

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. 30-025-53236
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: NWSW / 2649 FSL / 775 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0281104 / LONG: -103.7032619 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 2620 FSL / 10 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0280257 / LONG: -103.7057954 (TVD: 11441 feet, MD: 11566 feet)
PPP: NENE / 1 FNL / 10 FEL / TWSP: 26S / RANGE: 32E / SECTION: 30 / LAT: 32.020824 / LONG: -103.7058 (TVD: 11736 feet, MD: 14187 feet)
BHL: LOT 5 / 50 FSL / 10 FEL / TWSP: 26S / RANGE: 31E / SECTION: 31 / LAT: 32.0003526 / LONG: -103.7057716 (TVD: 11736 feet, MD: 21026 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 30-025-53236	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 751H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3173.42'

¹⁰ Surface Location

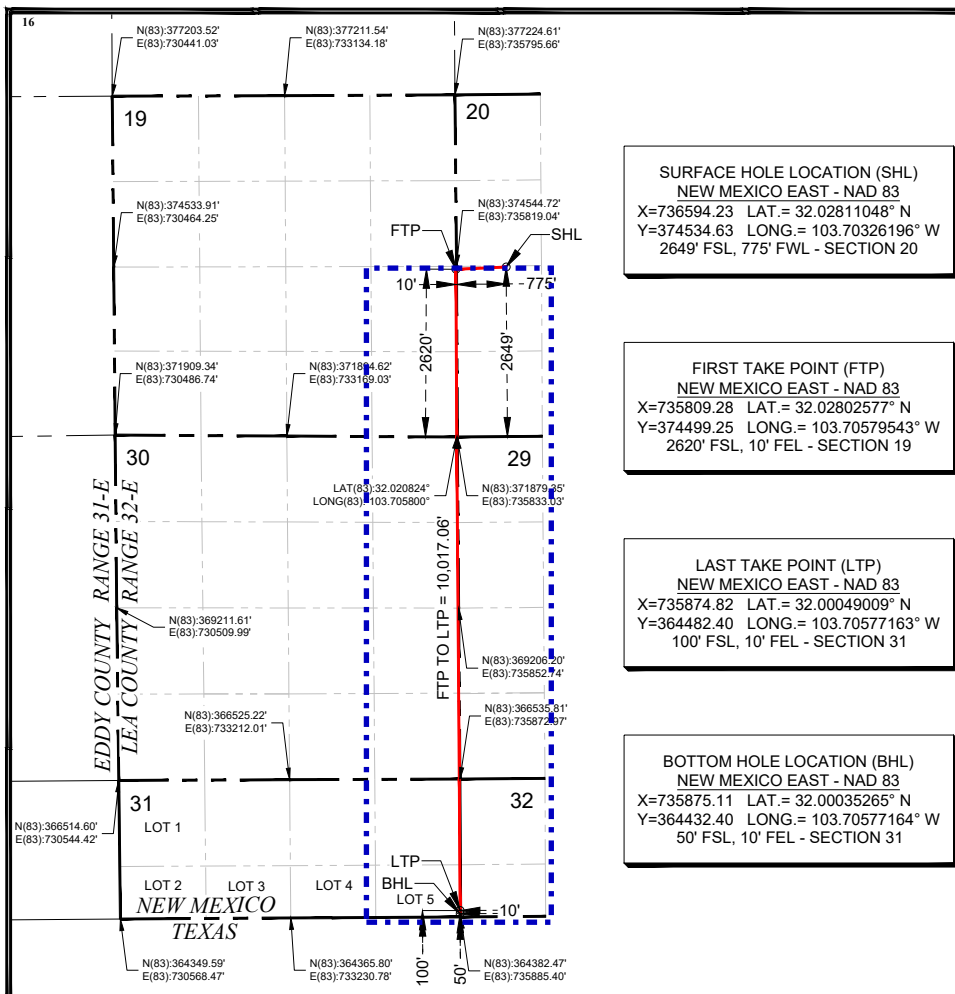
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	26-S	32-E		2649'	SOUTH	775'	WEST	LEA

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
5	31	26-S	32-E		50'	SOUTH	10'	EAST	LEA

12 Dedicated Acres 609.04	13 Joint or Infill	14 Consolidation Code Unit	15 Order No. R-20080
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 2/28/23
Signature Date

Stan Wagner
Printed Name

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

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

Charles L. Jurica
Signature and Seal of Professional Surveyor

25490
PROFESSIONAL SURVEYOR
Certificate Number

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 02/21/2023

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2032 WC 751H	30-025-	L-20-26S-32E	2649 FSL & 775 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 752H	30-025-	L-20-26S-32E	2632 FSL & 800 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 753H	30-025-	L-20-26S-32E	2615 FSL & 825 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 754H	30-025-	L-20-26S-32E	2598 FSL & 850 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 755H	30-025-	L-20-26S-32E	2581 FSL & 875 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 756H	30-025-	L-20-26S-32E	2564 FSL & 900 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 757H	30-025-	L-20-26S-32E	2547 FSL & 925 FWL	± 2245	± 6736	± 5165

IV. Central Delivery Point Name: Zia Hills Unit 2032 WC Facility SWNW 20-26S-32E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2032 WC 751H-757H	Pending	± 4/1/2024	± 25 days from spud	TBD	TBD	TBD

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 02/21/2023
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

ConocoPhillips Company - Zia Hills Unit 2032 WC 751H

1. Geologic Formations

TVD of target	11,736' EOL	Pilot hole depth	NA
MD at TD:	21,026'	Deepest expected fresh water:	314'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1268	Water	
Top of Salt	1561	Salt	
Base of Salt	4093	Salt	
Lamar	4308	Salt Water	
Bell Canyon	4344	Salt Water	
Cherry Canyon	5230	Oil/Gas	
Brushy Canyon	6716	Oil/Gas	
Bone Spring Shale	8318	Oil/Gas	
1st Bone Spring Sand	9302	Oil/Gas	
2nd Bone Spring Sand	9984	Oil/Gas	
3rd Bone Spring Sand	11134	Oil/Gas	
Wolfcamp	11547	Target	
Wolfcamp A	11755	Not Penetrated	
Wolfcamp B	12059	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	1.72	3.23	1.94
6.75"	0	10632	5.5"	23	P110-CY	BTC	2.10	2.48	2.98	2.98
6.75"	10632	21,026	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 751H

	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 751H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	667	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	875	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 751H

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 751H

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 751H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7630 psi at 11736' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

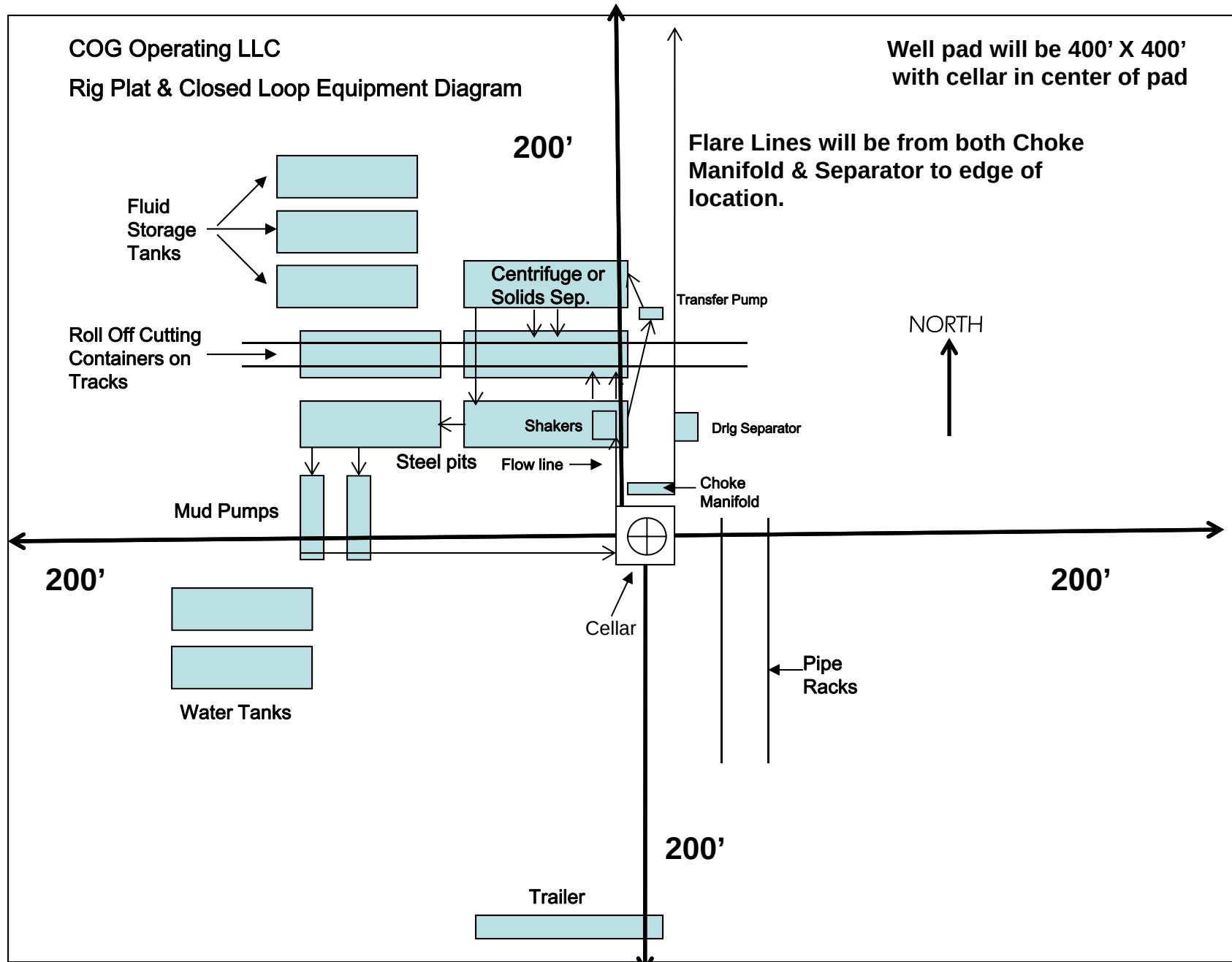


Exhibit 1

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2032 PROJECT

ZIA HILLS UNIT 2032 WC #751H

OWB

PWP0

Anticollision Report

25 January, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	1/25/2023	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Cont. rev.5
1,500.0	11,379.1	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
11,379.1	21,026.0	PWP0 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ZIA HILLS 20 FED COM PROJECT						
CONOCO A FEDERAL #2 - OWB - AWP						Out of range
CONOCO B FEDERAL #1 - OWB - AWP						Out of range
CONOCO FEDERAL #1 - OWB - AWP	4,498.1	4,327.0	649.1	527.7	5.344	CC, ES, SF
RUSSELL FEDERAL #10 - OWB - AWP						Out of range
RUSSELL FEDERAL #12 - OWB - AWP	3,509.6	3,470.4	220.8	97.0	1.784	Advise and Monitor, CC
RUSSELL FEDERAL #12 - OWB - AWP	3,700.0	3,658.2	226.7	93.9	1.707	Advise and Monitor, ES
RUSSELL FEDERAL #12 - OWB - AWP	3,800.0	3,752.5	231.7	94.4	1.687	Advise and Monitor, SF
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	1,241.3	1,253.3	934.8	905.7	32.070	CC
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	1,700.0	1,710.3	938.2	894.3	21.401	ES
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	2,300.0	2,302.6	991.5	925.9	15.108	SF
ZIA HILLS UNIT 1932 PROJECT						
*ZIA HILLS UNIT 1932 WC #713H - OWB - PWP0						Out of range
*ZIA HILLS UNIT 1932 WC #714H - OWB - PWP0	11,200.0	11,358.6	882.8	840.3	20.741	CC, ES, SF
*ZIA HILLS UNIT 1932 WC #762H - OWB - PWP0						Out of range
*ZIA HILLS UNIT 1932 WC #763H - OWB - PWP0	11,009.2	11,094.0	865.4	813.4	16.619	CC
*ZIA HILLS UNIT 1932 WC #763H - OWB - PWP0	21,026.0	20,633.8	900.8	746.0	5.817	ES, SF
*ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0	12,404.4	12,141.5	446.2	388.0	7.666	CC
*ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0	21,026.0	20,763.0	446.2	289.8	2.853	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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	1,500.0	1,500.0	200.6	190.2	19.324	CC, ES
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	2,000.0	2,019.6	217.6	205.4	17.796	SF
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	1,500.0	1,500.0	202.7	192.4	19.690	CC, ES
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	2,100.0	2,125.0	219.6	206.7	17.064	SF
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	1,746.8	1,765.8	208.5	197.5	19.013	CC, ES
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	2,000.0	2,018.6	219.7	207.5	17.900	SF
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	1,466.3	1,467.3	219.7	209.6	21.814	CC
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	1,500.0	1,500.0	219.7	209.6	21.681	ES, SF
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,466.0	1,468.0	233.7	223.7	23.334	CC
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,500.0	1,500.0	233.7	223.6	23.198	ES, SF
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	1,466.0	1,468.0	250.6	240.6	25.131	CC
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	1,500.0	1,500.0	250.6	240.6	24.987	ES, SF
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	1,466.0	1,468.0	269.6	259.7	27.124	CC
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	1,500.0	1,500.0	269.7	259.7	26.971	ES
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	1,700.0	1,684.3	282.1	271.6	26.935	SF
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	1,500.0	1,501.0	30.1	20.0	3.001	CC, ES
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	21,026.0	21,409.5	458.6	303.1	2.949	SF
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	1,500.0	1,502.0	60.2	50.2	6.010	CC, ES
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	21,026.0	21,595.4	848.3	692.6	5.448	SF
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	1,466.0	1,468.0	90.3	80.2	8.956	CC, ES, SF
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	1,466.0	1,468.0	120.6	110.5	11.959	CC, ES, SF
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	1,465.6	1,468.6	150.9	140.8	14.955	CC, ES, SF
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	1,465.6	1,468.6	181.1	171.0	17.951	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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
CONOCO A FEDERAL #2 - OWB - AWP	21,026.0	4,317.0				Out of Range @TD
CONOCO B FEDERAL #1 - OWB - AWP	21,026.0	4,330.0				Out of Range @TD
CONOCO FEDERAL #1 - OWB - AWP	21,026.0	4,327.0				Out of Range @TD
RUSSELL FEDERAL #10 - OWB - AWP	21,026.0	4,500.0				Out of Range @TD
RUSSELL FEDERAL #12 - OWB - AWP	21,026.0	4,335.0				Out of Range @TD
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	21,026.0	4,378.0				Out of Range @TD
ZIA HILLS UNIT 1932 PROJECT						
*ZIA HILLS UNIT 1932 WC #713H - OWB - PWP0	21,026.0	11,175.0				Out of Range @TD
*ZIA HILLS UNIT 1932 WC #714H - OWB - PWP0	21,026.0	11,400.0				Out of Range @TD
*ZIA HILLS UNIT 1932 WC #762H - OWB - PWP0	21,026.0	21,572.4				Out of Range @TD
*ZIA HILLS UNIT 1932 WC #763H - OWB - PWP0	21,026.0	20,633.8	900.8	746.0	5.817	ES, SF
*ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0	21,026.0	20,763.0	446.2	289.8	2.853	ES, SF
ZIA HILLS UNIT 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	21,026.0	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	21,026.0	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	21,026.0	11,275.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	21,026.0	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	21,026.0	11,325.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	21,026.0	11,575.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	21,026.0	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	21,026.0	21,409.5	458.6	303.1	2.949	SF
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	21,026.0	21,595.4	848.3	692.6	5.448	SF
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	21,026.0	21,829.4				Out of Range @TD
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	21,026.0	21,692.6				Out of Range @TD
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	21,026.0	21,893.9				Out of Range @TD
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	21,026.0	21,747.1				Out of Range @TD

Offset Design: ZIA HILLS 20 FED COM PROJECT - CONOCO FEDERAL #1 - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		464-INC-ONLY										Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,600.0	2,581.2	2,583.3	2,583.2	8.1	45.5	31.06	-342.6	-1,103.4	994.7	929.5	65.14	15.270		
2,700.0	2,678.2	2,679.7	2,679.6	8.4	47.7	31.74	-343.2	-1,103.4	974.0	905.9	68.14	14.293		
2,800.0	2,775.2	2,778.6	2,778.3	8.8	49.9	32.51	-343.3	-1,103.4	953.3	882.1	71.27	13.376		
2,900.0	2,872.3	2,875.6	2,875.4	9.2	52.1	33.30	-343.3	-1,103.4	932.9	858.5	74.35	12.547		

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 - CONOCO FEDERAL #1 - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 464-INC-ONLY												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)		Minimum Separation (usft)	Warning
3,000.0	2,969.3	2,972.3	2,972.0	9.6	54.3	34.22	-341.7	-1,103.4	912.3	834.9	77.42	11.784	
3,100.0	3,066.3	3,068.7	3,068.4	10.0	56.4	35.05	-342.2	-1,103.4	892.3	811.8	80.48	11.087	
3,200.0	3,163.4	3,165.3	3,165.0	10.4	58.6	35.89	-343.2	-1,103.4	872.5	789.0	83.54	10.444	
3,300.0	3,260.4	3,263.8	3,263.5	10.9	60.8	36.84	-343.3	-1,103.4	852.8	766.2	86.60	9.848	
3,400.0	3,357.4	3,360.9	3,360.5	11.3	62.9	37.82	-343.3	-1,103.4	833.4	743.8	89.60	9.301	
3,500.0	3,454.4	3,457.8	3,457.4	11.7	65.0	38.92	-342.3	-1,103.4	814.1	721.5	92.60	8.792	
3,600.0	3,551.5	3,554.6	3,554.3	12.2	67.1	39.98	-342.7	-1,103.4	795.2	699.6	95.59	8.319	
3,700.0	3,648.5	3,652.0	3,651.6	12.6	69.3	41.07	-343.3	-1,103.4	776.7	678.0	98.65	7.873	
3,800.0	3,745.5	3,749.1	3,748.6	13.0	71.8	42.25	-343.3	-1,103.4	758.3	656.3	102.09	7.428	
3,900.0	3,842.6	3,846.1	3,845.7	13.5	74.2	43.49	-343.3	-1,103.4	740.4	634.8	105.53	7.016	
4,000.0	3,939.6	3,943.2	3,942.7	13.9	76.7	44.89	-342.0	-1,103.4	722.8	613.8	108.96	6.633	
4,100.0	4,036.6	4,040.4	4,039.9	14.4	79.1	46.23	-342.5	-1,103.4	705.6	593.2	112.40	6.277	
4,200.0	4,133.6	4,137.4	4,136.7	14.9	81.6	47.58	-343.3	-1,103.4	688.7	572.9	115.84	5.946	
4,300.0	4,230.7	4,234.6	4,233.9	15.3	84.1	49.15	-342.5	-1,103.4	672.4	553.0	119.41	5.631	
4,400.0	4,327.7	4,327.0	4,326.3	15.8	86.5	50.57	-343.3	-1,103.4	656.5	533.7	122.77	5.348	
4,498.1	4,422.9	4,327.0	4,326.3	16.2	86.5	50.57	-343.3	-1,103.4	649.1	527.7	121.47	5.344 CC, ES, SF	
4,500.0	4,424.7	4,327.0	4,326.3	16.2	86.5	50.57	-343.3	-1,103.4	649.1	527.7	121.42	5.346	
4,600.0	4,521.8	4,327.0	4,326.3	16.7	86.5	50.57	-343.3	-1,103.4	657.1	539.6	117.46	5.594	
4,700.0	4,618.8	4,327.0	4,326.3	17.2	86.5	50.57	-343.3	-1,103.4	679.8	568.5	111.33	6.106	
4,800.0	4,715.8	4,327.0	4,326.3	17.6	86.5	50.57	-343.3	-1,103.4	715.9	612.1	103.84	6.894	
4,900.0	4,812.9	4,327.0	4,326.3	18.1	86.5	50.57	-343.3	-1,103.4	763.5	667.6	95.83	7.967	
5,000.0	4,909.9	4,327.0	4,326.3	18.6	86.5	50.57	-343.3	-1,103.4	820.5	732.6	87.94	9.331	
5,100.0	5,006.9	4,327.0	4,326.3	19.0	86.5	50.57	-343.3	-1,103.4	885.2	804.7	80.58	10.986	
5,200.0	5,103.9	4,327.0	4,326.3	19.5	86.5	50.57	-343.3	-1,103.4	956.0	882.1	73.94	12.929	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #12 - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 296-INC-ONLY												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		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	5.1	5.1	3.0	3.0	-104.21	-112.6	-444.5	458.6	451.7	6.89	66.532	
100.0	100.0	105.1	105.1	3.1	3.1	-104.21	-112.6	-444.5	458.6	451.4	7.15	64.105	
200.0	200.0	205.1	205.1	3.2	3.5	-104.21	-112.6	-444.5	458.6	450.9	7.64	60.045	
300.0	300.0	305.1	305.1	3.4	4.1	-104.21	-112.6	-444.5	458.6	450.2	8.36	54.851	
400.0	400.0	405.1	405.1	3.5	5.5	-104.21	-112.6	-444.5	458.6	448.6	10.02	45.749	
439.4	439.4	444.5	444.5	3.5	6.1	-104.19	-112.4	-444.5	458.5	447.8	10.78	42.542	
500.0	500.0	505.0	505.0	3.6	7.1	-104.20	-112.5	-444.5	458.6	446.5	12.01	38.174	
600.0	600.0	605.1	605.1	3.7	8.7	-104.21	-112.6	-444.5	458.6	444.4	14.20	32.287	
700.0	700.0	705.1	705.1	3.9	10.6	-104.21	-112.6	-444.5	458.6	441.9	16.64	27.554	
733.7	733.7	738.8	738.8	3.9	11.2	-104.18	-112.3	-444.5	458.5	441.0	17.48	26.226	
800.0	800.0	804.9	804.9	4.0	12.4	-104.19	-112.4	-444.5	458.5	439.4	19.15	23.945	
900.0	900.0	905.1	905.1	4.1	14.4	-104.21	-112.6	-444.5	458.6	436.8	21.79	21.041	
1,000.0	1,000.0	1,005.1	1,005.1	4.2	16.5	-104.21	-112.6	-444.5	458.6	433.9	24.66	18.600	
1,031.0	1,031.0	1,036.0	1,036.0	4.3	17.1	-104.14	-112.0	-444.5	458.4	432.9	25.54	17.947	
1,100.0	1,100.0	1,104.6	1,104.5	4.3	18.6	-104.17	-112.2	-444.5	458.5	431.0	27.53	16.657	
1,200.0	1,200.0	1,205.2	1,205.1	4.5	20.7	-104.21	-112.6	-444.5	458.6	428.2	30.39	15.088	
1,300.0	1,300.0	1,305.2	1,305.1	4.6	23.0	-104.21	-112.6	-444.5	458.6	425.1	33.48	13.696	
1,400.0	1,400.0	1,405.2	1,405.1	4.7	25.2	-104.21	-112.6	-444.5	458.6	422.0	36.58	12.536	
1,439.5	1,439.5	1,444.5	1,444.4	4.7	26.1	-104.05	-111.3	-444.5	458.3	420.5	37.80	12.123	
1,500.0	1,500.0	1,504.8	1,504.6	4.8	27.5	-104.07	-111.4	-444.5	458.3	418.6	39.68	11.551	
1,600.0	1,600.0	1,604.3	1,604.2	5.0	29.7	28.97	-112.1	-444.5	456.9	414.3	42.59	10.729	
1,700.0	1,699.8	1,705.1	1,704.9	5.2	32.2	29.27	-112.6	-444.5	452.5	406.4	46.05	9.827	
1,800.0	1,799.5	1,804.4	1,804.2	5.5	34.8	29.96	-112.1	-444.5	444.8	395.0	49.79	8.934	
1,900.0	1,898.7	1,904.1	1,903.8	5.7	37.6	30.80	-112.6	-444.5	434.4	380.7	53.69	8.090	
2,000.0	1,997.5	2,001.8	2,001.5	6.0	40.6	32.09	-112.1	-444.5	420.9	363.0	57.81	7.280	
2,100.0	2,095.6	2,101.2	2,100.7	6.4	43.6	33.64	-112.6	-444.5	404.8	342.8	62.06	6.523	
2,200.0	2,193.1	2,198.5	2,198.0	6.7	46.6	35.87	-111.4	-444.5	386.0	319.8	66.26	5.826	
2,300.0	2,290.1	2,295.2	2,294.7	7.0	49.6	37.92	-112.2	-444.5	366.6	296.1	70.42	5.205	
2,400.0	2,387.1	2,392.9	2,392.2	7.4	52.6	40.29	-112.6	-444.5	347.6	272.9	74.69	4.654	
2,500.0	2,484.1	2,489.9	2,489.2	7.7	55.7	42.98	-112.6	-444.5	329.3	250.3	78.94	4.171	
2,600.0	2,581.2	2,587.0	2,586.3	8.1	58.7	46.43	-110.1	-444.5	311.9	228.7	83.20	3.748	
2,700.0	2,678.2	2,684.5	2,683.7	8.4	61.8	49.65	-110.8	-444.5	295.3	207.9	87.47	3.376	
2,800.0	2,775.2	2,782.3	2,781.5	8.8	64.9	53.07	-112.4	-444.5	279.7	188.0	91.76	3.049	
2,900.0	2,872.3	2,878.4	2,877.4	9.2	67.9	57.06	-112.6	-444.5	265.5	169.5	96.01	2.766	
3,000.0	2,969.3	2,975.6	2,974.5	9.6	71.0	61.86	-111.2	-444.5	253.3	153.0	100.31	2.526	
3,100.0	3,066.3	3,073.7	3,072.7	10.0	74.1	66.68	-111.9	-444.5	242.3	137.7	104.64	2.316	
3,200.0	3,163.4	3,169.7	3,168.5	10.4	77.4	71.78	-112.6	-444.5	233.2	124.0	109.13	2.137	
3,300.0	3,260.4	3,267.3	3,265.9	10.9	80.8	77.74	-111.3	-444.5	227.3	113.4	113.92	1.995 Advise and Monitor	
3,400.0	3,357.4	3,367.0	3,365.6	11.3	84.3	83.57	-112.5	-444.5	222.5	103.7	118.82	1.873 Advise and Monitor	
3,500.0	3,454.4	3,461.1	3,459.5	11.7	87.6	89.42	-112.6	-444.5	220.8	97.5	123.36	1.790 Advise and Monitor	
3,509.6	3,463.8	3,470.4	3,468.9	11.8	87.9	90.00	-112.6	-444.5	220.8	97.0	123.81	1.784 Advise and Monitor, CC	
3,600.0	3,551.5	3,558.4	3,556.7	12.2	90.9	95.82	-110.5	-444.5	223.6	95.5	128.04	1.746 Advise and Monitor	
3,700.0	3,648.5	3,658.2	3,656.5	12.6	94.4	101.78	-111.3	-444.5	226.7	93.9	132.85	1.707 Advise and Monitor, ES	
3,800.0	3,745.5	3,752.5	3,750.6	13.0	97.5	107.15	-112.6	-444.5	231.7	94.4	137.35	1.687 Advise and Monitor, SF	
3,900.0	3,842.6	3,849.6	3,847.7	13.5	100.7	112.54	-112.6	-444.5	240.2	98.4	141.77	1.694 Advise and Monitor	
4,000.0	3,939.6	3,947.4	3,945.4	13.9	103.8	117.67	-110.8	-444.5	252.4	106.2	146.23	1.726 Advise and Monitor	
4,100.0	4,036.6	4,047.3	4,045.3	14.4	107.0	122.31	-111.6	-444.5	264.0	113.2	150.78	1.751 Advise and Monitor	
4,200.0	4,133.6	4,140.9	4,138.7	14.9	110.0	126.27	-112.6	-444.5	276.9	121.9	155.02	1.786 Advise and Monitor	
4,300.0	4,230.7	4,239.3	4,237.1	15.3	113.1	130.09	-111.6	-444.5	293.1	133.8	159.36	1.839 Advise and Monitor	
4,400.0	4,327.7	4,335.0	4,332.7	15.8	116.0	133.42	-112.6	-444.5	308.5	144.9	163.57	1.886 Advise and Monitor	
4,500.0	4,424.7	4,435.0	4,432.7	16.2	116.0	133.42	-112.6	-444.5	340.0	183.2	156.85	2.168	
4,600.0	4,521.8	4,435.0	4,432.7	16.7	116.0	133.42	-112.6	-444.5	395.1	252.2	142.84	2.766	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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		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		
4,700.0	4,618.8	4,335.0	4,332.7	17.2	116.0	133.42	-112.6	-444.5	465.3	337.0	128.32	3.626		
4,800.0	4,715.8	4,335.0	4,332.7	17.6	116.0	133.42	-112.6	-444.5	544.9	429.1	115.87	4.703		
4,900.0	4,812.9	4,335.0	4,332.7	18.1	116.0	133.42	-112.6	-444.5	630.4	524.6	105.82	5.957		
5,000.0	4,909.9	4,335.0	4,332.7	18.6	116.0	133.42	-112.6	-444.5	719.6	621.8	97.82	7.357		
5,100.0	5,006.9	4,335.0	4,332.7	19.0	116.0	133.42	-112.6	-444.5	811.4	720.0	91.42	8.876		
5,200.0	5,103.9	4,335.0	4,332.7	19.5	116.0	133.42	-112.6	-444.5	904.9	818.6	86.24	10.492		
5,300.0	5,201.0	4,335.0	4,332.7	20.0	116.0	133.42	-112.6	-444.5	999.6	917.6	82.02	12.188		

