800.0	800.0	4.0	4.0	-115.39	-100.3	-211.3	233.9	225.1	8.75	26.717		
900.0	900.0	900.0	900.0	4.1	4.1	-115.39	-100.3	-211.3	233.9	224.9	8.95	26.124		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-115.39	-100.3	-211.3	233.9	224.7	9.15	25.568		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-115.39	-100.3	-211.3	233.9	224.5	9.34	25.044		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	-115.39	-100.3	-211.3	233.9	224.3	9.53	24.549		
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-115.39	-100.3	-211.3	233.9	224.2	9.71	24.081		
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-115.39	-100.3	-211.3	233.9	224.0	9.89	23.638		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-115.39	-100.3	-211.3	233.9	223.8	10.07	23.216 CC, ES		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	5.0	155.78	-100.3	-211.3	235.5	225.4	10.08	23.359		
1,700.0	1,699.8	1,699.8	1,699.8	5.1	5.1	156.25	-100.3	-211.3	240.2	229.8	10.48	22.923		
1,800.0	1,799.5	1,799.5	1,799.5	5.3	5.3	157.00	-100.3	-211.3	248.2	237.3	10.89	22.792 SF		
1,900.0	1,898.7	1,898.7	1,898.7	5.6	5.4	157.96	-100.3	-211.3	259.5	248.2	11.32	22.925		
2,000.0	1,997.5	1,997.5	1,997.5	5.9	5.6	159.08	-100.3	-211.3	274.1	262.3	11.77	23.288		
2,100.0	2,095.6	2,095.6	2,095.6	6.3	5.7	160.29	-100.3	-211.3	292.0	279.8	12.24	23.854		
2,200.0	2,193.1	2,193.1	2,193.1	6.6	5.8	161.54	-100.3	-211.3	313.3	300.6	12.74	24.596		
2,300.0	2,289.6	2,289.6	2,289.6	7.0	5.9	162.77	-100.3	-211.3	338.1	324.8	13.26	25.495		
2,400.0	2,385.8	2,385.8	2,385.8	7.3	6.1	164.05	-100.3	-211.3	364.6	350.8	13.73	26.542		
2,500.0	2,481.9	2,481.9	2,481.9	7.7	6.2	165.16	-100.3	-211.3	391.2	377.0	14.23	27.496		
2,600.0	2,578.0	2,578.0	2,578.0	8.0	6.3	166.13	-100.3	-211.3	418.0	403.2	14.74	28.356		
2,700.0	2,674.1	2,674.1	2,674.1	8.4	6.4	166.98	-100.3	-211.3	444.8	429.6	15.27	29.133		
2,800.0	2,770.3	2,770.3	2,770.3	8.8	6.6	167.73	-100.3	-211.3	471.8	456.0	15.81	29.834		
2,900.0	2,866.4	2,866.4	2,866.4	9.2	6.7	168.40	-100.3	-211.3	498.8	482.4	16.37	30.467		
3,000.0	2,962.5	2,962.5	2,962.5	9.6	6.8	169.00	-100.3	-211.3	525.9	508.9	16.94	31.039		
3,100.0	3,058.7	3,058.7	3,058.7	10.1	6.9	169.55	-100.3	-211.3	553.0	535.5	17.52	31.557		
3,200.0	3,154.8	3,154.8	3,154.8	10.5	7.0	170.04	-100.3	-211.3	580.1	562.0	18.11	32.027		
3,300.0	3,250.9	3,250.9	3,250.9	10.9	7.1	170.49	-100.3	-211.3	607.3	588.6	18.71	32.453		
3,400.0	3,347.0	3,347.0	3,347.0	11.4	7.3	170.90	-100.3	-211.3	634.6	615.2	19.32	32.841		
3,500.0	3,443.2	3,443.2	3,443.2	11.8	7.4	171.28	-100.3	-211.3	661.8	641.9	19.94	33.195		
3,600.0	3,539.3	3,539.3	3,539.3	12.3	7.5	171.63	-100.3	-211.3	689.1	668.5	20.56	33.518		
3,700.0	3,635.4	3,635.4	3,635.4	12.7	7.6	171.95	-100.3	-211.3	716.4	695.2	21.19	33.813		
3,800.0	3,731.5	3,731.5	3,731.5	13.2	7.7	172.24	-100.3	-211.3	743.7	721.9	21.82	34.084		
3,900.0	3,827.7	3,827.7	3,827.7	13.6	7.8	172.52	-100.3	-211.3	771.1	748.6	22.46	34.333		
4,000.0	3,923.8	3,923.8	3,923.8	14.1	7.9	172.78	-100.3	-211.3	798.4	775.3	23.10	34.561		
4,100.0	4,019.9	4,019.9	4,019.9	14.6	8.0	173.02	-100.3	-211.3	825.8	802.0	23.75	34.772		
4,200.0	4,116.0	4,116.0	4,116.0	15.0	8.1	173.24	-100.3	-211.3	853.2	828.8	24.40	34.967		
4,300.0	4,212.2	4,212.2	4,212.2	15.5	8.2	173.45	-100.3	-211.3	880.6	855.5	25.05	35.148		
4,400.0	4,308.3	4,308.3	4,308.3	16.0	8.3	173.65	-100.3	-211.3	908.0	882.3	25.71	35.315		
4,500.0	4,404.4	4,404.4	4,404.4	16.4	8.5	173.84	-100.3	-211.3	935.4	909.0	26.37	35.470		
4,600.0	4,500.5	4,500.5	4,500.5	16.9	8.6	174.01	-100.3	-211.3	962.8	935.8	27.03	35.614		
4,700.0	4,596.7	4,596.7	4,596.7	17.4	8.7	174.18	-100.3	-211.3	990.2	962.5	27.70	35.748		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	-122.12	-116.9	-186.2	219.9	212.9	6.98	31.497	
100.0	100.0	100.0	100.0	3.1	3.1	-122.12	-116.9	-186.2	219.9	212.7	7.23	30.430	
200.0	200.0	200.0	200.0	3.2	3.2	-122.12	-116.9	-186.2	219.9	212.4	7.46	29.462	
300.0	300.0	300.0	300.0	3.4	3.4	-122.12	-116.9	-186.2	219.9	212.2	7.69	28.577	
400.0	400.0	400.0	400.0	3.5	3.5	-122.12	-116.9	-186.2	219.9	212.0	7.92	27.764	
500.0	500.0	500.0	500.0	3.6	3.6	-122.12	-116.9	-186.2	219.9	211.7	8.14	27.013	
600.0	600.0	600.0	600.0	3.7	3.7	-122.12	-116.9	-186.2	219.9	211.5	8.36	26.317	
700.0	700.0	700.0	700.0	3.9	3.9	-122.12	-116.9	-186.2	219.9	211.3	8.57	25.669	
800.0	800.0	800.0	800.0	4.0	4.0	-122.12	-116.9	-186.2	219.9	211.1	8.77	25.063	
900.0	900.0	900.0	900.0	4.1	4.1	-122.12	-116.9	-186.2	219.9	210.9	8.98	24.495	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-122.12	-116.9	-186.2	219.9	210.7	9.18	23.961	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-122.12	-116.9	-186.2	219.9	210.5	9.37	23.458	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	-122.12	-116.9	-186.2	219.9	210.3	9.57	22.983	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-122.12	-116.9	-186.2	219.9	210.1	9.76	22.533	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-122.12	-116.9	-186.2	219.9	209.9	9.95	22.106	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-122.12	-116.9	-186.2	219.9	209.7	10.13	21.700	
1,600.0	1,600.0	1,607.5	1,607.4	4.9	4.9	148.91	-116.7	-184.2	219.7	209.5	10.15	21.649	
1,700.0	1,699.8	1,714.9	1,714.7	5.1	5.1	149.00	-115.9	-178.2	219.1	208.4	10.64	20.587	
1,800.0	1,799.5	1,822.3	1,821.7	5.3	5.4	149.16	-114.7	-168.2	218.0	206.9	11.15	19.548	
1,900.0	1,898.7	1,927.7	1,926.1	5.6	5.7	149.40	-113.1	-154.7	216.8	205.1	11.68	18.561	
1,922.4	1,920.9	1,950.1	1,948.3	5.7	5.7	149.49	-112.7	-151.6	216.7	204.9	11.79	18.377 CC, ES	
2,000.0	1,997.5	2,027.7	2,025.1	5.9	5.9	149.97	-111.4	-140.9	217.6	205.4	12.20	17.843	
2,100.0	2,095.6	2,127.5	2,124.0	6.3	6.2	150.94	-109.7	-127.1	221.5	208.7	12.76	17.360	
2,200.0	2,193.1	2,227.1	2,222.6	6.6	6.4	152.26	-108.0	-113.4	228.6	215.2	13.37	17.089	
2,300.0	2,289.6	2,326.3	2,320.9	7.0	6.7	153.84	-106.3	-99.7	238.8	224.8	14.04	17.014	
2,400.0	2,385.8	2,425.3	2,418.9	7.3	7.1	155.55	-104.6	-86.0	250.9	236.2	14.69	17.083	
2,500.0	2,481.9	2,524.3	2,517.0	7.7	7.4	157.09	-102.9	-72.3	263.2	247.8	15.37	17.122	
2,600.0	2,578.0	2,623.3	2,615.0	8.0	7.7	158.50	-101.3	-58.6	275.6	259.5	16.08	17.137	
2,700.0	2,674.1	2,722.3	2,713.0	8.4	8.0	159.79	-99.6	-45.0	288.2	271.4	16.82	17.132	
2,800.0	2,770.3	2,821.4	2,811.1	8.8	8.4	160.96	-97.9	-31.3	300.9	283.3	17.58	17.114	
2,900.0	2,866.4	2,920.4	2,909.1	9.2	8.8	162.05	-96.2	-17.6	313.7	295.4	18.36	17.086	
3,000.0	2,962.5	3,019.4	3,007.2	9.6	9.1	163.04	-94.5	-3.9	326.7	307.5	19.16	17.050	
3,100.0	3,058.7	3,118.4	3,105.2	10.1	9.5	163.97	-92.9	9.8	339.7	319.7	19.97	17.010	
3,200.0	3,154.8	3,217.4	3,203.3	10.5	9.9	164.82	-91.2	23.4	352.8	332.0	20.79	16.966	
3,300.0	3,250.9	3,316.4	3,301.3	10.9	10.2	165.61	-89.5	37.1	365.9	344.3	21.63	16.920	
3,400.0	3,347.0	3,415.4	3,399.3	11.4	10.6	166.35	-87.8	50.8	379.2	356.7	22.47	16.874	
3,500.0	3,443.2	3,514.4	3,497.4	11.8	11.0	167.04	-86.1	64.5	392.5	369.2	23.32	16.827	
3,600.0	3,539.3	3,613.4	3,595.4	12.3	11.4	167.68	-84.5	78.1	405.8	381.6	24.18	16.781	
3,700.0	3,635.4	3,712.4	3,693.5	12.7	11.8	168.28	-82.8	91.8	419.2	394.2	25.05	16.736	
3,800.0	3,731.5	3,811.4	3,791.5	13.2	12.2	168.85	-81.1	105.5	432.7	406.7	25.92	16.691	
3,900.0	3,827.7	3,910.4	3,889.6	13.6	12.6	169.38	-79.4	119.2	446.1	419.3	26.80	16.648	
4,000.0	3,923.8	4,009.4	3,987.6	14.1	13.0	169.88	-77.7	132.8	459.6	432.0	27.68	16.606	
4,100.0	4,019.9	4,108.4	4,085.6	14.6	13.4	170.35	-76.1	146.5	473.2	444.6	28.56	16.566	
4,200.0	4,116.0	4,207.4	4,183.7	15.0	13.8	170.79	-74.4	160.2	486.8	457.3	29.45	16.527	
4,300.0	4,212.2	4,304.4	4,279.7	15.5	14.2	171.20	-72.7	173.5	500.4	470.1	30.32	16.506 SF	
4,400.0	4,308.3	4,395.2	4,369.8	16.0	14.5	171.58	-71.3	185.0	515.2	484.1	31.16	16.536	
4,500.0	4,404.4	4,485.6	4,459.6	16.4	14.9	171.93	-70.1	195.0	531.6	499.6	31.97	16.627	
4,600.0	4,500.5	4,575.4	4,549.0	16.9	15.2	172.27	-69.1	203.6	549.6	516.8	32.77	16.772	
4,700.0	4,596.7	4,664.7	4,638.0	17.4	15.6	172.59	-68.2	210.7	569.1	535.5	33.54	16.968	
4,800.0	4,692.8	4,753.5	4,726.6	17.9	15.9	172.89	-67.5	216.4	590.1	555.8	34.29	17.212	
4,900.0	4,788.9	4,841.6	4,814.6	18.4	16.2	173.18	-66.9	220.8	612.7	577.7	35.01	17.502	
5,000.0	4,885.0	4,929.0	4,902.0	18.8	16.4	173.44	-66.6	223.8	636.8	601.1	35.70	17.839	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	
5,100.0	4,981.2	5,015.8	4,988.8	19.3	16.6	173.68	-66.4	225.4	662.4	626.0	36.34	18.228	
5,200.0	5,077.3	5,104.4	5,077.3	19.8	16.7	173.92	-66.3	225.8	689.3	652.5	36.88	18.694	
5,300.0	5,173.4	5,200.5	5,173.4	20.3	16.8	174.15	-66.3	225.8	716.8	679.3	37.44	19.142	
5,400.0	5,269.6	5,296.6	5,269.6	20.8	16.8	174.37	-66.3	225.8	744.2	706.2	38.01	19.579	
5,500.0	5,365.7	5,392.8	5,365.7	21.3	16.9	174.57	-66.3	225.8	771.7	733.1	38.58	20.001	
5,600.0	5,461.8	5,488.9	5,461.8	21.8	16.9	174.75	-66.3	225.8	799.1	759.9	39.16	20.408	
5,700.0	5,557.9	5,585.0	5,557.9	22.3	17.0	174.93	-66.3	225.8	826.6	786.8	39.74	20.801	
5,800.0	5,654.1	5,681.1	5,654.1	22.7	17.0	175.09	-66.3	225.8	854.0	813.7	40.32	21.181	
5,900.0	5,750.2	5,777.3	5,750.2	23.2	17.1	175.24	-66.3	225.8	881.5	840.6	40.91	21.547	
6,000.0	5,846.3	5,873.4	5,846.3	23.7	17.1	175.39	-66.3	225.8	909.0	867.5	41.50	21.902	
6,100.0	5,942.4	5,969.5	5,942.4	24.2	17.2	175.52	-66.3	225.8	936.5	894.4	42.10	22.244	
6,200.0	6,038.6	6,065.6	6,038.6	24.7	17.2	175.65	-66.3	225.8	964.0	921.3	42.70	22.576	
6,300.0	6,134.7	6,161.8	6,134.7	25.2	17.2	175.77	-66.3	225.8	991.4	948.1	43.30	22.896	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	-129.72	-133.8	-161.1	209.4	202.4	6.98	29.994	
100.0	100.0	100.0	100.0	3.1	3.1	-129.72	-133.8	-161.1	209.4	202.2	7.23	28.976	
200.0	200.0	200.0	200.0	3.2	3.2	-129.72	-133.8	-161.1	209.4	201.9	7.47	28.048	
300.0	300.0	300.0	300.0	3.4	3.4	-129.72	-133.8	-161.1	209.4	201.7	7.70	27.198	
400.0	400.0	400.0	400.0	3.5	3.5	-129.72	-133.8	-161.1	209.4	201.5	7.93	26.415	
500.0	500.0	500.0	500.0	3.6	3.6	-129.72	-133.8	-161.1	209.4	201.2	8.15	25.690	
600.0	600.0	600.0	600.0	3.7	3.7	-129.72	-133.8	-161.1	209.4	201.0	8.37	25.015	
700.0	700.0	700.0	700.0	3.9	3.9	-129.72	-133.8	-161.1	209.4	200.8	8.59	24.387	
800.0	800.0	800.0	800.0	4.0	4.0	-129.72	-133.8	-161.1	209.4	200.6	8.80	23.798	
900.0	900.0	900.0	900.0	4.1	4.1	-129.72	-133.8	-161.1	209.4	200.4	9.01	23.245	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-129.72	-133.8	-161.1	209.4	200.2	9.21	22.725	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-129.72	-133.8	-161.1	209.4	200.0	9.42	22.233	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	-129.72	-133.8	-161.1	209.4	199.8	9.62	21.768	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-129.72	-133.8	-161.1	209.4	199.6	9.82	21.328	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-129.72	-133.8	-161.1	209.4	199.4	10.01	20.909	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-129.72	-133.8	-161.1	209.4	199.2	10.21	20.511	
1,600.0	1,600.0	1,606.3	1,606.3	4.9	4.9	141.29	-133.7	-159.1	209.2	199.1	10.19	20.530	
1,700.0	1,699.8	1,712.6	1,712.4	5.1	5.1	141.30	-133.2	-153.2	208.8	198.2	10.65	19.610	
1,800.0	1,799.5	1,818.9	1,818.2	5.3	5.3	141.32	-132.6	-143.4	208.1	197.0	11.12	18.714	
1,900.0	1,898.7	1,925.1	1,923.6	5.6	5.7	141.35	-131.6	-129.7	207.1	195.5	11.61	17.833	
2,000.0	1,997.5	2,031.3	2,028.3	5.9	6.0	141.39	-130.4	-112.0	205.8	193.6	12.13	16.961	
2,100.0	2,095.6	2,135.3	2,130.2	6.3	6.4	141.47	-128.9	-91.3	204.4	191.7	12.67	16.128	