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #6 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 500-INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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	12.0	12.0	3.0	3.0	108.76	-300.7	885.4	935.1	928.1	6.98	133.911	
100.0	100.0	112.0	112.0	3.1	3.2	108.76	-300.7	885.4	935.1	928.0	7.12	131.367	
200.0	200.0	212.0	212.0	3.2	3.6	108.76	-300.7	885.4	935.1	927.5	7.65	122.264	
300.0	300.0	312.0	312.0	3.4	4.2	108.76	-300.7	885.4	935.1	926.7	8.37	111.772	
400.0	400.0	412.0	412.0	3.5	4.8	108.76	-300.7	885.4	935.1	925.9	9.22	101.384	
500.0	500.0	512.0	512.0	3.6	5.7	108.76	-300.7	885.4	935.1	924.8	10.30	90.797	
600.0	600.0	612.0	612.0	3.7	7.4	108.76	-300.7	885.4	935.1	922.7	12.42	75.263	
700.0	700.0	712.0	712.0	3.9	9.2	108.76	-300.7	885.4	935.1	920.4	14.73	63.465	
741.3	741.3	753.3	753.3	3.9	9.9	108.72	-300.1	885.4	934.9	919.2	15.72	59.473	
800.0	800.0	811.7	811.7	4.0	11.0	108.73	-300.2	885.4	934.9	917.8	17.14	54.542	
900.0	900.0	911.2	911.2	4.1	12.8	108.74	-300.4	885.4	935.0	915.4	19.61	47.682	
1,000.0	1,000.0	1,012.0	1,012.0	4.2	14.7	108.76	-300.7	885.4	935.1	913.0	22.09	42.330	
1,100.0	1,100.0	1,112.0	1,112.0	4.3	16.8	108.76	-300.7	885.4	935.1	910.1	25.00	37.405	
1,200.0	1,200.0	1,212.0	1,212.0	4.5	19.0	108.76	-300.7	885.4	935.1	907.2	27.93	33.475	
1,241.3	1,241.3	1,253.3	1,253.2	4.5	19.9	108.71	-299.9	885.4	934.8	905.7	29.15	32.070 CC	
1,300.0	1,300.0	1,311.6	1,311.5	4.6	21.1	108.71	-299.9	885.4	934.9	904.0	30.87	30.280	
1,400.0	1,400.0	1,410.8	1,410.7	4.7	23.2	108.73	-300.2	885.4	934.9	901.1	33.82	27.647	
1,500.0	1,500.0	1,512.1	1,512.0	4.8	25.5	108.76	-300.7	885.4	935.1	898.2	36.91	25.337	
1,600.0	1,600.0	1,612.1	1,612.0	5.0	28.1	-118.32	-300.7	885.4	935.9	895.6	40.29	23.229	
1,700.0	1,699.8	1,710.3	1,710.1	5.2	30.6	-118.60	-299.9	885.4	938.2	894.3	43.84	21.401 ES	
1,800.0	1,799.5	1,811.7	1,811.5	5.5	33.3	-118.95	-300.7	885.4	942.6	895.1	47.53	19.832	
1,900.0	1,898.7	1,911.0	1,910.7	5.7	35.9	-119.49	-300.7	885.4	948.6	897.4	51.22	18.521	
2,000.0	1,997.5	2,009.6	2,009.3	6.0	38.5	-120.26	-298.8	885.4	955.9	901.0	54.89	17.416	
2,100.0	2,095.6	2,105.9	2,105.5	6.4	41.1	-121.01	-299.2	885.4	965.9	907.4	58.48	16.518	
2,200.0	2,193.1	2,201.6	2,201.3	6.7	43.7	-121.83	-300.4	885.4	978.2	916.1	62.05	15.764	
2,300.0	2,290.1	2,302.6	2,302.1	7.0	46.2	-123.02	-300.7	885.4	991.5	925.9	65.63	15.108 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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #714H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_1500-r.5 MWD+IFR1_11378-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	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,800.0	6,679.5	7,080.3	6,884.8	26.3	29.1	95.59	45.4	-1,374.1	985.5	947.2	38.36	25.692	
6,900.0	6,779.5	7,176.0	6,976.8	26.6	29.6	96.89	48.2	-1,347.9	971.2	932.6	38.58	25.173	
6,956.1	6,835.6	7,229.9	7,028.6	26.6	29.9	-35.40	49.8	-1,333.1	963.3	924.6	38.69	24.900	
7,000.0	6,879.5	7,272.1	7,069.1	26.6	30.1	-34.79	51.0	-1,321.5	957.3	918.5	38.76	24.697	
7,100.0	6,979.5	7,368.2	7,161.5	26.7	30.6	-33.36	53.8	-1,295.2	943.9	905.0	38.95	24.232	
7,200.0	7,079.5	7,462.3	7,252.0	26.7	31.0	-31.94	56.5	-1,269.5	931.2	892.1	39.12	23.802	
7,300.0	7,179.5	7,546.9	7,333.8	26.7	31.4	-30.71	58.8	-1,247.9	920.0	880.7	39.24	23.444	
7,400.0	7,279.5	7,632.8	7,417.4	26.7	31.9	-29.59	60.9	-1,228.4	910.5	871.1	39.37	23.126	
7,500.0	7,379.5	7,719.9	7,502.8	26.7	32.3	-28.58	62.7	-1,211.2	902.6	863.1	39.49	22.855	
7,600.0	7,479.5	7,808.0	7,589.6	26.8	32.7	-27.71	64.3	-1,196.5	896.2	856.6	39.61	22.625	
7,700.0	7,579.5	7,900.0	7,680.7	26.8	33.1	-26.95	65.6	-1,184.0	891.1	851.4	39.74	22.423	
7,800.0	7,679.5	7,986.4	7,766.7	26.8	33.5	-26.40	66.6	-1,174.8	887.3	847.5	39.82	22.285	
7,900.0	7,779.5	8,076.6	7,856.5	26.8	33.8	-25.98	67.3	-1,168.1	884.7	844.8	39.91	22.170	
8,000.0	7,879.5	8,167.0	7,946.9	26.8	34.1	-25.74	67.7	-1,164.1	883.2	843.3	39.98	22.091	
8,100.0	7,979.5	8,258.6	8,038.5	26.9	34.3	-25.67	67.8	-1,162.9	882.8	842.8	40.02	22.058	
8,200.0	8,079.5	8,358.6	8,138.5	26.9	34.3	-25.67	67.8	-1,162.9	882.8	842.7	40.09	22.021	
8,300.0	8,179.5	8,458.6	8,238.5	26.9	34.3	-25.67	67.8	-1,162.9	882.8	842.7	40.16	21.980	
8,400.0	8,279.5	8,558.6	8,338.5	26.9	34.3	-25.67	67.8	-1,162.9	882.8	842.6	40.24	21.938	
8,500.0	8,379.5	8,658.6	8,438.5	27.0	34.4	-25.67	67.8	-1,162.9	882.8	842.5	40.32	21.896	
8,600.0	8,479.5	8,758.6	8,538.5	27.0	34.4	-25.67	67.8	-1,162.9	882.8	842.4	40.40	21.855	
8,700.0	8,579.5	8,858.6	8,638.5	27.0	34.4	-25.67	67.8	-1,162.9	882.8	842.3	40.47	21.813	
8,800.0	8,679.5	8,958.6	8,738.5	27.0	34.4	-25.67	67.8	-1,162.9	882.8	842.3	40.55	21.771	
8,900.0	8,779.5	9,058.6	8,838.5	27.0	34.5	-25.67	67.8	-1,162.9	882.8	842.2	40.63	21.728	
9,000.0	8,879.5	9,158.6	8,938.5	27.1	34.5	-25.67	67.8	-1,162.9	882.8	842.1	40.71	21.686	
9,100.0	8,979.5	9,258.6	9,038.5	27.1	34.5	-25.67	67.8	-1,162.9	882.8	842.0	40.79	21.644	
9,200.0	9,079.5	9,358.6	9,138.5	27.1	34.5	-25.67	67.8	-1,162.9	882.8	841.9	40.87	21.601	
9,300.0	9,179.5	9,458.6	9,238.5	27.1	34.5	-25.67	67.8	-1,162.9	882.8	841.9	40.95	21.559	
9,400.0	9,279.5	9,558.6	9,338.5	27.2	34.6	-25.67	67.8	-1,162.9	882.8	841.8	41.03	21.516	
9,500.0	9,379.5	9,658.6	9,438.5	27.2	34.6	-25.67	67.8	-1,162.9	882.8	841.7	41.11	21.473	
9,600.0	9,479.5	9,758.6	9,538.5	27.2	34.6	-25.67	67.8	-1,162.9	882.8	841.6	41.19	21.430	
9,700.0	9,579.5	9,858.6	9,638.5	27.2	34.6	-25.67	67.8	-1,162.9	882.8	841.5	41.28	21.388	
9,800.0	9,679.5	9,958.6	9,738.5	27.3	34.7	-25.67	67.8	-1,162.9	882.8	841.5	41.36	21.345	
9,900.0	9,779.5	10,058.6	9,838.5	27.3	34.7	-25.67	67.8	-1,162.9	882.8	841.4	41.44	21.302	
10,000.0	9,879.5	10,158.6	9,938.5	27.3	34.7	-25.67	67.8	-1,162.9	882.8	841.3	41.53	21.258	
10,100.0	9,979.5	10,258.6	10,038.5	27.3	34.8	-25.67	67.8	-1,162.9	882.8	841.2	41.61	21.215	
10,200.0	10,079.5	10,358.6	10,138.5	27.4	34.8	-25.67	67.8	-1,162.9	882.8	841.1	41.70	21.172	
10,300.0	10,179.5	10,458.6	10,238.5	27.4	34.8	-25.67	67.8	-1,162.9	882.8	841.0	41.78	21.129	
10,400.0	10,279.5	10,558.6	10,338.5	27.4	34.8	-25.67	67.8	-1,162.9	882.8	840.9	41.87	21.086	
10,500.0	10,379.5	10,658.6	10,438.5	27.4	34.9	-25.67	67.8	-1,162.9	882.8	840.9	41.95	21.042	
10,600.0	10,479.5	10,758.6	10,538.5	27.5	34.9	-25.67	67.8	-1,162.9	882.8	840.8	42.04	20.999	
10,700.0	10,579.5	10,858.6	10,638.5	27.5	34.9	-25.67	67.8	-1,162.9	882.8	840.7	42.13	20.955	
10,800.0	10,679.5	10,958.6	10,738.5	27.5	34.9	-25.67	67.8	-1,162.9	882.8	840.6	42.22	20.912	
10,900.0	10,779.5	11,058.6	10,838.5	27.6	35.0	-25.67	67.8	-1,162.9	882.8	840.5	42.30	20.868	
11,000.0	10,879.5	11,158.6	10,938.5	27.6	35.0	-25.67	67.8	-1,162.9	882.8	840.4	42.39	20.825	
11,100.0	10,979.5	11,258.6	11,038.5	27.6	35.0	-25.67	67.8	-1,162.9	882.8	840.3	42.48	20.781	
11,200.0	11,079.5	11,358.6	11,138.5	27.6	35.0	-25.67	67.8	-1,162.9	882.8	840.3	42.56	20.741 CC, ES, SF	
11,300.0	11,179.5	11,407.9	11,187.7	27.7	35.1	-25.64	68.8	-1,163.0	885.1	842.8	42.36	20.896	
11,379.1	11,258.5	11,437.2	11,216.9	27.7	35.1	-25.57	71.6	-1,163.0	891.9	849.7	42.14	21.162	
11,400.0	11,279.5	11,450.0	11,229.6	27.7	35.1	154.71	73.3	-1,163.0	894.8	852.9	41.90	21.356	
11,425.0	11,304.4	11,450.0	11,229.6	27.7	35.1	154.45	73.3	-1,163.0	899.8	858.0	41.82	21.515	
11,450.0	11,329.2	11,462.7	11,242.1	27.7	35.1	154.20	75.4	-1,163.0	906.3	864.5	41.80	21.682	
11,475.0	11,353.8	11,475.0	11,254.2	27.7	35.1	153.88	77.7	-1,163.0	914.4	872.6	41.78	21.884	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #714H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11378-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	
11,500.0	11,378.2	11,475.0	11,254.2	27.7	35.1	153.33	77.7	-1,163.0	923.9	882.2	41.74	22.134		
11,525.0	11,402.2	11,487.3	11,266.2	27.7	35.1	152.85	80.4	-1,163.1	934.9	893.1	41.74	22.394		
11,550.0	11,425.8	11,500.0	11,278.6	27.7	35.1	152.29	83.4	-1,163.1	947.2	905.5	41.76	22.685		
11,575.0	11,449.0	11,500.0	11,278.6	27.7	35.1	151.36	83.4	-1,163.1	960.9	919.1	41.76	23.011		
11,600.0	11,471.7	11,508.5	11,286.8	27.7	35.1	150.48	85.7	-1,163.1	975.8	934.0	41.78	23.354		
11,625.0	11,493.7	11,514.7	11,292.7	27.7	35.1	149.38	87.4	-1,163.1	991.8	950.0	41.81	23.721		

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #763H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_1500-r.5 MWD+IFR1_11160-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,400.0	6,280.3	6,680.0	6,520.5	24.9	26.9	34.50	-864.6	-1,709.7	982.5	936.6	45.94	21.385	
6,500.0	6,380.0	6,755.2	6,593.6	25.3	27.2	33.93	-872.7	-1,693.6	955.9	909.2	46.69	20.473	
6,600.0	6,479.7	6,831.7	6,668.3	25.7	27.6	33.38	-880.0	-1,679.1	932.9	885.4	47.41	19.675	
6,700.0	6,579.6	6,900.0	6,735.4	26.0	27.9	32.92	-885.8	-1,667.6	913.5	865.4	48.09	18.994	
6,800.0	6,679.5	6,987.9	6,822.2	26.3	28.3	32.39	-892.1	-1,654.9	897.6	848.9	48.72	18.425	
6,900.0	6,779.5	7,067.3	6,900.8	26.6	28.7	31.96	-896.9	-1,645.5	885.5	836.3	49.28	17.970	
6,956.1	6,835.6	7,112.2	6,945.4	26.6	28.9	-101.25	-899.1	-1,641.1	880.4	830.9	49.51	17.783	
7,000.0	6,879.5	7,147.3	6,980.4	26.6	29.0	-101.39	-900.6	-1,638.0	877.0	827.4	49.63	17.670	
7,100.0	6,979.5	7,227.7	7,060.5	26.7	29.3	-101.64	-903.4	-1,632.5	870.9	821.0	49.92	17.447	
7,200.0	7,079.5	7,300.0	7,132.7	26.7	29.6	-101.79	-905.0	-1,629.2	867.2	817.0	50.14	17.296	
7,300.0	7,179.5	7,389.3	7,222.0	26.7	29.7	-101.87	-905.9	-1,627.5	865.5	815.2	50.27	17.218	
7,343.6	7,223.1	7,428.3	7,261.1	26.7	29.8	-101.88	-906.0	-1,627.4	865.4	815.1	50.30	17.205	
7,400.0	7,279.5	7,484.8	7,317.5	26.7	29.8	-101.88	-906.0	-1,627.4	865.4	815.1	50.32	17.198	
7,500.0	7,379.5	7,584.8	7,417.5	26.7	29.8	-101.88	-906.0	-1,627.4	865.4	815.1	50.36	17.185	
7,600.0	7,479.5	7,684.8	7,517.5	26.8	29.8	-101.88	-906.0	-1,627.4	865.4	815.0	50.40	17.171	
7,700.0	7,579.5	7,784.8	7,617.5	26.8	29.9	-101.88	-906.0	-1,627.4	865.4	815.0	50.44	17.157	
7,800.0	7,679.5	7,884.8	7,717.5	26.8	29.9	-101.88	-906.0	-1,627.4	865.4	814.9	50.48	17.143	
7,900.0	7,779.5	7,984.8	7,817.5	26.8	29.9	-101.88	-906.0	-1,627.4	865.4	814.9	50.53	17.128	
8,000.0	7,879.5	8,084.8	7,917.5	26.8	29.9	-101.88	-906.0	-1,627.4	865.4	814.9	50.57	17.114	
8,100.0	7,979.5	8,184.8	8,017.5	26.9	29.9	-101.88	-906.0	-1,627.4	865.4	814.8	50.61	17.099	
8,200.0	8,079.5	8,284.8	8,117.5	26.9	30.0	-101.88	-906.0	-1,627.4	865.4	814.8	50.66	17.084	
8,300.0	8,179.5	8,384.8	8,217.5	26.9	30.0	-101.88	-906.0	-1,627.4	865.4	814.7	50.70	17.070	
8,400.0	8,279.5	8,484.8	8,317.5	26.9	30.0	-101.88	-906.0	-1,627.4	865.4	814.7	50.74	17.055	
8,500.0	8,379.5	8,584.8	8,417.5	27.0	30.0	-101.88	-906.0	-1,627.4	865.4	814.6	50.79	17.039	
8,600.0	8,479.5	8,684.8	8,517.5	27.0	30.0	-101.88	-906.0	-1,627.4	865.4	814.6	50.84	17.024	
8,700.0	8,579.5	8,784.8	8,617.5	27.0	30.1	-101.88	-906.0	-1,627.4	865.4	814.5	50.88	17.009	
8,800.0	8,679.5	8,884.8	8,717.5	27.0	30.1	-101.88	-906.0	-1,627.4	865.4	814.5	50.93	16.993	
8,900.0	8,779.5	8,984.8	8,817.5	27.0	30.1	-101.88	-906.0	-1,627.4	865.4	814.5	50.98	16.977	
9,000.0	8,879.5	9,084.8	8,917.5	27.1	30.1	-101.88	-906.0	-1,627.4	865.4	814.4	51.02	16.962	
9,100.0	8,979.5	9,184.8	9,017.5	27.1	30.2	-101.88	-906.0	-1,627.4	865.4	814.4	51.07	16.946	
9,200.0	9,079.5	9,284.8	9,117.5	27.1	30.2	-101.88	-906.0	-1,627.4	865.4	814.3	51.12	16.930	
9,300.0	9,179.5	9,384.8	9,217.5	27.1	30.2	-101.88	-906.0	-1,627.4	865.4	814.3	51.17	16.913	
9,400.0	9,279.5	9,484.8	9,317.5	27.2	30.2	-101.88	-906.0	-1,627.4	865.4	814.2	51.22	16.897	
9,500.0	9,379.5	9,584.8	9,417.5	27.2	30.2	-101.88	-906.0	-1,627.4	865.4	814.2	51.27	16.881	
9,600.0	9,479.5	9,684.8	9,517.5	27.2	30.3	-101.88	-906.0	-1,627.4	865.4	814.1	51.32	16.864	
9,700.0	9,579.5	9,784.8	9,617.5	27.2	30.3	-101.88	-906.0	-1,627.4	865.4	814.1	51.37	16.847	
9,800.0	9,679.5	9,884.8	9,717.5	27.3	30.3	-101.88	-906.0	-1,627.4	865.4	814.0	51.42	16.831	
9,900.0	9,779.5	9,984.8	9,817.5	27.3	30.3	-101.88	-906.0	-1,627.4	865.4	814.0	51.47	16.814	
10,000.0	9,879.5	10,084.8	9,917.5	27.3	30.4	-101.88	-906.0	-1,627.4	865.4	813.9	51.52	16.797	
10,100.0	9,979.5	10,184.8	10,017.5	27.3	30.4	-101.88	-906.0	-1,627.4	865.4	813.9	51.58	16.780	
10,200.0	10,079.5	10,284.8	10,117.5	27.4	30.4	-101.88	-906.0	-1,627.4	865.4	813.8	51.63	16.762	
10,300.0	10,179.5	10,384.8	10,217.5	27.4	30.4	-101.88	-906.0	-1,627.4	865.4	813.7	51.68	16.745	
10,400.0	10,279.5	10,484.8	10,317.5	27.4	30.5	-101.88	-906.0	-1,627.4	865.4	813.7	51.74	16.727	
10,500.0	10,379.5	10,584.8	10,417.5	27.4	30.5	-101.88	-906.0	-1,627.4	865.4	813.6	51.79	16.710	
10,600.0	10,479.5	10,684.8	10,517.5	27.5	30.5	-101.88	-906.0	-1,627.4	865.4	813.6	51.85	16.692	
10,700.0	10,579.5	10,784.8	10,617.5	27.5	30.5	-101.88	-906.0	-1,627.4	865.4	813.5	51.90	16.674	
10,800.0	10,679.5	10,884.8	10,717.5	27.5	30.6	-101.88	-906.0	-1,627.4	865.4	813.5	51.96	16.656	
10,900.0	10,779.5	10,984.8	10,817.5	27.6	30.6	-101.88	-906.0	-1,627.4	865.4	813.4	52.01	16.638	
11,000.0	10,879.5	11,084.8	10,917.5	27.6	30.6	-101.88	-906.0	-1,627.4	865.4	813.4	52.07	16.620	
11,009.2	10,888.7	11,094.0	10,926.7	27.6	30.6	-101.88	-906.0	-1,627.4	865.4	813.4	52.08	16.619 CC	
11,100.0	10,979.5	11,175.0	11,007.7	27.6	30.6	-101.89	-906.2	-1,627.4	865.5	813.4	52.09	16.616	
11,200.0	11,079.5	11,250.0	11,082.2	27.6	30.6	-102.43	-914.4	-1,627.4	867.9	815.8	52.05	16.674	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #763H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11160-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	
11,300.0	11,179.5	11,318.9	11,148.7	27.7	30.6	-103.57	-932.2	-1,627.2	873.8	821.8	51.97	16.812	
11,379.1	11,258.5	11,368.7	11,194.8	27.7	30.7	-104.76	-950.9	-1,627.1	881.4	829.5	51.94	16.969	
11,400.0	11,279.5	11,381.3	11,206.1	27.7	30.7	75.00	-956.4	-1,627.1	883.8	832.1	51.70	17.094	
11,425.0	11,304.4	11,400.0	11,222.7	27.7	30.7	74.20	-965.1	-1,627.0	886.7	835.0	51.68	17.156	
11,450.0	11,329.2	11,411.2	11,232.4	27.7	30.7	73.61	-970.6	-1,627.0	889.5	837.8	51.66	17.219	
11,475.0	11,353.8	11,425.0	11,244.3	27.7	30.7	72.99	-977.7	-1,626.9	892.2	840.6	51.64	17.279	
11,500.0	11,378.2	11,440.8	11,257.6	27.7	30.7	72.35	-986.3	-1,626.9	894.9	843.3	51.62	17.335	
11,525.0	11,402.2	11,455.5	11,269.7	27.7	30.7	71.77	-994.6	-1,626.8	897.5	845.9	51.61	17.389	
11,550.0	11,425.8	11,475.0	11,285.3	27.7	30.7	71.13	-1,006.3	-1,626.8	900.0	848.3	51.61	17.438	
11,575.0	11,449.0	11,484.9	11,293.1	27.7	30.7	70.70	-1,012.4	-1,626.7	902.3	850.7	51.60	17.487	
11,600.0	11,471.7	11,500.0	11,304.7	27.7	30.7	70.22	-1,022.1	-1,626.7	904.5	852.9	51.60	17.530	
11,625.0	11,493.7	11,514.1	11,315.2	27.7	30.7	69.79	-1,031.5	-1,626.6	906.6	855.0	51.60	17.570	
11,650.0	11,515.2	11,525.0	11,323.1	27.7	30.7	69.43	-1,038.9	-1,626.5	908.5	856.9	51.59	17.608	
11,675.0	11,535.9	11,543.2	11,336.0	27.8	30.7	69.03	-1,051.8	-1,626.5	910.2	858.6	51.61	17.637	
11,700.0	11,555.8	11,557.7	11,346.0	27.8	30.7	68.71	-1,062.4	-1,626.4	911.8	860.1	51.62	17.664	
11,725.0	11,575.0	11,575.0	11,357.3	27.8	30.7	68.40	-1,075.4	-1,626.3	913.2	861.5	51.64	17.684	
11,750.0	11,593.3	11,586.7	11,364.8	27.8	30.7	68.18	-1,084.4	-1,626.2	914.3	862.7	51.65	17.704	
11,775.0	11,610.6	11,600.0	11,373.0	27.8	30.7	67.99	-1,094.9	-1,626.2	915.3	863.7	51.66	17.717	
11,800.0	11,627.0	11,615.6	11,382.2	27.8	30.7	67.83	-1,107.5	-1,626.1	916.1	864.4	51.69	17.724	
11,825.0	11,642.4	11,625.0	11,387.5	27.8	30.7	67.72	-1,115.2	-1,626.0	916.7	865.0	51.70	17.732	
11,850.0	11,656.7	11,644.5	11,398.2	27.8	30.8	67.63	-1,131.5	-1,625.9	917.1	865.3	51.74	17.725	
11,875.0	11,670.0	11,658.9	11,405.6	27.9	30.8	67.60	-1,143.9	-1,625.9	917.3	865.5	51.77	17.718	
11,900.0	11,682.1	11,675.0	11,413.4	27.9	30.8	67.61	-1,157.9	-1,625.8	917.2	865.4	51.81	17.704	
11,925.0	11,693.1	11,687.8	11,419.3	27.9	30.8	67.66	-1,169.3	-1,625.7	917.0	865.1	51.84	17.689	
11,950.0	11,702.8	11,700.0	11,424.6	27.9	30.8	67.74	-1,180.3	-1,625.6	916.5	864.6	51.87	17.669	
11,975.0	11,711.4	11,716.7	11,431.5	27.9	30.8	67.88	-1,195.5	-1,625.5	915.8	863.9	51.92	17.639	
12,000.0	11,718.7	11,731.1	11,437.0	27.9	30.8	68.06	-1,208.9	-1,625.4	915.0	863.0	51.97	17.607	
12,025.0	11,724.7	11,750.0	11,443.5	28.0	30.8	68.31	-1,226.6	-1,625.3	913.9	861.9	52.03	17.565	
12,050.0	11,729.5	11,760.1	11,446.7	28.0	30.8	68.53	-1,236.1	-1,625.3	912.6	860.6	52.07	17.527	
12,075.0	11,732.9	11,775.0	11,451.1	28.0	30.8	68.83	-1,250.4	-1,625.2	911.2	859.0	52.13	17.480	
12,100.0	11,735.1	11,789.1	11,454.8	28.0	30.8	69.17	-1,264.0	-1,625.1	909.5	857.3	52.18	17.429	
12,125.0	11,736.0	11,800.0	11,457.4	28.0	30.8	69.50	-1,274.6	-1,625.0	907.7	855.5	52.23	17.378	
12,129.1	11,736.0	11,806.0	11,458.8	28.0	30.9	69.61	-1,280.4	-1,625.0	907.4	855.2	52.26	17.364	
12,200.0	11,736.0	11,850.0	11,466.3	28.1	30.9	70.05	-1,323.7	-1,624.7	903.1	850.7	52.45	17.217	
12,300.0	11,736.0	11,909.8	11,470.0	28.2	30.9	70.28	-1,383.4	-1,624.3	900.9	848.2	52.72	17.089	
12,334.0	11,736.0	11,942.2	11,470.0	28.2	31.0	70.28	-1,415.7	-1,624.1	900.9	848.0	52.86	17.044	
12,400.0	11,736.0	12,008.2	11,470.0	28.3	31.0	70.28	-1,481.7	-1,623.7	900.9	847.7	53.14	16.953	
12,500.0	11,736.0	12,108.2	11,470.0	28.4	31.2	70.28	-1,581.7	-1,623.0	900.9	847.3	53.61	16.804	
12,600.0	11,736.0	12,208.2	11,470.0	28.5	31.3	70.28	-1,681.7	-1,622.4	900.9	846.8	54.12	16.646	
12,700.0	11,736.0	12,308.2	11,470.0	28.7	31.4	70.28	-1,781.7	-1,621.7	900.9	846.2	54.67	16.480	
12,800.0	11,736.0	12,408.2	11,470.0	28.9	31.6	70.28	-1,881.7	-1,621.1	900.9	845.6	55.25	16.306	
12,900.0	11,736.0	12,508.2	11,470.0	29.1	31.8	70.28	-1,981.7	-1,620.4	900.9	845.0	55.87	16.126	
13,000.0	11,736.0	12,608.2	11,470.0	29.3	32.0	70.28	-2,081.7	-1,619.8	900.9	844.4	56.52	15.940	
13,100.0	11,736.0	12,708.2	11,470.0	29.5	32.3	70.28	-2,181.7	-1,619.1	900.9	843.7	57.20	15.749	
13,200.0	11,736.0	12,808.2	11,470.0	29.8	32.5	70.28	-2,281.7	-1,618.4	900.9	843.0	57.92	15.555	
13,300.0	11,736.0	12,908.2	11,470.0	30.0	32.8	70.28	-2,381.7	-1,617.8	900.9	842.2	58.66	15.357	
13,400.0	11,736.0	13,008.2	11,470.0	30.3	33.1	70.28	-2,481.7	-1,617.1	900.9	841.4	59.44	15.156	
13,500.0	11,736.0	13,108.2	11,470.0	30.7	33.4	70.28	-2,581.7	-1,616.5	900.9	840.6	60.24	14.954	
13,600.0	11,736.0	13,208.2	11,470.0	31.0	33.7	70.28	-2,681.7	-1,615.8	900.9	839.8	61.07	14.751	
13,700.0	11,736.0	13,308.2	11,470.0	31.4	34.0	70.28	-2,781.7	-1,615.2	900.9	838.9	61.93	14.547	
13,800.0	11,736.0	13,408.2	11,470.0	31.7	34.4	70.28	-2,881.7	-1,614.5	900.9	838.1	62.81	14.343	
13,900.0	11,736.0	13,508.2	11,470.0	32.1	34.7	70.28	-2,981.7	-1,613.9	900.9	837.2	63.72	14.139	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #763H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_1500-r.5 MWD+IFR1_11160-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,000.0	11,736.0	13,608.2	11,470.0	32.5	35.1	70.28	-3,081.7	-1,613.2	900.9	836.2	64.64	13.936	
14,100.0	11,736.0	13,708.2	11,470.0	33.0	35.5	70.28	-3,181.7	-1,612.6	900.9	835.3	65.59	13.734	
14,200.0	11,736.0	13,808.2	11,470.0	33.4	35.9	70.28	-3,281.7	-1,611.9	900.9	834.3	66.56	13.534	
14,300.0	11,736.0	13,908.2	11,470.0	33.9	36.3	70.28	-3,381.7	-1,611.3	900.9	833.3	67.55	13.336	
14,400.0	11,736.0	14,008.2	11,470.0	34.4	36.8	70.28	-3,481.7	-1,610.6	900.9	832.3	68.56	13.139	
14,500.0	11,736.0	14,108.2	11,470.0	34.9	37.2	70.28	-3,581.7	-1,610.0	900.9	831.3	69.59	12.945	
14,600.0	11,736.0	14,208.2	11,470.0	35.4	37.7	70.28	-3,681.7	-1,609.3	900.9	830.2	70.64	12.754	
14,700.0	11,736.0	14,308.2	11,470.0	35.9	38.2	70.28	-3,781.7	-1,608.7	900.9	829.2	71.70	12.565	
14,800.0	11,736.0	14,408.2	11,470.0	36.4	38.6	70.28	-3,881.7	-1,608.0	900.9	828.1	72.78	12.379	
14,900.0	11,736.0	14,508.2	11,470.0	37.0	39.1	70.28	-3,981.7	-1,607.4	900.9	827.0	73.87	12.195	
15,000.0	11,736.0	14,608.2	11,470.0	37.5	39.6	70.28	-4,081.7	-1,606.7	900.9	825.9	74.98	12.015	
15,100.0	11,736.0	14,708.2	11,470.0	38.1	40.2	70.28	-4,181.7	-1,606.1	900.9	824.8	76.10	11.838	
15,200.0	11,736.0	14,808.2	11,470.0	38.7	40.7	70.28	-4,281.7	-1,605.4	900.9	823.6	77.23	11.664	
15,300.0	11,736.0	14,908.2	11,470.0	39.2	41.2	70.28	-4,381.7	-1,604.8	900.9	822.5	78.38	11.493	
15,400.0	11,736.0	15,008.2	11,470.0	39.8	41.8	70.28	-4,481.7	-1,604.1	900.9	821.3	79.54	11.326	
15,500.0	11,736.0	15,108.2	11,470.0	40.4	42.3	70.28	-4,581.7	-1,603.5	900.9	820.2	80.71	11.161	
15,600.0	11,736.0	15,208.2	11,470.0	41.0	42.9	70.28	-4,681.7	-1,602.8	900.9	819.0	81.90	11.000	
15,700.0	11,736.0	15,308.2	11,470.0	41.7	43.4	70.28	-4,781.7	-1,602.2	900.9	817.8	83.09	10.842	
15,800.0	11,736.0	15,408.2	11,470.0	42.3	44.0	70.28	-4,881.7	-1,601.5	900.9	816.6	84.29	10.687	
15,900.0	11,736.0	15,508.2	11,470.0	42.9	44.6	70.28	-4,981.7	-1,600.9	900.9	815.4	85.51	10.536	
16,000.0	11,736.0	15,608.2	11,470.0	43.5	45.2	70.28	-5,081.7	-1,600.2	900.9	814.1	86.73	10.387	
16,100.0	11,736.0	15,708.2	11,470.0	44.2	45.7	70.28	-5,181.7	-1,599.6	900.9	812.9	87.96	10.242	
16,200.0	11,736.0	15,808.2	11,470.0	44.8	46.3	70.28	-5,281.7	-1,598.9	900.9	811.7	89.20	10.099	
16,300.0	11,736.0	15,908.2	11,470.0	45.4	46.9	70.28	-5,381.7	-1,598.3	900.9	810.4	90.45	9.960	
16,400.0	11,736.0	16,008.2	11,470.0	46.1	47.5	70.28	-5,481.7	-1,597.6	900.9	809.2	91.71	9.824	
16,500.0	11,736.0	16,108.2	11,470.0	46.7	48.1	70.28	-5,581.7	-1,597.0	900.9	807.9	92.97	9.690	
16,600.0	11,736.0	16,208.2	11,470.0	47.4	48.8	70.28	-5,681.7	-1,596.3	900.9	806.6	94.24	9.559	
16,700.0	11,736.0	16,308.2	11,470.0	48.1	49.4	70.28	-5,781.7	-1,595.6	900.9	805.3	95.52	9.431	
16,800.0	11,736.0	16,408.2	11,470.0	48.7	50.0	70.28	-5,881.7	-1,595.0	900.9	804.1	96.80	9.306	
16,900.0	11,736.0	16,508.2	11,470.0	49.4	50.6	70.28	-5,981.7	-1,594.3	900.9	802.8	98.10	9.184	
17,000.0	11,736.0	16,608.2	11,470.0	50.1	51.3	70.28	-6,081.7	-1,593.7	900.9	801.5	99.39	9.064	
17,100.0	11,736.0	16,708.2	11,470.0	50.7	51.9	70.28	-6,181.6	-1,593.0	900.9	800.2	100.70	8.946	
17,200.0	11,736.0	16,808.2	11,470.0	51.4	52.5	70.28	-6,281.6	-1,592.4	900.9	798.9	102.01	8.831	
17,300.0	11,736.0	16,908.2	11,470.0	52.1	53.2	70.28	-6,381.6	-1,591.7	900.9	797.5	103.32	8.719	
17,400.0	11,736.0	17,008.2	11,470.0	52.8	53.8	70.28	-6,481.6	-1,591.1	900.9	796.2	104.64	8.609	
17,500.0	11,736.0	17,108.2	11,470.0	53.4	54.5	70.28	-6,581.6	-1,590.4	900.9	794.9	105.97	8.501	
17,600.0	11,736.0	17,208.2	11,470.0	54.1	55.1	70.28	-6,681.6	-1,589.8	900.9	793.6	107.30	8.396	
17,700.0	11,736.0	17,308.2	11,470.0	54.8	55.8	70.28	-6,781.6	-1,589.1	900.9	792.2	108.63	8.293	
17,800.0	11,736.0	17,408.2	11,470.0	55.5	56.4	70.28	-6,881.6	-1,588.5	900.9	790.9	109.97	8.192	
17,900.0	11,736.0	17,508.2	11,470.0	56.2	57.1	70.28	-6,981.6	-1,587.8	900.9	789.5	111.31	8.093	
18,000.0	11,736.0	17,608.2	11,470.0	56.9	57.7	70.28	-7,081.6	-1,587.2	900.9	788.2	112.66	7.996	
18,100.0	11,736.0	17,708.2	11,470.0	57.6	58.4	70.28	-7,181.6	-1,586.5	900.9	786.8	114.01	7.901	
18,200.0	11,736.0	17,808.2	11,470.0	58.3	59.1	70.28	-7,281.6	-1,585.9	900.9	785.5	115.37	7.808	
18,300.0	11,736.0	17,908.2	11,470.0	59.0	59.7	70.28	-7,381.6	-1,585.2	900.9	784.1	116.73	7.717	
18,400.0	11,736.0	18,008.2	11,470.0	59.7	60.4	70.28	-7,481.6	-1,584.6	900.9	782.8	118.09	7.628	
18,500.0	11,736.0	18,108.2	11,470.0	60.4	61.1	70.28	-7,581.6	-1,583.9	900.9	781.4	119.46	7.541	
18,600.0	11,736.0	18,208.2	11,470.0	61.1	61.8	70.28	-7,681.6	-1,583.3	900.9	780.0	120.83	7.456	
18,700.0	11,736.0	18,308.2	11,470.0	61.8	62.5	70.28	-7,781.6	-1,582.6	900.9	778.7	122.20	7.372	
18,800.0	11,736.0	18,408.2	11,470.0	62.5	63.1	70.28	-7,881.6	-1,582.0	900.9	777.3	123.58	7.290	
18,900.0	11,736.0	18,508.2	11,470.0	63.2	63.8	70.28	-7,981.6	-1,581.3	900.9	775.9	124.96	7.209	
19,000.0	11,736.0	18,608.2	11,470.0	63.9	64.5	70.28	-8,081.6	-1,580.7	900.9	774.5	126.34	7.130	
19,100.0	11,736.0	18,708.2	11,470.0	64.6	65.2	70.28	-8,181.6	-1,580.0	900.9	773.1	127.73	7.053	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #763H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11160-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.0	11,736.0	18,808.2	11,470.0	65.4	65.9	70.28	-8,281.6	-1,579.4	900.9	771.7	129.12	6.977	
19,300.0	11,736.0	18,908.2	11,470.0	66.1	66.6	70.28	-8,381.6	-1,578.7	900.9	770.3	130.51	6.903	
19,400.0	11,736.0	19,008.2	11,470.0	66.8	67.3	70.28	-8,481.6	-1,578.1	900.9	769.0	131.90	6.830	
19,500.0	11,736.0	19,108.2	11,470.0	67.5	67.9	70.28	-8,581.6	-1,577.4	900.9	767.6	133.30	6.758	
19,600.0	11,736.0	19,208.2	11,470.0	68.2	68.6	70.28	-8,681.6	-1,576.8	900.9	766.2	134.70	6.688	
19,700.0	11,736.0	19,308.2	11,470.0	68.9	69.3	70.28	-8,781.6	-1,576.1	900.9	764.8	136.10	6.619	
19,800.0	11,736.0	19,408.2	11,470.0	69.7	70.0	70.28	-8,881.6	-1,575.5	900.9	763.3	137.50	6.551	
19,900.0	11,736.0	19,508.2	11,470.0	70.4	70.7	70.28	-8,981.6	-1,574.8	900.9	761.9	138.91	6.485	
20,000.0	11,736.0	19,608.2	11,470.0	71.1	71.4	70.28	-9,081.6	-1,574.2	900.9	760.5	140.32	6.420	
20,100.0	11,736.0	19,708.2	11,470.0	71.8	72.1	70.28	-9,181.6	-1,573.5	900.9	759.1	141.73	6.356	
20,200.0	11,736.0	19,808.2	11,470.0	72.5	72.8	70.28	-9,281.6	-1,572.9	900.9	757.7	143.14	6.293	
20,300.0	11,736.0	19,908.2	11,470.0	73.3	73.5	70.28	-9,381.6	-1,572.2	900.9	756.3	144.56	6.232	
20,400.0	11,736.0	20,008.2	11,470.0	74.0	74.2	70.28	-9,481.6	-1,571.5	900.9	754.9	145.97	6.171	
20,500.0	11,736.0	20,108.2	11,470.0	74.7	74.9	70.28	-9,581.6	-1,570.9	900.9	753.5	147.39	6.112	
20,600.0	11,736.0	20,208.2	11,470.0	75.5	75.7	70.28	-9,681.6	-1,570.2	900.9	752.0	148.81	6.054	
20,700.0	11,736.0	20,308.2	11,470.0	76.2	76.4	70.28	-9,781.6	-1,569.6	900.9	750.6	150.23	5.996	
20,800.0	11,736.0	20,408.2	11,470.0	76.9	77.1	70.28	-9,881.6	-1,568.9	900.8	749.2	151.65	5.940	
20,900.0	11,736.0	20,508.2	11,470.0	77.6	77.8	70.28	-9,981.6	-1,568.3	900.8	747.8	153.08	5.885	
20,975.9	11,736.0	20,584.1	11,470.0	78.2	78.3	70.28	-10,057.5	-1,567.8	900.8	746.7	154.16	5.844	
21,000.0	11,736.0	20,608.2	11,470.0	78.4	78.5	70.28	-10,081.6	-1,567.6	900.8	746.3	154.50	5.831	
21,025.1	11,736.0	20,633.3	11,470.0	78.5	78.7	70.28	-10,106.7	-1,567.5	900.8	746.0	154.86	5.817	
21,026.0	11,736.0	20,633.8	11,470.0	78.5	78.7	70.28	-10,107.2	-1,567.5	900.8	746.0	154.87	5.817 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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11391-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference												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	
6,000.0	5,883.9	6,323.8	6,157.5	23.2	25.4	37.40	-797.5	-1,674.8	989.0	945.2	43.77	22.596	
6,100.0	5,982.7	6,417.0	6,247.1	23.7	25.9	36.89	-807.9	-1,651.2	953.0	908.5	44.54	21.395	
6,200.0	6,081.7	6,510.6	6,337.1	24.1	26.3	36.31	-818.3	-1,627.6	918.4	873.1	45.32	20.266	
6,300.0	6,180.9	6,604.7	6,427.6	24.5	26.8	35.65	-828.7	-1,603.9	885.1	839.0	46.08	19.208	
6,400.0	6,280.3	6,699.1	6,518.3	24.9	27.2	34.89	-839.2	-1,580.1	853.3	806.4	46.84	18.218	
6,500.0	6,380.0	6,793.9	6,609.5	25.3	27.7	34.03	-849.8	-1,556.2	822.9	775.3	47.58	17.294	
6,600.0	6,479.7	6,889.0	6,700.9	25.7	28.2	33.07	-860.4	-1,532.2	794.0	745.7	48.31	16.436	
6,700.0	6,579.6	6,984.4	6,792.6	26.0	28.7	31.98	-871.0	-1,508.1	766.7	717.6	49.02	15.641	
6,800.0	6,679.5	7,080.1	6,884.6	26.3	29.1	30.78	-881.6	-1,484.0	741.0	691.3	49.70	14.910	
6,900.0	6,779.5	7,176.0	6,976.7	26.6	29.6	29.45	-892.3	-1,459.8	717.0	666.7	50.33	14.247	
6,956.1	6,835.6	7,229.9	7,028.6	26.6	29.9	-104.36	-898.2	-1,446.2	704.4	653.8	50.61	13.918	
7,000.0	6,879.5	7,272.1	7,069.1	26.6	30.1	-104.97	-902.9	-1,435.5	694.8	644.0	50.79	13.680	
7,100.0	6,979.5	7,368.2	7,161.5	26.7	30.6	-106.41	-913.6	-1,411.3	673.2	622.0	51.19	13.150	
7,200.0	7,079.5	7,464.4	7,253.9	26.7	31.0	-107.95	-924.3	-1,387.0	652.0	600.4	51.56	12.645	
7,300.0	7,179.5	7,560.5	7,346.3	26.7	31.5	-109.58	-935.0	-1,362.8	631.3	579.4	51.90	12.164	
7,400.0	7,279.5	7,656.6	7,438.7	26.7	32.0	-111.32	-945.7	-1,338.5	611.2	559.0	52.20	11.708	
7,500.0	7,379.5	7,752.7	7,531.1	26.7	32.5	-113.18	-956.4	-1,314.3	591.7	539.2	52.46	11.278	
7,600.0	7,479.5	7,842.2	7,617.2	26.8	32.9	-114.97	-966.1	-1,292.1	573.1	520.4	52.72	10.872	
7,700.0	7,579.5	7,928.0	7,700.4	26.8	33.4	-116.62	-974.6	-1,272.9	557.0	504.0	52.96	10.517	
7,800.0	7,679.5	8,015.0	7,785.4	26.8	33.8	-118.15	-982.1	-1,255.8	543.3	490.2	53.15	10.221	
7,900.0	7,779.5	8,100.0	7,868.9	26.8	34.2	-119.49	-988.5	-1,241.4	532.0	478.6	53.32	9.977	
8,000.0	7,879.5	8,192.2	7,960.0	26.8	34.6	-120.75	-994.3	-1,228.3	522.8	469.3	53.44	9.783	
8,100.0	7,979.5	8,282.1	8,049.2	26.9	35.0	-121.76	-998.7	-1,218.1	515.6	462.1	53.55	9.629	
8,200.0	8,079.5	8,372.5	8,139.2	26.9	35.4	-122.54	-1,002.1	-1,210.4	510.4	456.8	53.65	9.514	
8,300.0	8,179.5	8,463.4	8,230.0	26.9	35.7	-123.06	-1,004.4	-1,205.4	507.1	453.3	53.76	9.432	
8,400.0	8,279.5	8,554.6	8,321.1	26.9	35.9	-123.31	-1,005.4	-1,202.9	505.5	451.6	53.84	9.389	
8,457.0	8,336.5	8,608.0	8,374.5	26.9	36.0	-123.33	-1,005.5	-1,202.7	505.3	451.5	53.88	9.380	
8,500.0	8,379.5	8,651.0	8,417.5	27.0	36.0	-123.33	-1,005.5	-1,202.7	505.3	451.4	53.89	9.377	
8,600.0	8,479.5	8,751.0	8,517.5	27.0	36.0	-123.33	-1,005.5	-1,202.7	505.3	451.4	53.94	9.369	
8,700.0	8,579.5	8,851.0	8,617.5	27.0	36.0	-123.33	-1,005.5	-1,202.7	505.3	451.4	53.98	9.362	
8,800.0	8,679.5	8,951.0	8,717.5	27.0	36.0	-123.33	-1,005.5	-1,202.7	505.3	451.3	54.02	9.354	
8,900.0	8,779.5	9,051.0	8,817.5	27.0	36.0	-123.33	-1,005.5	-1,202.7	505.3	451.3	54.07	9.346	
9,000.0	8,879.5	9,151.0	8,917.5	27.1	36.0	-123.33	-1,005.5	-1,202.7	505.3	451.2	54.11	9.338	
9,100.0	8,979.5	9,251.0	9,017.5	27.1	36.1	-123.33	-1,005.5	-1,202.7	505.3	451.2	54.16	9.331	
9,200.0	9,079.5	9,351.0	9,117.5	27.1	36.1	-123.33	-1,005.5	-1,202.7	505.3	451.1	54.20	9.323	
9,300.0	9,179.5	9,451.0	9,217.5	27.1	36.1	-123.33	-1,005.5	-1,202.7	505.3	451.1	54.25	9.315	
9,400.0	9,279.5	9,551.0	9,317.5	27.2	36.1	-123.33	-1,005.5	-1,202.7	505.3	451.0	54.30	9.307	
9,500.0	9,379.5	9,651.0	9,417.5	27.2	36.1	-123.33	-1,005.5	-1,202.7	505.3	451.0	54.34	9.299	
9,600.0	9,479.5	9,751.0	9,517.5	27.2	36.1	-123.33	-1,005.5	-1,202.7	505.3	450.9	54.39	9.291	
9,700.0	9,579.5	9,851.0	9,617.5	27.2	36.2	-123.33	-1,005.5	-1,202.7	505.3	450.9	54.44	9.282	
9,800.0	9,679.5	9,951.0	9,717.5	27.3	36.2	-123.33	-1,005.5	-1,202.7	505.3	450.8	54.49	9.274	
9,900.0	9,779.5	10,051.0	9,817.5	27.3	36.2	-123.33	-1,005.5	-1,202.7	505.3	450.8	54.54	9.266	
10,000.0	9,879.5	10,151.0	9,917.5	27.3	36.2	-123.33	-1,005.5	-1,202.7	505.3	450.8	54.59	9.258	
10,100.0	9,979.5	10,251.0	10,017.5	27.3	36.2	-123.33	-1,005.5	-1,202.7	505.3	450.7	54.64	9.249	
10,200.0	10,079.5	10,351.0	10,117.5	27.4	36.3	-123.33	-1,005.5	-1,202.7	505.3	450.7	54.69	9.241	
10,300.0	10,179.5	10,451.0	10,217.5	27.4	36.3	-123.33	-1,005.5	-1,202.7	505.3	450.6	54.74	9.232	
10,400.0	10,279.5	10,551.0	10,317.5	27.4	36.3	-123.33	-1,005.5	-1,202.7	505.3	450.5	54.79	9.223	
10,500.0	10,379.5	10,651.0	10,417.5	27.4	36.3	-123.33	-1,005.5	-1,202.7	505.3	450.5	54.84	9.215	
10,600.0	10,479.5	10,751.0	10,517.5	27.5	36.3	-123.33	-1,005.5	-1,202.7	505.3	450.4	54.89	9.206	
10,700.0	10,579.5	10,851.0	10,617.5	27.5	36.3	-123.33	-1,005.5	-1,202.7	505.3	450.4	54.94	9.197	
10,800.0	10,679.5	10,951.0	10,717.5	27.5	36.4	-123.33	-1,005.5	-1,202.7	505.3	450.3	55.00	9.188	
10,900.0	10,779.5	11,051.0	10,817.5	27.6	36.4	-123.33	-1,005.5	-1,202.7	505.3	450.3	55.05	9.180	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_1500-r.5 MWD+IFR1_11391-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	
11,000.0	10,879.5	11,151.0	10,917.5	27.6	36.4	-123.33	-1,005.5	-1,202.7	505.3	450.2	55.10	9.171	
11,100.0	10,979.5	11,251.0	11,017.5	27.6	36.4	-123.33	-1,005.5	-1,202.7	505.3	450.2	55.16	9.162	
11,200.0	11,079.5	11,351.0	11,117.5	27.6	36.4	-123.33	-1,005.5	-1,202.7	505.3	450.1	55.21	9.153	
11,210.0	11,089.5	11,361.0	11,127.5	27.6	36.4	-123.33	-1,005.5	-1,202.7	505.3	450.1	55.22	9.152	
11,300.0	11,179.5	11,425.0	11,191.5	27.7	36.5	-123.45	-1,006.7	-1,202.7	506.7	451.6	55.11	9.193	
11,379.1	11,258.5	11,475.0	11,241.1	27.7	36.5	-124.03	-1,012.9	-1,202.7	512.4	457.5	54.94	9.326	
11,400.0	11,279.5	11,491.1	11,256.9	27.7	36.5	55.88	-1,016.0	-1,202.6	514.4	459.8	54.67	9.410	
11,425.0	11,304.4	11,506.4	11,271.8	27.7	36.5	55.44	-1,019.4	-1,202.6	516.6	462.0	54.60	9.462	