2,123.9	2,119.0	2,159.3	2,153.6	6.3	6.4	141.55	-128.6	-86.3	204.3	191.5	12.80	15.956 CC, ES	
2,200.0	2,193.1	2,235.3	2,228.0	6.6	6.7	142.01	-127.5	-70.5	205.1	191.9	13.24	15.493	
2,300.0	2,289.6	2,335.2	2,325.6	7.0	7.0	143.09	-126.0	-49.8	208.6	194.8	13.86	15.049	
2,400.0	2,385.8	2,434.9	2,423.2	7.3	7.3	144.45	-124.6	-29.2	213.6	199.1	14.49	14.741	
2,500.0	2,481.9	2,534.6	2,520.8	7.7	7.6	145.75	-123.1	-8.5	218.8	203.6	15.16	14.427	
2,600.0	2,578.0	2,634.4	2,618.3	8.0	8.0	146.99	-121.7	12.2	224.0	208.1	15.87	14.115	
2,700.0	2,674.1	2,734.1	2,715.9	8.4	8.4	148.17	-120.2	32.9	229.3	212.7	16.61	13.808	
2,800.0	2,770.3	2,833.9	2,813.5	8.8	8.8	149.29	-118.8	53.6	234.8	217.4	17.38	13.510	
2,900.0	2,866.4	2,933.6	2,911.0	9.2	9.1	150.37	-117.3	74.3	240.3	222.1	18.17	13.224	
3,000.0	2,962.5	3,033.4	3,008.6	9.6	9.5	151.39	-115.9	95.0	245.9	226.9	18.99	12.950	
3,100.0	3,058.7	3,133.1	3,106.2	10.1	9.9	152.37	-114.4	115.7	251.5	231.7	19.82	12.690	
3,200.0	3,154.8	3,232.9	3,203.8	10.5	10.4	153.31	-113.0	136.4	257.3	236.6	20.68	12.443	
3,300.0	3,250.9	3,332.6	3,301.3	10.9	10.8	154.21	-111.6	157.0	263.1	241.5	21.55	12.211	
3,400.0	3,347.0	3,432.4	3,398.9	11.4	11.2	155.06	-110.1	177.7	268.9	246.5	22.43	11.992	
3,500.0	3,443.2	3,532.1	3,496.5	11.8	11.6	155.88	-108.7	198.4	274.9	251.6	23.32	11.785	
3,600.0	3,539.3	3,631.9	3,594.0	12.3	12.0	156.67	-107.2	219.1	280.9	256.6	24.23	11.591	
3,700.0	3,635.4	3,731.6	3,691.6	12.7	12.5	157.42	-105.8	239.8	286.9	261.7	25.15	11.409	
3,800.0	3,731.5	3,831.4	3,789.2	13.2	12.9	158.14	-104.3	260.5	293.0	266.9	26.07	11.238	
3,900.0	3,827.7	3,931.1	3,886.7	13.6	13.3	158.84	-102.9	281.2	299.1	272.1	27.00	11.077	
4,000.0	3,923.8	4,030.9	3,984.3	14.1	13.8	159.50	-101.4	301.9	305.2	277.3	27.94	10.925	
4,100.0	4,019.9	4,130.6	4,081.9	14.6	14.2	160.14	-100.0	322.6	311.4	282.6	28.88	10.783	
4,200.0	4,116.0	4,230.4	4,179.4	15.0	14.7	160.75	-98.5	343.2	317.7	287.8	29.83	10.649	
4,300.0	4,212.2	4,330.1	4,277.0	15.5	15.1	161.34	-97.1	363.9	324.0	293.2	30.78	10.523	
4,400.0	4,308.3	4,429.9	4,374.6	16.0	15.6	161.91	-95.6	384.6	330.3	298.5	31.74	10.404	
4,500.0	4,404.4	4,529.6	4,472.1	16.4	16.0	162.46	-94.2	405.3	336.6	303.9	32.70	10.292	
4,600.0	4,500.5	4,629.4	4,569.7	16.9	16.5	162.98	-92.7	426.0	343.0	309.3	33.67	10.187	
4,700.0	4,596.7	4,729.1	4,667.3	17.4	16.9	163.49	-91.3	446.7	349.4	314.7	34.64	10.087	
4,800.0	4,692.8	4,828.9	4,764.9	17.9	17.4	163.98	-89.9	467.4	355.8	320.2	35.60	9.992	
4,900.0	4,788.9	4,928.6	4,862.4	18.4	17.8	164.45	-88.4	488.1	362.2	325.6	36.58	9.903	
5,000.0	4,885.0	5,028.4	4,960.0	18.8	18.3	164.90	-87.0	508.7	368.7	331.1	37.55	9.818	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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
5,100.0	4,981.2	5,126.7	5,056.2	19.3	18.7	165.34	-85.5	529.1	375.2	336.7	38.52	9.741	
5,200.0	5,077.3	5,220.3	5,148.0	19.8	19.1	165.77	-84.3	547.4	382.9	343.5	39.45	9.705 SF	
5,300.0	5,173.4	5,313.6	5,239.8	20.3	19.6	166.22	-83.1	564.2	392.2	351.8	40.37	9.715	
5,400.0	5,269.6	5,406.6	5,331.5	20.8	20.0	166.70	-82.0	579.4	403.1	361.9	41.27	9.767	
5,500.0	5,365.7	5,500.0	5,423.8	21.3	20.4	167.18	-81.1	593.2	415.7	373.5	42.16	9.858	
5,600.0	5,461.8	5,591.5	5,514.5	21.8	20.7	167.67	-80.2	605.3	429.8	386.8	43.02	9.992	
5,700.0	5,557.9	5,683.2	5,605.6	22.3	21.1	168.15	-79.5	615.9	445.5	401.7	43.85	10.160	
5,800.0	5,654.1	5,774.5	5,696.4	22.7	21.5	168.63	-78.8	625.1	462.9	418.2	44.66	10.364	
5,900.0	5,750.2	5,865.2	5,786.8	23.2	21.8	169.10	-78.3	632.7	481.8	436.3	45.45	10.601	
6,000.0	5,846.3	5,955.3	5,876.7	23.7	22.2	169.55	-77.9	638.9	502.3	456.1	46.20	10.871	
6,100.0	5,942.4	6,044.8	5,966.1	24.2	22.5	169.99	-77.5	643.7	524.3	477.4	46.92	11.174	
6,200.0	6,038.6	6,133.6	6,054.9	24.7	22.7	170.41	-77.3	647.0	547.9	500.3	47.61	11.508	
6,300.0	6,134.7	6,221.8	6,143.0	25.2	23.0	170.80	-77.2	648.9	573.0	524.7	48.23	11.880	
6,400.0	6,230.8	6,309.6	6,230.8	25.7	23.1	171.18	-77.1	649.6	599.5	550.8	48.75	12.298	
6,500.0	6,326.9	6,405.7	6,326.9	26.2	23.1	171.57	-77.1	649.6	626.8	577.5	49.31	12.711	
6,600.0	6,423.1	6,501.9	6,423.1	26.7	23.2	171.92	-77.1	649.6	654.1	604.2	49.88	13.115	
6,700.0	6,519.2	6,598.0	6,519.2	27.2	23.2	172.25	-77.1	649.6	681.4	631.0	50.44	13.510	
6,730.0	6,548.0	6,626.8	6,548.0	27.3	23.2	172.34	-77.1	649.6	689.6	639.0	50.61	13.627	
6,800.0	6,615.5	6,694.3	6,615.5	27.7	23.2	172.59	-77.1	649.6	708.0	657.0	51.00	13.882	
6,900.0	6,712.7	6,791.5	6,712.7	28.2	23.3	172.88	-77.1	649.6	731.3	679.7	51.57	14.181	
7,000.0	6,810.7	6,889.5	6,810.7	28.6	23.3	173.12	-77.1	649.6	751.3	699.1	52.12	14.413	
7,100.0	6,909.3	6,988.1	6,909.3	29.1	23.3	173.31	-77.1	649.6	767.8	715.2	52.66	14.581	
7,200.0	7,008.4	7,087.2	7,008.4	29.6	23.4	173.45	-77.1	649.6	781.0	727.8	53.17	14.688	
7,300.0	7,107.9	7,186.7	7,107.9	30.0	23.4	173.56	-77.1	649.6	790.6	737.0	53.65	14.736	
7,400.0	7,207.7	7,286.5	7,207.7	30.3	23.4	173.62	-77.1	649.6	796.9	742.8	54.09	14.732	
7,500.0	7,307.7	7,386.5	7,307.7	30.6	23.5	173.65	-77.1	649.6	799.7	745.2	54.45	14.685	
7,530.0	7,337.6	7,416.4	7,337.6	30.7	23.5	-97.35	-77.1	649.6	799.8	745.3	54.50	14.676	
7,600.0	7,407.7	7,486.5	7,407.7	30.7	23.5	-97.35	-77.1	649.6	799.8	745.3	54.53	14.667	
7,700.0	7,507.7	7,586.5	7,507.7	30.7	23.5	-97.35	-77.1	649.6	799.8	745.2	54.59	14.651	
7,800.0	7,607.7	7,686.5	7,607.7	30.7	23.6	-97.35	-77.1	649.6	799.8	745.2	54.65	14.636	
7,900.0	7,707.7	7,786.5	7,707.7	30.8	23.6	-97.35	-77.1	649.6	799.8	745.1	54.71	14.620	
8,000.0	7,807.7	7,886.5	7,807.7	30.8	23.6	-97.35	-77.1	649.6	799.8	745.1	54.76	14.605	
8,100.0	7,907.7	7,986.5	7,907.7	30.8	23.7	-97.35	-77.1	649.6	799.8	745.0	54.82	14.589	
8,200.0	8,007.7	8,086.5	8,007.7	30.8	23.7	-97.35	-77.1	649.6	799.8	744.9	54.88	14.573	
8,300.0	8,107.7	8,186.5	8,107.7	30.9	23.7	-97.35	-77.1	649.6	799.8	744.9	54.94	14.557	
8,400.0	8,207.7	8,286.5	8,207.7	30.9	23.8	-97.35	-77.1	649.6	799.8	744.8	55.00	14.542	
8,500.0	8,307.7	8,386.5	8,307.7	30.9	23.8	-97.35	-77.1	649.6	799.8	744.8	55.06	14.526	
8,600.0	8,407.7	8,486.5	8,407.7	30.9	23.9	-97.35	-77.1	649.6	799.8	744.7	55.12	14.509	
8,700.0	8,507.7	8,586.5	8,507.7	31.0	23.9	-97.35	-77.1	649.6	799.8	744.6	55.19	14.493	
8,800.0	8,607.7	8,686.5	8,607.7	31.0	23.9	-97.35	-77.1	649.6	799.8	744.6	55.25	14.477	
8,900.0	8,707.7	8,786.5	8,707.7	31.0	24.0	-97.35	-77.1	649.6	799.8	744.5	55.31	14.461	
9,000.0	8,807.7	8,886.5	8,807.7	31.0	24.0	-97.35	-77.1	649.6	799.8	744.4	55.37	14.444	
9,100.0	8,907.7	8,986.5	8,907.7	31.1	24.1	-97.35	-77.1	649.6	799.8	744.4	55.43	14.428	
9,200.0	9,007.7	9,086.5	9,007.7	31.1	24.1	-97.35	-77.1	649.6	799.8	744.3	55.50	14.412	
9,300.0	9,107.7	9,186.5	9,107.7	31.1	24.1	-97.35	-77.1	649.6	799.8	744.3	55.56	14.395	
9,400.0	9,207.7	9,286.5	9,207.7	31.1	24.2	-97.35	-77.1	649.6	799.8	744.2	55.63	14.378	
9,500.0	9,307.7	9,386.5	9,307.7	31.2	24.2	-97.35	-77.1	649.6	799.8	744.1	55.69	14.362	
9,600.0	9,407.7	9,486.5	9,407.7	31.2	24.2	-97.35	-77.1	649.6	799.8	744.1	55.76	14.345	
9,700.0	9,507.7	9,586.5	9,507.7	31.2	24.3	-97.35	-77.1	649.6	799.8	744.0	55.82	14.328	
9,800.0	9,607.7	9,686.5	9,607.7	31.3	24.3	-97.35	-77.1	649.6	799.8	743.9	55.89	14.311	
9,900.0	9,707.7	9,786.5	9,707.7	31.3	24.4	-97.35	-77.1	649.6	799.8	743.9	55.95	14.294	
10,000.0	9,807.7	9,886.5	9,807.7	31.3	24.4	-97.35	-77.1	649.6	799.8	743.8	56.02	14.277	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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		
10,100.0	9,907.7	9,986.5	9,907.7	31.3	24.5	-97.35	-77.1	649.6	799.8	743.7	56.09	14.260		
10,200.0	10,007.7	10,086.5	10,007.7	31.4	24.5	-97.35	-77.1	649.6	799.8	743.7	56.15	14.243		
10,300.0	10,107.7	10,186.5	10,107.7	31.4	24.5	-97.35	-77.1	649.6	799.8	743.6	56.22	14.226		
10,400.0	10,207.7	10,286.5	10,207.7	31.4	24.6	-97.35	-77.1	649.6	799.8	743.5	56.29	14.209		
10,500.0	10,307.7	10,386.5	10,307.7	31.5	24.6	-97.35	-77.1	649.6	799.8	743.5	56.36	14.192		
10,600.0	10,407.7	10,486.5	10,407.7	31.5	24.7	-97.35	-77.1	649.6	799.8	743.4	56.43	14.174		
10,700.0	10,507.7	10,586.5	10,507.7	31.5	24.7	-97.35	-77.1	649.6	799.8	743.3	56.50	14.157		
10,800.0	10,607.7	10,686.5	10,607.7	31.6	24.7	-97.35	-77.1	649.6	799.8	743.2	56.57	14.139		
10,900.0	10,707.7	10,786.5	10,707.7	31.6	24.8	-97.35	-77.1	649.6	799.8	743.2	56.64	14.122		
11,000.0	10,807.7	10,886.5	10,807.7	31.6	24.8	-97.35	-77.1	649.6	799.8	743.1	56.71	14.104		
11,100.0	10,907.7	10,986.5	10,907.7	31.6	24.9	-97.35	-77.1	649.6	799.8	743.0	56.78	14.087		
11,200.0	11,007.7	11,086.5	11,007.7	31.7	24.9	-97.35	-77.1	649.6	799.8	743.0	56.84	14.070		
11,300.0	11,107.7	11,186.5	11,107.7	31.7	25.0	-97.35	-77.1	649.6	799.8	742.9	56.91	14.055		
11,400.0	11,207.7	11,286.5	11,207.7	31.7	25.0	-97.35	-77.1	649.6	799.8	742.8	56.97	14.039		
11,435.9	11,243.6	11,322.4	11,243.6	31.7	25.0	-97.35	-77.1	649.6	799.8	742.8	56.98	14.036		
11,454.9	11,262.5	11,341.0	11,262.2	31.7	25.0	-97.35	-77.1	649.6	799.8	742.9	56.90	14.058		
11,475.0	11,282.7	11,357.7	11,278.9	31.7	25.0	-96.86	-77.5	649.6	799.9	743.2	56.72	14.102		
11,500.0	11,307.6	11,378.2	11,299.4	31.7	25.0	-97.00	-78.7	649.6	800.3	743.6	56.67	14.123		
11,525.0	11,332.4	11,400.0	11,321.0	31.7	25.0	-97.27	-81.0	649.6	801.0	744.4	56.62	14.149		
11,550.0	11,357.0	11,417.5	11,338.4	31.7	25.0	-97.53	-83.5	649.6	802.1	745.6	56.51	14.195		
11,575.0	11,381.4	11,435.9	11,356.4	31.7	25.0	-97.87	-86.8	649.6	803.5	747.2	56.40	14.248		
11,600.0	11,405.5	11,453.1	11,373.3	31.7	25.0	-98.23	-90.6	649.6	805.5	749.2	56.27	14.315		
11,625.0	11,429.1	11,469.2	11,388.8	31.7	25.0	-98.56	-94.7	649.7	807.9	751.8	56.11	14.398		
11,650.0	11,452.3	11,483.9	11,402.9	31.7	25.0	-98.85	-98.8	649.7	810.9	755.0	55.93	14.498		
11,675.0	11,475.0	11,500.0	11,418.2	31.7	25.0	-99.19	-103.9	649.7	814.5	758.8	55.75	14.610		
11,700.0	11,497.0	11,509.3	11,426.9	31.7	25.0	-99.16	-107.0	649.7	818.8	763.4	55.49	14.756		
11,725.0	11,518.5	11,520.0	11,436.9	31.7	25.0	-99.14	-110.9	649.8	823.9	768.6	55.23	14.916		
11,750.0	11,539.2	11,529.3	11,445.6	31.7	25.0	-98.99	-114.4	649.8	829.6	774.7	54.95	15.097		
11,775.0	11,559.2	11,537.5	11,453.0	31.7	25.0	-98.68	-117.6	649.8	836.2	781.5	54.66	15.299		
11,800.0	11,578.4	11,544.4	11,459.4	31.7	25.0	-98.21	-120.5	649.8	843.5	789.2	54.34	15.523		
11,825.0	11,596.7	11,550.0	11,464.4	31.8	25.0	-97.56	-122.8	649.8	851.6	797.6	54.01	15.767		
11,850.0	11,614.1	11,550.0	11,464.4	31.8	25.0	-96.43	-122.8	649.8	860.5	806.8	53.64	16.043		
11,875.0	11,630.5	11,558.7	11,472.3	31.8	25.0	-95.79	-126.6	649.9	870.0	816.7	53.32	16.316		
11,900.0	11,645.9	11,561.5	11,474.8	31.8	25.0	-94.64	-127.9	649.9	880.3	827.3	52.97	16.618		
11,925.0	11,660.3	11,563.5	11,476.6	31.8	25.0	-93.32	-128.8	649.9	891.2	838.6	52.62	16.938		
11,950.0	11,673.6	11,564.7	11,477.6	31.8	25.0	-91.84	-129.3	649.9	902.8	850.5	52.26	17.274		
11,975.0	11,685.7	11,565.1	11,478.0	31.8	25.0	-90.21	-129.5	649.9	914.9	863.0	51.91	17.625		
12,000.0	11,696.7	11,564.9	11,477.8	31.8	25.0	-88.43	-129.4	649.9	927.6	876.0	51.57	17.988		
12,025.0	11,706.5	11,564.1	11,477.1	31.8	25.0	-86.52	-129.0	649.9	940.7	889.5	51.23	18.364		
12,050.0	11,715.1	11,562.7	11,475.8	31.8	25.0	-84.50	-128.4	649.9	954.2	903.4	50.89	18.750		
12,075.0	11,722.4	11,560.7	11,474.1	31.8	25.0	-82.37	-127.5	649.9	968.1	917.6	50.57	19.144		
12,100.0	11,728.5	11,558.3	11,471.9	31.9	25.0	-80.17	-126.4	649.9	982.3	932.0	50.26	19.545		
12,125.0	11,733.3	11,550.0	11,464.4	31.9	25.0	-77.54	-122.8	649.8	996.7	946.8	49.93	19.960		