11,450.0	11,329.2	11,525.0	11,289.7	27.7	36.5	55.02	-1,024.2	-1,202.6	518.6	464.0	54.55	9.506	
11,475.0	11,353.8	11,536.9	11,301.2	27.7	36.5	54.74	-1,027.6	-1,202.6	520.2	465.7	54.50	9.545	
11,500.0	11,378.2	11,550.0	11,313.6	27.7	36.5	54.49	-1,031.7	-1,202.5	521.6	467.1	54.46	9.577	
11,525.0	11,402.2	11,567.4	11,329.9	27.7	36.5	54.27	-1,037.7	-1,202.5	522.7	468.2	54.44	9.601	
11,550.0	11,425.8	11,582.6	11,344.0	27.7	36.5	54.12	-1,043.4	-1,202.5	523.4	469.0	54.42	9.618	
11,575.0	11,449.0	11,600.0	11,359.9	27.7	36.5	54.03	-1,050.5	-1,202.4	523.9	469.5	54.42	9.628	
11,600.0	11,471.7	11,613.0	11,371.6	27.7	36.5	54.00	-1,056.2	-1,202.4	524.1	469.7	54.41	9.632	
11,625.0	11,493.7	11,625.0	11,382.2	27.7	36.5	54.02	-1,061.7	-1,202.3	524.0	469.6	54.41	9.630	
11,650.0	11,515.2	11,643.4	11,398.3	27.7	36.5	54.10	-1,070.7	-1,202.3	523.6	469.1	54.43	9.618	
11,675.0	11,535.9	11,658.6	11,411.3	27.8	36.5	54.24	-1,078.5	-1,202.2	522.8	468.4	54.45	9.601	
11,700.0	11,555.8	11,675.0	11,425.0	27.8	36.5	54.44	-1,087.5	-1,202.2	521.8	467.3	54.49	9.577	
11,725.0	11,575.0	11,689.0	11,436.6	27.8	36.5	54.68	-1,095.5	-1,202.1	520.5	466.0	54.52	9.547	
11,750.0	11,593.3	11,700.0	11,445.4	27.8	36.5	54.94	-1,102.0	-1,202.1	518.9	464.4	54.55	9.514	
11,775.0	11,610.6	11,719.6	11,460.7	27.8	36.5	55.36	-1,114.1	-1,202.0	517.0	462.4	54.61	9.467	
11,800.0	11,627.0	11,734.8	11,472.4	27.8	36.5	55.78	-1,124.0	-1,201.9	514.9	460.2	54.67	9.418	
11,825.0	11,642.4	11,750.0	11,483.6	27.8	36.5	56.27	-1,134.2	-1,201.9	512.5	457.7	54.74	9.363	
11,850.0	11,656.7	11,765.5	11,494.8	27.8	36.5	56.81	-1,145.0	-1,201.8	509.8	455.0	54.81	9.301	
11,875.0	11,670.0	11,780.9	11,505.5	27.9	36.5	57.42	-1,156.1	-1,201.7	506.9	452.0	54.90	9.234	
11,900.0	11,682.1	11,800.0	11,518.3	27.9	36.5	58.16	-1,170.2	-1,201.6	503.8	448.8	55.00	9.160	
11,925.0	11,693.1	11,811.8	11,525.9	27.9	36.5	58.80	-1,179.3	-1,201.6	500.4	445.4	55.09	9.084	
11,950.0	11,702.8	11,825.0	11,534.2	27.9	36.5	59.52	-1,189.5	-1,201.5	496.9	441.7	55.19	9.004	
11,975.0	11,711.4	11,843.0	11,544.9	27.9	36.5	60.43	-1,203.9	-1,201.4	493.2	437.9	55.33	8.914	
12,000.0	11,718.7	11,858.6	11,553.9	27.9	36.5	61.34	-1,216.8	-1,201.3	489.3	433.9	55.46	8.823	
12,025.0	11,724.7	11,875.0	11,562.8	28.0	36.6	62.32	-1,230.5	-1,201.2	485.3	429.7	55.61	8.727	
12,050.0	11,729.5	11,890.2	11,570.6	28.0	36.6	63.33	-1,243.5	-1,201.2	481.2	425.4	55.77	8.628	
12,075.0	11,732.9	11,906.1	11,578.3	28.0	36.6	64.41	-1,257.4	-1,201.1	477.0	421.1	55.95	8.526	
12,100.0	11,735.1	11,925.0	11,586.9	28.0	36.6	65.68	-1,274.2	-1,201.0	472.8	416.6	56.15	8.419	
12,125.0	11,736.0	11,938.1	11,592.5	28.0	36.6	66.75	-1,286.1	-1,200.9	468.5	412.1	56.34	8.314	
12,129.1	11,736.0	11,940.7	11,593.6	28.0	36.6	66.95	-1,288.5	-1,200.9	467.8	411.4	56.38	8.296	
12,200.0	11,736.0	11,988.5	11,610.8	28.1	36.6	68.95	-1,333.0	-1,200.6	457.5	400.5	56.97	8.031	
12,300.0	11,736.0	12,061.3	11,628.3	28.2	36.7	71.04	-1,403.6	-1,200.1	449.0	391.3	57.69	7.783	
12,400.0	11,736.0	12,138.0	11,635.0	28.3	36.7	71.85	-1,479.9	-1,199.6	446.2	388.0	58.19	7.668	
12,404.4	11,736.0	12,141.5	11,635.0	28.3	36.7	71.85	-1,483.4	-1,199.6	446.2	388.0	58.21	7.666 CC	
12,500.0	11,736.0	12,237.0	11,635.0	28.4	36.8	71.85	-1,579.0	-1,199.0	446.2	387.6	58.61	7.613	
12,600.0	11,736.0	12,337.0	11,635.0	28.5	36.9	71.85	-1,679.0	-1,198.3	446.2	387.1	59.07	7.554	
12,700.0	11,736.0	12,437.0	11,635.0	28.7	37.0	71.85	-1,779.0	-1,197.7	446.2	386.6	59.56	7.492	
12,800.0	11,736.0	12,537.0	11,635.0	28.9	37.2	71.85	-1,879.0	-1,197.0	446.2	386.1	60.09	7.426	
12,900.0	11,736.0	12,637.0	11,635.0	29.1	37.3	71.85	-1,979.0	-1,196.4	446.2	385.6	60.65	7.357	
13,000.0	11,736.0	12,737.0	11,635.0	29.3	37.5	71.85	-2,079.0	-1,195.7	446.2	385.0	61.24	7.286	
13,100.0	11,736.0	12,837.0	11,635.0	29.5	37.7	71.85	-2,179.0	-1,195.1	446.2	384.3	61.86	7.213	
13,200.0	11,736.0	12,937.0	11,635.0	29.8	37.9	71.85	-2,279.0	-1,194.4	446.2	383.7	62.52	7.137	
13,300.0	11,736.0	13,037.0	11,635.0	30.0	38.1	71.85	-2,379.0	-1,193.8	446.2	383.0	63.20	7.060	
13,400.0	11,736.0	13,137.0	11,635.0	30.3	38.3	71.85	-2,479.0	-1,193.1	446.2	382.3	63.92	6.981	
13,500.0	11,736.0	13,237.0	11,635.0	30.7	38.6	71.85	-2,579.0	-1,192.5	446.2	381.5	64.66	6.901	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_1500-r.5 MWD+IFR1_11391-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,600.0	11,736.0	13,337.0	11,635.0	31.0	38.8	71.85	-2,679.0	-1,191.8	446.2	380.8	65.42	6.820	
13,700.0	11,736.0	13,437.0	11,635.0	31.4	39.1	71.85	-2,779.0	-1,191.2	446.2	380.0	66.22	6.739	
13,800.0	11,736.0	13,537.0	11,635.0	31.7	39.4	71.85	-2,879.0	-1,190.5	446.2	379.2	67.03	6.656	
13,900.0	11,736.0	13,637.0	11,635.0	32.1	39.7	71.85	-2,979.0	-1,189.9	446.2	378.3	67.88	6.574	
14,000.0	11,736.0	13,737.0	11,635.0	32.5	40.0	71.85	-3,079.0	-1,189.2	446.2	377.5	68.74	6.491	
14,100.0	11,736.0	13,837.0	11,635.0	33.0	40.4	71.85	-3,178.9	-1,188.6	446.2	376.6	69.63	6.409	
14,200.0	11,736.0	13,937.0	11,635.0	33.4	40.7	71.85	-3,278.9	-1,187.9	446.2	375.7	70.53	6.326	
14,300.0	11,736.0	14,037.0	11,635.0	33.9	41.1	71.85	-3,378.9	-1,187.3	446.2	374.7	71.46	6.244	
14,400.0	11,736.0	14,137.0	11,635.0	34.4	41.5	71.85	-3,478.9	-1,186.6	446.2	373.8	72.41	6.162	
14,500.0	11,736.0	14,237.0	11,635.0	34.9	41.9	71.85	-3,578.9	-1,186.0	446.2	372.8	73.38	6.081	
14,600.0	11,736.0	14,337.0	11,635.0	35.4	42.3	71.85	-3,678.9	-1,185.3	446.2	371.8	74.36	6.000	
14,700.0	11,736.0	14,437.0	11,635.0	35.9	42.7	71.85	-3,778.9	-1,184.7	446.2	370.8	75.37	5.921	
14,800.0	11,736.0	14,537.0	11,635.0	36.4	43.1	71.85	-3,878.9	-1,184.0	446.2	369.8	76.39	5.841	
14,900.0	11,736.0	14,637.0	11,635.0	37.0	43.5	71.85	-3,978.9	-1,183.4	446.2	368.8	77.42	5.763	
15,000.0	11,736.0	14,737.0	11,635.0	37.5	44.0	71.85	-4,078.9	-1,182.7	446.2	367.7	78.47	5.686	
15,100.0	11,736.0	14,837.0	11,635.0	38.1	44.4	71.85	-4,178.9	-1,182.1	446.2	366.7	79.54	5.610	
15,200.0	11,736.0	14,937.0	11,635.0	38.7	44.9	71.85	-4,278.9	-1,181.4	446.2	365.6	80.62	5.535	
15,300.0	11,736.0	15,037.0	11,635.0	39.2	45.4	71.85	-4,378.9	-1,180.8	446.2	364.5	81.71	5.461	
15,400.0	11,736.0	15,137.0	11,635.0	39.8	45.8	71.85	-4,478.9	-1,180.1	446.2	363.4	82.82	5.388	
15,500.0	11,736.0	15,237.0	11,635.0	40.4	46.3	71.85	-4,578.9	-1,179.5	446.2	362.3	83.94	5.316	
15,600.0	11,736.0	15,337.0	11,635.0	41.0	46.8	71.85	-4,678.9	-1,178.8	446.2	361.1	85.07	5.245	
15,700.0	11,736.0	15,437.0	11,635.0	41.7	47.3	71.85	-4,778.9	-1,178.1	446.2	360.0	86.21	5.176	
15,800.0	11,736.0	15,537.0	11,635.0	42.3	47.8	71.85	-4,878.9	-1,177.5	446.2	358.8	87.37	5.107	
15,900.0	11,736.0	15,637.0	11,635.0	42.9	48.4	71.85	-4,978.9	-1,176.8	446.2	357.7	88.53	5.040	
16,000.0	11,736.0	15,737.0	11,635.0	43.5	48.9	71.85	-5,078.9	-1,176.2	446.2	356.5	89.71	4.974	
16,100.0	11,736.0	15,837.0	11,635.0	44.2	49.4	71.85	-5,178.9	-1,175.5	446.2	355.3	90.89	4.909	
16,200.0	11,736.0	15,937.0	11,635.0	44.8	50.0	71.85	-5,278.9	-1,174.9	446.2	354.1	92.09	4.845	
16,300.0	11,736.0	16,037.0	11,635.0	45.4	50.5	71.85	-5,378.9	-1,174.2	446.2	352.9	93.29	4.783	
16,400.0	11,736.0	16,137.0	11,635.0	46.1	51.1	71.85	-5,478.9	-1,173.6	446.2	351.7	94.51	4.721	
16,500.0	11,736.0	16,237.0	11,635.0	46.7	51.6	71.85	-5,578.9	-1,172.9	446.2	350.5	95.73	4.661	
16,600.0	11,736.0	16,337.0	11,635.0	47.4	52.2	71.85	-5,678.9	-1,172.3	446.2	349.2	96.96	4.602	
16,700.0	11,736.0	16,437.0	11,635.0	48.1	52.8	71.85	-5,778.9	-1,171.6	446.2	348.0	98.20	4.544	
16,800.0	11,736.0	16,537.0	11,635.0	48.7	53.4	71.85	-5,878.9	-1,171.0	446.2	346.8	99.44	4.487	
16,900.0	11,736.0	16,637.0	11,635.0	49.4	53.9	71.85	-5,978.9	-1,170.3	446.2	345.5	100.69	4.431	
17,000.0	11,736.0	16,737.0	11,635.0	50.1	54.5	71.85	-6,078.9	-1,169.7	446.2	344.3	101.95	4.377	
17,100.0	11,736.0	16,837.0	11,635.0	50.7	55.1	71.85	-6,178.9	-1,169.0	446.2	343.0	103.22	4.323	
17,200.0	11,736.0	16,937.0	11,635.0	51.4	55.7	71.85	-6,278.9	-1,168.4	446.2	341.7	104.49	4.270	
17,300.0	11,736.0	17,037.0	11,635.0	52.1	56.3	71.85	-6,378.9	-1,167.7	446.2	340.4	105.77	4.219	
17,400.0	11,736.0	17,137.0	11,635.0	52.8	56.9	71.85	-6,478.9	-1,167.1	446.2	339.2	107.05	4.168	
17,500.0	11,736.0	17,237.0	11,635.0	53.4	57.5	71.85	-6,578.9	-1,166.4	446.2	337.9	108.34	4.118	
17,600.0	11,736.0	17,337.0	11,635.0	54.1	58.1	71.85	-6,678.9	-1,165.8	446.2	336.6	109.64	4.070	
17,700.0	11,736.0	17,437.0	11,635.0	54.8	58.7	71.85	-6,778.9	-1,165.1	446.2	335.3	110.94	4.022	
17,800.0	11,736.0	17,537.0	11,635.0	55.5	59.4	71.85	-6,878.9	-1,164.5	446.2	334.0	112.25	3.975	
17,900.0	11,736.0	17,637.0	11,635.0	56.2	60.0	71.85	-6,978.9	-1,163.8	446.2	332.6	113.56	3.929	
18,000.0	11,736.0	17,737.0	11,635.0	56.9	60.6	71.85	-7,078.9	-1,163.2	446.2	331.3	114.88	3.884	
18,100.0	11,736.0	17,837.0	11,635.0	57.6	61.2	71.85	-7,178.9	-1,162.5	446.2	330.0	116.20	3.840	
18,200.0	11,736.0	17,937.0	11,635.0	58.3	61.9	71.85	-7,278.9	-1,161.9	446.2	328.7	117.53	3.797	
18,300.0	11,736.0	18,037.0	11,635.0	59.0	62.5	71.85	-7,378.9	-1,161.2	446.2	327.4	118.86	3.754	
18,400.0	11,736.0	18,137.0	11,635.0	59.7	63.1	71.85	-7,478.9	-1,160.6	446.2	326.0	120.19	3.712	
18,500.0	11,736.0	18,237.0	11,635.0	60.4	63.8	71.85	-7,578.9	-1,159.9	446.2	324.7	121.53	3.672	
18,600.0	11,736.0	18,337.0	11,635.0	61.1	64.4	71.85	-7,678.9	-1,159.3	446.2	323.3	122.87	3.631	
18,700.0	11,736.0	18,437.0	11,635.0	61.8	65.1	71.85	-7,778.9	-1,158.6	446.2	322.0	124.22	3.592	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 1932 PROJECT - *ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11391-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	
18,800.0	11,736.0	18,537.0	11,635.0	62.5	65.7	71.85	-7,878.8	-1,158.0	446.2	320.6	125.57	3.553	
18,900.0	11,736.0	18,637.0	11,635.0	63.2	66.4	71.85	-7,978.8	-1,157.3	446.2	319.3	126.92	3.516	
19,000.0	11,736.0	18,737.0	11,635.0	63.9	67.0	71.85	-8,078.8	-1,156.7	446.2	317.9	128.28	3.478	
19,100.0	11,736.0	18,837.0	11,635.0	64.6	67.7	71.85	-8,178.8	-1,156.0	446.2	316.6	129.64	3.442	
19,200.0	11,736.0	18,937.0	11,635.0	65.4	68.4	71.85	-8,278.8	-1,155.4	446.2	315.2	131.01	3.406	
19,300.0	11,736.0	19,037.0	11,635.0	66.1	69.0	71.85	-8,378.8	-1,154.7	446.2	313.8	132.37	3.371	
19,400.0	11,736.0	19,137.0	11,635.0	66.8	69.7	71.85	-8,478.8	-1,154.1	446.2	312.5	133.74	3.336	
19,500.0	11,736.0	19,237.0	11,635.0	67.5	70.3	71.85	-8,578.8	-1,153.4	446.2	311.1	135.12	3.302	
19,600.0	11,736.0	19,337.0	11,635.0	68.2	71.0	71.85	-8,678.8	-1,152.8	446.2	309.7	136.49	3.269	
19,700.0	11,736.0	19,437.0	11,635.0	68.9	71.7	71.85	-8,778.8	-1,152.1	446.2	308.3	137.87	3.236	
19,800.0	11,736.0	19,537.0	11,635.0	69.7	72.3	71.85	-8,878.8	-1,151.5	446.2	307.0	139.25	3.204	
19,900.0	11,736.0	19,637.0	11,635.0	70.4	73.0	71.85	-8,978.8	-1,150.8	446.2	305.6	140.64	3.173	
20,000.0	11,736.0	19,737.0	11,635.0	71.1	73.7	71.85	-9,078.8	-1,150.2	446.2	304.2	142.02	3.142	
20,100.0	11,736.0	19,837.0	11,635.0	71.8	74.4	71.85	-9,178.8	-1,149.5	446.2	302.8	143.41	3.111	
20,200.0	11,736.0	19,937.0	11,635.0	72.5	75.1	71.85	-9,278.8	-1,148.9	446.2	301.4	144.80	3.081	
20,300.0	11,736.0	20,037.0	11,635.0	73.3	75.7	71.85	-9,378.8	-1,148.2	446.2	300.0	146.20	3.052	
20,400.0	11,736.0	20,137.0	11,635.0	74.0	76.4	71.85	-9,478.8	-1,147.6	446.2	298.6	147.59	3.023	
20,500.0	11,736.0	20,237.0	11,635.0	74.7	77.1	71.85	-9,578.8	-1,146.9	446.2	297.2	148.99	2.995	
20,600.0	11,736.0	20,337.0	11,635.0	75.5	77.8	71.85	-9,678.8	-1,146.3	446.2	295.8	150.39	2.967	
20,700.0	11,736.0	20,437.0	11,635.0	76.2	78.5	71.85	-9,778.8	-1,145.6	446.2	294.4	151.80	2.940	
20,800.0	11,736.0	20,537.0	11,635.0	76.9	79.2	71.85	-9,878.8	-1,145.0	446.2	293.0	153.20	2.913	
20,900.0	11,736.0	20,637.0	11,635.0	77.6	79.8	71.85	-9,978.8	-1,144.3	446.2	291.6	154.61	2.886	
20,975.9	11,736.0	20,713.0	11,635.0	78.2	80.4	71.85	-10,054.7	-1,143.8	446.2	290.5	155.68	2.866	
21,000.0	11,736.0	20,737.0	11,635.0	78.4	80.5	71.85	-10,078.8	-1,143.6	446.2	290.2	156.01	2.860	
21,026.0	11,736.0	20,763.0	11,635.0	78.5	80.7	71.85	-10,104.8	-1,143.5	446.2	289.8	156.38	2.853 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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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	33.42	167.4	110.5	200.6	193.6	6.98	28.732	
100.0	100.0	100.0	100.0	3.1	3.1	33.42	167.4	110.5	200.6	193.3	7.23	27.752	
200.0	200.0	200.0	200.0	3.2	3.2	33.42	167.4	110.5	200.6	193.1	7.47	26.852	
300.0	300.0	300.0	300.0	3.4	3.4	33.42	167.4	110.5	200.6	192.9	7.71	26.022	
400.0	400.0	400.0	400.0	3.5	3.5	33.42	167.4	110.5	200.6	192.6	7.94	25.251	
500.0	500.0	500.0	500.0	3.6	3.6	33.42	167.4	110.5	200.6	192.4	8.18	24.534	
600.0	600.0	600.0	600.0	3.7	3.7	33.42	167.4	110.5	200.6	192.2	8.40	23.865	
700.0	700.0	700.0	700.0	3.9	3.9	33.42	167.4	110.5	200.6	191.9	8.63	23.237	
800.0	800.0	800.0	800.0	4.0	4.0	33.42	167.4	110.5	200.6	191.7	8.86	22.648	
900.0	900.0	900.0	900.0	4.1	4.1	33.42	167.4	110.5	200.6	191.5	9.08	22.092	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	33.42	167.4	110.5	200.6	191.3	9.30	21.568	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	33.42	167.4	110.5	200.6	191.1	9.52	21.072	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	33.42	167.4	110.5	200.6	190.8	9.74	20.601	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	33.42	167.4	110.5	200.6	190.6	9.95	20.154	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	33.42	167.4	110.5	200.6	190.4	10.17	19.729	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	33.42	167.4	110.5	200.6	190.2	10.38	19.324 CC, ES	
1,600.0	1,600.0	1,604.3	1,604.3	5.0	4.9	166.10	167.3	108.6	201.2	190.8	10.37	19.403	
1,700.0	1,699.8	1,708.5	1,708.4	5.2	5.1	165.16	167.0	102.9	203.1	192.3	10.82	18.769	
1,800.0	1,799.5	1,812.6	1,811.9	5.5	5.3	163.64	166.5	93.4	206.3	195.1	11.28	18.290	
1,900.0	1,898.7	1,916.3	1,914.8	5.7	5.6	161.60	165.8	80.3	211.1	199.4	11.75	17.964	
2,000.0	1,997.5	2,019.6	2,016.8	6.0	6.0	159.13	165.0	63.5	217.6	205.4	12.23	17.796 SF	
2,100.0	2,095.6	2,121.7	2,116.9	6.4	6.3	156.35	163.9	43.4	226.0	213.3	12.70	17.797	
2,200.0	2,193.1	2,220.6	2,213.6	6.7	6.6	153.94	162.8	22.9	237.6	224.4	13.17	18.034	
2,300.0	2,290.1	2,319.4	2,310.2	7.0	6.9	152.03	161.8	2.4	251.0	237.4	13.60	18.457	
2,400.0	2,387.1	2,418.1	2,406.8	7.4	7.2	150.31	160.7	-18.1	264.7	250.7	14.04	18.856	
2,500.0	2,484.1	2,516.9	2,503.4	7.7	7.6	148.76	159.6	-38.6	278.6	264.1	14.49	19.230	
2,600.0	2,581.2	2,615.6	2,600.0	8.1	7.9	147.36	158.5	-59.1	292.7	277.7	14.95	19.582	
2,700.0	2,678.2	2,714.4	2,696.6	8.4	8.3	146.09	157.5	-79.6	306.9	291.5	15.41	19.912	
2,800.0	2,775.2	2,813.2	2,793.2	8.8	8.7	144.93	156.4	-100.1	321.3	305.4	15.89	20.222	
2,900.0	2,872.3	2,911.9	2,889.8	9.2	9.1	143.87	155.3	-120.6	335.7	319.4	16.37	20.513	
3,000.0	2,969.3	3,010.7	2,986.4	9.6	9.4	142.90	154.2	-141.1	350.3	333.5	16.85	20.787	
3,100.0	3,066.3	3,109.5	3,083.0	10.0	9.8	142.00	153.2	-161.6	365.0	347.7	17.34	21.045	
3,200.0	3,163.4	3,208.2	3,179.6	10.4	10.2	141.18	152.1	-182.2	379.8	361.9	17.84	21.287	
3,300.0	3,260.4	3,307.0	3,276.2	10.9	10.7	140.41	151.0	-202.7	394.6	376.3	18.34	21.516	
3,400.0	3,357.4	3,405.7	3,372.8	11.3	11.1	139.71	149.9	-223.2	409.5	390.6	18.84	21.732	
3,500.0	3,454.4	3,504.5	3,469.4	11.7	11.5	139.05	148.9	-243.7	424.4	405.1	19.35	21.935	
3,600.0	3,551.5	3,603.3	3,566.0	12.2	11.9	138.43	147.8	-264.2	439.4	419.6	19.86	22.127	
3,700.0	3,648.5	3,702.0	3,662.6	12.6	12.3	137.86	146.7	-284.7	454.5	434.1	20.37	22.308	
3,800.0	3,745.5	3,800.8	3,759.3	13.0	12.8	137.32	145.6	-305.2	469.6	448.7	20.89	22.480	
3,900.0	3,842.6	3,899.6	3,855.9	13.5	13.2	136.82	144.6	-325.7	484.7	463.3	21.41	22.642	
4,000.0	3,939.6	3,998.3	3,952.5	13.9	13.6	136.35	143.5	-346.2	499.9	477.9	21.93	22.796	
4,100.0	4,036.6	4,097.1	4,049.1	14.4	14.1	135.90	142.4	-366.7	515.1	492.6	22.45	22.942	
4,200.0	4,133.6	4,195.8	4,145.7	14.9	14.5	135.48	141.3	-387.2	530.3	507.3	22.97	23.081	
4,300.0	4,230.7	4,294.6	4,242.3	15.3	14.9	135.09	140.3	-407.7	545.5	522.0	23.50	23.212	
4,400.0	4,327.7	4,393.4	4,338.9	15.8	15.4	134.71	139.2	-428.2	560.8	536.8	24.03	23.337	
4,500.0	4,424.7	4,492.1	4,435.5	16.2	15.8	134.36	138.1	-448.7	576.1	551.5	24.56	23.456	
4,600.0	4,521.8	4,590.9	4,532.1	16.7	16.3	134.02	137.0	-469.2	591.4	566.3	25.09	23.569	
4,700.0	4,618.8	4,689.7	4,628.7	17.2	16.7	133.70	136.0	-489.7	606.7	581.1	25.63	23.677	
4,800.0	4,715.8	4,788.4	4,725.3	17.6	17.2	133.40	134.9	-510.2	622.1	595.9	26.16	23.780	
4,900.0	4,812.9	4,887.2	4,821.9	18.1	17.6	133.11	133.8	-530.7	637.5	610.8	26.70	23.878	
5,000.0	4,909.9	4,985.9	4,918.5	18.6	18.1	132.83	132.7	-551.3	652.8	625.6	27.23	23.972	
5,100.0	5,006.9	5,084.7	5,015.1	19.0	18.5	132.57	131.7	-571.8	668.2	640.5	27.77	24.062	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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
5,200.0	5,103.9	5,183.5	5,111.7	19.5	19.0	132.32	130.6	-592.3	683.6	655.3	28.31	24.147	
5,300.0	5,201.0	5,282.2	5,208.3	20.0	19.4	132.08	129.5	-612.8	699.1	670.2	28.85	24.229	
5,400.0	5,298.0	5,380.9	5,304.9	20.5	19.9	131.85	128.4	-633.3	714.5	685.1	29.38	24.322	
5,500.0	5,395.0	5,479.2	5,401.1	20.9	20.3	131.71	127.4	-652.7	730.0	700.1	29.92	24.399	
5,556.1	5,449.5	5,534.3	5,455.3	21.2	20.6	131.70	126.9	-662.8	738.7	708.5	30.22	24.445	
5,600.0	5,492.1	5,577.4	5,497.8	21.4	20.8	131.75	126.5	-670.4	745.4	715.0	30.45	24.478	
5,700.0	5,589.5	5,675.8	5,594.8	21.9	21.2	131.90	125.7	-686.5	760.0	729.0	31.01	24.510	
5,800.0	5,687.3	5,774.2	5,692.2	22.3	21.6	132.06	124.9	-701.0	773.5	741.9	31.55	24.517	
5,900.0	5,785.4	5,872.8	5,790.0	22.8	22.0	132.25	124.2	-713.8	785.9	753.8	32.08	24.500	
6,000.0	5,883.9	5,971.5	5,888.0	23.2	22.4	132.45	123.6	-724.9	797.2	764.6	32.59	24.460	
6,100.0	5,982.7	6,070.3	5,986.3	23.7	22.8	132.67	123.1	-734.4	807.4	774.4	33.09	24.399	
6,200.0	6,081.7	6,169.1	6,084.8	24.1	23.2	132.91	122.7	-742.1	816.6	783.0	33.58	24.317	
6,300.0	6,180.9	6,267.9	6,183.4	24.5	23.5	133.16	122.4	-748.2	824.7	790.6	34.06	24.215	
6,400.0	6,280.3	6,366.8	6,282.2	24.9	23.9	133.44	122.2	-752.6	831.7	797.2	34.52	24.094	
6,500.0	6,380.0	6,465.6	6,381.0	25.3	24.1	133.73	122.1	-755.2	837.6	802.6	34.96	23.956	
6,600.0	6,479.7	6,564.4	6,479.8	25.7	24.3	134.05	122.0	-756.2	842.4	807.1	35.38	23.812	
6,700.0	6,579.6	6,664.2	6,579.6	26.0	24.4	134.33	122.0	-756.2	846.2	810.4	35.76	23.660	
6,800.0	6,679.5	6,764.1	6,679.5	26.3	24.4	134.53	122.0	-756.2	848.7	812.6	36.11	23.500	
6,900.0	6,779.5	6,864.1	6,779.5	26.6	24.4	134.62	122.0	-756.2	850.0	813.6	36.41	23.347	
6,956.1	6,835.6	6,920.2	6,835.6	26.6	24.4	1.64	122.0	-756.2	850.2	813.7	36.49	23.299	
7,000.0	6,879.5	6,964.1	6,879.5	26.6	24.4	1.64	122.0	-756.2	850.2	813.7	36.51	23.285	
7,100.0	6,979.5	7,064.1	6,979.5	26.7	24.5	1.64	122.0	-756.2	850.2	813.6	36.59	23.237	
7,200.0	7,079.5	7,164.1	7,079.5	26.7	24.5	1.64	122.0	-756.2	850.2	813.5	36.66	23.188	
7,300.0	7,179.5	7,264.1	7,179.5	26.7	24.5	1.64	122.0	-756.2	850.2	813.4	36.74	23.140	
7,400.0	7,279.5	7,364.1	7,279.5	26.7	24.6	1.64	122.0	-756.2	850.2	813.4	36.82	23.091	
7,500.0	7,379.5	7,464.1	7,379.5	26.7	24.6	1.64	122.0	-756.2	850.2	813.3	36.90	23.042	
7,600.0	7,479.5	7,564.1	7,479.5	26.8	24.6	1.64	122.0	-756.2	850.2	813.2	36.98	22.993	
7,700.0	7,579.5	7,664.1	7,579.5	26.8	24.7	1.64	122.0	-756.2	850.2	813.1	37.06	22.943	
7,800.0	7,679.5	7,764.1	7,679.5	26.8	24.7	1.64	122.0	-756.2	850.2	813.0	37.14	22.894	
7,900.0	7,779.5	7,864.1	7,779.5	26.8	24.7	1.64	122.0	-756.2	850.2	813.0	37.22	22.845	
8,000.0	7,879.5	7,964.1	7,879.5	26.8	24.8	1.64	122.0	-756.2	850.2	812.9	37.30	22.795	
8,100.0	7,979.5	8,064.1	7,979.5	26.9	24.8	1.64	122.0	-756.2	850.2	812.8	37.38	22.745	
8,200.0	8,079.5	8,164.1	8,079.5	26.9	24.8	1.64	122.0	-756.2	850.2	812.7	37.46	22.695	
8,300.0	8,179.5	8,264.1	8,179.5	26.9	24.9	1.64	122.0	-756.2	850.2	812.6	37.54	22.646	
8,400.0	8,279.5	8,364.1	8,279.5	26.9	24.9	1.64	122.0	-756.2	850.2	812.6	37.63	22.596	
8,500.0	8,379.5	8,464.1	8,379.5	27.0	24.9	1.64	122.0	-756.2	850.2	812.5	37.71	22.546	
8,600.0	8,479.5	8,564.1	8,479.5	27.0	25.0	1.64	122.0	-756.2	850.2	812.4	37.79	22.495	
8,700.0	8,579.5	8,664.1	8,579.5	27.0	25.0	1.64	122.0	-756.2	850.2	812.3	37.88	22.445	
8,800.0	8,679.5	8,764.1	8,679.5	27.0	25.0	1.64	122.0	-756.2	850.2	812.2	37.96	22.395	
8,900.0	8,779.5	8,864.1	8,779.5	27.0	25.1	1.64	122.0	-756.2	850.2	812.1	38.05	22.344	
9,000.0	8,879.5	8,964.1	8,879.5	27.1	25.1	1.64	122.0	-756.2	850.2	812.0	38.14	22.294	
9,100.0	8,979.5	9,064.1	8,979.5	27.1	25.1	1.64	122.0	-756.2	850.2	812.0	38.22	22.243	
9,200.0	9,079.5	9,164.1	9,079.5	27.1	25.2	1.64	122.0	-756.2	850.2	811.9	38.31	22.193	
9,300.0	9,179.5	9,264.1	9,179.5	27.1	25.2	1.64	122.0	-756.2	850.2	811.8	38.40	22.142	
9,400.0	9,279.5	9,364.1	9,279.5	27.2	25.2	1.64	122.0	-756.2	850.2	811.7	38.48	22.092	
9,500.0	9,379.5	9,464.1	9,379.5	27.2	25.3	1.64	122.0	-756.2	850.2	811.6	38.57	22.041	
9,600.0	9,479.5	9,564.1	9,479.5	27.2	25.3	1.64	122.0	-756.2	850.2	811.5	38.66	21.990	
9,700.0	9,579.5	9,664.1	9,579.5	27.2	25.3	1.64	122.0	-756.2	850.2	811.4	38.75	21.939	
9,800.0	9,679.5	9,764.1	9,679.5	27.3	25.4	1.64	122.0	-756.2	850.2	811.3	38.84	21.889	
9,900.0	9,779.5	9,864.1	9,779.5	27.3	25.4	1.64	122.0	-756.2	850.2	811.3	38.93	21.838	
10,000.0	9,879.5	9,964.1	9,879.5	27.3	25.5	1.64	122.0	-756.2	850.2	811.2	39.02	21.787	
10,100.0	9,979.5	10,064.1	9,979.5	27.3	25.5	1.64	122.0	-756.2	850.2	811.1	39.11	21.736	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,200.0	10,079.5	10,164.1	10,079.5	27.4	25.5	1.64	122.0	-756.2	850.2	811.0	39.21	21.685		
10,300.0	10,179.5	10,264.1	10,179.5	27.4	25.6	1.64	122.0	-756.2	850.2	810.9	39.30	21.634		
10,400.0	10,279.5	10,364.1	10,279.5	27.4	25.6	1.64	122.0	-756.2	850.2	810.8	39.39	21.583		
10,500.0	10,379.5	10,464.1	10,379.5	27.4	25.6	1.64	122.0	-756.2	850.2	810.7	39.48	21.532		
10,600.0	10,479.5	10,564.1	10,479.5	27.5	25.7	1.64	122.0	-756.2	850.2	810.6	39.58	21.481		
10,700.0	10,579.5	10,664.1	10,579.5	27.5	25.7	1.64	122.0	-756.2	850.2	810.5	39.67	21.431		
10,800.0	10,679.5	10,764.1	10,679.5	27.5	25.8	1.64	122.0	-756.2	850.2	810.4	39.77	21.380		
10,900.0	10,779.5	10,864.1	10,779.5	27.6	25.8	1.64	122.0	-756.2	850.2	810.3	39.86	21.329		
11,000.0	10,879.5	10,964.1	10,879.5	27.6	25.8	1.64	122.0	-756.2	850.2	810.2	39.96	21.278		
11,100.0	10,979.5	11,064.1	10,979.5	27.6	25.9	1.64	122.0	-756.2	850.2	810.1	40.05	21.227		
11,200.0	11,079.5	11,164.1	11,079.5	27.6	25.9	1.64	122.0	-756.2	850.2	810.0	40.15	21.176		
11,300.0	11,179.5	11,264.1	11,179.5	27.7	25.9	1.64	122.0	-756.2	850.2	809.9	40.24	21.125		
11,379.1	11,258.5	11,343.1	11,258.5	27.7	26.0	1.64	122.0	-756.2	850.2	809.9	40.30	21.096		
11,400.0	11,279.5	11,350.0	11,265.4	27.7	26.0	-177.99	122.0	-756.2	850.8	810.8	40.02	21.258		
11,425.0	11,304.4	11,360.3	11,275.6	27.7	26.0	-177.98	122.3	-756.2	853.1	813.2	39.97	21.345		
11,450.0	11,329.2	11,375.0	11,290.4	27.7	26.0	-177.97	123.0	-756.2	857.3	817.4	39.94	21.463		
11,475.0	11,353.8	11,375.0	11,290.4	27.7	26.0	-177.94	123.0	-756.2	863.1	823.2	39.87	21.649		
11,500.0	11,378.2	11,386.2	11,301.6	27.7	26.0	-177.92	123.9	-756.2	870.6	830.8	39.85	21.850		
11,525.0	11,402.2	11,400.0	11,315.3	27.7	26.0	-177.89	125.3	-756.2	879.9	840.0	39.84	22.086		
11,550.0	11,425.8	11,400.0	11,315.3	27.7	26.0	-177.83	125.3	-756.2	890.6	850.8	39.81	22.373		
11,575.0	11,449.0	11,409.9	11,325.1	27.7	26.0	-177.78	126.5	-756.2	902.9	863.1	39.81	22.680		
11,600.0	11,471.7	11,425.0	11,340.0	27.7	26.0	-177.73	128.8	-756.3	916.7	876.9	39.83	23.017		
11,625.0	11,493.7	11,425.0	11,340.0	27.7	26.0	-177.64	128.8	-756.3	931.7	891.9	39.83	23.392		
11,650.0	11,515.2	11,425.0	11,340.0	27.7	26.0	-177.53	128.8	-756.3	948.1	908.3	39.85	23.793		
11,675.0	11,535.9	11,436.2	11,351.0	27.8	26.0	-177.43	130.8	-756.3	965.7	925.8	39.88	24.215		
11,700.0	11,555.8	11,450.0	11,364.5	27.8	26.0	-177.32	133.7	-756.3	984.4	944.5	39.91	24.666		