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	3.0	3.0	-137.93	-150.6	-135.9	202.8	195.8	6.98	29.055	
100.0	100.0	101.0	101.0	3.1	3.1	-137.93	-150.6	-135.9	202.8	195.6	7.23	28.062	
200.0	200.0	201.0	201.0	3.2	3.3	-137.93	-150.6	-135.9	202.8	195.4	7.47	27.158	
300.0	300.0	301.0	301.0	3.4	3.4	-137.93	-150.6	-135.9	202.8	195.1	7.70	26.327	
400.0	400.0	401.0	401.0	3.5	3.5	-137.93	-150.6	-135.9	202.8	194.9	7.94	25.558	
500.0	500.0	501.0	501.0	3.6	3.6	-137.93	-150.6	-135.9	202.8	194.7	8.16	24.844	
600.0	600.0	601.0	601.0	3.7	3.7	-137.93	-150.6	-135.9	202.8	194.4	8.39	24.180	
700.0	700.0	701.0	701.0	3.9	3.9	-137.93	-150.6	-135.9	202.8	194.2	8.61	23.558	
800.0	800.0	801.0	801.0	4.0	4.0	-137.93	-150.6	-135.9	202.8	194.0	8.83	22.975	
900.0	900.0	901.0	901.0	4.1	4.1	-137.93	-150.6	-135.9	202.8	193.8	9.04	22.427	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	-137.93	-150.6	-135.9	202.8	193.6	9.26	21.909	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	-137.93	-150.6	-135.9	202.8	193.4	9.47	21.421	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	-137.93	-150.6	-135.9	202.8	193.2	9.68	20.958	
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	-137.93	-150.6	-135.9	202.8	192.9	9.89	20.518	
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	-137.93	-150.6	-135.9	202.8	192.7	10.09	20.100	
1,500.0	1,500.0	1,501.1	1,501.1	4.8	4.8	-137.93	-150.6	-135.9	202.8	192.7	10.16	19.954	
1,600.0	1,600.0	1,606.2	1,606.2	4.9	4.9	133.05	-150.5	-133.9	202.7	192.5	10.25	19.785	
1,700.0	1,699.8	1,711.4	1,711.2	5.1	5.1	133.01	-150.3	-128.1	202.4	191.8	10.66	18.989	
1,800.0	1,799.5	1,816.6	1,815.9	5.3	5.3	132.94	-150.0	-118.4	202.0	190.9	11.09	18.221	
1,900.0	1,898.7	1,921.7	1,920.2	5.6	5.7	132.85	-149.5	-105.0	201.4	189.8	11.53	17.471	
2,000.0	1,997.5	2,026.8	2,023.8	5.9	6.0	132.74	-148.9	-87.6	200.6	188.6	11.99	16.733	
2,100.0	2,095.6	2,131.8	2,126.7	6.3	6.4	132.60	-148.1	-66.6	199.6	187.2	12.47	16.006	
2,200.0	2,193.1	2,235.1	2,227.1	6.6	6.7	132.48	-147.3	-42.4	198.7	185.7	12.98	15.307	
2,213.1	2,205.8	2,248.2	2,239.8	6.7	6.8	132.50	-147.2	-39.2	198.7	185.6	13.05	15.224 CC, ES	
2,300.0	2,289.6	2,335.1	2,324.1	7.0	7.0	132.92	-146.4	-18.2	199.6	186.0	13.53	14.754	
2,400.0	2,385.8	2,435.0	2,421.1	7.3	7.4	133.73	-145.6	6.0	201.6	187.6	14.09	14.314	
2,500.0	2,481.9	2,535.0	2,518.1	7.7	7.7	134.52	-144.8	30.1	203.8	189.1	14.69	13.876	
2,600.0	2,578.0	2,634.9	2,615.0	8.0	8.1	135.29	-143.9	54.3	205.9	190.6	15.32	13.445	
2,700.0	2,674.1	2,734.8	2,712.0	8.4	8.5	136.05	-143.1	78.4	208.2	192.2	15.98	13.025	
2,800.0	2,770.3	2,834.8	2,809.0	8.8	8.9	136.80	-142.2	102.6	210.4	193.7	16.67	12.619	
2,900.0	2,866.4	2,934.7	2,905.9	9.2	9.3	137.52	-141.4	126.8	212.7	195.3	17.39	12.229	
3,000.0	2,962.5	3,034.6	3,002.9	9.6	9.7	138.23	-140.5	150.9	215.0	196.8	18.13	11.856	
3,100.0	3,058.7	3,134.6	3,099.9	10.1	10.1	138.93	-139.7	175.1	217.3	198.4	18.90	11.501	
3,200.0	3,154.8	3,234.5	3,196.8	10.5	10.5	139.61	-138.9	199.3	219.7	200.0	19.68	11.164	
3,300.0	3,250.9	3,334.5	3,293.8	10.9	10.9	140.28	-138.0	223.4	222.1	201.6	20.48	10.844	
3,400.0	3,347.0	3,434.4	3,390.8	11.4	11.4	140.93	-137.2	247.6	224.5	203.2	21.30	10.541	
3,500.0	3,443.2	3,534.3	3,487.8	11.8	11.8	141.57	-136.3	271.7	227.0	204.9	22.14	10.254	
3,600.0	3,539.3	3,634.3	3,584.7	12.3	12.2	142.19	-135.5	295.9	229.5	206.5	22.99	9.984	
3,700.0	3,635.4	3,734.2	3,681.7	12.7	12.7	142.80	-134.6	320.1	232.0	208.1	23.85	9.728	
3,800.0	3,731.5	3,834.1	3,778.7	13.2	13.1	143.40	-133.8	344.2	234.5	209.8	24.72	9.486	
3,900.0	3,827.7	3,934.1	3,875.6	13.6	13.6	143.99	-132.9	368.4	237.1	211.5	25.61	9.258	
4,000.0	3,923.8	4,034.0	3,972.6	14.1	14.0	144.56	-132.1	392.6	239.7	213.2	26.51	9.043	
4,100.0	4,019.9	4,134.0	4,069.6	14.6	14.5	145.12	-131.3	416.7	242.3	214.9	27.41	8.839	
4,200.0	4,116.0	4,233.9	4,166.5	15.0	15.0	145.67	-130.4	440.9	244.9	216.6	28.33	8.647	
4,300.0	4,212.2	4,333.8	4,263.5	15.5	15.4	146.20	-129.6	465.0	247.6	218.3	29.25	8.464	
4,400.0	4,308.3	4,433.8	4,360.5	16.0	15.9	146.73	-128.7	489.2	250.3	220.1	30.18	8.292	
4,500.0	4,404.4	4,533.7	4,457.4	16.4	16.3	147.24	-127.9	513.4	253.0	221.9	31.12	8.129	
4,600.0	4,500.5	4,633.7	4,554.4	16.9	16.8	147.75	-127.0	537.5	255.7	223.6	32.07	7.974	
4,700.0	4,596.7	4,733.6	4,651.4	17.4	17.3	148.24	-126.2	561.7	258.4	225.4	33.02	7.827	
4,800.0	4,692.8	4,833.5	4,748.4	17.9	17.7	148.72	-125.4	585.9	261.2	227.2	33.97	7.688	
4,900.0	4,788.9	4,933.5	4,845.3	18.4	18.2	149.19	-124.5	610.0	264.0	229.0	34.94	7.556	
5,000.0	4,885.0	5,033.4	4,942.3	18.8	18.7	149.66	-123.7	634.2	266.8	230.9	35.90	7.430	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	4,981.2	5,133.3	5,039.3	19.3	19.2	150.11	-122.8	658.3	269.6	232.7	36.88	7.310	
5,200.0	5,077.3	5,233.3	5,136.2	19.8	19.6	150.55	-122.0	682.5	272.4	234.6	37.85	7.197	
5,300.0	5,173.4	5,333.2	5,233.2	20.3	20.1	150.98	-121.1	706.7	275.2	236.4	38.83	7.088	
5,400.0	5,269.6	5,433.2	5,330.2	20.8	20.6	151.41	-120.3	730.8	278.1	238.3	39.81	6.985	
5,500.0	5,365.7	5,533.1	5,427.1	21.3	21.1	151.83	-119.4	755.0	281.0	240.2	40.80	6.886	
5,600.0	5,461.8	5,633.0	5,524.1	21.8	21.5	152.23	-118.6	779.2	283.9	242.1	41.79	6.792	
5,700.0	5,557.9	5,733.0	5,621.1	22.3	22.0	152.63	-117.8	803.3	286.8	244.0	42.79	6.702	
5,800.0	5,654.1	5,832.9	5,718.1	22.7	22.5	153.03	-116.9	827.5	289.7	245.9	43.78	6.617	
5,900.0	5,750.2	5,932.8	5,815.0	23.2	23.0	153.41	-116.1	851.6	292.6	247.8	44.78	6.534	
6,000.0	5,846.3	6,032.8	5,912.0	23.7	23.4	153.79	-115.2	875.8	295.6	249.8	45.78	6.456	
6,100.0	5,942.4	6,132.7	6,009.0	24.2	23.9	154.15	-114.4	900.0	298.5	251.7	46.78	6.381	
6,200.0	6,038.6	6,228.8	6,102.3	24.7	24.4	154.55	-113.6	922.6	302.0	254.3	47.76	6.324	
6,300.0	6,134.7	6,324.0	6,195.2	25.2	24.8	155.05	-112.9	943.6	307.0	258.3	48.76	6.297 SF	
6,400.0	6,230.8	6,419.0	6,288.2	25.7	25.3	155.65	-112.2	963.0	313.6	263.8	49.76	6.303	
6,500.0	6,326.9	6,513.8	6,381.3	26.2	25.7	156.33	-111.6	980.7	321.7	271.0	50.76	6.339	
6,600.0	6,423.1	6,608.2	6,474.3	26.7	26.1	157.08	-111.0	996.9	331.4	279.7	51.75	6.404	
6,700.0	6,519.2	6,700.0	6,565.0	27.2	26.5	157.86	-110.5	1,011.2	342.7	290.0	52.70	6.504	
6,730.0	6,548.0	6,730.4	6,595.1	27.3	26.6	158.12	-110.3	1,015.6	346.4	293.4	53.02	6.534	
6,800.0	6,615.5	6,796.1	6,660.2	27.7	26.9	158.72	-110.0	1,024.5	354.8	301.1	53.68	6.610	
6,900.0	6,712.7	6,889.9	6,753.2	28.2	27.3	159.44	-109.6	1,036.0	365.4	310.8	54.57	6.695	
7,000.0	6,810.7	6,983.7	6,846.5	28.6	27.7	160.01	-109.3	1,046.0	374.3	318.9	55.40	6.757	
7,100.0	6,909.3	7,077.6	6,940.0	29.1	28.1	160.45	-109.0	1,054.5	381.5	325.4	56.15	6.794	
7,200.0	7,008.4	7,171.4	7,033.6	29.6	28.4	160.78	-108.7	1,061.4	387.0	330.2	56.83	6.810	
7,300.0	7,107.9	7,265.3	7,127.3	30.0	28.7	161.00	-108.6	1,066.8	390.8	333.3	57.43	6.804	
7,400.0	7,207.7	7,359.1	7,221.1	30.3	29.0	161.12	-108.4	1,070.7	392.8	334.8	57.93	6.780	
7,500.0	7,307.7	7,453.0	7,314.9	30.6	29.3	161.14	-108.3	1,073.0	393.1	334.8	58.30	6.741	
7,530.0	7,337.6	7,481.1	7,343.0	30.7	29.4	-109.87	-108.3	1,073.4	392.8	334.4	58.35	6.732	
7,600.0	7,407.7	7,548.2	7,410.1	30.7	29.5	-109.89	-108.3	1,073.8	392.4	334.0	58.37	6.723	
7,633.8	7,441.5	7,580.6	7,442.5	30.7	29.5	-109.89	-108.3	1,073.8	392.4	334.1	58.34	6.726	
7,700.0	7,507.7	7,646.8	7,508.7	30.7	29.5	-109.89	-108.3	1,073.8	392.4	334.0	58.37	6.722	
7,800.0	7,607.7	7,746.8	7,608.7	30.7	29.5	-109.89	-108.3	1,073.8	392.4	334.0	58.42	6.716	
7,900.0	7,707.7	7,846.8	7,708.7	30.8	29.6	-109.89	-108.3	1,073.8	392.4	333.9	58.48	6.710	
8,000.0	7,807.7	7,946.8	7,808.7	30.8	29.6	-109.89	-108.3	1,073.8	392.4	333.9	58.53	6.704	
8,100.0	7,907.7	8,046.8	7,908.7	30.8	29.6	-109.89	-108.3	1,073.8	392.4	333.8	58.58	6.698	
8,200.0	8,007.7	8,146.8	8,008.7	30.8	29.6	-109.89	-108.3	1,073.8	392.4	333.8	58.64	6.692	
8,300.0	8,107.7	8,246.8	8,108.7	30.9	29.7	-109.89	-108.3	1,073.8	392.4	333.7	58.69	6.686	
8,400.0	8,207.7	8,346.8	8,208.7	30.9	29.7	-109.89	-108.3	1,073.8	392.4	333.7	58.74	6.680	
8,500.0	8,307.7	8,446.8	8,308.7	30.9	29.7	-109.89	-108.3	1,073.8	392.4	333.6	58.80	6.674	
8,600.0	8,407.7	8,546.8	8,408.7	30.9	29.7	-109.89	-108.3	1,073.8	392.4	333.5	58.85	6.667	
8,700.0	8,507.7	8,646.8	8,508.7	31.0	29.8	-109.89	-108.3	1,073.8	392.4	333.5	58.91	6.661	
8,800.0	8,607.7	8,746.8	8,608.7	31.0	29.8	-109.89	-108.3	1,073.8	392.4	333.4	58.97	6.655	
8,900.0	8,707.7	8,846.8	8,708.7	31.0	29.8	-109.89	-108.3	1,073.8	392.4	333.4	59.02	6.648	
9,000.0	8,807.7	8,946.8	8,808.7	31.0	29.9	-109.89	-108.3	1,073.8	392.4	333.3	59.08	6.642	
9,100.0	8,907.7	9,046.8	8,908.7	31.1	29.9	-109.89	-108.3	1,073.8	392.4	333.3	59.14	6.635	
9,200.0	9,007.7	9,146.8	9,008.7	31.1	29.9	-109.89	-108.3	1,073.8	392.4	333.2	59.19	6.629	
9,300.0	9,107.7	9,246.8	9,108.7	31.1	29.9	-109.89	-108.3	1,073.8	392.4	333.1	59.25	6.623	
9,400.0	9,207.7	9,346.8	9,208.7	31.1	30.0	-109.89	-108.3	1,073.8	392.4	333.1	59.31	6.616	
9,500.0	9,307.7	9,446.8	9,308.7	31.2	30.0	-109.89	-108.3	1,073.8	392.4	333.0	59.37	6.610	
9,600.0	9,407.7	9,546.8	9,408.7	31.2	30.0	-109.89	-108.3	1,073.8	392.4	333.0	59.43	6.603	
9,700.0	9,507.7	9,646.8	9,508.7	31.2	30.1	-109.89	-108.3	1,073.8	392.4	332.9	59.49	6.596	
9,800.0	9,607.7	9,746.8	9,608.7	31.3	30.1	-109.89	-108.3	1,073.8	392.4	332.9	59.55	6.590	
9,900.0	9,707.7	9,846.8	9,708.7	31.3	30.1	-109.89	-108.3	1,073.8	392.4	332.8	59.61	6.583	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	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	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
10,000.0	9,807.7	9,946.8	9,808.7	31.3	30.1	-109.89	-108.3	1,073.8	392.4	332.7	59.67	6.576	