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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	41.98	150.7	135.6	202.7	195.7	6.98	29.036	
100.0	100.0	100.0	100.0	3.1	3.1	41.98	150.7	135.6	202.7	195.5	7.23	28.048	
200.0	200.0	200.0	200.0	3.2	3.2	41.98	150.7	135.6	202.7	195.2	7.47	27.145	
300.0	300.0	300.0	300.0	3.4	3.4	41.98	150.7	135.6	202.7	195.0	7.70	26.313	
400.0	400.0	400.0	400.0	3.5	3.5	41.98	150.7	135.6	202.7	194.8	7.94	25.545	
500.0	500.0	500.0	500.0	3.6	3.6	41.98	150.7	135.6	202.7	194.5	8.16	24.831	
600.0	600.0	600.0	600.0	3.7	3.7	41.98	150.7	135.6	202.7	194.3	8.39	24.167	
700.0	700.0	700.0	700.0	3.9	3.9	41.98	150.7	135.6	202.7	194.1	8.61	23.545	
800.0	800.0	800.0	800.0	4.0	4.0	41.98	150.7	135.6	202.7	193.9	8.83	22.962	
900.0	900.0	900.0	900.0	4.1	4.1	41.98	150.7	135.6	202.7	193.7	9.04	22.414	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	41.98	150.7	135.6	202.7	193.4	9.26	21.897	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	41.98	150.7	135.6	202.7	193.2	9.47	21.408	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	41.98	150.7	135.6	202.7	193.0	9.68	20.945	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	41.98	150.7	135.6	202.7	192.8	9.89	20.505	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	41.98	150.7	135.6	202.7	192.6	10.09	20.088	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	41.98	150.7	135.6	202.7	192.4	10.29	19.690 CC, ES	
1,600.0	1,600.0	1,605.7	1,605.7	5.0	4.9	174.67	150.4	133.6	203.0	192.7	10.31	19.685	
1,700.0	1,699.8	1,711.3	1,711.2	5.2	5.1	173.75	149.6	127.9	204.0	193.2	10.80	18.887	
1,800.0	1,799.5	1,816.8	1,816.2	5.5	5.3	172.24	148.3	118.2	205.8	194.5	11.31	18.204	
1,900.0	1,898.7	1,922.0	1,920.5	5.7	5.7	170.18	146.4	104.8	208.6	196.8	11.83	17.635	
2,000.0	1,997.5	2,025.6	2,022.7	6.0	6.0	167.69	144.0	88.1	212.6	200.2	12.35	17.208	
2,100.0	2,095.6	2,125.0	2,120.5	6.4	6.3	165.39	141.6	71.0	219.6	206.7	12.87	17.064 SF	
2,200.0	2,193.1	2,224.1	2,218.2	6.7	6.5	163.46	139.2	53.9	230.3	216.9	13.40	17.181	
2,300.0	2,290.1	2,323.1	2,315.7	7.0	6.8	161.89	136.8	36.9	242.9	229.0	13.89	17.487	
2,400.0	2,387.1	2,422.1	2,413.2	7.4	7.2	160.47	134.4	19.9	255.6	241.2	14.39	17.766	
2,500.0	2,484.1	2,521.1	2,510.7	7.7	7.5	159.18	132.0	2.9	268.4	253.5	14.90	18.017	
2,600.0	2,581.2	2,620.1	2,608.2	8.1	7.8	158.01	129.6	-14.2	281.4	266.0	15.42	18.246	
2,700.0	2,678.2	2,719.1	2,705.6	8.4	8.2	156.95	127.3	-31.2	294.5	278.6	15.96	18.454	
2,800.0	2,775.2	2,818.1	2,803.1	8.8	8.6	155.97	124.9	-48.2	307.7	291.2	16.50	18.645	
2,900.0	2,872.3	2,917.1	2,900.6	9.2	8.9	155.08	122.5	-65.2	321.0	303.9	17.05	18.821	
3,000.0	2,969.3	3,016.1	2,998.1	9.6	9.3	154.25	120.1	-82.3	334.3	316.7	17.61	18.983	
3,100.0	3,066.3	3,115.1	3,095.6	10.0	9.7	153.49	117.7	-99.3	347.7	329.5	18.17	19.132	
3,200.0	3,163.4	3,214.1	3,193.1	10.4	10.1	152.79	115.3	-116.3	361.2	342.4	18.74	19.271	
3,300.0	3,260.4	3,313.1	3,290.6	10.9	10.5	152.14	112.9	-133.3	374.7	355.4	19.31	19.400	
3,400.0	3,357.4	3,412.1	3,388.1	11.3	10.9	151.53	110.5	-150.3	388.2	368.3	19.89	19.520	
3,500.0	3,454.4	3,511.1	3,485.6	11.7	11.3	150.96	108.1	-167.4	401.8	381.3	20.47	19.633	
3,600.0	3,551.5	3,610.1	3,583.1	12.2	11.7	150.43	105.7	-184.4	415.4	394.4	21.05	19.738	
3,700.0	3,648.5	3,709.1	3,680.6	12.6	12.1	149.94	103.3	-201.4	429.1	407.5	21.63	19.837	
3,800.0	3,745.5	3,808.1	3,778.1	13.0	12.5	149.47	100.9	-218.4	442.8	420.6	22.22	19.929	
3,900.0	3,842.6	3,907.1	3,875.6	13.5	12.9	149.03	98.5	-235.5	456.5	433.7	22.81	20.017	
4,000.0	3,939.6	4,006.1	3,973.0	13.9	13.4	148.62	96.2	-252.5	470.2	446.8	23.39	20.101	
4,100.0	4,036.6	4,103.2	4,068.7	14.4	13.7	148.27	93.8	-268.9	484.1	460.2	23.95	20.215	
4,200.0	4,133.6	4,200.0	4,164.4	14.9	14.1	148.10	91.7	-283.9	498.6	474.0	24.55	20.307	
4,300.0	4,230.7	4,294.3	4,257.7	15.3	14.5	148.10	89.9	-296.9	513.8	488.6	25.17	20.413	
4,400.0	4,327.7	4,389.5	4,352.2	15.8	14.9	148.26	88.3	-308.4	529.6	503.8	25.81	20.521	
4,500.0	4,424.7	4,484.5	4,446.7	16.2	15.3	148.57	86.9	-318.4	546.1	519.6	26.46	20.634	
4,600.0	4,521.8	4,579.1	4,540.9	16.7	15.6	149.00	85.7	-326.9	563.3	536.1	27.14	20.753	
4,700.0	4,618.8	4,673.4	4,634.9	17.2	16.0	149.55	84.7	-333.7	581.2	553.3	27.83	20.879	
4,800.0	4,715.8	4,767.2	4,728.6	17.6	16.3	150.20	84.0	-339.0	599.8	571.3	28.54	21.015	
4,900.0	4,812.9	4,860.6	4,821.9	18.1	16.6	150.94	83.5	-342.8	619.3	590.0	29.26	21.161	
5,000.0	4,909.9	4,953.4	4,914.7	18.6	16.9	151.75	83.1	-345.1	639.5	609.5	29.99	21.324	
5,100.0	5,006.9	5,045.7	5,007.0	19.0	17.0	152.63	83.0	-345.8	660.7	630.0	30.70	21.521	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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:		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	5,103.9	5,142.7	5,103.9	19.5	17.1	153.56	83.0	-345.8	682.4	651.0	31.40	21.729	
5,300.0	5,201.0	5,239.7	5,201.0	20.0	17.1	154.43	83.0	-345.8	704.3	672.1	32.12	21.925	
5,400.0	5,298.0	5,336.7	5,298.0	20.5	17.1	155.25	83.0	-345.8	726.3	693.4	32.83	22.120	
5,500.0	5,395.0	5,433.7	5,395.0	20.9	17.2	156.02	83.0	-345.8	748.4	714.9	33.54	22.314	
5,556.1	5,449.5	5,488.2	5,449.5	21.2	17.2	156.43	83.0	-345.8	760.9	727.0	33.92	22.429	
5,600.0	5,492.1	5,530.8	5,492.1	21.4	17.2	156.78	83.0	-345.8	770.5	736.3	34.22	22.517	
5,700.0	5,589.5	5,628.2	5,589.5	21.9	17.3	157.51	83.0	-345.8	791.4	756.5	34.90	22.674	
5,800.0	5,687.3	5,726.0	5,687.3	22.3	17.3	158.14	83.0	-345.8	810.9	775.3	35.57	22.796	
5,900.0	5,785.4	5,824.2	5,785.4	22.8	17.4	158.70	83.0	-345.8	828.7	792.5	36.22	22.883	
6,000.0	5,883.9	5,922.6	5,883.9	23.2	17.4	159.19	83.0	-345.8	845.1	808.2	36.84	22.936	
6,100.0	5,982.7	6,021.4	5,982.7	23.7	17.4	159.61	83.0	-345.8	859.8	822.4	37.45	22.957	
6,200.0	6,081.7	6,120.4	6,081.7	24.1	17.5	159.98	83.0	-345.8	873.0	835.0	38.04	22.948	
6,300.0	6,180.9	6,219.6	6,180.9	24.5	17.5	160.29	83.0	-345.8	884.6	846.0	38.61	22.911	
6,400.0	6,280.3	6,319.1	6,280.3	24.9	17.6	160.55	83.0	-345.8	894.5	855.4	39.16	22.846	
6,500.0	6,380.0	6,418.7	6,380.0	25.3	17.6	160.77	83.0	-345.8	902.9	863.2	39.68	22.756	
6,600.0	6,479.7	6,518.4	6,479.7	25.7	17.7	160.94	83.0	-345.8	909.6	869.4	40.17	22.644	
6,700.0	6,579.6	6,618.3	6,579.6	26.0	17.7	161.06	83.0	-345.8	914.6	874.0	40.63	22.512	
6,800.0	6,679.5	6,718.2	6,679.5	26.3	17.7	161.14	83.0	-345.8	918.0	877.0	41.05	22.365	
6,900.0	6,779.5	6,818.2	6,779.5	26.6	17.8	161.19	83.0	-345.8	919.8	878.4	41.40	22.214	
6,956.1	6,835.6	6,874.3	6,835.6	26.6	17.8	28.19	83.0	-345.8	920.0	878.5	41.50	22.167	
7,000.0	6,879.5	6,918.2	6,879.5	26.6	17.8	28.19	83.0	-345.8	920.0	878.5	41.52	22.157	
7,100.0	6,979.5	7,018.2	6,979.5	26.7	17.9	28.19	83.0	-345.8	920.0	878.4	41.59	22.121	
7,200.0	7,079.5	7,118.2	7,079.5	26.7	17.9	28.19	83.0	-345.8	920.0	878.4	41.66	22.085	
7,300.0	7,179.5	7,218.2	7,179.5	26.7	18.0	28.19	83.0	-345.8	920.0	878.3	41.73	22.049	
7,400.0	7,279.5	7,318.2	7,279.5	26.7	18.0	28.19	83.0	-345.8	920.0	878.2	41.80	22.013	
7,500.0	7,379.5	7,418.2	7,379.5	26.7	18.1	28.19	83.0	-345.8	920.0	878.2	41.86	21.976	
7,600.0	7,479.5	7,518.2	7,479.5	26.8	18.1	28.19	83.0	-345.8	920.0	878.1	41.93	21.940	
7,700.0	7,579.5	7,618.2	7,579.5	26.8	18.2	28.19	83.0	-345.8	920.0	878.0	42.00	21.903	
7,800.0	7,679.5	7,718.2	7,679.5	26.8	18.2	28.19	83.0	-345.8	920.0	878.0	42.08	21.866	
7,900.0	7,779.5	7,818.2	7,779.5	26.8	18.3	28.19	83.0	-345.8	920.0	877.9	42.15	21.829	
8,000.0	7,879.5	7,918.2	7,879.5	26.8	18.3	28.19	83.0	-345.8	920.0	877.8	42.22	21.792	
8,100.0	7,979.5	8,018.2	7,979.5	26.9	18.4	28.19	83.0	-345.8	920.0	877.7	42.29	21.755	
8,200.0	8,079.5	8,118.2	8,079.5	26.9	18.4	28.19	83.0	-345.8	920.0	877.7	42.36	21.717	
8,300.0	8,179.5	8,218.2	8,179.5	26.9	18.5	28.19	83.0	-345.8	920.0	877.6	42.44	21.680	
8,400.0	8,279.5	8,318.2	8,279.5	26.9	18.5	28.19	83.0	-345.8	920.0	877.5	42.51	21.642	
8,500.0	8,379.5	8,418.2	8,379.5	27.0	18.6	28.19	83.0	-345.8	920.0	877.4	42.59	21.604	
8,600.0	8,479.5	8,518.2	8,479.5	27.0	18.6	28.19	83.0	-345.8	920.0	877.4	42.66	21.566	
8,700.0	8,579.5	8,618.2	8,579.5	27.0	18.7	28.19	83.0	-345.8	920.0	877.3	42.74	21.528	
8,800.0	8,679.5	8,718.2	8,679.5	27.0	18.7	28.19	83.0	-345.8	920.0	877.2	42.81	21.490	
8,900.0	8,779.5	8,818.2	8,779.5	27.0	18.8	28.19	83.0	-345.8	920.0	877.1	42.89	21.452	
9,000.0	8,879.5	8,918.2	8,879.5	27.1	18.8	28.19	83.0	-345.8	920.0	877.1	42.96	21.414	
9,100.0	8,979.5	9,018.2	8,979.5	27.1	18.9	28.19	83.0	-345.8	920.0	877.0	43.04	21.375	
9,200.0	9,079.5	9,118.2	9,079.5	27.1	18.9	28.19	83.0	-345.8	920.0	876.9	43.12	21.337	
9,300.0	9,179.5	9,218.2	9,179.5	27.1	19.0	28.19	83.0	-345.8	920.0	876.8	43.20	21.298	
9,400.0	9,279.5	9,318.2	9,279.5	27.2	19.0	28.19	83.0	-345.8	920.0	876.8	43.28	21.259	
9,500.0	9,379.5	9,418.2	9,379.5	27.2	19.1	28.19	83.0	-345.8	920.0	876.7	43.36	21.221	
9,600.0	9,479.5	9,518.2	9,479.5	27.2	19.1	28.19	83.0	-345.8	920.0	876.6	43.43	21.182	
9,700.0	9,579.5	9,618.2	9,579.5	27.2	19.2	28.19	83.0	-345.8	920.0	876.5	43.51	21.143	
9,800.0	9,679.5	9,718.2	9,679.5	27.3	19.2	28.19	83.0	-345.8	920.0	876.4	43.60	21.104	
9,900.0	9,779.5	9,818.2	9,779.5	27.3	19.3	28.19	83.0	-345.8	920.0	876.4	43.68	21.065	
10,000.0	9,879.5	9,918.2	9,879.5	27.3	19.3	28.19	83.0	-345.8	920.0	876.3	43.76	21.026	
10,100.0	9,979.5	10,018.2	9,979.5	27.3	19.4	28.19	83.0	-345.8	920.0	876.2	43.84	20.986	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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		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)			
10,200.0	10,079.5	10,118.2	10,079.5	27.4	19.4	28.19	83.0	-345.8	920.0	876.1	43.92	20.947	
10,300.0	10,179.5	10,218.2	10,179.5	27.4	19.5	28.19	83.0	-345.8	920.0	876.0	44.00	20.908	
10,400.0	10,279.5	10,318.2	10,279.5	27.4	19.5	28.19	83.0	-345.8	920.0	875.9	44.09	20.868	
10,500.0	10,379.5	10,418.2	10,379.5	27.4	19.6	28.19	83.0	-345.8	920.0	875.9	44.17	20.829	
10,600.0	10,479.5	10,518.2	10,479.5	27.5	19.7	28.19	83.0	-345.8	920.0	875.8	44.26	20.789	
10,700.0	10,579.5	10,618.2	10,579.5	27.5	19.7	28.19	83.0	-345.8	920.0	875.7	44.34	20.750	
10,800.0	10,679.5	10,718.2	10,679.5	27.5	19.8	28.19	83.0	-345.8	920.0	875.6	44.42	20.710	
10,900.0	10,779.5	10,818.2	10,779.5	27.6	19.8	28.19	83.0	-345.8	920.0	875.5	44.51	20.670	
11,000.0	10,879.5	10,918.2	10,879.5	27.6	19.9	28.19	83.0	-345.8	920.0	875.4	44.60	20.631	
11,100.0	10,979.5	11,018.2	10,979.5	27.6	19.9	28.19	83.0	-345.8	920.0	875.3	44.68	20.591	
11,200.0	11,079.5	11,118.2	11,079.5	27.6	20.0	28.19	83.0	-345.8	920.0	875.3	44.77	20.551	
11,300.0	11,179.5	11,218.2	11,179.5	27.7	20.0	28.19	83.0	-345.8	920.0	875.2	44.86	20.511	
11,379.1	11,258.5	11,297.2	11,258.5	27.7	20.1	28.19	83.0	-345.8	920.0	875.1	44.92	20.484	
11,400.0	11,279.5	11,318.2	11,279.5	27.7	20.1	-151.42	83.0	-345.8	920.4	875.6	44.80	20.547	
11,425.0	11,304.4	11,343.1	11,304.4	27.7	20.1	-151.39	83.0	-345.8	922.0	877.2	44.81	20.577	
11,450.0	11,329.2	11,367.9	11,329.2	27.7	20.1	-151.32	83.0	-345.8	924.7	879.8	44.81	20.635	
11,475.0	11,353.8	11,392.5	11,353.8	27.7	20.1	-151.23	83.0	-345.8	928.5	883.7	44.81	20.722	
11,500.0	11,378.2	11,416.9	11,378.2	27.7	20.1	-151.10	83.0	-345.8	933.4	888.6	44.79	20.838	
11,525.0	11,402.2	11,440.9	11,402.2	27.7	20.2	-150.94	83.0	-345.8	939.5	894.7	44.77	20.983	
11,550.0	11,425.8	11,464.6	11,425.8	27.7	20.2	-150.74	83.0	-345.8	946.7	902.0	44.75	21.156	
11,575.0	11,449.0	11,475.0	11,436.3	27.7	20.2	-150.33	83.0	-345.8	955.1	910.6	44.56	21.435	
11,600.0	11,471.7	11,486.5	11,447.8	27.7	20.2	-149.85	83.2	-345.8	964.9	920.4	44.47	21.700	
11,625.0	11,493.7	11,500.0	11,461.3	27.7	20.2	-149.33	83.8	-345.8	976.1	931.7	44.38	21.992	
11,650.0	11,515.2	11,500.0	11,461.3	27.7	20.2	-148.44	83.8	-345.8	988.5	944.3	44.24	22.347	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	1.0	1.0	3.0	3.0	50.20	133.9	160.8	209.3	202.3	6.98	29.975	
100.0	100.0	101.0	101.0	3.1	3.1	50.20	133.9	160.8	209.3	202.0	7.23	28.953	
200.0	200.0	201.0	201.0	3.2	3.3	50.20	133.9	160.8	209.3	201.8	7.47	28.026	
300.0	300.0	301.0	301.0	3.4	3.4	50.20	133.9	160.8	209.3	201.6	7.70	27.177	
400.0	400.0	401.0	401.0	3.5	3.5	50.20	133.9	160.8	209.3	201.3	7.93	26.394	
500.0	500.0	501.0	501.0	3.6	3.6	50.20	133.9	160.8	209.3	201.1	8.15	25.670	
600.0	600.0	601.0	601.0	3.7	3.7	50.20	133.9	160.8	209.3	200.9	8.37	24.996	
700.0	700.0	701.0	701.0	3.9	3.9	50.20	133.9	160.8	209.3	200.7	8.59	24.367	
800.0	800.0	801.0	801.0	4.0	4.0	50.20	133.9	160.8	209.3	200.5	8.80	23.779	
900.0	900.0	901.0	901.0	4.1	4.1	50.20	133.9	160.8	209.3	200.2	9.01	23.227	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	50.20	133.9	160.8	209.3	200.0	9.22	22.707	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	50.20	133.9	160.8	209.3	199.8	9.42	22.216	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	50.20	133.9	160.8	209.3	199.6	9.62	21.751	
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	50.20	133.9	160.8	209.3	199.4	9.82	21.311	
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	50.20	133.9	160.8	209.3	199.2	10.02	20.892	
1,500.0	1,500.0	1,501.1	1,501.1	4.8	4.8	50.20	133.9	160.8	209.3	199.2	10.08	20.758	
1,600.0	1,600.0	1,608.9	1,608.8	5.0	5.0	-176.91	132.9	159.0	209.1	198.8	10.27	20.352	
1,700.0	1,699.8	1,716.6	1,716.4	5.2	5.2	-177.26	129.7	153.8	208.7	197.9	10.79	19.349	
1,746.8	1,746.5	1,765.8	1,765.5	5.3	5.2	-177.49	127.6	150.2	208.5	197.5	10.97	19.013 CC, ES	
1,800.0	1,799.5	1,819.0	1,818.4	5.5	5.3	-177.76	125.2	146.3	209.0	197.8	11.20	18.662	
1,900.0	1,898.7	1,918.9	1,917.9	5.7	5.5	-178.28	120.7	138.8	212.6	200.9	11.72	18.143	
2,000.0	1,997.5	2,018.6	2,017.3	6.0	5.7	-178.81	116.3	131.4	219.7	207.5	12.28	17.900 SF	
2,100.0	2,095.6	2,118.0	2,116.3	6.4	5.9	-179.31	111.8	123.9	230.4	217.5	12.87	17.902	
2,200.0	2,193.1	2,217.0	2,214.9	6.7	6.2	-179.77	107.4	116.5	244.4	230.9	13.49	18.119	
2,300.0	2,290.1	2,315.7	2,313.3	7.0	6.5	179.81	102.9	109.2	260.3	246.2	14.07	18.498	
2,400.0	2,387.1	2,414.5	2,411.6	7.4	6.8	179.45	98.5	101.8	276.1	261.4	14.68	18.814	
2,500.0	2,484.1	2,513.2	2,510.0	7.7	7.1	179.12	94.1	94.4	292.0	276.7	15.31	19.073	
2,600.0	2,581.2	2,611.9	2,608.3	8.1	7.3	178.83	89.6	87.0	307.8	291.9	15.96	19.290	
2,700.0	2,678.2	2,708.4	2,704.4	8.4	7.6	178.58	85.4	79.9	323.8	307.3	16.58	19.530	
2,800.0	2,775.2	2,800.0	2,795.8	8.8	7.9	178.41	82.0	74.3	341.2	323.9	17.24	19.792	
2,900.0	2,872.3	2,894.3	2,890.0	9.2	8.2	178.31	79.3	69.8	360.1	342.2	17.90	20.112	
3,000.0	2,969.3	2,986.4	2,982.0	9.6	8.4	178.28	77.4	66.6	380.5	361.9	18.55	20.511	
3,100.0	3,066.3	3,077.9	3,073.5	10.0	8.7	178.30	76.3	64.8	402.4	383.2	19.18	20.983	
3,200.0	3,163.4	3,168.8	3,164.4	10.4	8.8	178.37	75.9	64.2	425.9	406.2	19.72	21.593	
3,300.0	3,260.4	3,265.8	3,261.4	10.9	8.9	178.46	75.9	64.2	450.1	429.8	20.23	22.249	
3,400.0	3,357.4	3,362.9	3,358.4	11.3	8.9	178.54	75.9	64.2	474.2	453.5	20.76	22.842	
3,500.0	3,454.4	3,459.9	3,455.4	11.7	9.0	178.61	75.9	64.2	498.4	477.1	21.30	23.395	
3,600.0	3,551.5	3,556.9	3,552.5	12.2	9.1	178.67	75.9	64.2	522.6	500.8	21.86	23.911	
3,700.0	3,648.5	3,653.9	3,649.5	12.6	9.2	178.73	75.9	64.2	546.8	524.4	22.42	24.393	
3,800.0	3,745.5	3,751.0	3,746.5	13.0	9.2	178.79	75.9	64.2	571.0	548.0	22.98	24.843	
3,900.0	3,842.6	3,848.0	3,843.6	13.5	9.3	178.83	75.9	64.2	595.2	571.6	23.56	25.264	
4,000.0	3,939.6	3,945.0	3,940.6	13.9	9.4	178.88	75.9	64.2	619.4	595.2	24.14	25.659	
4,100.0	4,036.6	4,042.1	4,037.6	14.4	9.5	178.92	75.9	64.2	643.5	618.8	24.73	26.028	
4,200.0	4,133.6	4,139.1	4,134.6	14.9	9.5	178.96	75.9	64.2	667.7	642.4	25.32	26.374	
4,300.0	4,230.7	4,236.1	4,231.7	15.3	9.6	179.00	75.9	64.2	691.9	666.0	25.92	26.700	
4,400.0	4,327.7	4,333.1	4,328.7	15.8	9.7	179.03	75.9	64.2	716.1	689.6	26.52	27.005	
4,500.0	4,424.7	4,430.2	4,425.7	16.2	9.8	179.06	75.9	64.2	740.3	713.2	27.12	27.293	
4,600.0	4,521.8	4,527.2	4,522.8	16.7	9.9	179.09	75.9	64.2	764.5	736.8	27.74	27.563	
4,700.0	4,618.8	4,624.2	4,619.8	17.2	9.9	179.12	75.9	64.2	788.7	760.3	28.35	27.819	
4,800.0	4,715.8	4,721.3	4,716.8	17.6	10.0	179.15	75.9	64.2	812.9	783.9	28.97	28.059	
4,900.0	4,812.9	4,818.3	4,813.9	18.1	10.1	179.17	75.9	64.2	837.1	807.5	29.59	28.287	
5,000.0	4,909.9	4,915.3	4,910.9	18.6	10.2	179.19	75.9	64.2	861.3	831.0	30.22	28.502	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,100.0	5,006.9	5,012.4	5,007.9	19.0	10.2	179.22	75.9	64.2	885.4	854.6	30.85	28.705		
5,200.0	5,103.9	5,109.4	5,104.9	19.5	10.3	179.24	75.9	64.2	909.6	878.2	31.48	28.898		
5,300.0	5,201.0	5,206.4	5,202.0	20.0	10.4	179.26	75.9	64.2	933.8	901.7	32.11	29.081		
5,400.0	5,298.0	5,303.4	5,299.0	20.5	10.5	179.28	75.9	64.2	958.0	925.3	32.75	29.254		
5,500.0	5,395.0	5,400.5	5,396.0	20.9	10.5	179.29	75.9	64.2	982.2	948.8	33.39	29.418		
5,556.1	5,449.5	5,454.9	5,450.5	21.2	10.6	179.30	75.9	64.2	995.8	962.0	33.74	29.517		

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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	1.0	1.0	3.0	3.0	57.80	117.1	185.9	219.7	212.7	6.98	31.472	
100.0	100.0	101.0	101.0	3.1	3.1	57.80	117.1	185.9	219.7	212.5	7.23	30.402	
200.0	200.0	201.0	201.0	3.2	3.3	57.80	117.1	185.9	219.7	212.2	7.46	29.434	
300.0	300.0	301.0	301.0	3.4	3.4	57.80	117.1	185.9	219.7	212.0	7.70	28.550	
400.0	400.0	401.0	401.0	3.5	3.5	57.80	117.1	185.9	219.7	211.8	7.92	27.737	
500.0	500.0	501.0	501.0	3.6	3.6	57.80	117.1	185.9	219.7	211.6	8.14	26.987	
600.0	600.0	601.0	601.0	3.7	3.7	57.80	117.1	185.9	219.7	211.3	8.36	26.292	
700.0	700.0	701.0	701.0	3.9	3.9	57.80	117.1	185.9	219.7	211.1	8.57	25.644	
800.0	800.0	801.0	801.0	4.0	4.0	57.80	117.1	185.9	219.7	210.9	8.77	25.039	
900.0	900.0	901.0	901.0	4.1	4.1	57.80	117.1	185.9	219.7	210.7	8.98	24.472	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	57.80	117.1	185.9	219.7	210.5	9.18	23.939	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	57.80	117.1	185.9	219.7	210.3	9.37	23.436	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	57.80	117.1	185.9	219.7	210.1	9.57	22.961	
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	57.80	117.1	185.9	219.7	209.9	9.76	22.511	
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	57.80	117.1	185.9	219.7	209.8	9.95	22.084	
1,466.3	1,466.3	1,467.3	1,467.3	4.8	4.8	57.80	117.1	185.9	219.7	209.6	10.07	21.814 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	57.80	117.1	185.9	219.7	209.6	10.13	21.681 ES, SF	
1,600.0	1,600.0	1,594.3	1,594.3	5.0	4.9	-169.10	117.3	187.5	222.9	212.8	10.14	21.974	
1,700.0	1,699.8	1,687.2	1,687.1	5.2	5.0	-168.81	117.8	192.0	232.5	221.9	10.63	21.881	
1,800.0	1,799.5	1,778.9	1,778.5	5.5	5.2	-168.38	118.7	199.4	248.4	237.3	11.12	22.329	
1,900.0	1,898.7	1,874.9	1,874.0	5.7	5.4	-167.90	119.9	209.3	269.7	258.0	11.62	23.214	
2,000.0	1,997.5	1,971.8	1,970.3	6.0	5.7	-167.61	121.2	219.3	294.3	282.2	12.13	24.260	
2,100.0	2,095.6	2,067.8	2,065.8	6.4	5.9	-167.46	122.4	229.3	322.3	309.6	12.68	25.418	
2,200.0	2,193.1	2,162.8	2,160.3	6.7	6.2	-167.43	123.6	239.1	353.5	340.2	13.25	26.669	
2,300.0	2,290.1	2,257.3	2,254.2	7.0	6.4	-167.58	124.8	248.9	386.3	372.5	13.79	28.015	
2,400.0	2,387.1	2,351.7	2,348.2	7.4	6.7	-167.71	126.0	258.7	419.2	404.8	14.35	29.211	
2,500.0	2,484.1	2,446.2	2,442.1	7.7	7.0	-167.82	127.2	268.5	452.0	437.1	14.93	30.266	
2,600.0	2,581.2	2,540.6	2,536.0	8.1	7.3	-167.91	128.4	278.3	484.8	469.3	15.54	31.196	
2,700.0	2,678.2	2,635.1	2,630.0	8.4	7.6	-168.00	129.6	288.1	517.7	501.5	16.17	32.017	
2,800.0	2,775.2	2,729.5	2,723.9	8.8	7.9	-168.07	130.8	297.9	550.5	533.7	16.81	32.742	
2,900.0	2,872.3	2,824.0	2,817.8	9.2	8.2	-168.13	132.0	307.7	583.3	565.9	17.47	33.384	
3,000.0	2,969.3	2,918.4	2,911.8	9.6	8.5	-168.19	133.2	317.5	616.2	598.0	18.15	33.953	
3,100.0	3,066.3	3,012.9	3,005.7	10.0	8.8	-168.24	134.4	327.3	649.0	630.2	18.83	34.460	
3,200.0	3,163.4	3,107.3	3,099.6	10.4	9.2	-168.29	135.6	337.1	681.9	662.3	19.53	34.911	
3,300.0	3,260.4	3,201.8	3,193.6	10.9	9.5	-168.33	136.8	346.9	714.7	694.5	20.24	35.313	
3,400.0	3,357.4	3,296.3	3,287.5	11.3	9.8	-168.37	138.1	356.7	747.5	726.6	20.95	35.674	
3,500.0	3,454.4	3,390.7	3,381.4	11.7	10.2	-168.41	139.3	366.5	780.4	758.7	21.68	35.998	
3,600.0	3,551.5	3,485.2	3,475.4	12.2	10.5	-168.44	140.5	376.3	813.2	790.8	22.41	36.289	
3,700.0	3,648.5	3,579.6	3,569.3	12.6	10.9	-168.47	141.7	386.1	846.1	822.9	23.15	36.552	
3,800.0	3,745.5	3,674.1	3,663.2	13.0	11.2	-168.50	142.9	395.9	878.9	855.0	23.89	36.790	
3,900.0	3,842.6	3,768.5	3,757.2	13.5	11.6	-168.52	144.1	405.7	911.8	887.1	24.64	37.005	
4,000.0	3,939.6	3,863.0	3,851.1	13.9	11.9	-168.55	145.3	415.5	944.6	919.2	25.39	37.201	
4,100.0	4,036.6	3,957.4	3,945.1	14.4	12.3	-168.57	146.5	425.3	977.4	951.3	26.15	37.379	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11314-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	2.0	2.0	3.0	3.0	64.57	100.3	211.0	233.7	226.7	6.98	33.472		
100.0	100.0	102.0	102.0	3.1	3.1	64.57	100.3	211.0	233.7	226.4	7.23	32.331		
200.0	200.0	202.0	202.0	3.2	3.3	64.57	100.3	211.0	233.7	226.2	7.46	31.306		
300.0	300.0	302.0	302.0	3.4	3.4	64.57	100.3	211.0	233.7	226.0	7.69	30.373		
400.0	400.0	402.0	402.0	3.5	3.5	64.57	100.3	211.0	233.7	225.7	7.92	29.517		
500.0	500.0	502.0	502.0	3.6	3.6	64.57	100.3	211.0	233.7	225.5	8.13	28.729		
600.0	600.0	602.0	602.0	3.7	3.7	64.57	100.3	211.0	233.7	225.3	8.35	27.999		
700.0	700.0	702.0	702.0	3.9	3.9	64.57	100.3	211.0	233.7	225.1	8.55	27.321		
800.0	800.0	802.0	802.0	4.0	4.0	64.57	100.3	211.0	233.7	224.9	8.76	26.689		
900.0	900.0	902.0	902.0	4.1	4.1	64.57	100.3	211.0	233.7	224.7	8.95	26.096		
1,000.0	1,000.0	1,002.0	1,002.0	4.2	4.2	64.57	100.3	211.0	233.7	224.5	9.15	25.540		
1,100.0	1,100.0	1,102.0	1,102.0	4.3	4.3	64.57	100.3	211.0	233.7	224.3	9.34	25.017		
1,200.0	1,200.0	1,202.0	1,202.0	4.5	4.5	64.57	100.3	211.0	233.7	224.1	9.53	24.523		
1,300.0	1,300.0	1,302.0	1,302.0	4.6	4.6	64.57	100.3	211.0	233.7	224.0	9.71	24.056		
1,400.0	1,400.0	1,402.0	1,402.0	4.7	4.7	64.57	100.3	211.0	233.7	223.8	9.90	23.613		
1,466.0	1,466.0	1,468.0	1,468.0	4.8	4.8	64.57	100.3	211.0	233.7	223.7	10.01	23.334 CC		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	64.57	100.3	211.0	233.7	223.6	10.07	23.198 ES, SF		
1,600.0	1,600.0	1,594.7	1,594.6	5.0	4.9	-162.39	100.5	212.6	236.9	226.8	10.08	23.493		
1,700.0	1,699.8	1,686.9	1,686.8	5.2	5.0	-162.31	100.9	217.1	246.5	235.9	10.57	23.324		
1,800.0	1,799.5	1,778.1	1,777.6	5.5	5.2	-162.18	101.5	224.5	262.3	251.3	11.07	23.702		
1,900.0	1,898.7	1,867.6	1,866.6	5.7	5.5	-162.01	102.4	234.5	284.4	272.8	11.58	24.549		
2,000.0	1,997.5	1,955.0	1,953.1	6.0	5.8	-161.81	103.5	247.0	312.4	300.3	12.11	25.788		
2,100.0	2,095.6	2,044.5	2,041.3	6.4	6.0	-161.60	104.8	262.1	346.0	333.3	12.66	27.332		
2,200.0	2,193.1	2,137.4	2,132.7	6.7	6.3	-161.52	106.2	278.1	383.0	369.8	13.23	28.955		
2,300.0	2,290.1	2,229.6	2,223.6	7.0	6.6	-161.74	107.6	294.1	421.6	407.9	13.77	30.625		
2,400.0	2,387.1	2,321.9	2,314.4	7.4	6.8	-161.92	109.0	310.1	460.2	445.9	14.33	32.111		
2,500.0	2,484.1	2,414.1	2,405.3	7.7	7.1	-162.08	110.4	326.0	498.8	483.9	14.93	33.421		
2,600.0	2,581.2	2,506.3	2,496.1	8.1	7.4	-162.21	111.8	342.0	537.4	521.9	15.54	34.576		
2,700.0	2,678.2	2,598.6	2,587.0	8.4	7.8	-162.32	113.2	357.9	576.0	559.8	16.18	35.596		
2,800.0	2,775.2	2,690.8	2,677.8	8.8	8.1	-162.43	114.6	373.9	614.6	597.8	16.84	36.495		
2,900.0	2,872.3	2,783.1	2,768.6	9.2	8.4	-162.51	116.0	389.8	653.2	635.7	17.52	37.292		
3,000.0	2,969.3	2,875.3	2,859.5	9.6	8.8	-162.59	117.4	405.8	691.8	673.6	18.21	37.998		
3,100.0	3,066.3	2,967.6	2,950.3	10.0	9.1	-162.66	118.8	421.8	730.4	711.5	18.91	38.625		
3,200.0	3,163.4	3,059.8	3,041.2	10.4	9.5	-162.73	120.2	437.7	769.0	749.4	19.63	39.184		
3,300.0	3,260.4	3,152.1	3,132.0	10.9	9.8	-162.78	121.6	453.7	807.6	787.3	20.35	39.683		
3,400.0	3,357.4	3,244.3	3,222.9	11.3	10.2	-162.84	123.0	469.6	846.2	825.1	21.09	40.130		
3,500.0	3,454.4	3,336.5	3,313.7	11.7	10.6	-162.88	124.4	485.6	884.8	863.0	21.83	40.531		
3,600.0	3,551.5	3,428.8	3,404.6	12.2	11.0	-162.93	125.7	501.6	923.4	900.8	22.58	40.892		
3,700.0	3,648.5	3,521.0	3,495.4	12.6	11.3	-162.97	127.1	517.5	962.0	938.7	23.34	41.218		