10,100.0	9,907.7	10,046.8	9,908.7	31.3	30.2	-109.89	-108.3	1,073.8	392.4	332.7	59.73	6.570	
10,200.0	10,007.7	10,146.8	10,008.7	31.4	30.2	-109.89	-108.3	1,073.8	392.4	332.6	59.79	6.563	
10,300.0	10,107.7	10,246.8	10,108.7	31.4	30.2	-109.89	-108.3	1,073.8	392.4	332.5	59.85	6.556	
10,400.0	10,207.7	10,346.8	10,208.7	31.4	30.3	-109.89	-108.3	1,073.8	392.4	332.5	59.91	6.549	
10,500.0	10,307.7	10,446.8	10,308.7	31.5	30.3	-109.89	-108.3	1,073.8	392.4	332.4	59.98	6.543	
10,600.0	10,407.7	10,546.8	10,408.7	31.5	30.3	-109.89	-108.3	1,073.8	392.4	332.4	60.04	6.536	
10,700.0	10,507.7	10,646.8	10,508.7	31.5	30.4	-109.89	-108.3	1,073.8	392.4	332.3	60.10	6.529	
10,800.0	10,607.7	10,746.8	10,608.7	31.6	30.4	-109.89	-108.3	1,073.8	392.4	332.2	60.17	6.522	
10,900.0	10,707.7	10,846.8	10,708.7	31.6	30.4	-109.89	-108.3	1,073.8	392.4	332.2	60.23	6.515	
11,000.0	10,807.7	10,946.8	10,808.7	31.6	30.5	-109.89	-108.3	1,073.8	392.4	332.1	60.29	6.508	
11,100.0	10,907.7	11,046.8	10,908.7	31.6	30.5	-109.89	-108.3	1,073.8	392.4	332.0	60.36	6.501	
11,200.0	11,007.7	11,146.8	11,008.7	31.7	30.5	-109.89	-108.3	1,073.8	392.4	332.0	60.42	6.495	
11,300.0	11,107.7	11,246.8	11,108.7	31.7	30.5	-109.89	-108.3	1,073.8	392.4	331.9	60.48	6.488	
11,400.0	11,207.7	11,346.8	11,208.7	31.7	30.6	-109.89	-108.3	1,073.8	392.4	331.9	60.53	6.482	
11,454.9	11,262.5	11,401.6	11,263.5	31.7	30.6	-109.89	-108.3	1,073.8	392.4	331.8	60.56	6.480	
11,475.0	11,282.7	11,421.8	11,283.7	31.7	30.6	-109.41	-108.3	1,073.8	392.5	332.1	60.42	6.496	
11,500.0	11,307.6	11,446.7	11,308.6	31.7	30.6	-109.58	-108.3	1,073.8	393.1	332.7	60.39	6.510	
11,525.0	11,332.4	11,471.5	11,333.4	31.7	30.6	-109.87	-108.3	1,073.8	394.1	333.8	60.32	6.534	
11,550.0	11,357.0	11,496.2	11,358.0	31.7	30.6	-110.28	-108.3	1,073.8	395.6	335.4	60.21	6.571	
11,575.0	11,381.4	11,520.5	11,382.4	31.7	30.6	-110.79	-108.3	1,073.8	397.6	337.6	60.07	6.620	
11,600.0	11,405.5	11,544.6	11,406.5	31.7	30.6	-111.40	-108.3	1,073.8	400.2	340.3	59.88	6.683	
11,625.0	11,429.1	11,568.2	11,430.1	31.7	30.6	-112.07	-108.3	1,073.8	403.3	343.7	59.65	6.762	
11,650.0	11,452.3	11,587.0	11,448.9	31.7	30.7	-112.57	-108.5	1,073.8	407.2	348.1	59.17	6.882	
11,675.0	11,475.0	11,600.0	11,461.9	31.7	30.7	-112.79	-109.0	1,073.8	412.2	353.6	58.58	7.037	
11,700.0	11,497.0	11,618.4	11,480.2	31.7	30.7	-113.37	-110.3	1,073.8	418.2	360.1	58.07	7.201	
11,725.0	11,518.5	11,632.4	11,494.1	31.7	30.7	-113.63	-111.8	1,073.8	425.4	368.0	57.42	7.408	
11,750.0	11,539.2	11,645.2	11,506.8	31.7	30.7	-113.75	-113.5	1,073.8	433.8	377.1	56.72	7.649	
11,775.0	11,559.2	11,656.8	11,518.3	31.7	30.7	-113.68	-115.4	1,073.8	443.5	387.5	55.97	7.924	
11,800.0	11,578.4	11,667.2	11,528.5	31.7	30.7	-113.39	-117.3	1,073.9	454.4	399.2	55.19	8.232	
11,825.0	11,596.7	11,675.0	11,536.1	31.8	30.7	-112.69	-118.8	1,073.9	466.5	412.1	54.38	8.579	
11,850.0	11,614.1	11,684.4	11,545.3	31.8	30.7	-112.01	-120.9	1,073.9	479.8	426.2	53.61	8.949	
11,875.0	11,630.5	11,691.4	11,552.1	31.8	30.7	-110.86	-122.5	1,073.9	494.2	441.4	52.83	9.354	
11,900.0	11,645.9	11,700.0	11,560.5	31.8	30.7	-109.74	-124.7	1,073.9	509.6	457.5	52.11	9.781	
11,925.0	11,660.3	11,700.0	11,560.5	31.8	30.7	-107.26	-124.7	1,073.9	526.1	474.7	51.32	10.251	
11,950.0	11,673.6	11,706.0	11,566.3	31.8	30.7	-105.32	-126.3	1,073.9	543.3	492.7	50.65	10.727	
11,975.0	11,685.7	11,709.1	11,569.2	31.8	30.7	-102.71	-127.1	1,073.9	561.4	511.4	50.00	11.227	
12,000.0	11,696.7	11,711.3	11,571.3	31.8	30.7	-99.70	-127.7	1,073.9	580.1	530.7	49.40	11.744	
12,025.0	11,706.5	11,712.8	11,572.8	31.8	30.7	-96.30	-128.2	1,073.9	599.5	550.6	48.84	12.275	
12,050.0	11,715.1	11,713.5	11,573.5	31.8	30.7	-92.52	-128.4	1,073.9	619.3	571.0	48.32	12.818	
12,075.0	11,722.4	11,713.6	11,573.6	31.8	30.7	-88.42	-128.4	1,073.9	639.5	591.7	47.84	13.369	
12,100.0	11,728.5	11,713.1	11,573.0	31.9	30.7	-84.04	-128.2	1,073.9	660.0	612.6	47.40	13.926	
12,125.0	11,733.3	11,712.0	11,572.0	31.9	30.7	-79.46	-127.9	1,073.9	680.8	633.8	46.99	14.487	
12,150.0	11,736.9	11,710.4	11,570.4	31.9	30.7	-74.78	-127.5	1,073.9	701.6	655.0	46.62	15.050	
12,175.0	11,739.1	11,708.3	11,568.4	31.9	30.7	-70.10	-126.9	1,073.9	722.6	676.3	46.28	15.614	
12,200.0	11,740.0	11,700.0	11,560.5	31.9	30.7	-64.80	-124.7	1,073.9	743.6	697.7	45.95	16.184	
12,204.9	11,740.0	11,700.0	11,560.5	31.9	30.7	-64.00	-124.7	1,073.9	747.7	701.8	45.89	16.292	
12,300.0	11,740.0	11,700.0	11,560.5	32.0	30.7	-64.00	-124.7	1,073.9	828.7	783.8	44.94	18.441	
12,400.0	11,740.0	11,686.0	11,546.9	32.2	30.7	-62.34	-121.3	1,073.9	916.5	872.4	44.14	20.766	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11461-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.0	1.0	3.0	3.0	-146.49	-167.3	-110.8	200.7	193.7	6.98	28.746	
100.0	100.0	101.0	101.0	3.1	3.1	-146.49	-167.3	-110.8	200.7	193.4	7.23	27.762	
200.0	200.0	201.0	201.0	3.2	3.3	-146.49	-167.3	-110.8	200.7	193.2	7.47	26.862	
300.0	300.0	301.0	301.0	3.4	3.4	-146.49	-167.3	-110.8	200.7	193.0	7.71	26.031	
400.0	400.0	401.0	401.0	3.5	3.5	-146.49	-167.3	-110.8	200.7	192.7	7.94	25.261	
500.0	500.0	501.0	501.0	3.6	3.6	-146.49	-167.3	-110.8	200.7	192.5	8.18	24.544	
600.0	600.0	601.0	601.0	3.7	3.7	-146.49	-167.3	-110.8	200.7	192.3	8.41	23.874	
700.0	700.0	701.0	701.0	3.9	3.9	-146.49	-167.3	-110.8	200.7	192.0	8.63	23.246	
800.0	800.0	801.0	801.0	4.0	4.0	-146.49	-167.3	-110.8	200.7	191.8	8.86	22.657	
900.0	900.0	901.0	901.0	4.1	4.1	-146.49	-167.3	-110.8	200.7	191.6	9.08	22.102	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	-146.49	-167.3	-110.8	200.7	191.4	9.30	21.577	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	-146.49	-167.3	-110.8	200.7	191.2	9.52	21.081	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	-146.49	-167.3	-110.8	200.7	190.9	9.74	20.611	
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	-146.49	-167.3	-110.8	200.7	190.7	9.95	20.164	
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	-146.49	-167.3	-110.8	200.7	190.5	10.17	19.739	
1,500.0	1,500.0	1,501.0	1,501.0	4.8	4.8	-146.49	-167.3	-110.8	200.7	190.4	10.25	19.579	
1,600.0	1,600.0	1,605.2	1,605.1	4.9	4.9	124.48	-167.3	-108.8	200.6	190.3	10.30	19.477	
1,700.0	1,699.8	1,709.3	1,709.1	5.1	5.1	124.42	-167.2	-103.1	200.5	189.8	10.68	18.779	
1,800.0	1,799.5	1,813.4	1,812.8	5.3	5.3	124.33	-167.0	-93.7	200.2	189.2	11.06	18.113	
1,900.0	1,898.7	1,917.5	1,916.0	5.6	5.6	124.20	-166.8	-80.4	199.9	188.5	11.45	17.468	
2,000.0	1,997.5	2,021.6	2,018.7	5.9	6.0	124.04	-166.5	-63.4	199.6	187.7	11.85	16.837	
2,100.0	2,095.6	2,125.6	2,120.6	6.3	6.3	123.84	-166.1	-42.8	199.1	186.8	12.28	16.218	
2,200.0	2,193.1	2,229.6	2,221.7	6.6	6.7	123.61	-165.7	-18.4	198.6	185.8	12.72	15.606	
2,300.0	2,289.6	2,332.3	2,320.7	7.0	7.1	123.39	-165.2	9.1	198.1	184.9	13.20	15.009	
2,400.0	2,385.8	2,432.3	2,416.8	7.3	7.4	123.39	-164.8	36.6	198.1	184.4	13.68	14.483	
2,500.0	2,481.9	2,532.3	2,512.9	7.7	7.8	123.39	-164.3	64.2	198.1	183.9	14.18	13.967	
2,600.0	2,578.0	2,632.3	2,609.1	8.0	8.2	123.39	-163.8	91.8	198.1	183.4	14.71	13.464	
2,700.0	2,674.1	2,732.3	2,705.2	8.4	8.6	123.39	-163.3	119.3	198.1	182.8	15.26	12.979	
2,800.0	2,770.3	2,832.3	2,801.3	8.8	9.0	123.39	-162.8	146.9	198.1	182.2	15.83	12.514	
2,900.0	2,866.4	2,932.3	2,897.4	9.2	9.4	123.39	-162.4	174.4	198.1	181.7	16.41	12.068	
3,000.0	2,962.5	3,032.3	2,993.6	9.6	9.8	123.39	-161.9	202.0	198.1	181.1	17.01	11.643	
3,100.0	3,058.7	3,132.3	3,089.7	10.1	10.2	123.39	-161.4	229.6	198.1	180.4	17.62	11.238	
3,200.0	3,154.8	3,232.3	3,185.8	10.5	10.6	123.39	-160.9	257.1	198.1	179.8	18.25	10.854	
3,300.0	3,250.9	3,332.3	3,282.0	10.9	11.1	123.39	-160.4	284.7	198.1	179.2	18.88	10.489	
3,400.0	3,347.0	3,432.3	3,378.1	11.4	11.5	123.39	-159.9	312.2	198.1	178.5	19.53	10.143	
3,500.0	3,443.2	3,532.3	3,474.2	11.8	11.9	123.39	-159.5	339.8	198.1	177.9	20.18	9.815	
3,510.0	3,452.8	3,542.3	3,483.8	11.8	12.0	123.39	-159.4	342.6	198.1	177.8	20.25	9.783	
3,600.0	3,539.3	3,632.3	3,570.3	12.3	12.4	123.39	-159.0	367.4	198.1	177.2	20.84	9.504	
3,700.0	3,635.4	3,732.3	3,666.5	12.7	12.9	123.39	-158.5	394.9	198.1	176.6	21.51	9.209	
3,800.0	3,731.5	3,832.3	3,762.6	13.2	13.3	123.39	-158.0	422.5	198.1	175.9	22.18	8.930	
3,900.0	3,827.7	3,932.3	3,858.7	13.6	13.8	123.39	-157.5	450.0	198.1	175.2	22.86	8.664	
4,000.0	3,923.8	4,032.3	3,954.8	14.1	14.2	123.39	-157.1	477.6	198.1	174.5	23.54	8.412	
4,100.0	4,019.9	4,132.3	4,051.0	14.6	14.7	123.39	-156.6	505.2	198.1	173.8	24.23	8.173	
4,200.0	4,116.0	4,232.3	4,147.1	15.0	15.2	123.39	-156.1	532.7	198.1	173.1	24.93	7.946	
4,300.0	4,212.2	4,332.3	4,243.2	15.5	15.6	123.39	-155.6	560.3	198.1	172.4	25.63	7.729	
4,400.0	4,308.3	4,432.3	4,339.3	16.0	16.1	123.39	-155.1	587.8	198.1	171.7	26.33	7.523	
4,500.0	4,404.4	4,532.3	4,435.5	16.4	16.6	123.39	-154.7	615.4	198.1	171.0	27.03	7.327	
4,600.0	4,500.5	4,632.3	4,531.6	16.9	17.1	123.39	-154.2	643.0	198.1	170.3	27.74	7.140	
4,700.0	4,596.7	4,732.3	4,627.7	17.4	17.6	123.39	-153.7	670.5	198.1	169.6	28.45	6.962	
4,800.0	4,692.8	4,832.3	4,723.8	17.9	18.0	123.39	-153.2	698.1	198.1	168.9	29.16	6.792	
4,900.0	4,788.9	4,932.3	4,820.0	18.4	18.5	123.39	-152.7	725.6	198.1	168.2	29.88	6.629	
4,958.2	4,844.9	4,990.5	4,875.9	18.6	18.8	123.39	-152.5	741.7	198.1	167.8	30.30	6.538	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11461-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	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	5,032.3	4,916.1	18.8	19.0	123.39	-152.2	753.2	198.1	167.5	30.60	6.473	
5,100.0	4,981.2	5,132.3	5,012.2	19.3	19.5	123.39	-151.8	780.7	198.1	166.7	31.32	6.324	
5,160.0	5,038.9	5,192.3	5,069.9	19.6	19.8	123.39	-151.5	797.3	198.1	166.3	31.75	6.238	
5,200.0	5,077.3	5,232.3	5,108.3	19.8	20.0	123.39	-151.3	808.3	198.1	166.0	32.04	6.182	
5,300.0	5,173.4	5,332.3	5,204.5	20.3	20.5	123.39	-150.8	835.9	198.1	165.3	32.76	6.045	
5,400.0	5,269.6	5,432.3	5,300.6	20.8	20.9	123.39	-150.3	863.4	198.1	164.6	33.49	5.914	
5,468.2	5,335.1	5,500.5	5,366.2	21.1	21.3	123.39	-150.0	882.2	198.1	164.1	33.99	5.828	
5,500.0	5,365.7	5,532.3	5,396.7	21.3	21.4	123.39	-149.8	891.0	198.1	163.8	34.22	5.789	
5,600.0	5,461.8	5,632.3	5,492.9	21.8	21.9	123.39	-149.4	918.5	198.1	163.1	34.95	5.668	
5,700.0	5,557.9	5,732.3	5,589.0	22.3	22.4	123.39	-148.9	946.1	198.1	162.4	35.68	5.552	
5,775.4	5,630.4	5,807.7	5,661.4	22.6	22.8	123.39	-148.5	966.9	198.1	161.8	36.23	5.467	
5,800.0	5,654.1	5,832.3	5,685.1	22.7	22.9	123.39	-148.4	973.7	198.1	161.7	36.41	5.440	
5,900.0	5,750.2	5,932.3	5,781.2	23.2	23.4	123.39	-147.9	1,001.2	198.1	160.9	37.14	5.333	
5,960.0	5,807.9	5,992.3	5,838.9	23.5	23.7	123.39	-147.6	1,017.8	198.1	160.5	37.58	5.270	
6,000.0	5,846.3	6,032.3	5,877.4	23.7	23.9	123.39	-147.4	1,028.8	198.1	160.2	37.87	5.230	
6,016.9	5,862.5	6,049.1	5,893.6	23.8	24.0	123.39	-147.4	1,033.4	198.1	160.1	38.00	5.212	
6,100.0	5,942.4	6,132.2	5,973.4	24.2	24.4	123.39	-147.0	1,056.3	198.1	159.5	38.60	5.131	
6,200.0	6,038.6	6,231.3	6,068.8	24.7	24.9	123.51	-146.5	1,083.1	198.3	159.0	39.37	5.038	
6,300.0	6,134.7	6,330.3	6,164.3	25.2	25.3	123.83	-146.0	1,109.1	199.1	158.9	40.20	4.953	
6,400.0	6,230.8	6,429.3	6,260.1	25.7	25.8	124.36	-145.6	1,134.3	200.3	159.2	41.10	4.874	
6,500.0	6,326.9	6,528.3	6,356.0	26.2	26.3	125.07	-145.2	1,158.6	202.1	160.0	42.07	4.804	
6,600.0	6,423.1	6,627.2	6,452.1	26.7	26.8	125.97	-144.8	1,182.1	204.4	161.3	43.11	4.741	
6,700.0	6,519.2	6,726.0	6,548.3	27.2	27.2	127.04	-144.4	1,204.7	207.3	163.1	44.22	4.687	
6,730.0	6,548.0	6,755.6	6,577.1	27.3	27.4	127.39	-144.3	1,211.3	208.2	163.7	44.56	4.673	
6,800.0	6,615.5	6,824.8	6,644.6	27.7	27.7	128.11	-144.0	1,226.5	210.2	164.9	45.31	4.639	
6,900.0	6,712.7	6,923.6	6,741.2	28.2	28.2	128.62	-143.6	1,247.5	211.7	165.5	46.20	4.582	
7,000.0	6,810.7	7,022.5	6,838.0	28.6	28.6	128.56	-143.3	1,267.6	211.5	164.7	46.85	4.515	
7,100.0	6,909.3	7,121.3	6,934.9	29.1	29.1	127.92	-142.9	1,286.9	209.7	162.5	47.23	4.440	
7,200.0	7,008.4	7,220.1	7,031.9	29.6	29.6	126.67	-142.6	1,305.4	206.4	159.0	47.33	4.360	
7,300.0	7,107.9	7,318.7	7,129.0	30.0	30.0	124.76	-142.3	1,323.0	201.6	154.5	47.10	4.280	
7,400.0	7,207.7	7,417.2	7,226.0	30.3	30.5	122.10	-142.0	1,339.7	195.6	149.1	46.49	4.208	
7,500.0	7,307.7	7,515.4	7,323.0	30.6	30.9	118.59	-141.7	1,355.6	188.8	143.4	45.45	4.154	
7,530.0	7,337.6	7,544.8	7,352.0	30.7	31.0	-153.64	-141.7	1,360.1	186.7	141.6	45.04	4.145	
7,600.0	7,407.7	7,613.6	7,420.0	30.7	31.3	-156.57	-141.5	1,370.6	182.0	138.0	44.02	4.135	
7,700.0	7,507.7	7,711.9	7,517.3	30.7	31.7	-160.78	-141.2	1,384.8	176.4	133.8	42.65	4.137	
7,800.0	7,607.7	7,810.5	7,615.0	30.7	32.2	-164.97	-141.0	1,398.2	172.2	130.7	41.44	4.154	
7,900.0	7,707.7	7,909.4	7,713.0	30.8	32.6	-169.08	-140.8	1,410.8	169.1	128.6	40.48	4.177	
8,000.0	7,807.7	8,008.4	7,811.3	30.8	33.0	-173.04	-140.6	1,422.6	167.0	127.2	39.81	4.195	
8,100.0	7,907.7	8,107.6	7,910.0	30.8	33.4	-176.78	-140.4	1,433.5	165.8	126.4	39.44	4.205	
8,200.0	8,007.7	8,207.1	8,008.9	30.8	33.8	-179.72	-140.2	1,443.6	165.4	126.0	39.36	4.202	
8,221.7	8,029.4	8,228.6	8,030.4	30.8	33.9	-179.00	-140.2	1,445.7	165.4	126.0	39.37	4.200 CC, ES	
8,300.0	8,107.7	8,306.6	8,108.0	30.9	34.2	-176.51	-140.0	1,452.9	165.5	126.0	39.52	4.189	
8,400.0	8,207.7	8,406.4	8,207.4	30.9	34.6	-173.61	-139.9	1,461.3	166.1	126.2	39.87	4.166	
8,500.0	8,307.7	8,506.3	8,307.0	30.9	35.0	-171.03	-139.8	1,468.8	167.0	126.6	40.35	4.139	
8,600.0	8,407.7	8,606.3	8,406.8	30.9	35.3	-168.76	-139.6	1,475.5	168.1	127.2	40.90	4.109	
8,700.0	8,507.7	8,706.4	8,506.7	31.0	35.7	-166.82	-139.5	1,481.4	169.2	127.7	41.47	4.080	
8,800.0	8,607.7	8,806.6	8,606.8	31.0	36.0	-165.19	-139.5	1,486.3	170.3	128.3	42.03	4.052	
8,900.0	8,707.7	8,906.9	8,707.0	31.0	36.3	-163.86	-139.4	1,490.4	171.3	128.8	42.54	4.027	
9,000.0	8,807.7	9,007.2	8,807.3	31.0	36.6	-162.82	-139.3	1,493.6	172.2	129.2	42.99	4.006	
9,100.0	8,907.7	9,107.7	8,907.7	31.1	36.9	-162.08	-139.3	1,496.0	172.9	129.5	43.36	3.987	
9,200.0	9,007.7	9,208.1	9,008.2	31.1	37.2	-161.62	-139.3	1,497.4	173.3	129.7	43.63	3.972	
9,300.0	9,107.7	9,308.5	9,108.6	31.1	37.4	-161.43	-139.2	1,498.0	173.5	129.7	43.80	3.961	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11461-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,400.0	9,207.7	9,408.6	9,208.7	31.1	37.4	161.43	-139.2	1,498.0	173.5	129.6	43.87	3.954	
9,500.0	9,307.7	9,508.6	9,308.7	31.2	37.4	161.43	-139.2	1,498.0	173.5	129.5	43.96	3.946	
9,600.0	9,407.7	9,608.6	9,408.7	31.2	37.5	161.43	-139.2	1,498.0	173.5	129.4	44.05	3.938	
9,700.0	9,507.7	9,708.6	9,508.7	31.2	37.5	161.43	-139.2	1,498.0	173.5	129.3	44.13	3.931	
9,800.0	9,607.7	9,808.6	9,608.7	31.3	37.5	161.43	-139.2	1,498.0	173.5	129.2	44.22	3.923	
9,900.0	9,707.7	9,908.6	9,708.7	31.3	37.5	161.43	-139.2	1,498.0	173.5	129.2	44.31	3.915	
10,000.0	9,807.7	10,008.6	9,808.7	31.3	37.5	161.43	-139.2	1,498.0	173.5	129.1	44.40	3.907	
10,100.0	9,907.7	10,108.6	9,908.7	31.3	37.6	161.43	-139.2	1,498.0	173.5	129.0	44.48	3.899	
10,200.0	10,007.7	10,208.6	10,008.7	31.4	37.6	161.43	-139.2	1,498.0	173.5	128.9	44.57	3.892	
10,300.0	10,107.7	10,308.6	10,108.7	31.4	37.6	161.43	-139.2	1,498.0	173.5	128.8	44.66	3.884	
10,400.0	10,207.7	10,408.6	10,208.7	31.4	37.6	161.43	-139.2	1,498.0	173.5	128.7	44.75	3.876	
10,500.0	10,307.7	10,508.6	10,308.7	31.5	37.6	161.43	-139.2	1,498.0	173.5	128.6	44.84	3.868	
10,600.0	10,407.7	10,608.6	10,408.7	31.5	37.7	161.43	-139.2	1,498.0	173.5	128.5	44.93	3.861	
10,700.0	10,507.7	10,708.6	10,508.7	31.5	37.7	161.43	-139.2	1,498.0	173.5	128.4	45.02	3.853	
10,800.0	10,607.7	10,808.6	10,608.7	31.6	37.7	161.43	-139.2	1,498.0	173.5	128.3	45.11	3.845	
10,900.0	10,707.7	10,908.6	10,708.7	31.6	37.7	161.43	-139.2	1,498.0	173.5	128.3	45.21	3.837	
11,000.0	10,807.7	11,008.6	10,808.7	31.6	37.7	161.43	-139.2	1,498.0	173.5	128.2	45.30	3.829	
11,100.0	10,907.7	11,108.6	10,908.7	31.6	37.8	161.43	-139.2	1,498.0	173.5	128.1	45.39	3.822	
11,200.0	11,007.7	11,208.6	11,008.7	31.7	37.8	161.43	-139.2	1,498.0	173.5	128.0	45.47	3.815	
11,300.0	11,107.7	11,308.6	11,108.7	31.7	37.8	161.43	-139.2	1,498.0	173.5	127.9	45.55	3.808	
11,400.0	11,207.7	11,408.6	11,208.7	31.7	37.8	161.43	-139.2	1,498.0	173.5	127.8	45.63	3.802	
11,435.9	11,243.6	11,444.5	11,244.6	31.7	37.8	161.43	-139.2	1,498.0	173.5	127.8	45.64	3.800	
11,454.9	11,262.5	11,461.5	11,261.5	31.7	37.8	161.43	-139.2	1,498.0	173.5	127.8	45.71	3.795 SF	
11,475.0	11,282.7	11,475.0	11,275.1	31.7	37.8	161.97	-139.4	1,498.0	174.3	128.6	45.69	3.814	
11,500.0	11,307.6	11,496.3	11,296.3	31.7	37.9	162.11	-140.5	1,498.0	177.1	131.4	45.73	3.873	
11,525.0	11,332.4	11,514.3	11,314.2	31.7	37.9	162.30	-142.2	1,498.1	182.2	136.3	45.81	3.976	
11,550.0	11,357.0	11,531.7	11,331.5	31.7	37.9	162.53	-144.4	1,498.1	189.3	143.4	45.84	4.128	
11,575.0	11,381.4	11,550.0	11,349.6	31.7	37.9	162.85	-147.4	1,498.1	198.4	152.6	45.79	4.333	
11,600.0	11,405.5	11,564.1	11,363.3	31.7	37.9	163.01	-150.2	1,498.1	209.4	163.6	45.83	4.570	
11,625.0	11,429.1	11,575.0	11,374.0	31.7	37.9	163.00	-152.7	1,498.1	222.4	176.4	45.93	4.841	
11,650.0	11,452.3	11,592.4	11,390.8	31.7	37.9	163.30	-157.1	1,498.2	236.9	191.1	45.77	5.175	
11,675.0	11,475.0	11,604.9	11,402.8	31.7	37.9	163.31	-160.6	1,498.2	253.0	207.2	45.75	5.530	
11,700.0	11,497.0	11,616.3	11,413.6	31.7	37.9	163.18	-164.1	1,498.2	270.5	224.8	45.73	5.916	
11,725.0	11,518.5	11,625.0	11,421.9	31.7	37.9	162.78	-167.0	1,498.2	289.4	243.6	45.76	6.324	
11,750.0	11,539.2	11,635.5	11,431.7	31.7	37.9	162.39	-170.6	1,498.2	309.3	263.6	45.71	6.766	
11,775.0	11,559.2	11,643.4	11,439.1	31.7	37.9	161.65	-173.5	1,498.3	330.3	284.6	45.71	7.225	
11,800.0	11,578.4	11,650.0	11,445.2	31.7	37.9	160.56	-176.0	1,498.3	352.1	306.4	45.72	7.701	
11,825.0	11,596.7	11,656.1	11,450.8	31.8	37.9	159.09	-178.4	1,498.3	374.7	329.0	45.72	8.195	
11,850.0	11,614.1	11,660.9	11,455.2	31.8	37.9	156.97	-180.3	1,498.3	397.9	352.1	45.72	8.702	
11,875.0	11,630.5	11,664.8	11,458.8	31.8	37.9	153.92	-181.9	1,498.3	421.6	375.9	45.72	9.220	
11,900.0	11,645.9	11,667.9	11,461.6	31.8	37.9	149.39	-183.2	1,498.3	445.7	400.0	45.72	9.748	
11,925.0	11,660.3	11,675.0	11,468.0	31.8	37.9	144.15	-186.2	1,498.3	470.2	424.5	45.63	10.304	
11,950.0	11,673.6	11,675.0	11,468.0	31.8	37.9	132.60	-186.2	1,498.3	494.8	449.2	45.65	10.840	
11,975.0	11,685.7	11,675.0	11,468.0	31.8	37.9	113.19	-186.2	1,498.3	519.6	474.0	45.65	11.383	
12,000.0	11,696.7	11,675.0	11,468.0	31.8	37.9	84.94	-186.2	1,498.3	544.5	498.8	45.63	11.932	
12,025.0	11,706.5	11,675.0	11,468.0	31.8	37.9	57.81	-186.2	1,498.3	569.3	523.7	45.60	12.486	
12,050.0	11,715.1	11,675.0	11,468.0	31.8	37.9	39.97	-186.2	1,498.3	594.1	548.6	45.55	13.043	
12,075.0	11,722.4	11,675.0	11,468.0	31.8	37.9	29.36	-186.2	1,498.3	618.8	573.3	45.49	13.602	
12,100.0	11,728.5	11,667.6	11,461.3	31.9	37.9	21.67	-183.1	1,498.3	643.2	597.7	45.52	14.132	
12,125.0	11,733.3	11,665.2	11,459.1	31.9	37.9	17.45	-182.0	1,498.3	667.5	622.0	45.46	14.681	
12,150.0	11,736.9	11,662.3	11,456.5	31.9	37.9	14.50	-180.9	1,498.3	691.4	646.0	45.41	15.226	
12,175.0	11,739.1	11,659.0	11,453.5	31.9	37.9	12.34	-179.5	1,498.3	715.0	669.6	45.35	15.767	