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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	2.0	2.0	3.0	3.0	70.52	83.6	236.2	250.6	243.6	6.98	35.894	
100.0	100.0	102.0	102.0	3.1	3.1	70.52	83.6	236.2	250.6	243.4	7.23	34.672	
200.0	200.0	202.0	202.0	3.2	3.3	70.52	83.6	236.2	250.6	243.1	7.46	33.577	
300.0	300.0	302.0	302.0	3.4	3.4	70.52	83.6	236.2	250.6	242.9	7.69	32.582	
400.0	400.0	402.0	402.0	3.5	3.5	70.52	83.6	236.2	250.6	242.7	7.91	31.671	
500.0	500.0	502.0	502.0	3.6	3.6	70.52	83.6	236.2	250.6	242.5	8.13	30.833	
600.0	600.0	602.0	602.0	3.7	3.7	70.52	83.6	236.2	250.6	242.2	8.34	30.058	
700.0	700.0	702.0	702.0	3.9	3.9	70.52	83.6	236.2	250.6	242.0	8.54	29.339	
800.0	800.0	802.0	802.0	4.0	4.0	70.52	83.6	236.2	250.6	241.8	8.74	28.669	
900.0	900.0	902.0	902.0	4.1	4.1	70.52	83.6	236.2	250.6	241.6	8.94	28.043	
1,000.0	1,000.0	1,002.0	1,002.0	4.2	4.2	70.52	83.6	236.2	250.6	241.5	9.13	27.455	
1,100.0	1,100.0	1,102.0	1,102.0	4.3	4.3	70.52	83.6	236.2	250.6	241.3	9.31	26.903	
1,200.0	1,200.0	1,202.0	1,202.0	4.5	4.5	70.52	83.6	236.2	250.6	241.1	9.50	26.382	
1,300.0	1,300.0	1,302.0	1,302.0	4.6	4.6	70.52	83.6	236.2	250.6	240.9	9.68	25.890	
1,400.0	1,400.0	1,402.0	1,402.0	4.7	4.7	70.52	83.6	236.2	250.6	240.7	9.86	25.424	
1,466.0	1,466.0	1,468.0	1,468.0	4.8	4.8	70.52	83.6	236.2	250.6	240.6	9.97	25.131 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	70.52	83.6	236.2	250.6	240.6	10.03	24.987 ES, SF	
1,600.0	1,600.0	1,594.0	1,594.0	5.0	4.9	-156.50	83.7	237.8	253.8	243.7	10.03	25.290	
1,700.0	1,699.8	1,685.6	1,685.5	5.2	5.0	-156.57	83.9	242.2	263.3	252.7	10.52	25.034	
1,800.0	1,799.5	1,776.2	1,775.8	5.5	5.2	-156.66	84.3	249.5	278.9	267.9	11.01	25.323	
1,900.0	1,898.7	1,865.2	1,864.2	5.7	5.5	-156.77	84.8	259.4	300.7	289.2	11.53	26.084	
2,000.0	1,997.5	1,952.1	1,950.3	6.0	5.8	-156.86	85.4	271.8	328.4	316.4	12.06	27.239	
2,100.0	2,095.6	2,036.6	2,033.5	6.4	6.0	-156.92	86.2	286.3	361.9	349.3	12.60	28.731	
2,200.0	2,193.1	2,118.3	2,113.5	6.7	6.3	-156.94	87.1	302.6	401.0	387.9	13.14	30.507	
2,300.0	2,290.1	2,200.0	2,193.1	7.0	6.6	-157.22	88.0	321.2	444.0	430.3	13.66	32.495	
2,400.0	2,387.1	2,286.8	2,277.3	7.4	6.9	-157.41	89.1	342.2	488.3	474.1	14.20	34.395	
2,500.0	2,484.1	2,376.4	2,364.3	7.7	7.2	-157.58	90.3	363.8	532.5	517.7	14.78	36.030	
2,600.0	2,581.2	2,466.1	2,451.3	8.1	7.5	-157.72	91.4	385.5	576.8	561.4	15.39	37.476	
2,700.0	2,678.2	2,555.8	2,538.3	8.4	7.8	-157.85	92.5	407.2	621.0	605.0	16.02	38.754	
2,800.0	2,775.2	2,645.4	2,625.3	8.8	8.1	-157.95	93.7	428.8	665.3	648.6	16.68	39.886	
2,900.0	2,872.3	2,735.1	2,712.3	9.2	8.5	-158.04	94.8	450.5	709.6	692.2	17.35	40.888	
3,000.0	2,969.3	2,824.8	2,799.3	9.6	8.8	-158.13	95.9	472.1	753.8	735.8	18.04	41.778	
3,100.0	3,066.3	2,914.4	2,886.3	10.0	9.2	-158.20	97.1	493.8	798.1	779.3	18.75	42.570	
3,200.0	3,163.4	3,004.1	2,973.3	10.4	9.5	-158.26	98.2	515.5	842.4	822.9	19.47	43.275	
3,300.0	3,260.4	3,093.8	3,060.3	10.9	9.9	-158.32	99.3	537.1	886.6	866.4	20.19	43.905	
3,400.0	3,357.4	3,183.4	3,147.3	11.3	10.3	-158.38	100.5	558.8	930.9	910.0	20.93	44.469	
3,500.0	3,454.4	3,273.1	3,234.3	11.7	10.7	-158.42	101.6	580.5	975.2	953.5	21.68	44.976	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11185-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.0	2.0	3.0	3.0	75.69	66.7	261.3	269.6	262.7	6.98	38.626	
100.0	100.0	102.0	102.0	3.1	3.1	75.69	66.7	261.3	269.6	262.4	7.23	37.312	
200.0	200.0	202.0	202.0	3.2	3.3	75.69	66.7	261.3	269.6	262.2	7.46	36.136	
300.0	300.0	302.0	302.0	3.4	3.4	75.69	66.7	261.3	269.6	262.0	7.69	35.069	
400.0	400.0	402.0	402.0	3.5	3.5	75.69	66.7	261.3	269.6	261.7	7.91	34.093	
500.0	500.0	502.0	502.0	3.6	3.6	75.69	66.7	261.3	269.6	261.5	8.12	33.197	
600.0	600.0	602.0	602.0	3.7	3.7	75.69	66.7	261.3	269.6	261.3	8.33	32.369	
700.0	700.0	702.0	702.0	3.9	3.9	75.69	66.7	261.3	269.6	261.1	8.53	31.601	
800.0	800.0	802.0	802.0	4.0	4.0	75.69	66.7	261.3	269.6	260.9	8.73	30.887	
900.0	900.0	902.0	902.0	4.1	4.1	75.69	66.7	261.3	269.6	260.7	8.92	30.219	
1,000.0	1,000.0	1,002.0	1,002.0	4.2	4.2	75.69	66.7	261.3	269.6	260.5	9.11	29.594	
1,100.0	1,100.0	1,102.0	1,102.0	4.3	4.3	75.69	66.7	261.3	269.6	260.4	9.30	29.006	
1,200.0	1,200.0	1,202.0	1,202.0	4.5	4.5	75.69	66.7	261.3	269.6	260.2	9.48	28.453	
1,300.0	1,300.0	1,302.0	1,302.0	4.6	4.6	75.69	66.7	261.3	269.6	260.0	9.65	27.930	
1,400.0	1,400.0	1,402.0	1,402.0	4.7	4.7	75.69	66.7	261.3	269.6	259.8	9.83	27.435	
1,466.0	1,466.0	1,468.0	1,468.0	4.8	4.8	75.69	66.7	261.3	269.6	259.7	9.94	27.124 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	75.69	66.7	261.3	269.7	259.7	10.00	26.971 ES	
1,600.0	1,600.0	1,593.4	1,593.3	5.0	4.9	-151.37	66.7	262.8	272.8	262.8	10.00	27.286	
1,700.0	1,699.8	1,684.3	1,684.2	5.2	5.0	-151.54	66.8	267.2	282.1	271.6	10.47	26.935 SF	
1,800.0	1,799.5	1,774.3	1,773.9	5.5	5.2	-151.79	66.9	274.4	297.5	286.5	10.97	27.127	
1,900.0	1,898.7	1,862.7	1,861.7	5.7	5.5	-152.09	67.1	284.2	318.9	307.4	11.48	27.791	
2,000.0	1,997.5	1,949.2	1,947.3	6.0	5.7	-152.39	67.3	296.4	346.2	334.2	12.00	28.852	
2,100.0	2,095.6	2,033.2	2,030.1	6.4	6.0	-152.67	67.5	310.8	379.2	366.7	12.54	30.251	
2,200.0	2,193.1	2,114.5	2,109.8	6.7	6.3	-152.90	67.8	326.9	417.8	404.7	13.08	31.939	
2,300.0	2,290.1	2,200.0	2,193.1	7.0	6.6	-153.45	68.1	346.4	460.3	446.7	13.63	33.764	
2,400.0	2,387.1	2,270.3	2,261.1	7.4	6.9	-153.76	68.5	364.2	505.1	491.0	14.08	35.866	
2,500.0	2,484.1	2,353.7	2,341.2	7.7	7.2	-154.01	68.9	387.0	551.8	537.1	14.63	37.705	
2,600.0	2,581.2	2,442.0	2,426.1	8.1	7.5	-154.23	69.3	411.4	598.6	583.4	15.24	39.294	
2,700.0	2,678.2	2,530.3	2,511.0	8.4	7.8	-154.42	69.7	435.7	645.5	629.7	15.86	40.700	
2,800.0	2,775.2	2,618.6	2,595.9	8.8	8.1	-154.59	70.1	460.1	692.4	675.9	16.51	41.944	
2,900.0	2,872.3	2,706.9	2,680.8	9.2	8.5	-154.73	70.6	484.4	739.3	722.1	17.17	43.046	
3,000.0	2,969.3	2,795.3	2,765.7	9.6	8.8	-154.86	71.0	508.7	786.2	768.3	17.86	44.023	
3,100.0	3,066.3	2,883.6	2,850.6	10.0	9.2	-154.97	71.4	533.1	833.1	814.5	18.56	44.890	
3,200.0	3,163.4	2,971.9	2,935.5	10.4	9.5	-155.07	71.8	557.4	879.9	860.7	19.27	45.663	
3,300.0	3,260.4	3,060.2	3,020.4	10.9	9.9	-155.16	72.3	581.7	926.8	906.8	20.00	46.353	
3,400.0	3,357.4	3,148.5	3,105.3	11.3	10.3	-155.24	72.7	606.1	973.7	953.0	20.73	46.971	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	3.0	3.0	123.85	-16.7	25.0	30.1	23.1	6.98	4.307	
100.0	100.0	101.0	101.0	3.1	3.1	123.85	-16.7	25.0	30.1	22.8	7.23	4.161	
200.0	200.0	201.0	201.0	3.2	3.3	123.85	-16.7	25.0	30.1	22.6	7.46	4.028	
300.0	300.0	301.0	301.0	3.4	3.4	123.85	-16.7	25.0	30.1	22.4	7.70	3.907	
400.0	400.0	401.0	401.0	3.5	3.5	123.85	-16.7	25.0	30.1	22.1	7.92	3.795	
500.0	500.0	501.0	501.0	3.6	3.6	123.85	-16.7	25.0	30.1	21.9	8.14	3.692	
600.0	600.0	601.0	601.0	3.7	3.7	123.85	-16.7	25.0	30.1	21.7	8.36	3.597	
700.0	700.0	701.0	701.0	3.9	3.9	123.85	-16.7	25.0	30.1	21.5	8.57	3.508	
800.0	800.0	801.0	801.0	4.0	4.0	123.85	-16.7	25.0	30.1	21.3	8.78	3.425	
900.0	900.0	901.0	901.0	4.1	4.1	123.85	-16.7	25.0	30.1	21.1	8.98	3.347	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	123.85	-16.7	25.0	30.1	20.9	9.19	3.273	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	123.85	-16.7	25.0	30.1	20.7	9.38	3.204	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	123.85	-16.7	25.0	30.1	20.5	9.58	3.139	
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	123.85	-16.7	25.0	30.1	20.3	9.77	3.077	
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	123.85	-16.7	25.0	30.1	20.1	9.96	3.018	
1,500.0	1,500.0	1,501.0	1,501.0	4.8	4.8	123.85	-16.8	25.0	30.1	20.0	10.02	3.001 CC, ES	
1,504.4	1,504.4	1,505.5	1,505.5	4.8	4.8	-103.14	-16.8	25.0	30.1	20.2	9.83	3.059	
1,600.0	1,600.0	1,601.1	1,601.1	5.0	5.0	-103.02	-18.1	23.8	30.2	20.2	10.00	3.022	
1,700.0	1,699.8	1,701.3	1,701.1	5.2	5.2	-102.78	-22.0	20.2	30.7	20.3	10.31	2.973	
1,800.0	1,799.5	1,801.4	1,800.9	5.5	5.5	-102.43	-28.5	14.4	31.4	20.8	10.62	2.956	
1,900.0	1,898.7	1,901.6	1,900.3	5.7	5.8	-101.99	-37.6	6.2	32.4	21.5	10.93	2.967	
2,000.0	1,997.5	2,001.7	1,999.1	6.0	6.1	-101.49	-49.3	-4.3	33.8	22.5	11.25	3.003	
2,100.0	2,095.6	2,101.7	2,097.6	6.4	6.3	-103.82	-62.2	-16.0	35.7	24.1	11.57	3.081	
2,200.0	2,193.1	2,201.5	2,195.9	6.7	6.6	-110.85	-75.1	-27.6	38.7	26.7	11.98	3.228	
2,300.0	2,290.1	2,301.2	2,294.1	7.0	6.9	-118.91	-88.0	-39.2	43.0	30.5	12.54	3.433	
2,400.0	2,387.1	2,401.0	2,392.4	7.4	7.2	-125.39	-100.8	-50.7	48.1	34.9	13.18	3.647	
2,500.0	2,484.1	2,500.7	2,490.6	7.7	7.5	-130.59	-113.7	-62.3	53.6	39.7	13.89	3.860	
2,600.0	2,581.2	2,600.5	2,588.8	8.1	7.9	-134.79	-126.6	-73.9	59.5	44.9	14.64	4.066	
2,700.0	2,678.2	2,700.2	2,687.0	8.4	8.2	-138.22	-139.5	-85.5	65.7	50.3	15.41	4.262	
2,800.0	2,775.2	2,799.9	2,785.3	8.8	8.6	-141.05	-152.3	-97.1	72.0	55.8	16.20	4.446	
2,900.0	2,872.3	2,899.7	2,883.5	9.2	9.0	-143.42	-165.2	-108.7	78.5	61.5	17.00	4.618	
3,000.0	2,969.3	2,999.4	2,981.7	9.6	9.3	-145.42	-178.1	-120.3	85.1	67.3	17.82	4.777	
3,100.0	3,066.3	3,099.2	3,079.9	10.0	9.7	-147.14	-190.9	-131.9	91.8	73.2	18.64	4.925	
3,200.0	3,163.4	3,198.9	3,178.2	10.4	10.1	-148.62	-203.8	-143.5	98.6	79.1	19.48	5.062	
3,300.0	3,260.4	3,298.7	3,276.4	10.9	10.5	-149.91	-216.7	-155.0	105.4	85.1	20.32	5.188	
3,400.0	3,357.4	3,398.4	3,374.6	11.3	10.9	-151.04	-229.5	-166.6	112.3	91.1	21.17	5.305	
3,500.0	3,454.4	3,498.1	3,472.8	11.7	11.3	-152.04	-242.4	-178.2	119.2	97.2	22.02	5.413	
3,600.0	3,551.5	3,597.9	3,571.1	12.2	11.7	-152.94	-255.3	-189.8	126.1	103.3	22.88	5.514	
3,700.0	3,648.5	3,697.6	3,669.3	12.6	12.1	-153.73	-268.2	-201.4	133.1	109.4	23.74	5.607	
3,800.0	3,745.5	3,797.4	3,767.5	13.0	12.5	-154.45	-281.0	-213.0	140.1	115.5	24.61	5.693	
3,900.0	3,842.6	3,897.1	3,865.7	13.5	13.0	-155.10	-293.9	-224.6	147.1	121.6	25.48	5.774	
4,000.0	3,939.6	3,996.8	3,964.0	13.9	13.4	-155.70	-306.8	-236.2	154.2	127.8	26.36	5.849	
4,100.0	4,036.6	4,096.6	4,062.2	14.4	13.8	-156.23	-319.6	-247.8	161.2	134.0	27.24	5.919	
4,200.0	4,133.6	4,196.3	4,160.4	14.9	14.2	-156.73	-332.5	-259.3	168.3	140.1	28.12	5.984	
4,300.0	4,230.7	4,296.1	4,258.6	15.3	14.6	-157.18	-345.4	-270.9	175.3	146.3	29.00	6.046	
4,400.0	4,327.7	4,395.8	4,356.9	15.8	15.1	-157.60	-358.3	-282.5	182.4	152.5	29.89	6.103	
4,500.0	4,424.7	4,495.5	4,455.1	16.2	15.5	-157.99	-371.1	-294.1	189.5	158.7	30.78	6.157	
4,600.0	4,521.8	4,593.8	4,551.9	16.7	15.9	-158.37	-383.7	-305.4	196.8	165.2	31.64	6.220	
4,700.0	4,618.8	4,690.4	4,647.3	17.2	16.3	-158.90	-394.9	-315.5	205.4	172.9	32.53	6.315	
4,800.0	4,715.8	4,786.6	4,742.6	17.6	16.7	-159.57	-405.0	-324.6	215.6	182.1	33.42	6.450	
4,900.0	4,812.9	4,882.5	4,837.7	18.1	17.1	-160.35	-413.8	-332.5	227.3	192.9	34.32	6.622	
5,000.0	4,909.9	4,978.0	4,932.7	18.6	17.5	-161.20	-421.4	-339.4	240.5	205.3	35.21	6.831	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,006.9	5,073.0	5,027.3	19.0	17.8	-162.11	-427.8	-345.1	255.3	219.2	36.09	7.076	
5,200.0	5,103.9	5,167.6	5,121.6	19.5	18.2	-163.04	-433.0	-349.8	271.7	234.8	36.94	7.355	
5,300.0	5,201.0	5,261.5	5,215.4	20.0	18.5	-163.97	-437.0	-353.4	289.7	251.9	37.77	7.670	
5,400.0	5,298.0	5,354.9	5,308.7	20.5	18.8	-164.90	-439.9	-356.0	309.3	270.7	38.57	8.018	
5,500.0	5,395.0	5,447.6	5,401.4	20.9	19.1	-165.79	-441.6	-357.6	330.4	291.1	39.32	8.403	
5,556.1	5,449.5	5,500.0	5,453.7	21.2	19.2	-166.29	-442.1	-358.0	343.0	303.2	39.73	8.633	
5,600.0	5,492.1	5,539.7	5,493.4	21.4	19.3	-166.68	-442.2	-358.1	352.9	313.0	39.96	8.833	
5,700.0	5,589.5	5,636.8	5,590.5	21.9	19.3	-167.52	-442.2	-358.1	375.0	334.5	40.54	9.249	
5,800.0	5,687.3	5,734.6	5,688.3	22.3	19.3	-168.22	-442.2	-358.1	395.5	354.3	41.12	9.617	
5,900.0	5,785.4	5,832.7	5,786.4	22.8	19.3	-168.80	-442.2	-358.1	414.3	372.6	41.68	9.939	
6,000.0	5,883.9	5,931.2	5,884.9	23.2	19.4	-169.28	-442.2	-358.1	431.4	389.2	42.23	10.216	
6,100.0	5,982.7	6,029.9	5,983.7	23.7	19.4	-169.68	-442.2	-358.1	446.9	404.2	42.76	10.452	
6,200.0	6,081.7	6,128.9	6,082.7	24.1	19.4	-170.02	-442.2	-358.1	460.7	417.5	43.28	10.646	
6,300.0	6,180.9	6,228.2	6,181.9	24.5	19.4	-170.30	-442.2	-358.1	472.8	429.1	43.78	10.802	
6,400.0	6,280.3	6,327.6	6,281.3	24.9	19.5	-170.53	-442.2	-358.1	483.3	439.0	44.26	10.919	
6,500.0	6,380.0	6,427.2	6,381.0	25.3	19.5	-170.71	-442.2	-358.1	492.0	447.2	44.72	11.000	
6,600.0	6,479.7	6,527.0	6,480.7	25.7	19.5	-170.85	-442.2	-358.1	498.9	453.8	45.16	11.047	
6,700.0	6,579.6	6,626.8	6,580.6	26.0	19.6	-170.96	-442.2	-358.1	504.2	458.6	45.58	11.062	
6,800.0	6,679.5	6,726.8	6,680.5	26.3	19.6	-171.03	-442.2	-358.1	507.8	461.8	45.96	11.048	
6,900.0	6,779.5	6,826.7	6,780.5	26.6	19.6	-171.06	-442.2	-358.1	509.6	463.3	46.29	11.010	
6,956.1	6,835.6	6,882.9	6,836.6	26.6	19.6	-55.93	-442.2	-358.1	509.9	463.5	46.37	10.995	
7,000.0	6,879.5	6,926.7	6,880.5	26.6	19.7	55.93	-442.2	-358.1	509.9	463.5	46.39	10.992	
7,100.0	6,979.5	7,026.7	6,980.5	26.7	19.7	55.93	-442.2	-358.1	509.9	463.4	46.43	10.981	
7,200.0	7,079.5	7,126.7	7,080.5	26.7	19.7	55.93	-442.2	-358.1	509.9	463.4	46.48	10.970	
7,300.0	7,179.5	7,226.7	7,180.5	26.7	19.8	55.93	-442.2	-358.1	509.9	463.3	46.53	10.959	
7,400.0	7,279.5	7,326.7	7,280.5	26.7	19.8	55.93	-442.2	-358.1	509.9	463.3	46.58	10.947	
7,500.0	7,379.5	7,426.7	7,380.5	26.7	19.8	55.93	-442.2	-358.1	509.9	463.3	46.63	10.936	
7,600.0	7,479.5	7,526.7	7,480.5	26.8	19.9	55.93	-442.2	-358.1	509.9	463.2	46.67	10.924	
7,700.0	7,579.5	7,626.7	7,580.5	26.8	19.9	55.93	-442.2	-358.1	509.9	463.2	46.72	10.912	
7,800.0	7,679.5	7,726.7	7,680.5	26.8	19.9	55.93	-442.2	-358.1	509.9	463.1	46.78	10.901	
7,900.0	7,779.5	7,826.7	7,780.5	26.8	20.0	55.93	-442.2	-358.1	509.9	463.1	46.83	10.889	
8,000.0	7,879.5	7,926.7	7,880.5	26.8	20.0	55.93	-442.2	-358.1	509.9	463.0	46.88	10.877	
8,100.0	7,979.5	8,026.7	7,980.5	26.9	20.0	55.93	-442.2	-358.1	509.9	462.9	46.93	10.865	
8,200.0	8,079.5	8,126.7	8,080.5	26.9	20.1	55.93	-442.2	-358.1	509.9	462.9	46.98	10.853	
8,300.0	8,179.5	8,226.7	8,180.5	26.9	20.1	55.93	-442.2	-358.1	509.9	462.8	47.04	10.840	
8,400.0	8,279.5	8,326.7	8,280.5	26.9	20.1	55.93	-442.2	-358.1	509.9	462.8	47.09	10.828	
8,500.0	8,379.5	8,426.7	8,380.5	27.0	20.2	55.93	-442.2	-358.1	509.9	462.7	47.14	10.816	
8,600.0	8,479.5	8,526.7	8,480.5	27.0	20.2	55.93	-442.2	-358.1	509.9	462.7	47.20	10.803	
8,700.0	8,579.5	8,626.7	8,580.5	27.0	20.2	55.93	-442.2	-358.1	509.9	462.6	47.25	10.790	
8,800.0	8,679.5	8,726.7	8,680.5	27.0	20.3	55.93	-442.2	-358.1	509.9	462.6	47.31	10.778	
8,900.0	8,779.5	8,826.7	8,780.5	27.0	20.3	55.93	-442.2	-358.1	509.9	462.5	47.36	10.765	
9,000.0	8,879.5	8,926.7	8,880.5	27.1	20.4	55.93	-442.2	-358.1	509.9	462.5	47.42	10.752	
9,100.0	8,979.5	9,026.7	8,980.5	27.1	20.4	55.93	-442.2	-358.1	509.9	462.4	47.48	10.739	
9,200.0	9,079.5	9,126.7	9,080.5	27.1	20.4	55.93	-442.2	-358.1	509.9	462.3	47.54	10.726	
9,300.0	9,179.5	9,226.7	9,180.5	27.1	20.5	55.93	-442.2	-358.1	509.9	462.3	47.59	10.713	
9,400.0	9,279.5	9,326.7	9,280.5	27.2	20.5	55.93	-442.2	-358.1	509.9	462.2	47.65	10.700	
9,500.0	9,379.5	9,426.7	9,380.5	27.2	20.5	55.93	-442.2	-358.1	509.9	462.2	47.71	10.687	
9,600.0	9,479.5	9,526.7	9,480.5	27.2	20.6	55.93	-442.2	-358.1	509.9	462.1	47.77	10.674	
9,700.0	9,579.5	9,626.7	9,580.5	27.2	20.6	55.93	-442.2	-358.1	509.9	462.0	47.83	10.660	
9,800.0	9,679.5	9,726.7	9,680.5	27.3	20.7	55.93	-442.2	-358.1	509.9	462.0	47.89	10.647	
9,900.0	9,779.5	9,826.7	9,780.5	27.3	20.7	55.93	-442.2	-358.1	509.9	461.9	47.95	10.633	
10,000.0	9,879.5	9,926.7	9,880.5	27.3	20.7	55.93	-442.2	-358.1	509.9	461.9	48.01	10.620	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
10,100.0	9,979.5	10,026.7	9,980.5	27.3	20.8	55.93		-442.2	-358.1	509.9	461.8	48.07	10.606
10,200.0	10,079.5	10,126.7	10,080.5	27.4	20.8	55.93		-442.2	-358.1	509.9	461.7	48.14	10.592
10,300.0	10,179.5	10,226.7	10,180.5	27.4	20.9	55.93		-442.2	-358.1	509.9	461.7	48.20	10.579
10,400.0	10,279.5	10,326.7	10,280.5	27.4	20.9	55.93		-442.2	-358.1	509.9	461.6	48.26	10.565
10,500.0	10,379.5	10,426.7	10,380.5	27.4	20.9	55.93		-442.2	-358.1	509.9	461.6	48.33	10.551
10,600.0	10,479.5	10,526.7	10,480.5	27.5	21.0	55.93		-442.2	-358.1	509.9	461.5	48.39	10.537
10,700.0	10,579.5	10,626.7	10,580.5	27.5	21.0	55.93		-442.2	-358.1	509.9	461.4	48.45	10.523
10,800.0	10,679.5	10,726.7	10,680.5	27.5	21.1	55.93		-442.2	-358.1	509.9	461.4	48.52	10.509
10,900.0	10,779.5	10,826.7	10,780.5	27.6	21.1	55.93		-442.2	-358.1	509.9	461.3	48.58	10.495
11,000.0	10,879.5	10,926.7	10,880.5	27.6	21.2	55.93		-442.2	-358.1	509.9	461.2	48.65	10.480
11,100.0	10,979.5	11,026.7	10,980.5	27.6	21.2	55.93		-442.2	-358.1	509.9	461.2	48.72	10.466
11,200.0	11,079.5	11,126.7	11,080.5	27.6	21.2	55.93		-442.2	-358.1	509.9	461.1	48.78	10.452
11,300.0	11,179.5	11,226.7	11,180.5	27.7	21.3	55.93		-442.2	-358.1	509.9	461.0	48.85	10.437
11,379.1	11,258.5	11,305.8	11,259.5	27.7	21.3	55.93		-442.2	-358.1	509.9	461.0	48.90	10.428
11,400.0	11,279.5	11,326.7	11,280.5	27.7	21.3	-123.71		-442.2	-358.1	510.1	461.4	48.78	10.458
11,425.0	11,304.4	11,351.7	11,305.4	27.7	21.3	-123.78		-442.2	-358.1	511.1	462.3	48.81	10.471
11,450.0	11,329.2	11,376.5	11,330.2	27.7	21.4	-123.89		-442.2	-358.1	512.8	464.0	48.85	10.498
11,475.0	11,353.8	11,401.1	11,354.8	27.7	21.4	-124.04		-442.2	-358.1	515.3	466.4	48.90	10.537
11,500.0	11,378.2	11,425.5	11,379.2	27.7	21.4	-124.23		-442.2	-358.1	518.5	469.5	48.96	10.591
11,525.0	11,402.2	11,449.5	11,403.2	27.7	21.4	-124.43		-442.2	-358.1	522.5	473.5	49.02	10.658
11,550.0	11,425.8	11,473.1	11,426.8	27.7	21.4	-124.66		-442.2	-358.1	527.3	478.2	49.09	10.741
11,575.0	11,449.0	11,518.3	11,472.0	27.7	21.4	-125.53		-443.9	-358.1	532.3	483.0	49.31	10.795
11,600.0	11,471.7	11,593.4	11,546.0	27.7	21.4	-126.91		-455.8	-358.0	536.1	486.2	49.88	10.748
11,625.0	11,493.7	11,686.2	11,633.6	27.7	21.4	-127.90		-486.1	-357.8	538.3	487.8	50.46	10.669
11,650.0	11,515.2	11,768.1	11,704.7	27.7	21.5	-128.02		-526.7	-357.6	538.7	487.9	50.75	10.614
11,675.0	11,535.9	11,849.2	11,767.2	27.8	21.5	-127.51		-578.1	-357.2	537.2	486.4	50.82	10.571
11,700.0	11,555.8	11,926.9	11,818.1	27.8	21.6	-126.43		-636.7	-356.9	534.0	483.4	50.63	10.548
11,725.0	11,575.0	11,999.3	11,856.4	27.8	21.6	-124.90		-698.0	-356.5	529.4	479.2	50.20	10.544
11,750.0	11,593.3	12,065.4	11,883.0	27.8	21.7	-123.07		-758.5	-356.1	523.5	473.9	49.59	10.557
11,775.0	11,610.6	12,125.2	11,899.6	27.8	21.7	-121.07		-815.9	-355.7	516.7	467.9	48.84	10.580
11,800.0	11,627.0	12,179.0	11,908.3	27.8	21.8	-119.02		-869.0	-355.4	509.3	461.3	48.02	10.607
11,825.0	11,642.4	12,227.4	11,911.0	27.8	21.8	-116.98		-917.2	-355.0	501.6	454.4	47.17	10.633
11,850.0	11,656.7	12,249.2	11,911.0	27.8	21.8	-116.47		-939.1	-354.9	494.1	447.1	46.97	10.518
11,875.0	11,670.0	12,270.4	11,911.0	27.9	21.8	-115.99		-960.3	-354.8	487.4	440.6	46.82	10.410
11,900.0	11,682.1	12,292.3	11,911.0	27.9	21.9	-115.48		-982.2	-354.6	481.6	434.9	46.69	10.315
11,925.0	11,693.1	12,314.8	11,911.0	27.9	21.9	-114.96		-1,004.6	-354.5	476.5	429.9	46.57	10.231
11,950.0	11,702.8	12,337.8	11,911.0	27.9	21.9	-114.44		-1,027.6	-354.3	472.1	425.6	46.49	10.156
11,975.0	11,711.4	12,361.3	11,911.0	27.9	21.9	-113.94		-1,051.1	-354.2	468.4	422.0	46.42	10.091
12,000.0	11,718.7	12,385.2	11,911.0	27.9	21.9	-113.49		-1,075.0	-354.0	465.4	419.0	46.38	10.035
12,025.0	11,724.7	12,409.4	11,911.0	28.0	22.0	-113.10		-1,099.3	-353.9	462.9	416.6	46.36	9.985
12,050.0	11,729.5	12,434.0	11,911.0	28.0	22.0	-112.77		-1,123.8	-353.7	461.0	414.7	46.38	9.941
12,075.0	11,732.9	12,458.7	11,911.0	28.0	22.0	-112.52		-1,148.6	-353.5	459.7	413.3	46.42	9.903
12,100.0	11,735.1	12,483.6	11,911.0	28.0	22.1	-112.37		-1,173.5	-353.4	458.9	412.4	46.49	9.871
12,125.0	11,736.0	12,508.6	11,911.0	28.0	22.1	-112.30		-1,198.5	-353.2	458.5	412.0	46.58	9.843
12,129.1	11,736.0	12,512.7	11,911.0	28.0	22.1	-112.30		-1,202.5	-353.2	458.5	411.9	46.60	9.839
12,129.1	11,736.0	12,512.7	11,911.0	28.0	22.1	-112.30		-1,202.5	-353.2	458.5	411.9	46.60	9.839
12,200.0	11,736.0	12,583.6	11,911.0	28.1	22.2	-112.30		-1,273.5	-352.7	458.5	411.6	46.94	9.769
12,300.0	11,736.0	12,683.6	11,911.0	28.2	22.3	-112.30		-1,373.5	-352.1	458.5	411.1	47.46	9.662
12,400.0	11,736.0	12,783.6	11,911.0	28.3	22.5	-112.30		-1,473.5	-351.4	458.5	410.5	48.02	9.549
12,500.0	11,736.0	12,883.6	11,911.0	28.4	22.7	-112.30		-1,573.5	-350.8	458.5	409.9	48.62	9.431
12,600.0	11,736.0	12,983.6	11,911.0	28.5	22.9	-112.30		-1,673.5	-350.1	458.5	409.3	49.26	9.308
12,700.0	11,736.0	13,083.6	11,911.0	28.7	23.2	-112.30		-1,773.5	-349.5	458.5	408.6	49.94	9.181