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 #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11461-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
12,200.0	11,740.0	11,650.0	11,445.2	31.9	37.9	10.52	-176.0	1,498.3	738.2	692.9	45.33	16.285		
12,204.9	11,740.0	11,650.0	11,445.2	31.9	37.9	10.28	-176.0	1,498.3	742.7	697.4	45.31	16.391		
12,300.0	11,740.0	11,641.0	11,436.8	32.0	37.9	10.00	-172.6	1,498.3	830.5	785.4	45.05	18.435		
12,400.0	11,740.0	11,625.0	11,421.9	32.2	37.9	9.55	-167.0	1,498.2	923.8	878.9	44.90	20.574		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL @ 3175.0usft

Offset Depths are relative to Offset Datum

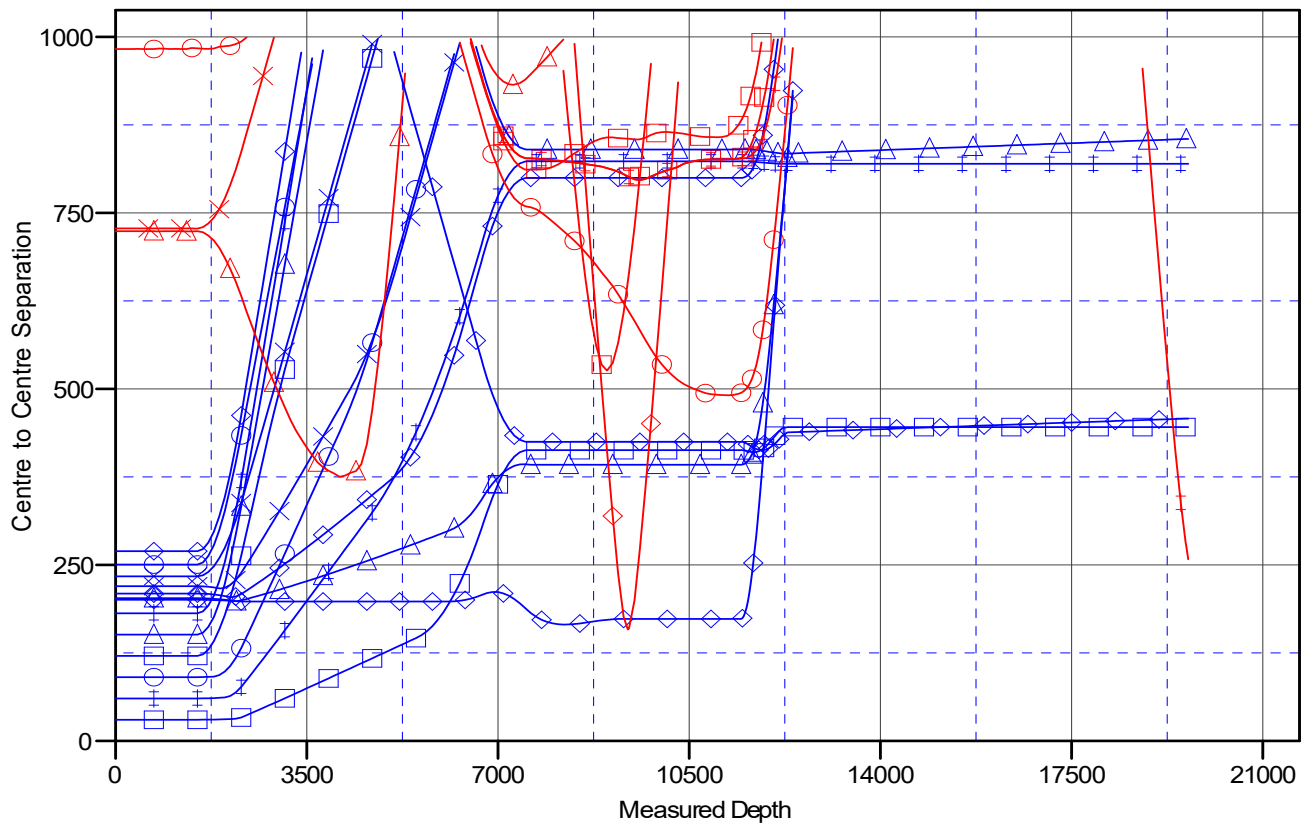
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #707H

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

Grid Convergence at Surface is: 0.33°

Ladder Plot



LEGEND

● ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	▲ ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 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 #70H, 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 #75H, OWB, PWP0 V0	● BUCK 20 FEDERAL #6H (P&A), OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	▲ ZIA HILLS 20 FEDERAL COM#102H, OWB, PWP2 V0	● RED HILLS WEST UNIT #8H, OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	▲ ZIA HILLS 20 FEDERAL COM#107H, OWB, AWP V0	● RUSSELL FEDERAL #6 (P&A), OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	▲ RUSSELL FEDERAL #10, OWB, AWP V0	● RUSSELL FEDERAL #12, OWB, AWP V0
● ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	▲ BUCK 20 FEDERAL #3H (P&A), OWB, AWP V0	● ZIA HILLS 20 FEDERAL COM#101H, OWB, PWP2 V0
● ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	▲ ZIA HILLS 20 FEDERAL COM#108H, OWB, AWP V0	

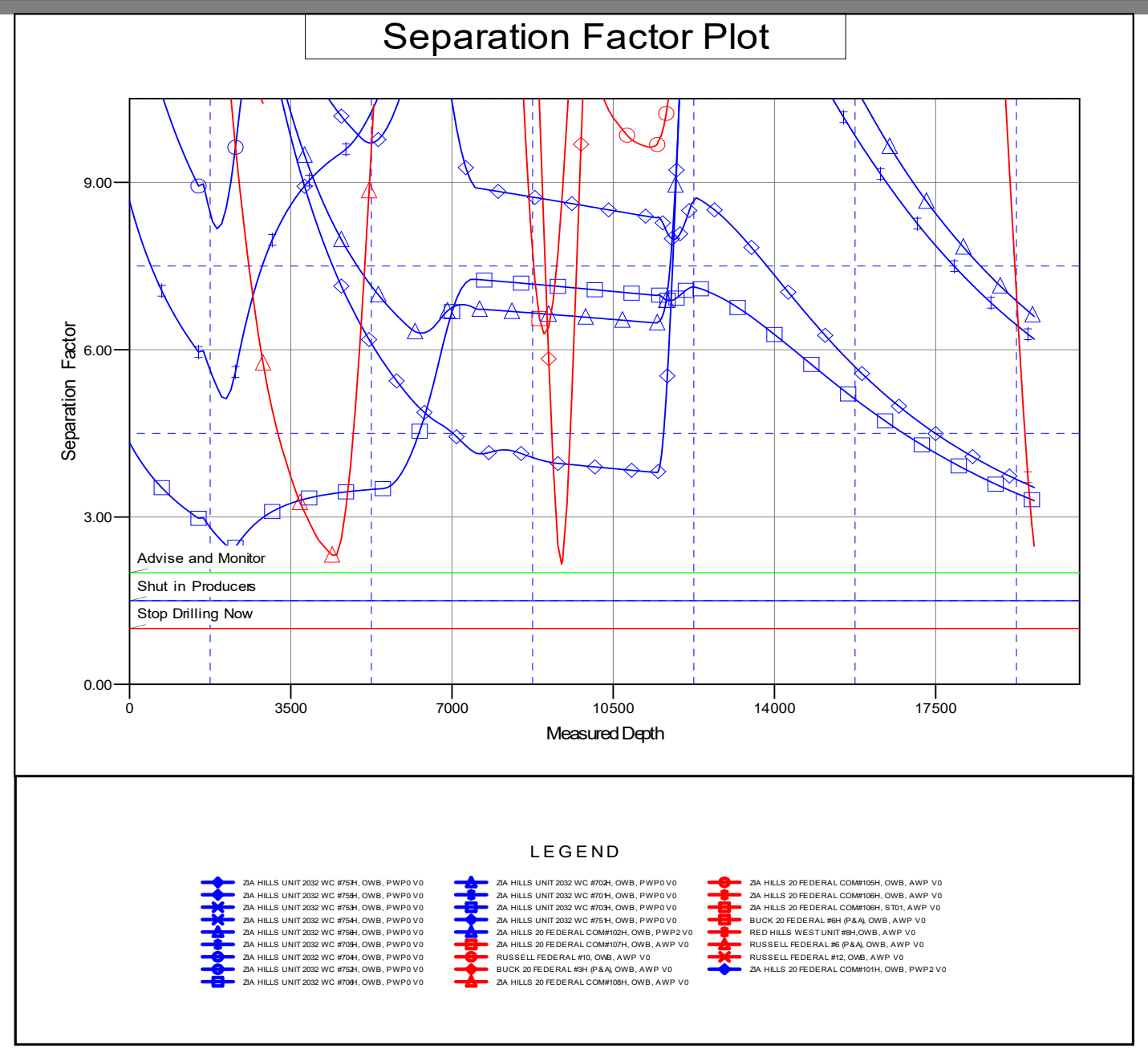
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL @ 3175.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #707H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



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 #707H

OWB

Plan: PWP0

Standard Planning Report

24 January, 2023

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #707H	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 #707H		
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' 41.392 N
		Longitude:	103° 42' 7.008 W
		Ground Level:	3,175.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.33	59.54	47,265.08484352

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	9.80

Plan Survey Tool Program	Date	1/24/2023		
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	11,184.9 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1 rev.5	
3	11,184.9	19,638.4 PWP0 (OWB)	r.5 MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #707H	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	
6,730.0	16.00	89.00	6,548.0	23.2	1,331.8	0.00	0.00	0.00	0.00	
7,530.0	0.00	0.00	7,337.6	25.2	1,442.8	2.00	-2.00	0.00	180.00	
11,454.9	0.00	0.00	11,262.5	25.2	1,442.8	0.00	0.00	0.00	0.00	
12,204.9	90.00	359.48	11,740.0	502.6	1,438.4	12.00	12.00	-0.07	359.48	
19,588.4	90.00	359.48	11,740.0	7,885.9	1,371.0	0.00	0.00	0.00	0.00	
19,638.4	90.00	359.48	11,740.0	7,935.9	1,370.5	0.00	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #707H	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	1.3	2.00	2.00	0.00
1,800.0	6.00	89.00	1,799.5	0.3	15.7	2.9	2.00	2.00	0.00
1,900.0	8.00	89.00	1,898.7	0.5	27.9	5.2	2.00	2.00	0.00
2,000.0	10.00	89.00	1,997.5	0.8	43.5	8.2	2.00	2.00	0.00
2,100.0	12.00	89.00	2,095.6	1.1	62.6	11.7	2.00	2.00	0.00
2,200.0	14.00	89.00	2,193.1	1.5	85.1	15.9	2.00	2.00	0.00
2,300.0	16.00	89.00	2,289.6	1.9	111.0	20.8	2.00	2.00	0.00
Start 4430.0 hold at 2300.0 MD									
2,400.0	16.00	89.00	2,385.8	2.4	138.5	26.0	0.00	0.00	0.00
2,500.0	16.00	89.00	2,481.9	2.9	166.1	31.1	0.00	0.00	0.00
2,600.0	16.00	89.00	2,578.0	3.4	193.6	36.3	0.00	0.00	0.00
2,700.0	16.00	89.00	2,674.1	3.9	221.2	41.4	0.00	0.00	0.00
2,800.0	16.00	89.00	2,770.3	4.3	248.8	46.6	0.00	0.00	0.00
2,900.0	16.00	89.00	2,866.4	4.8	276.3	51.8	0.00	0.00	0.00
3,000.0	16.00	89.00	2,962.5	5.3	303.9	56.9	0.00	0.00	0.00
3,100.0	16.00	89.00	3,058.7	5.8	331.4	62.1	0.00	0.00	0.00
3,200.0	16.00	89.00	3,154.8	6.3	359.0	67.3	0.00	0.00	0.00
3,300.0	16.00	89.00	3,250.9	6.7	386.6	72.4	0.00	0.00	0.00
3,400.0	16.00	89.00	3,347.0	7.2	414.1	77.6	0.00	0.00	0.00
3,500.0	16.00	89.00	3,443.2	7.7	441.7	82.8	0.00	0.00	0.00
3,600.0	16.00	89.00	3,539.3	8.2	469.2	87.9	0.00	0.00	0.00
3,700.0	16.00	89.00	3,635.4	8.7	496.8	93.1	0.00	0.00	0.00
3,800.0	16.00	89.00	3,731.5	9.2	524.4	98.2	0.00	0.00	0.00
3,900.0	16.00	89.00	3,827.7	9.6	551.9	103.4	0.00	0.00	0.00
4,000.0	16.00	89.00	3,923.8	10.1	579.5	108.6	0.00	0.00	0.00
4,100.0	16.00	89.00	4,019.9	10.6	607.0	113.7	0.00	0.00	0.00
4,200.0	16.00	89.00	4,116.0	11.1	634.6	118.9	0.00	0.00	0.00
4,300.0	16.00	89.00	4,212.2	11.6	662.2	124.1	0.00	0.00	0.00
4,400.0	16.00	89.00	4,308.3	12.0	689.7	129.2	0.00	0.00	0.00
4,500.0	16.00	89.00	4,404.4	12.5	717.3	134.4	0.00	0.00	0.00
4,600.0	16.00	89.00	4,500.5	13.0	744.8	139.6	0.00	0.00	0.00
4,700.0	16.00	89.00	4,596.7	13.5	772.4	144.7	0.00	0.00	0.00
4,800.0	16.00	89.00	4,692.8	14.0	799.9	149.9	0.00	0.00	0.00
4,900.0	16.00	89.00	4,788.9	14.4	827.5	155.0	0.00	0.00	0.00
5,000.0	16.00	89.00	4,885.0	14.9	855.1	160.2	0.00	0.00	0.00
5,100.0	16.00	89.00	4,981.2	15.4	882.6	165.4	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #707H	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	170.5	0.00	0.00	0.00	
5,300.0	16.00	89.00	5,173.4	16.4	937.7	175.7	0.00	0.00	0.00	
5,400.0	16.00	89.00	5,269.6	16.8	965.3	180.9	0.00	0.00	0.00	
5,500.0	16.00	89.00	5,365.7	17.3	992.9	186.0	0.00	0.00	0.00	
5,600.0	16.00	89.00	5,461.8	17.8	1,020.4	191.2	0.00	0.00	0.00	
5,700.0	16.00	89.00	5,557.9	18.3	1,048.0	196.3	0.00	0.00	0.00	
5,800.0	16.00	89.00	5,654.1	18.8	1,075.5	201.5	0.00	0.00	0.00	
5,900.0	16.00	89.00	5,750.2	19.3	1,103.1	206.7	0.00	0.00	0.00	
6,000.0	16.00	89.00	5,846.3	19.7	1,130.7	211.8	0.00	0.00	0.00	
6,100.0	16.00	89.00	5,942.4	20.2	1,158.2	217.0	0.00	0.00	0.00	
6,200.0	16.00	89.00	6,038.6	20.7	1,185.8	222.2	0.00	0.00	0.00	
6,300.0	16.00	89.00	6,134.7	21.2	1,213.3	227.3	0.00	0.00	0.00	
6,400.0	16.00	89.00	6,230.8	21.7	1,240.9	232.5	0.00	0.00	0.00	
6,500.0	16.00	89.00	6,326.9	22.1	1,268.5	237.7	0.00	0.00	0.00	
6,600.0	16.00	89.00	6,423.1	22.6	1,296.0	242.8	0.00	0.00	0.00	
6,700.0	16.00	89.00	6,519.2	23.1	1,323.6	248.0	0.00	0.00	0.00	
6,730.0	16.00	89.00	6,548.0	23.2	1,331.8	249.5	0.00	0.00	0.00	
Start Drop -2.00										
6,800.0	14.60	89.00	6,615.5	23.6	1,350.3	253.0	2.00	-2.00	0.00	
6,900.0	12.60	89.00	6,712.7	24.0	1,373.8	257.4	2.00	-2.00	0.00	
7,000.0	10.60	89.00	6,810.7	24.3	1,393.9	261.2	2.00	-2.00	0.00	
7,100.0	8.60	89.00	6,909.3	24.6	1,410.6	264.3	2.00	-2.00	0.00	
7,200.0	6.60	89.00	7,008.4	24.9	1,423.8	266.8	2.00	-2.00	0.00	
7,300.0	4.60	89.00	7,107.9	25.0	1,433.6	268.6	2.00	-2.00	0.00	
7,400.0	2.60	89.00	7,207.7	25.1	1,439.9	269.8	2.00	-2.00	0.00	
7,500.0	0.60	89.00	7,307.7	25.2	1,442.6	270.3	2.00	-2.00	0.00	
7,530.0	0.00	0.00	7,337.6	25.2	1,442.8	270.3	2.00	-2.00	0.00	
Start 3924.9 hold at 7530.0 MD										
7,600.0	0.00	0.00	7,407.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,507.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,607.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,707.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,807.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,907.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,007.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,107.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,207.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,307.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,407.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,507.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,607.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,707.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,807.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,907.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,007.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,107.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,207.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,307.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,407.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,507.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,607.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,707.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,807.7	25.2	1,442.8	270.3	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,907.7	25.2	1,442.8	270.3	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 #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #707H	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	10,007.7	25.2	1,442.8	270.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,107.7	25.2	1,442.8	270.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,207.7	25.2	1,442.8	270.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,307.7	25.2	1,442.8	270.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,407.7	25.2	1,442.8	270.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,507.7	25.2	1,442.8	270.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,607.7	25.2	1,442.8	270.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,707.7	25.2	1,442.8	270.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,807.7	25.2	1,442.8	270.3	0.00	0.00	0.00
11,100.0	0.00	0.00	10,907.7	25.2	1,442.8	270.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,007.7	25.2	1,442.8	270.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,107.7	25.2	1,442.8	270.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,207.7	25.2	1,442.8	270.3	0.00	0.00	0.00
11,454.9	0.00	0.00	11,262.5	25.2	1,442.8	270.3	0.00	0.00	0.00
Start DLS 12.00 TFO 359.48									
11,475.0	2.42	359.48	11,282.7	25.6	1,442.8	270.7	12.00	12.00	0.00
11,500.0	5.42	359.48	11,307.6	27.3	1,442.8	272.4	12.00	12.00	0.00
11,525.0	8.42	359.48	11,332.4	30.3	1,442.8	275.4	12.00	12.00	0.00
11,550.0	11.42	359.48	11,357.0	34.6	1,442.7	279.6	12.00	12.00	0.00
11,575.0	14.42	359.48	11,381.4	40.2	1,442.7	285.1	12.00	12.00	0.00
11,600.0	17.42	359.48	11,405.5	47.1	1,442.6	291.9	12.00	12.00	0.00
11,625.0	20.42	359.48	11,429.1	55.2	1,442.5	299.8	12.00	12.00	0.00
11,650.0	23.42	359.48	11,452.3	64.5	1,442.4	309.0	12.00	12.00	0.00
11,675.0	26.42	359.48	11,475.0	75.0	1,442.3	319.4	12.00	12.00	0.00
11,700.0	29.42	359.48	11,497.0	86.7	1,442.2	330.9	12.00	12.00	0.00
11,725.0	32.42	359.48	11,518.5	99.6	1,442.1	343.5	12.00	12.00	0.00
11,750.0	35.42	359.48	11,539.2	113.5	1,442.0	357.2	12.00	12.00	0.00
11,775.0	38.42	359.48	11,559.2	128.5	1,441.9	372.0	12.00	12.00	0.00
11,800.0	41.42	359.48	11,578.4	144.6	1,441.7	387.8	12.00	12.00	0.00
11,825.0	44.42	359.48	11,596.7	161.6	1,441.6	404.5	12.00	12.00	0.00
11,850.0	47.42	359.48	11,614.1	179.6	1,441.4	422.2	12.00	12.00	0.00
11,875.0	50.42	359.48	11,630.5	198.4	1,441.2	440.7	12.00	12.00	0.00
11,900.0	53.42	359.48	11,645.9	218.1	1,441.0	460.1	12.00	12.00	0.00
11,925.0	56.42	359.48	11,660.3	238.5	1,440.8	480.2	12.00	12.00	0.00
11,950.0	59.42	359.48	11,673.6	259.7	1,440.7	501.1	12.00	12.00	0.00
11,975.0	62.42	359.48	11,685.7	281.6	1,440.5	522.6	12.00	12.00	0.00
12,000.0	65.42	359.48	11,696.7	304.0	1,440.3	544.6	12.00	12.00	0.00
12,025.0	68.42	359.48	11,706.5	327.0	1,440.0	567.3	12.00	12.00	0.00
12,050.0	71.42	359.48	11,715.1	350.5	1,439.8	590.4	12.00	12.00	0.00
12,075.0	74.42	359.48	11,722.4	374.4	1,439.6	613.9	12.00	12.00	0.00
12,100.0	77.42	359.48	11,728.5	398.6	1,439.4	637.7	12.00	12.00	0.00
12,125.0	80.42	359.48	11,733.3	423.1	1,439.2	661.9	12.00	12.00	0.00
12,150.0	83.42	359.48	11,736.9	447.9	1,438.9	686.2	12.00	12.00	0.00
12,175.0	86.42	359.48	11,739.1	472.8	1,438.7	710.7	12.00	12.00	0.00
12,200.0	89.42	359.48	11,740.0	497.8	1,438.5	735.3	12.00	12.00	0.00
12,204.9	90.00	359.48	11,740.0	502.6	1,438.4	740.1	12.00	12.00	0.00
Start 7383.6 hold at 12204.9 MD									
12,300.0	90.00	359.48	11,740.0	597.8	1,437.6	833.7	0.00	0.00	0.00
12,400.0	90.00	359.48	11,740.0	697.8	1,436.7	932.0	0.00	0.00	0.00
12,500.0	90.00	359.48	11,740.0	797.8	1,435.7	1,030.4	0.00	0.00	0.00
12,600.0	90.00	359.48	11,740.0	897.8	1,434.8	1,128.8	0.00	0.00	0.00
12,700.0	90.00	359.48	11,740.0	997.7	1,433.9	1,227.2	0.00	0.00	0.00
12,800.0	90.00	359.48	11,740.0	1,097.7	1,433.0	1,325.6	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 #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #707H	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	359.48	11,740.0	1,197.7	1,432.1	1,424.0	0.00	0.00	0.00
13,000.0	90.00	359.48	11,740.0	1,297.7	1,431.2	1,522.3	0.00	0.00	0.00
13,100.0	90.00	359.48	11,740.0	1,397.7	1,430.3	1,620.7	0.00	0.00	0.00
13,200.0	90.00	359.48	11,740.0	1,497.7	1,429.3	1,719.1	0.00	0.00	0.00
13,300.0	90.00	359.48	11,740.0	1,597.7	1,428.4	1,817.5	0.00	0.00	0.00
13,400.0	90.00	359.48	11,740.0	1,697.7	1,427.5	1,915.9	0.00	0.00	0.00
13,500.0	90.00	359.48	11,740.0	1,797.7	1,426.6	2,014.2	0.00	0.00	0.00
13,600.0	90.00	359.48	11,740.0	1,897.7	1,425.7	2,112.6	0.00	0.00	0.00
13,700.0	90.00	359.48	11,740.0	1,997.7	1,424.8	2,211.0	0.00	0.00	0.00
13,800.0	90.00	359.48	11,740.0	2,097.7	1,423.9	2,309.4	0.00	0.00	0.00
13,900.0	90.00	359.48	11,740.0	2,197.7	1,422.9	2,407.8	0.00	0.00	0.00
14,000.0	90.00	359.48	11,740.0	2,297.7	1,422.0	2,506.2	0.00	0.00	0.00
14,100.0	90.00	359.48	11,740.0	2,397.7	1,421.1	2,604.5	0.00	0.00	0.00
14,200.0	90.00	359.48	11,740.0	2,497.7	1,420.2	2,702.9	0.00	0.00	0.00
14,300.0	90.00	359.48	11,740.0	2,597.7	1,419.3	2,801.3	0.00	0.00	0.00
14,400.0	90.00	359.48	11,740.0	2,697.7	1,418.4	2,899.7	0.00	0.00	0.00
14,500.0	90.00	359.48	11,740.0	2,797.7	1,417.5	2,998.1	0.00	0.00	0.00
14,600.0	90.00	359.48	11,740.0	2,897.7	1,416.6	3,096.5	0.00	0.00	0.00
14,700.0	90.00	359.48	11,740.0	2,997.7	1,415.6	3,194.8	0.00	0.00	0.00
14,800.0	90.00	359.48	11,740.0	3,097.7	1,414.7	3,293.2	0.00	0.00	0.00
14,900.0	90.00	359.48	11,740.0	3,197.7	1,413.8	3,391.6	0.00	0.00	0.00
15,000.0	90.00	359.48	11,740.0	3,297.7	1,412.9	3,490.0	0.00	0.00	0.00
15,100.0	90.00	359.48	11,740.0	3,397.6	1,412.0	3,588.4	0.00	0.00	0.00
15,200.0	90.00	359.48	11,740.0	3,497.6	1,411.1	3,686.7	0.00	0.00	0.00
15,300.0	90.00	359.48	11,740.0	3,597.6	1,410.2	3,785.1	0.00	0.00	0.00
15,400.0	90.00	359.48	11,740.0	3,697.6	1,409.2	3,883.5	0.00	0.00	0.00
15,500.0	90.00	359.48	11,740.0	3,797.6	1,408.3	3,981.9	0.00	0.00	0.00
15,600.0	90.00	359.48	11,740.0	3,897.6	1,407.4	4,080.3	0.00	0.00	0.00
15,700.0	90.00	359.48	11,740.0	3,997.6	1,406.5	4,178.7	0.00	0.00	0.00
15,800.0	90.00	359.48	11,740.0	4,097.6	1,405.6	4,277.0	0.00	0.00	0.00
15,900.0	90.00	359.48	11,740.0	4,197.6	1,404.7	4,375.4	0.00	0.00	0.00
16,000.0	90.00	359.48	11,740.0	4,297.6	1,403.8	4,473.8	0.00	0.00	0.00
16,100.0	90.00	359.48	11,740.0	4,397.6	1,402.8	4,572.2	0.00	0.00	0.00
16,200.0	90.00	359.48	11,740.0	4,497.6	1,401.9	4,670.6	0.00	0.00	0.00
16,300.0	90.00	359.48	11,740.0	4,597.6	1,401.0	4,768.9	0.00	0.00	0.00
16,400.0	90.00	359.48	11,740.0	4,697.6	1,400.1	4,867.3	0.00	0.00	0.00
16,500.0	90.00	359.48	11,740.0	4,797.6	1,399.2	4,965.7	0.00	0.00	0.00
16,600.0	90.00	359.48	11,740.0	4,897.6	1,398.3	5,064.1	0.00	0.00	0.00
16,700.0	90.00	359.48	11,740.0	4,997.6	1,397.4	5,162.5	0.00	0.00	0.00
16,800.0	90.00	359.48	11,740.0	5,097.6	1,396.4	5,260.9	0.00	0.00	0.00
16,900.0	90.00	359.48	11,740.0	5,197.6	1,395.5	5,359.2	0.00	0.00	0.00
17,000.0	90.00	359.48	11,740.0	5,297.6	1,394.6	5,457.6	0.00	0.00	0.00
17,100.0	90.00	359.48	11,740.0	5,397.6	1,393.7	5,556.0	0.00	0.00	0.00
17,200.0	90.00	359.48	11,740.0	5,497.6	1,392.8	5,654.4	0.00	0.00	0.00
17,300.0	90.00	359.48	11,740.0	5,597.6	1,391.9	5,752.8	0.00	0.00	0.00
17,400.0	90.00	359.48	11,740.0	5,697.6	1,391.0	5,851.1	0.00	0.00	0.00
17,500.0	90.00	359.48	11,740.0	5,797.5	1,390.1	5,949.5	0.00	0.00	0.00
17,600.0	90.00	359.48	11,740.0	5,897.5	1,389.1	6,047.9	0.00	0.00	0.00
17,700.0	90.00	359.48	11,740.0	5,997.5	1,388.2	6,146.3	0.00	0.00	0.00
17,800.0	90.00	359.48	11,740.0	6,097.5	1,387.3	6,244.7	0.00	0.00	0.00
17,900.0	90.00	359.48	11,740.0	6,197.5	1,386.4	6,343.1	0.00	0.00	0.00
18,000.0	90.00	359.48	11,740.0	6,297.5	1,385.5	6,441.4	0.00	0.00	0.00
18,100.0	90.00	359.48	11,740.0	6,397.5	1,384.6	6,539.8	0.00	0.00	0.00
18,200.0	90.00	359.48	11,740.0	6,497.5	1,383.7	6,638.2	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 #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #707H	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	359.48	11,740.0	6,597.5	1,382.7	6,736.6	0.00	0.00	0.00	
18,400.0	90.00	359.48	11,740.0	6,697.5	1,381.8	6,835.0	0.00	0.00	0.00	
18,500.0	90.00	359.48	11,740.0	6,797.5	1,380.9	6,933.4	0.00	0.00	0.00	
18,600.0	90.00	359.48	11,740.0	6,897.5	1,380.0	7,031.7	0.00	0.00	0.00	
18,700.0	90.00	359.48	11,740.0	6,997.5	1,379.1	7,130.1	0.00	0.00	0.00	
18,800.0	90.00	359.48	11,740.0	7,097.5	1,378.2	7,228.5	0.00	0.00	0.00	
18,900.0	90.00	359.48	11,740.0	7,197.5	1,377.3	7,326.9	0.00	0.00	0.00	
19,000.0	90.00	359.48	11,740.0	7,297.5	1,376.3	7,425.3	0.00	0.00	0.00	
19,100.0	90.00	359.48	11,740.0	7,397.5	1,375.4	7,523.6	0.00	0.00	0.00	
19,200.0	90.00	359.48	11,740.0	7,497.5	1,374.5	7,622.0	0.00	0.00	0.00	
19,300.0	90.00	359.48	11,740.0	7,597.5	1,373.6	7,720.4	0.00	0.00	0.00	
19,400.0	90.00	359.48	11,740.0	7,697.5	1,372.7	7,818.8	0.00	0.00	0.00	
19,500.0	90.00	359.48	11,740.0	7,797.5	1,371.8	7,917.2	0.00	0.00	0.00	
19,588.4	90.00	359.48	11,740.0	7,885.9	1,371.0	8,004.2	0.00	0.00	0.00	
Start 50.0 hold at 19588.4 MD										
19,600.0	90.00	359.48	11,740.0	7,897.5	1,370.9	8,015.6	0.00	0.00	0.00	
19,638.4	90.00	359.48	11,740.0	7,935.9	1,370.5	8,053.3	0.00	0.00	0.00	
TD at 19638.4										

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)		Latitude	Longitude
- Shape										
FTP (ZHU 2032 WC #7C - plan misses target center by 198.5usft at 11826.0usft MD (11597.4 TVD, 162.3 N, 1441.5 E) - Circle (radius 50.0)	0.00	0.00	11,740.0	24.2	1,442.9	374,568.28	697,111.33		32° 1' 41.547 N	103° 41' 50.245 W
LTP (ZHU 2032 WC #70 - plan hits target center - Point	0.00	0.00	11,740.0	7,885.9	1,371.0	382,430.02	697,039.40		32° 2' 59.351 N	103° 41' 50.543 W
PBHL (ZHU 2032 WC #70 - plan misses target center by 0.2usft at 19638.4usft MD (11740.0 TVD, 7935.9 N, 1370.5 E) - Rectangle (sides W100.0 H7,912.3 D20.0)	0.00	179.48	11,740.0	7,935.9	1,370.3	382,480.02	697,038.78		32° 2' 59.846 N	103° 41' 50.547 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	
11,454.9	11,262.5	DB INT 7-5/8	7-5/8	9-7/8	
19,638.4	11,740.0	DB PROD. -5 1/2	5-1/2	6-3/4	

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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 4430.0 hold at 2300.0 MD
6,730.0	6,548.0	23.2	1,331.8	Start Drop -2.00
7,530.0	7,337.6	25.2	1,442.8	Start 3924.9 hold at 7530.0 MD
11,454.9	11,262.5	25.2	1,442.8	Start DLS 12.00 TFO 359.48
12,204.9	11,740.0	502.6	1,438.4	Start 7383.6 hold at 12204.9 MD
19,588.4	11,740.0	7,885.9	1,371.0	Start 50.0 hold at 19588.4 MD
19,638.4	11,740.0	7,935.9	1,370.5	TD at 19638.4

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	ZIA HILLS UNIT 2032 WC 707H
SURFACE HOLE FOOTAGE:	2632'/N & 1037'/W
BOTTOM HOLE FOOTAGE:	50'/N & 2480'/W
LOCATION:	Section 20, T.26 S., R.32 E.
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

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

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The 7-5/8 inch intermediate casing shall be set at approximately **11,132 feet**. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The 5-1/2 inch production casing shall be set at approximately **19,638 feet** The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4 inch** surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

Casing Clearance:

- Overlap clearance OK for production interval

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

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
 - b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
 - c. BOPE tests (minimum of 4 hours)
- If well located in Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

- If well located in Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981
1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

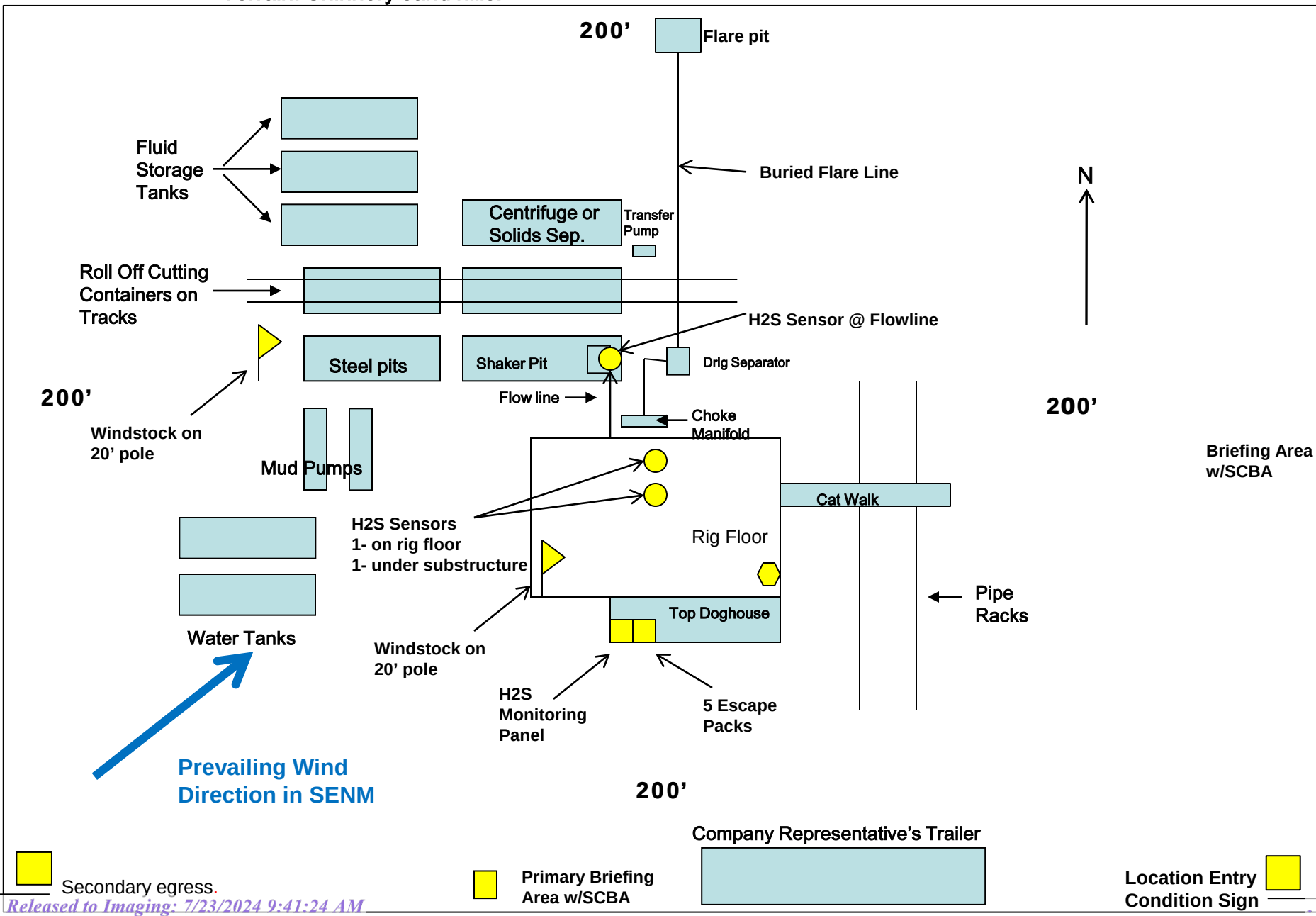
disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

KPI 7/10/2024

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

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



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
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 364337

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 364337
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/23/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	7/23/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	7/23/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	7/23/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	7/23/2024