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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	
12,800.0	11,736.0	13,183.6	11,911.0	28.9	23.5	-112.30	-1,873.5	-348.8	458.5	407.9	50.66	9.051	
12,900.0	11,736.0	13,283.6	11,911.0	29.1	23.8	-112.30	-1,973.5	-348.2	458.5	407.1	51.41	8.919	
13,000.0	11,736.0	13,383.6	11,911.0	29.3	24.1	-112.30	-2,073.4	-347.5	458.5	406.3	52.19	8.785	
13,100.0	11,736.0	13,483.6	11,911.0	29.5	24.5	-112.30	-2,173.4	-346.9	458.5	405.5	53.01	8.650	
13,200.0	11,736.0	13,583.6	11,911.0	29.8	24.9	-112.30	-2,273.4	-346.2	458.5	404.7	53.86	8.514	
13,300.0	11,736.0	13,683.6	11,911.0	30.0	25.3	-112.30	-2,373.4	-345.6	458.5	403.8	54.73	8.378	
13,400.0	11,736.0	13,783.6	11,911.0	30.3	25.7	-112.30	-2,473.4	-344.9	458.5	402.9	55.63	8.242	
13,500.0	11,736.0	13,883.6	11,911.0	30.7	26.2	-112.30	-2,573.4	-344.2	458.5	402.0	56.56	8.107	
13,600.0	11,736.0	13,983.6	11,911.0	31.0	26.7	-112.30	-2,673.4	-343.6	458.5	401.0	57.52	7.972	
13,700.0	11,736.0	14,083.6	11,911.0	31.4	27.2	-112.30	-2,773.4	-342.9	458.5	400.0	58.49	7.839	
13,800.0	11,736.0	14,183.6	11,911.0	31.7	27.7	-112.30	-2,873.4	-342.3	458.5	399.0	59.49	7.707	
13,900.0	11,736.0	14,283.6	11,911.0	32.1	28.3	-112.30	-2,973.4	-341.6	458.5	398.0	60.51	7.577	
14,000.0	11,736.0	14,383.6	11,911.0	32.5	28.8	-112.30	-3,073.4	-341.0	458.5	397.0	61.56	7.449	
14,100.0	11,736.0	14,483.6	11,911.0	33.0	29.4	-112.30	-3,173.4	-340.3	458.5	395.9	62.62	7.323	
14,200.0	11,736.0	14,583.6	11,911.0	33.4	30.0	-112.30	-3,273.4	-339.7	458.5	394.8	63.70	7.199	
14,300.0	11,736.0	14,683.6	11,911.0	33.9	30.5	-112.30	-3,373.4	-339.0	458.5	393.7	64.79	7.077	
14,400.0	11,736.0	14,783.6	11,911.0	34.4	31.1	-112.30	-3,473.4	-338.4	458.5	392.6	65.91	6.957	
14,500.0	11,736.0	14,883.6	11,911.0	34.9	31.7	-112.30	-3,573.4	-337.7	458.5	391.5	67.04	6.840	
14,600.0	11,736.0	14,983.6	11,911.0	35.4	32.4	-112.30	-3,673.4	-337.1	458.5	390.4	68.18	6.725	
14,700.0	11,736.0	15,083.6	11,911.0	35.9	33.0	-112.30	-3,773.4	-336.4	458.5	389.2	69.34	6.613	
14,800.0	11,736.0	15,183.6	11,911.0	36.4	33.6	-112.30	-3,873.4	-335.8	458.5	388.0	70.51	6.503	
14,900.0	11,736.0	15,283.6	11,911.0	37.0	34.3	-112.30	-3,973.4	-335.1	458.5	386.8	71.69	6.396	
15,000.0	11,736.0	15,383.6	11,911.0	37.5	34.9	-112.30	-4,073.4	-334.5	458.5	385.7	72.89	6.291	
15,100.0	11,736.0	15,483.6	11,911.0	38.1	35.5	-112.30	-4,173.4	-333.8	458.5	384.4	74.10	6.188	
15,200.0	11,736.0	15,583.6	11,911.0	38.7	36.2	-112.30	-4,273.4	-333.2	458.5	383.2	75.32	6.088	
15,300.0	11,736.0	15,683.6	11,911.0	39.2	36.9	-112.30	-4,373.4	-332.5	458.5	382.0	76.55	5.990	
15,400.0	11,736.0	15,783.6	11,911.0	39.8	37.5	-112.30	-4,473.4	-331.9	458.5	380.8	77.79	5.895	
15,500.0	11,736.0	15,883.6	11,911.0	40.4	38.2	-112.30	-4,573.4	-331.2	458.5	379.5	79.03	5.802	
15,600.0	11,736.0	15,983.6	11,911.0	41.0	38.9	-112.30	-4,673.4	-330.6	458.5	378.3	80.29	5.711	
15,700.0	11,736.0	16,083.6	11,911.0	41.7	39.5	-112.30	-4,773.4	-329.9	458.5	377.0	81.56	5.622	
15,800.0	11,736.0	16,183.6	11,911.0	42.3	40.2	-112.30	-4,873.4	-329.3	458.5	375.7	82.83	5.536	
15,900.0	11,736.0	16,283.6	11,911.0	42.9	40.9	-112.30	-4,973.4	-328.6	458.5	374.4	84.12	5.451	
16,000.0	11,736.0	16,383.6	11,911.0	43.5	41.6	-112.30	-5,073.4	-328.0	458.5	373.1	85.41	5.369	
16,100.0	11,736.0	16,483.6	11,911.0	44.2	42.3	-112.30	-5,173.4	-327.3	458.5	371.8	86.71	5.289	
16,200.0	11,736.0	16,583.6	11,911.0	44.8	43.0	-112.30	-5,273.4	-326.7	458.5	370.5	88.01	5.210	
16,300.0	11,736.0	16,683.6	11,911.0	45.4	43.7	-112.30	-5,373.4	-326.0	458.5	369.2	89.32	5.134	
16,400.0	11,736.0	16,783.6	11,911.0	46.1	44.4	-112.30	-5,473.4	-325.4	458.5	367.9	90.64	5.059	
16,500.0	11,736.0	16,883.6	11,911.0	46.7	45.1	-112.30	-5,573.4	-324.7	458.6	366.6	91.96	4.986	
16,600.0	11,736.0	16,983.6	11,911.0	47.4	45.8	-112.30	-5,673.4	-324.1	458.6	365.3	93.29	4.915	
16,700.0	11,736.0	17,083.6	11,911.0	48.1	46.5	-112.30	-5,773.4	-323.4	458.6	363.9	94.62	4.846	
16,800.0	11,736.0	17,183.6	11,911.0	48.7	47.2	-112.30	-5,873.4	-322.7	458.6	362.6	95.96	4.778	
16,900.0	11,736.0	17,283.6	11,911.0	49.4	47.9	-112.30	-5,973.4	-322.1	458.6	361.2	97.31	4.712	
17,000.0	11,736.0	17,383.6	11,911.0	50.1	48.6	-112.30	-6,073.4	-321.4	458.6	359.9	98.66	4.648	
17,100.0	11,736.0	17,483.6	11,911.0	50.7	49.3	-112.30	-6,173.4	-320.8	458.6	358.5	100.01	4.585	
17,200.0	11,736.0	17,583.6	11,911.0	51.4	50.0	-112.30	-6,273.4	-320.1	458.6	357.2	101.37	4.523	
17,300.0	11,736.0	17,683.6	11,911.0	52.1	50.7	-112.30	-6,373.4	-319.5	458.6	355.8	102.73	4.463	
17,400.0	11,736.0	17,783.6	11,911.0	52.8	51.4	-112.30	-6,473.4	-318.8	458.6	354.5	104.10	4.405	
17,500.0	11,736.0	17,883.6	11,911.0	53.4	52.2	-112.30	-6,573.4	-318.2	458.6	353.1	105.47	4.348	
17,600.0	11,736.0	17,983.6	11,911.0	54.1	52.9	-112.30	-6,673.4	-317.5	458.6	351.7	106.85	4.292	
17,700.0	11,736.0	18,083.6	11,911.0	54.8	53.6	-112.30	-6,773.3	-316.9	458.6	350.3	108.23	4.237	
17,800.0	11,736.0	18,183.6	11,911.0	55.5	54.3	-112.30	-6,873.3	-316.2	458.6	348.9	109.61	4.184	
17,900.0	11,736.0	18,283.6	11,911.0	56.2	55.0	-112.30	-6,973.3	-315.6	458.6	347.6	110.99	4.131	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,000.0	11,736.0	18,383.6	11,911.0	56.9	55.8	-112.30	-7,073.3	-314.9	458.6	346.2	112.38	4.080	
18,100.0	11,736.0	18,483.6	11,911.0	57.6	56.5	-112.30	-7,173.3	-314.3	458.6	344.8	113.77	4.030	
18,200.0	11,736.0	18,583.6	11,911.0	58.3	57.2	-112.30	-7,273.3	-313.6	458.6	343.4	115.17	3.982	
18,300.0	11,736.0	18,683.6	11,911.0	59.0	57.9	-112.30	-7,373.3	-313.0	458.6	342.0	116.57	3.934	
18,400.0	11,736.0	18,783.6	11,911.0	59.7	58.7	-112.30	-7,473.3	-312.3	458.6	340.6	117.97	3.887	
18,500.0	11,736.0	18,883.6	11,911.0	60.4	59.4	-112.30	-7,573.3	-311.7	458.6	339.2	119.37	3.841	
18,600.0	11,736.0	18,983.6	11,911.0	61.1	60.1	-112.30	-7,673.3	-311.0	458.6	337.8	120.78	3.797	
18,700.0	11,736.0	19,083.6	11,911.0	61.8	60.8	-112.30	-7,773.3	-310.4	458.6	336.4	122.18	3.753	
18,800.0	11,736.0	19,183.6	11,911.0	62.5	61.6	-112.30	-7,873.3	-309.7	458.6	335.0	123.60	3.710	
18,900.0	11,736.0	19,283.6	11,911.0	63.2	62.3	-112.30	-7,973.3	-309.1	458.6	333.6	125.01	3.668	
19,000.0	11,736.0	19,383.6	11,911.0	63.9	63.0	-112.30	-8,073.3	-308.4	458.6	332.1	126.42	3.627	
19,100.0	11,736.0	19,483.6	11,911.0	64.6	63.8	-112.30	-8,173.3	-307.8	458.6	330.7	127.84	3.587	
19,200.0	11,736.0	19,583.6	11,911.0	65.4	64.5	-112.30	-8,273.3	-307.1	458.6	329.3	129.26	3.548	
19,300.0	11,736.0	19,683.6	11,911.0	66.1	65.2	-112.30	-8,373.3	-306.5	458.6	327.9	130.68	3.509	
19,400.0	11,736.0	19,783.6	11,911.0	66.8	66.0	-112.30	-8,473.3	-305.8	458.6	326.5	132.11	3.471	
19,500.0	11,736.0	19,883.6	11,911.0	67.5	66.7	-112.30	-8,573.3	-305.2	458.6	325.0	133.53	3.434	
19,600.0	11,736.0	19,983.6	11,911.0	68.2	67.4	-112.30	-8,673.3	-304.5	458.6	323.6	134.96	3.398	
19,700.0	11,736.0	20,083.6	11,911.0	68.9	68.2	-112.30	-8,773.3	-303.9	458.6	322.2	136.39	3.362	
19,800.0	11,736.0	20,183.6	11,911.0	69.7	68.9	-112.30	-8,873.3	-303.2	458.6	320.7	137.82	3.327	
19,900.0	11,736.0	20,283.6	11,911.0	70.4	69.7	-112.30	-8,973.3	-302.6	458.6	319.3	139.25	3.293	
20,000.0	11,736.0	20,383.6	11,911.0	71.1	70.4	-112.30	-9,073.3	-301.9	458.6	317.9	140.69	3.259	
20,100.0	11,736.0	20,483.6	11,911.0	71.8	71.1	-112.30	-9,173.3	-301.2	458.6	316.4	142.12	3.227	
20,200.0	11,736.0	20,583.6	11,911.0	72.5	71.9	-112.30	-9,273.3	-300.6	458.6	315.0	143.56	3.194	
20,300.0	11,736.0	20,683.6	11,911.0	73.3	72.6	-112.30	-9,373.3	-299.9	458.6	313.6	145.00	3.163	
20,400.0	11,736.0	20,783.6	11,911.0	74.0	73.4	-112.30	-9,473.3	-299.3	458.6	312.1	146.44	3.131	
20,500.0	11,736.0	20,883.6	11,911.0	74.7	74.1	-112.30	-9,573.3	-298.6	458.6	310.7	147.88	3.101	
20,600.0	11,736.0	20,983.6	11,911.0	75.5	74.8	-112.30	-9,673.3	-298.0	458.6	309.2	149.33	3.071	
20,700.0	11,736.0	21,083.6	11,911.0	76.2	75.6	-112.30	-9,773.3	-297.3	458.6	307.8	150.77	3.041	
20,800.0	11,736.0	21,183.6	11,911.0	76.9	76.3	-112.30	-9,873.3	-296.7	458.6	306.4	152.22	3.013	
20,900.0	11,736.0	21,283.6	11,911.0	77.6	77.1	-112.30	-9,973.3	-296.0	458.6	304.9	153.66	2.984	
20,975.9	11,736.0	21,359.5	11,911.0	78.2	77.6	-112.30	-10,049.2	-295.5	458.6	303.8	154.76	2.963	
21,000.0	11,736.0	21,383.6	11,911.0	78.4	77.8	-112.30	-10,073.3	-295.4	458.6	303.5	155.11	2.956	
21,026.0	11,736.0	21,409.5	11,911.0	78.5	78.0	-112.30	-10,099.2	-295.2	458.6	303.1	155.48	2.949 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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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	2.0	2.0	3.0	3.0	123.90	-33.6	50.0	60.2	53.3	6.98	8.629	
100.0	100.0	102.0	102.0	3.1	3.1	123.90	-33.6	50.0	60.2	53.0	7.23	8.335	
200.0	200.0	202.0	202.0	3.2	3.3	123.90	-33.6	50.0	60.2	52.8	7.47	8.069	
300.0	300.0	302.0	302.0	3.4	3.4	123.90	-33.6	50.0	60.2	52.5	7.70	7.826	
400.0	400.0	402.0	402.0	3.5	3.5	123.90	-33.6	50.0	60.2	52.3	7.92	7.603	
500.0	500.0	502.0	502.0	3.6	3.6	123.90	-33.6	50.0	60.2	52.1	8.14	7.397	
600.0	600.0	602.0	602.0	3.7	3.7	123.90	-33.6	50.0	60.2	51.9	8.36	7.205	
700.0	700.0	702.0	702.0	3.9	3.9	123.90	-33.6	50.0	60.2	51.7	8.57	7.027	
800.0	800.0	802.0	802.0	4.0	4.0	123.90	-33.6	50.0	60.2	51.5	8.78	6.860	
900.0	900.0	902.0	902.0	4.1	4.1	123.90	-33.6	50.0	60.2	51.3	8.99	6.704	
1,000.0	1,000.0	1,002.0	1,002.0	4.2	4.2	123.90	-33.6	50.0	60.2	51.1	9.19	6.557	
1,100.0	1,100.0	1,102.0	1,102.0	4.3	4.3	123.90	-33.6	50.0	60.2	50.9	9.39	6.419	
1,200.0	1,200.0	1,202.0	1,202.0	4.5	4.5	123.90	-33.6	50.0	60.2	50.7	9.58	6.288	
1,300.0	1,300.0	1,302.0	1,302.0	4.6	4.6	123.90	-33.6	50.0	60.2	50.5	9.77	6.164	
1,400.0	1,400.0	1,402.0	1,402.0	4.7	4.7	123.90	-33.6	50.0	60.2	50.3	9.96	6.046	
1,500.0	1,500.0	1,502.0	1,502.0	4.8	4.8	123.90	-33.6	50.0	60.2	50.2	10.02	6.010 CC, ES	
1,600.0	1,600.0	1,602.0	1,602.0	5.0	5.0	-104.70	-33.6	50.0	60.7	50.6	10.07	6.026	
1,700.0	1,699.8	1,701.8	1,701.8	5.2	5.1	-109.33	-33.6	50.0	62.2	51.9	10.34	6.013	
1,800.0	1,799.5	1,801.5	1,801.5	5.5	5.3	-116.45	-33.6	50.0	65.6	55.0	10.64	6.168	
1,900.0	1,898.7	1,900.7	1,900.7	5.7	5.4	-125.03	-33.6	50.0	71.9	60.9	10.99	6.542	
2,000.0	1,997.5	1,999.5	1,999.5	6.0	5.6	-133.82	-33.6	50.0	81.9	70.5	11.43	7.166	
2,100.0	2,095.6	2,097.6	2,097.6	6.4	5.7	-141.81	-33.6	50.0	96.2	84.3	11.96	8.046	
2,200.0	2,193.1	2,195.1	2,195.1	6.7	5.8	-148.52	-33.6	50.0	114.9	102.3	12.54	9.163	
2,300.0	2,290.1	2,292.1	2,292.1	7.0	6.0	-153.81	-33.6	50.0	136.2	123.2	13.07	10.425	
2,400.0	2,387.1	2,389.1	2,389.1	7.4	6.1	-157.66	-33.6	50.0	158.4	144.8	13.59	11.651	
2,500.0	2,484.1	2,486.1	2,486.1	7.7	6.2	-160.56	-33.6	50.0	181.1	167.0	14.13	12.819	
2,600.0	2,581.2	2,583.2	2,583.2	8.1	6.3	-162.81	-33.6	50.0	204.1	189.5	14.67	13.919	
2,700.0	2,678.2	2,680.2	2,680.2	8.4	6.4	-164.61	-33.6	50.0	227.4	212.2	15.21	14.950	
2,800.0	2,775.2	2,777.2	2,777.2	8.8	6.6	-166.08	-33.6	50.0	250.9	235.1	15.77	15.911	
2,900.0	2,872.3	2,874.3	2,874.3	9.2	6.7	-167.29	-33.6	50.0	274.4	258.1	16.33	16.806	
3,000.0	2,969.3	2,971.3	2,971.3	9.6	6.8	-168.31	-33.6	50.0	298.1	281.2	16.90	17.639	
3,100.0	3,066.3	3,068.3	3,068.3	10.0	6.9	-169.18	-33.6	50.0	321.9	304.4	17.48	18.413	
3,200.0	3,163.4	3,165.4	3,165.4	10.4	7.0	-169.93	-33.6	50.0	345.7	327.6	18.07	19.134	
3,300.0	3,260.4	3,262.4	3,262.4	10.9	7.2	-170.59	-33.6	50.0	369.6	350.9	18.66	19.805	
3,400.0	3,357.4	3,359.4	3,359.4	11.3	7.3	-171.17	-33.6	50.0	393.5	374.2	19.26	20.429	
3,500.0	3,454.4	3,456.4	3,456.4	11.7	7.4	-171.68	-33.6	50.0	417.4	397.5	19.86	21.012	
3,600.0	3,551.5	3,553.5	3,553.5	12.2	7.5	-172.13	-33.6	50.0	441.4	420.9	20.48	21.556	
3,700.0	3,648.5	3,650.5	3,650.5	12.6	7.6	-172.54	-33.6	50.0	465.3	444.3	21.09	22.064	
3,800.0	3,745.5	3,747.5	3,747.5	13.0	7.7	-172.90	-33.6	50.0	489.4	467.6	21.71	22.539	
3,900.0	3,842.6	3,844.6	3,844.6	13.5	7.8	-173.24	-33.6	50.0	513.4	491.0	22.34	22.985	
4,000.0	3,939.6	3,941.6	3,941.6	13.9	7.9	-173.54	-33.6	50.0	537.4	514.5	22.96	23.402	
4,100.0	4,036.6	4,038.6	4,038.6	14.4	8.0	-173.82	-33.6	50.0	561.5	537.9	23.60	23.795	
4,200.0	4,133.6	4,135.6	4,135.6	14.9	8.2	-174.07	-33.6	50.0	585.5	561.3	24.23	24.164	
4,300.0	4,230.7	4,232.7	4,232.7	15.3	8.3	-174.31	-33.6	50.0	609.6	584.7	24.87	24.512	
4,400.0	4,327.7	4,329.7	4,329.7	15.8	8.4	-174.53	-33.6	50.0	633.7	608.2	25.51	24.839	
4,500.0	4,424.7	4,426.7	4,426.7	16.2	8.5	-174.73	-33.6	50.0	657.8	631.6	26.16	25.149	
4,600.0	4,521.8	4,523.8	4,523.8	16.7	8.6	-174.91	-33.6	50.0	681.9	655.1	26.80	25.441	
4,700.0	4,618.8	4,620.8	4,620.8	17.2	8.7	-175.09	-33.6	50.0	706.0	678.5	27.45	25.717	
4,800.0	4,715.8	4,717.8	4,717.8	17.6	8.8	-175.25	-33.6	50.0	730.1	702.0	28.10	25.979	
4,900.0	4,812.9	4,814.9	4,814.9	18.1	8.9	-175.40	-33.6	50.0	754.2	725.5	28.76	26.228	
5,000.0	4,909.9	4,911.9	4,911.9	18.6	9.0	-175.54	-33.6	50.0	778.3	748.9	29.41	26.464	
5,100.0	5,006.9	5,008.9	5,008.9	19.0	9.1	-175.68	-33.6	50.0	802.5	772.4	30.07	26.688	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,103.9	5,105.9	5,105.9	19.5	9.2	-175.81	-33.6	50.0	826.6	795.9	30.73	26.901	
5,300.0	5,201.0	5,203.0	5,203.0	20.0	9.3	-175.92	-33.6	50.0	850.7	819.3	31.39	27.104	
5,400.0	5,298.0	5,300.0	5,300.0	20.5	9.4	-176.04	-33.6	50.0	874.9	842.8	32.05	27.297	
5,500.0	5,395.0	5,397.0	5,397.0	20.9	9.5	-176.14	-33.6	50.0	899.0	866.3	32.71	27.482	
5,556.1	5,449.5	5,451.5	5,451.5	21.2	9.6	-176.20	-33.6	50.0	912.6	879.5	33.07	27.591	
5,600.0	5,492.1	5,494.1	5,494.1	21.4	9.6	-176.25	-33.6	50.0	923.0	889.6	33.35	27.673	
5,700.0	5,589.5	5,591.5	5,591.5	21.9	9.7	-176.36	-33.6	50.0	945.5	911.5	34.01	27.801	
5,800.0	5,687.3	5,689.3	5,689.3	22.3	9.8	-176.45	-33.6	50.0	966.4	931.7	34.66	27.882	
5,900.0	5,785.4	5,787.4	5,787.4	22.8	9.9	-176.53	-33.6	50.0	985.5	950.2	35.30	27.918	
11,379.1	11,258.5	12,221.1	11,737.0	27.7	16.0	-89.63	-722.3	67.7	972.9	928.7	44.21	22.009	
11,400.0	11,279.5	12,221.5	11,737.0	27.7	16.0	-91.35	-722.8	67.7	962.8	918.9	43.91	21.929	
11,425.0	11,304.4	12,223.3	11,737.0	27.7	16.1	-92.79	-724.5	67.8	951.3	907.6	43.70	21.767	
11,450.0	11,329.2	12,226.3	11,737.0	27.7	16.1	-94.05	-727.6	67.8	940.3	896.8	43.50	21.618	
11,475.0	11,353.8	12,230.7	11,737.0	27.7	16.1	-95.12	-731.9	67.8	930.0	886.7	43.29	21.483	
11,500.0	11,378.2	12,236.3	11,737.0	27.7	16.1	-96.02	-737.5	67.8	920.3	877.2	43.08	21.360	
11,525.0	11,402.2	12,243.2	11,737.0	27.7	16.1	-96.73	-744.4	67.9	911.2	868.3	42.88	21.250	
11,550.0	11,425.8	12,251.3	11,737.0	27.7	16.1	-97.28	-752.6	67.9	902.9	860.2	42.68	21.153	
11,575.0	11,449.0	12,260.7	11,737.0	27.7	16.2	-97.66	-762.0	68.0	895.2	852.7	42.49	21.068	
11,600.0	11,471.7	12,271.3	11,737.0	27.7	16.2	-97.89	-772.5	68.1	888.2	845.9	42.31	20.993	
11,625.0	11,493.7	12,283.0	11,737.0	27.7	16.2	-97.98	-784.3	68.1	881.9	839.8	42.14	20.929	
11,650.0	11,515.2	12,295.9	11,737.0	27.7	16.3	-97.93	-797.1	68.2	876.3	834.3	41.98	20.874	
11,675.0	11,535.9	12,309.9	11,737.0	27.8	16.3	-97.76	-811.1	68.3	871.3	829.5	41.84	20.826	
11,700.0	11,555.8	12,324.9	11,737.0	27.8	16.3	-97.49	-826.2	68.4	867.0	825.3	41.71	20.784	
11,725.0	11,575.0	12,341.0	11,737.0	27.8	16.4	-97.13	-842.2	68.5	863.2	821.6	41.61	20.747	
11,750.0	11,593.3	12,358.0	11,737.0	27.8	16.5	-96.68	-859.3	68.6	860.0	818.5	41.52	20.715	
11,775.0	11,610.6	12,376.0	11,737.0	27.8	16.5	-96.17	-877.3	68.8	857.3	815.9	41.45	20.686	
11,800.0	11,627.0	12,394.9	11,737.0	27.8	16.6	-95.61	-896.2	68.9	855.1	813.7	41.39	20.659	
11,825.0	11,642.4	12,414.6	11,737.0	27.8	16.6	-95.02	-915.9	69.0	853.3	811.9	41.36	20.631	
11,850.0	11,656.7	12,435.1	11,737.0	27.8	16.7	-94.40	-936.3	69.1	851.9	810.5	41.35	20.603	
11,875.0	11,670.0	12,456.3	11,737.0	27.9	16.8	-93.78	-957.5	69.3	850.8	809.4	41.35	20.574	
11,900.0	11,682.1	12,478.1	11,737.0	27.9	16.9	-93.17	-979.4	69.4	849.9	808.5	41.37	20.543	
11,925.0	11,693.1	12,500.6	11,737.0	27.9	16.9	-92.58	-1,001.9	69.6	849.3	807.9	41.41	20.511	
11,950.0	11,702.8	12,523.6	11,737.0	27.9	17.0	-92.02	-1,024.9	69.7	848.9	807.4	41.46	20.473	
11,975.0	11,711.4	12,547.1	11,737.0	27.9	17.1	-91.51	-1,048.4	69.9	848.6	807.1	41.53	20.432	
12,000.0	11,718.7	12,571.0	11,737.0	27.9	17.2	-91.06	-1,072.3	70.0	848.4	806.8	41.61	20.388	
12,025.0	11,724.7	12,595.3	11,737.0	28.0	17.3	-90.68	-1,096.5	70.2	848.3	806.6	41.71	20.340	
12,050.0	11,729.5	12,619.8	11,737.0	28.0	17.4	-90.37	-1,121.1	70.3	848.3	806.5	41.82	20.286	
12,075.0	11,732.9	12,644.6	11,737.0	28.0	17.5	-90.14	-1,145.8	70.5	848.3	806.3	41.94	20.228	
12,098.0	11,735.0	12,667.5	11,737.0	28.0	17.6	-90.00	-1,168.8	70.6	848.3	806.2	42.05	20.171	
12,100.0	11,735.1	12,669.5	11,737.0	28.0	17.6	-89.99	-1,170.7	70.7	848.3	806.2	42.06	20.166	
12,125.0	11,736.0	12,694.5	11,737.0	28.0	17.7	-89.93	-1,195.7	70.8	848.3	806.1	42.20	20.101	
12,129.1	11,736.0	12,698.5	11,737.0	28.0	17.7	-89.93	-1,199.8	70.9	848.3	806.0	42.22	20.090	
12,200.0	11,736.0	12,769.5	11,737.0	28.1	18.0	-89.93	-1,270.7	71.3	848.3	805.6	42.65	19.889	
12,300.0	11,736.0	12,869.5	11,737.0	28.2	18.4	-89.93	-1,370.7	72.0	848.3	805.0	43.30	19.592	
12,400.0	11,736.0	12,969.5	11,737.0	28.3	18.9	-89.93	-1,470.7	72.6	848.3	804.3	43.98	19.286	
12,500.0	11,736.0	13,069.5	11,737.0	28.4	19.3	-89.93	-1,570.7	73.3	848.3	803.6	44.71	18.971	
12,600.0	11,736.0	13,169.5	11,737.0	28.5	19.8	-89.93	-1,670.7	73.9	848.3	802.8	45.48	18.651	
12,700.0	11,736.0	13,269.5	11,737.0	28.7	20.3	-89.93	-1,770.7	74.6	848.3	802.0	46.28	18.327	
12,800.0	11,736.0	13,369.5	11,737.0	28.9	20.9	-89.93	-1,870.7	75.2	848.3	801.1	47.12	18.001	
12,900.0	11,736.0	13,469.5	11,737.0	29.1	21.4	-89.93	-1,970.7	75.9	848.3	800.3	48.00	17.674	
13,000.0	11,736.0	13,569.5	11,737.0	29.3	22.0	-89.93	-2,070.7	76.5	848.3	799.4	48.90	17.348	
13,100.0	11,736.0	13,669.5	11,737.0	29.5	22.5	-89.93	-2,170.7	77.2	848.3	798.4	49.83	17.023	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,200.0	11,736.0	13,769.5	11,737.0	29.8	23.1	-89.93	-2,270.7	77.8	848.3	797.5	50.79	16.701	
13,300.0	11,736.0	13,869.5	11,737.0	30.0	23.7	-89.93	-2,370.7	78.5	848.3	796.5	51.78	16.383	
13,400.0	11,736.0	13,969.5	11,737.0	30.3	24.3	-89.93	-2,470.7	79.1	848.3	795.5	52.79	16.069	
13,500.0	11,736.0	14,069.5	11,737.0	30.7	24.9	-89.93	-2,570.7	79.8	848.3	794.4	53.82	15.760	
13,600.0	11,736.0	14,169.5	11,737.0	31.0	25.5	-89.93	-2,670.7	80.4	848.3	793.4	54.88	15.457	
13,700.0	11,736.0	14,269.5	11,737.0	31.4	26.1	-89.93	-2,770.7	81.1	848.3	792.3	55.96	15.159	
13,800.0	11,736.0	14,369.5	11,737.0	31.7	26.8	-89.93	-2,870.7	81.7	848.3	791.2	57.06	14.868	
13,900.0	11,736.0	14,469.5	11,737.0	32.1	27.4	-89.93	-2,970.7	82.4	848.3	790.1	58.17	14.582	
14,000.0	11,736.0	14,569.5	11,737.0	32.5	28.0	-89.93	-3,070.7	83.0	848.3	789.0	59.30	14.304	
14,100.0	11,736.0	14,669.5	11,737.0	33.0	28.7	-89.93	-3,170.7	83.7	848.3	787.8	60.45	14.032	
14,200.0	11,736.0	14,769.5	11,737.0	33.4	29.3	-89.93	-3,270.7	84.3	848.3	786.7	61.62	13.767	
14,300.0	11,736.0	14,869.5	11,737.0	33.9	30.0	-89.93	-3,370.7	85.0	848.3	785.5	62.80	13.508	
14,400.0	11,736.0	14,969.5	11,737.0	34.4	30.7	-89.93	-3,470.7	85.6	848.3	784.3	63.99	13.256	
14,500.0	11,736.0	15,069.5	11,737.0	34.9	31.3	-89.93	-3,570.7	86.3	848.3	783.1	65.20	13.011	
14,600.0	11,736.0	15,169.5	11,737.0	35.4	32.0	-89.93	-3,670.7	86.9	848.3	781.9	66.42	12.772	
14,700.0	11,736.0	15,269.5	11,737.0	35.9	32.7	-89.93	-3,770.7	87.6	848.3	780.6	67.65	12.540	
14,800.0	11,736.0	15,369.5	11,737.0	36.4	33.4	-89.93	-3,870.7	88.2	848.3	779.4	68.89	12.314	
14,900.0	11,736.0	15,469.5	11,737.0	37.0	34.0	-89.93	-3,970.6	88.9	848.3	778.1	70.14	12.094	
15,000.0	11,736.0	15,569.5	11,737.0	37.5	34.7	-89.93	-4,070.6	89.5	848.3	776.9	71.40	11.880	
15,100.0	11,736.0	15,669.5	11,737.0	38.1	35.4	-89.93	-4,170.6	90.2	848.3	775.6	72.67	11.672	
15,200.0	11,736.0	15,769.5	11,737.0	38.7	36.1	-89.93	-4,270.6	90.8	848.3	774.3	73.95	11.470	
15,300.0	11,736.0	15,869.5	11,737.0	39.2	36.8	-89.93	-4,370.6	91.5	848.3	773.0	75.24	11.274	
15,400.0	11,736.0	15,969.5	11,737.0	39.8	37.5	-89.93	-4,470.6	92.1	848.3	771.7	76.54	11.083	
15,500.0	11,736.0	16,069.5	11,737.0	40.4	38.2	-89.93	-4,570.6	92.8	848.3	770.4	77.84	10.897	
15,600.0	11,736.0	16,169.5	11,737.0	41.0	38.9	-89.93	-4,670.6	93.4	848.3	769.1	79.15	10.717	
15,700.0	11,736.0	16,269.5	11,737.0	41.7	39.6	-89.93	-4,770.6	94.1	848.3	767.8	80.47	10.541	
15,800.0	11,736.0	16,369.5	11,737.0	42.3	40.3	-89.93	-4,870.6	94.8	848.3	766.5	81.80	10.371	
15,900.0	11,736.0	16,469.5	11,737.0	42.9	41.0	-89.93	-4,970.6	95.4	848.3	765.1	83.13	10.204	
16,000.0	11,736.0	16,569.5	11,737.0	43.5	41.7	-89.93	-5,070.6	96.1	848.3	763.8	84.46	10.043	
16,100.0	11,736.0	16,669.5	11,737.0	44.2	42.5	-89.93	-5,170.6	96.7	848.3	762.5	85.81	9.886	
16,200.0	11,736.0	16,769.5	11,737.0	44.8	43.2	-89.93	-5,270.6	97.4	848.3	761.1	87.15	9.733	
16,300.0	11,736.0	16,869.5	11,737.0	45.4	43.9	-89.93	-5,370.6	98.0	848.3	759.8	88.51	9.584	
16,400.0	11,736.0	16,969.5	11,737.0	46.1	44.6	-89.93	-5,470.6	98.7	848.3	758.4	89.87	9.439	
16,500.0	11,736.0	17,069.5	11,737.0	46.7	45.3	-89.93	-5,570.6	99.3	848.3	757.0	91.23	9.298	
16,600.0	11,736.0	17,169.5	11,737.0	47.4	46.1	-89.93	-5,670.6	100.0	848.3	755.7	92.60	9.161	
16,700.0	11,736.0	17,269.5	11,737.0	48.1	46.8	-89.93	-5,770.6	100.6	848.3	754.3	93.97	9.027	
16,800.0	11,736.0	17,369.5	11,737.0	48.7	47.5	-89.93	-5,870.6	101.3	848.3	752.9	95.34	8.897	
16,900.0	11,736.0	17,469.5	11,737.0	49.4	48.2	-89.93	-5,970.6	101.9	848.3	751.6	96.72	8.770	
17,000.0	11,736.0	17,569.5	11,737.0	50.1	48.9	-89.93	-6,070.6	102.6	848.3	750.2	98.10	8.647	
17,100.0	11,736.0	17,669.5	11,737.0	50.7	49.7	-89.93	-6,170.6	103.2	848.3	748.8	99.49	8.526	
17,200.0	11,736.0	17,769.5	11,737.0	51.4	50.4	-89.93	-6,270.6	103.9	848.3	747.4	100.88	8.409	
17,300.0	11,736.0	17,869.5	11,737.0	52.1	51.1	-89.93	-6,370.6	104.5	848.3	746.0	102.27	8.294	
17,400.0	11,736.0	17,969.5	11,737.0	52.8	51.9	-89.93	-6,470.6	105.2	848.3	744.6	103.67	8.182	
17,500.0	11,736.0	18,069.5	11,737.0	53.4	52.6	-89.93	-6,570.6	105.8	848.3	743.2	105.07	8.073	
17,600.0	11,736.0	18,169.5	11,737.0	54.1	53.3	-89.93	-6,670.6	106.5	848.3	741.8	106.47	7.967	
17,700.0	11,736.0	18,269.5	11,737.0	54.8	54.1	-89.93	-6,770.6	107.1	848.3	740.4	107.88	7.863	
17,800.0	11,736.0	18,369.5	11,737.0	55.5	54.8	-89.93	-6,870.6	107.8	848.3	739.0	109.29	7.762	
17,900.0	11,736.0	18,469.5	11,737.0	56.2	55.5	-89.93	-6,970.6	108.4	848.3	737.6	110.70	7.663	
18,000.0	11,736.0	18,569.5	11,737.0	56.9	56.3	-89.93	-7,070.6	109.1	848.3	736.2	112.11	7.566	
18,100.0	11,736.0	18,669.5	11,737.0	57.6	57.0	-89.93	-7,170.6	109.7	848.3	734.7	113.53	7.472	
18,200.0	11,736.0	18,769.5	11,737.0	58.3	57.7	-89.93	-7,270.6	110.4	848.3	733.3	114.94	7.380	
18,300.0	11,736.0	18,869.5	11,737.0	59.0	58.5	-89.93	-7,370.6	111.0	848.3	731.9	116.36	7.290	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
18,400.0	11,736.0	18,969.5	11,737.0	59.7	59.2	-89.93	-7,470.6	111.7	848.3	730.5	117.79	7.202		
18,500.0	11,736.0	19,069.5	11,737.0	60.4	60.0	-89.93	-7,570.6	112.3	848.3	729.1	119.21	7.116		
18,600.0	11,736.0	19,169.5	11,737.0	61.1	60.7	-89.93	-7,670.6	113.0	848.3	727.6	120.64	7.032		
18,700.0	11,736.0	19,269.5	11,737.0	61.8	61.4	-89.93	-7,770.6	113.6	848.3	726.2	122.06	6.949		
18,800.0	11,736.0	19,369.5	11,737.0	62.5	62.2	-89.93	-7,870.6	114.3	848.3	724.8	123.49	6.869		
18,900.0	11,736.0	19,469.5	11,737.0	63.2	62.9	-89.93	-7,970.6	114.9	848.3	723.3	124.93	6.790		
19,000.0	11,736.0	19,569.5	11,737.0	63.9	63.7	-89.93	-8,070.6	115.6	848.3	721.9	126.36	6.713		
19,100.0	11,736.0	19,669.5	11,737.0	64.6	64.4	-89.93	-8,170.6	116.2	848.3	720.5	127.80	6.638		
19,200.0	11,736.0	19,769.5	11,737.0	65.4	65.1	-89.93	-8,270.6	116.9	848.3	719.0	129.23	6.564		
19,300.0	11,736.0	19,869.5	11,737.0	66.1	65.9	-89.93	-8,370.6	117.5	848.3	717.6	130.67	6.492		
19,400.0	11,736.0	19,969.5	11,737.0	66.8	66.6	-89.93	-8,470.6	118.2	848.3	716.2	132.11	6.421		
19,500.0	11,736.0	20,069.5	11,737.0	67.5	67.4	-89.93	-8,570.6	118.8	848.3	714.7	133.55	6.352		
19,600.0	11,736.0	20,169.5	11,737.0	68.2	68.1	-89.93	-8,670.5	119.5	848.3	713.3	134.99	6.284		
19,700.0	11,736.0	20,269.5	11,737.0	68.9	68.9	-89.93	-8,770.5	120.1	848.3	711.8	136.44	6.217		
19,800.0	11,736.0	20,369.5	11,737.0	69.7	69.6	-89.93	-8,870.5	120.8	848.3	710.4	137.88	6.152		
19,900.0	11,736.0	20,469.5	11,737.0	70.4	70.4	-89.93	-8,970.5	121.4	848.3	708.9	139.33	6.088		
20,000.0	11,736.0	20,569.5	11,737.0	71.1	71.1	-89.93	-9,070.5	122.1	848.3	707.5	140.78	6.026		
20,100.0	11,736.0	20,669.5	11,737.0	71.8	71.8	-89.93	-9,170.5	122.7	848.3	706.0	142.23	5.964		
20,200.0	11,736.0	20,769.5	11,737.0	72.5	72.6	-89.93	-9,270.5	123.4	848.3	704.6	143.68	5.904		
20,300.0	11,736.0	20,869.5	11,737.0	73.3	73.3	-89.93	-9,370.5	124.0	848.3	703.1	145.13	5.845		
20,400.0	11,736.0	20,969.5	11,737.0	74.0	74.1	-89.93	-9,470.5	124.7	848.3	701.7	146.58	5.787		
20,500.0	11,736.0	21,069.5	11,737.0	74.7	74.8	-89.93	-9,570.5	125.4	848.3	700.2	148.04	5.730		
20,600.0	11,736.0	21,169.5	11,737.0	75.5	75.6	-89.93	-9,670.5	126.0	848.3	698.8	149.49	5.674		
20,700.0	11,736.0	21,269.5	11,737.0	76.2	76.3	-89.93	-9,770.5	126.7	848.3	697.3	150.95	5.620		
20,800.0	11,736.0	21,369.5	11,737.0	76.9	77.1	-89.93	-9,870.5	127.3	848.3	695.9	152.40	5.566		
20,900.0	11,736.0	21,469.5	11,737.0	77.6	77.8	-89.93	-9,970.5	128.0	848.3	694.4	153.86	5.513		
20,975.9	11,736.0	21,545.4	11,737.0	78.2	78.4	-89.93	-10,046.5	128.4	848.3	693.3	154.97	5.474		
21,000.0	11,736.0	21,569.5	11,737.0	78.4	78.6	-89.93	-10,070.5	128.6	848.3	693.0	155.32	5.462		
21,026.0	11,736.0	21,595.4	11,737.0	78.5	78.8	-89.93	-10,096.5	128.8	848.3	692.6	155.69	5.448 SF		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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		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	2.0	2.0	3.0	3.0	123.81	-50.3	75.1	90.3	83.4	6.98	12.940	
100.0	100.0	102.0	102.0	3.1	3.1	123.81	-50.3	75.1	90.3	83.1	7.23	12.498	
200.0	200.0	202.0	202.0	3.2	3.3	123.81	-50.3	75.1	90.3	82.9	7.47	12.100	
300.0	300.0	302.0	302.0	3.4	3.4	123.81	-50.3	75.1	90.3	82.6	7.70	11.736	
400.0	400.0	402.0	402.0	3.5	3.5	123.81	-50.3	75.1	90.3	82.4	7.92	11.401	
500.0	500.0	502.0	502.0	3.6	3.6	123.81	-50.3	75.1	90.3	82.2	8.14	11.092	
600.0	600.0	602.0	602.0	3.7	3.7	123.81	-50.3	75.1	90.3	82.0	8.36	10.805	
700.0	700.0	702.0	702.0	3.9	3.9	123.81	-50.3	75.1	90.3	81.8	8.57	10.538	
800.0	800.0	802.0	802.0	4.0	4.0	123.81	-50.3	75.1	90.3	81.6	8.78	10.288	
900.0	900.0	902.0	902.0	4.1	4.1	123.81	-50.3	75.1	90.3	81.3	8.99	10.053	
1,000.0	1,000.0	1,002.0	1,002.0	4.2	4.2	123.81	-50.3	75.1	90.3	81.1	9.19	9.833	
1,100.0	1,100.0	1,102.0	1,102.0	4.3	4.3	123.81	-50.3	75.1	90.3	80.9	9.38	9.626	
1,200.0	1,200.0	1,202.0	1,202.0	4.5	4.5	123.81	-50.3	75.1	90.3	80.8	9.58	9.429	
1,300.0	1,300.0	1,302.0	1,302.0	4.6	4.6	123.81	-50.3	75.1	90.3	80.6	9.77	9.243	
1,400.0	1,400.0	1,402.0	1,402.0	4.7	4.7	123.81	-50.3	75.1	90.3	80.4	9.96	9.067	
1,466.0	1,466.0	1,468.0	1,468.0	4.8	4.8	123.81	-50.3	75.1	90.3	80.2	10.09	8.956 CC, ES, SF	
1,500.0	1,500.0	1,502.0	1,502.0	4.8	4.8	123.81	-50.3	75.1	90.3	80.3	10.02	9.014	
1,600.0	1,600.0	1,600.0	1,600.0	5.0	4.9	-104.91	-50.0	76.8	92.1	82.1	10.04	9.178	
1,700.0	1,699.8	1,696.4	1,696.3	5.2	5.1	-109.52	-49.4	81.7	97.8	87.4	10.39	9.415	
1,800.0	1,799.5	1,792.1	1,791.6	5.5	5.3	-115.95	-48.4	89.8	108.6	97.8	10.79	10.060	
1,900.0	1,898.7	1,886.0	1,884.9	5.7	5.5	-122.84	-47.1	100.8	125.4	114.2	11.27	11.134	
2,000.0	1,997.5	1,981.5	1,979.4	6.0	5.8	-129.32	-45.5	114.0	148.0	136.3	11.78	12.562	
2,100.0	2,095.6	2,076.5	2,073.5	6.4	6.0	-134.79	-43.9	127.1	174.6	162.2	12.36	14.128	
2,200.0	2,193.1	2,170.5	2,166.6	6.7	6.3	-139.32	-42.3	140.1	204.9	192.0	12.97	15.795	
2,300.0	2,290.1	2,263.9	2,259.0	7.0	6.6	-143.27	-40.7	153.0	237.7	224.1	13.58	17.508	
2,400.0	2,387.1	2,357.2	2,351.5	7.4	6.8	-146.27	-39.1	165.9	271.2	257.0	14.19	19.114	
2,500.0	2,484.1	2,450.6	2,443.9	7.7	7.1	-148.61	-37.5	178.8	305.3	290.4	14.82	20.598	
2,600.0	2,581.2	2,543.9	2,536.4	8.1	7.4	-150.49	-35.9	191.7	339.7	324.2	15.47	21.961	
2,700.0	2,678.2	2,637.3	2,628.8	8.4	7.8	-152.02	-34.4	204.6	374.3	358.2	16.13	23.210	
2,800.0	2,775.2	2,730.7	2,721.3	8.8	8.1	-153.30	-32.8	217.5	409.2	392.4	16.81	24.351	
2,900.0	2,872.3	2,824.0	2,813.7	9.2	8.4	-154.37	-31.2	230.4	444.3	426.8	17.49	25.393	
3,000.0	2,969.3	2,917.4	2,906.2	9.6	8.7	-155.29	-29.6	243.3	479.4	461.2	18.20	26.346	
3,100.0	3,066.3	3,010.7	2,998.6	10.0	9.1	-156.09	-28.0	256.2	514.6	495.7	18.91	27.218	
3,200.0	3,163.4	3,104.1	3,091.1	10.4	9.4	-156.78	-26.4	269.1	550.0	530.3	19.63	28.016	
3,300.0	3,260.4	3,197.5	3,183.5	10.9	9.8	-157.39	-24.9	282.0	585.3	565.0	20.36	28.748	
3,400.0	3,357.4	3,290.8	3,276.0	11.3	10.1	-157.93	-23.3	294.9	620.8	599.7	21.10	29.421	
3,500.0	3,454.4	3,384.2	3,368.4	11.7	10.5	-158.41	-21.7	307.8	656.2	634.4	21.85	30.041	
3,600.0	3,551.5	3,477.6	3,460.9	12.2	10.9	-158.84	-20.1	320.6	691.8	669.2	22.60	30.612	
3,700.0	3,648.5	3,570.9	3,553.4	12.6	11.2	-159.23	-18.5	333.5	727.3	703.9	23.36	31.140	
3,800.0	3,745.5	3,664.3	3,645.8	13.0	11.6	-159.59	-16.9	346.4	762.9	738.7	24.12	31.629	
3,900.0	3,842.6	3,757.6	3,738.3	13.5	12.0	-159.91	-15.4	359.3	798.5	773.6	24.89	32.083	
4,000.0	3,939.6	3,851.0	3,830.7	13.9	12.3	-160.20	-13.8	372.2	834.1	808.4	25.66	32.504	
4,100.0	4,036.6	3,944.4	3,923.2	14.4	12.7	-160.48	-12.2	385.1	869.7	843.3	26.44	32.897	
4,200.0	4,133.6	4,037.7	4,015.6	14.9	13.1	-160.73	-10.6	398.0	905.3	878.1	27.22	33.263	
4,300.0	4,230.7	4,131.1	4,108.1	15.3	13.5	-160.96	-9.0	410.9	941.0	913.0	28.00	33.604	
4,400.0	4,327.7	4,224.4	4,200.5	15.8	13.8	-161.17	-7.4	423.8	976.7	947.9	28.79	33.928	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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	2.0	2.0	3.0	3.0	123.82	-67.1	100.2	120.6	113.6	6.98	17.280	
100.0	100.0	102.0	102.0	3.1	3.1	123.82	-67.1	100.2	120.6	113.4	7.23	16.690	
200.0	200.0	202.0	202.0	3.2	3.3	123.82	-67.1	100.2	120.6	113.2	7.47	16.158	
300.0	300.0	302.0	302.0	3.4	3.4	123.82	-67.1	100.2	120.6	112.9	7.70	15.672	
400.0	400.0	402.0	402.0	3.5	3.5	123.82	-67.1	100.2	120.6	112.7	7.92	15.225	
500.0	500.0	502.0	502.0	3.6	3.6	123.82	-67.1	100.2	120.6	112.5	8.14	14.812	
600.0	600.0	602.0	602.0	3.7	3.7	123.82	-67.1	100.2	120.6	112.3	8.36	14.429	
700.0	700.0	702.0	702.0	3.9	3.9	123.82	-67.1	100.2	120.6	112.1	8.57	14.072	
800.0	800.0	802.0	802.0	4.0	4.0	123.82	-67.1	100.2	120.6	111.9	8.78	13.738	
900.0	900.0	902.0	902.0	4.1	4.1	123.82	-67.1	100.2	120.6	111.6	8.99	13.425	
1,000.0	1,000.0	1,002.0	1,002.0	4.2	4.2	123.82	-67.1	100.2	120.6	111.4	9.19	13.131	
1,100.0	1,100.0	1,102.0	1,102.0	4.3	4.3	123.82	-67.1	100.2	120.6	111.2	9.38	12.854	
1,200.0	1,200.0	1,202.0	1,202.0	4.5	4.5	123.82	-67.1	100.2	120.6	111.1	9.58	12.592	
1,300.0	1,300.0	1,302.0	1,302.0	4.6	4.6	123.82	-67.1	100.2	120.6	110.9	9.77	12.343	
1,400.0	1,400.0	1,402.0	1,402.0	4.7	4.7	123.82	-67.1	100.2	120.6	110.7	9.96	12.108	
1,466.0	1,466.0	1,468.0	1,468.0	4.8	4.8	123.82	-67.1	100.2	120.6	110.5	10.09	11.959 CC, ES, SF	
1,500.0	1,500.0	1,501.9	1,501.9	4.8	4.8	123.82	-67.1	100.2	120.6	110.6	10.02	12.037	
1,600.0	1,600.0	1,600.0	1,600.0	5.0	4.9	-104.44	-67.0	102.0	122.5	112.4	10.05	12.189	
1,700.0	1,699.8	1,694.7	1,694.5	5.2	5.1	-107.79	-66.7	106.8	128.1	117.7	10.40	12.318	
1,800.0	1,799.5	1,789.6	1,789.1	5.5	5.2	-112.70	-66.1	114.8	138.5	127.7	10.79	12.832	
1,900.0	1,898.7	1,882.7	1,881.6	5.7	5.5	-118.28	-65.4	125.7	154.4	143.2	11.24	13.745	
2,000.0	1,997.5	1,973.6	1,971.4	6.0	5.8	-123.77	-64.4	139.2	176.7	165.0	11.75	15.046	
2,100.0	2,095.6	2,061.7	2,058.1	6.4	6.1	-128.67	-63.3	155.0	205.6	193.3	12.31	16.711	
2,200.0	2,193.1	2,150.7	2,145.2	6.7	6.4	-132.98	-62.0	173.2	240.7	227.8	12.90	18.658	
2,300.0	2,290.1	2,241.7	2,234.2	7.0	6.7	-137.01	-60.7	192.1	278.4	264.9	13.49	20.645	
2,400.0	2,387.1	2,332.7	2,323.2	7.4	7.0	-140.09	-59.4	210.9	317.1	303.0	14.09	22.504	
2,500.0	2,484.1	2,423.7	2,412.2	7.7	7.3	-142.52	-58.1	229.8	356.4	341.7	14.72	24.218	
2,600.0	2,581.2	2,514.7	2,501.2	8.1	7.6	-144.46	-56.8	248.7	396.1	380.8	15.36	25.789	
2,700.0	2,678.2	2,605.7	2,590.3	8.4	7.9	-146.06	-55.4	267.6	436.2	420.2	16.02	27.223	
2,800.0	2,775.2	2,696.7	2,679.3	8.8	8.2	-147.39	-54.1	286.4	476.5	459.8	16.70	28.530	
2,900.0	2,872.3	2,787.7	2,768.3	9.2	8.6	-148.51	-52.8	305.3	517.0	499.6	17.40	29.719	
3,000.0	2,969.3	2,878.7	2,857.3	9.6	8.9	-149.47	-51.5	324.2	557.6	539.5	18.10	30.803	
3,100.0	3,066.3	2,969.7	2,946.3	10.0	9.3	-150.30	-50.2	343.0	598.3	579.5	18.82	31.791	
3,200.0	3,163.4	3,060.7	3,035.3	10.4	9.6	-151.03	-48.8	361.9	639.2	619.6	19.55	32.694	
3,300.0	3,260.4	3,151.7	3,124.3	10.9	10.0	-151.67	-47.5	380.8	680.1	659.8	20.29	33.519	
3,400.0	3,357.4	3,242.7	3,213.3	11.3	10.4	-152.24	-46.2	399.7	721.1	700.0	21.04	34.276	
3,500.0	3,454.4	3,333.7	3,302.3	11.7	10.8	-152.74	-44.9	418.5	762.1	740.3	21.79	34.970	
3,600.0	3,551.5	3,424.7	3,391.4	12.2	11.2	-153.20	-43.6	437.4	803.2	780.6	22.56	35.608	
3,700.0	3,648.5	3,515.7	3,480.4	12.6	11.5	-153.61	-42.2	456.3	844.3	820.9	23.32	36.197	
3,800.0	3,745.5	3,606.7	3,569.4	13.0	11.9	-153.98	-40.9	475.2	885.4	861.3	24.10	36.740	
3,900.0	3,842.6	3,697.7	3,658.4	13.5	12.3	-154.32	-39.6	494.0	926.6	901.7	24.88	37.243	
4,000.0	3,939.6	3,788.7	3,747.4	13.9	12.7	-154.63	-38.3	512.9	967.8	942.1	25.66	37.708	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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	3.0	3.0	3.0	3.0	123.79	-83.9	125.4	150.9	143.9	6.98	21.609	
100.0	100.0	103.0	103.0	3.1	3.1	123.79	-83.9	125.4	150.9	143.6	7.23	20.868	
200.0	200.0	203.0	203.0	3.2	3.3	123.79	-83.9	125.4	150.9	143.4	7.47	20.203	
300.0	300.0	303.0	303.0	3.4	3.4	123.79	-83.9	125.4	150.9	143.2	7.70	19.595	
400.0	400.0	403.0	403.0	3.5	3.5	123.79	-83.9	125.4	150.9	142.9	7.92	19.037	
500.0	500.0	503.0	503.0	3.6	3.6	123.79	-83.9	125.4	150.9	142.7	8.15	18.520	
600.0	600.0	603.0	603.0	3.7	3.7	123.79	-83.9	125.4	150.9	142.5	8.36	18.041	
700.0	700.0	703.0	703.0	3.9	3.9	123.79	-83.9	125.4	150.9	142.3	8.57	17.595	
800.0	800.0	803.0	803.0	4.0	4.0	123.79	-83.9	125.4	150.9	142.1	8.78	17.178	
900.0	900.0	903.0	903.0	4.1	4.1	123.79	-83.9	125.4	150.9	141.9	8.99	16.787	
1,000.0	1,000.0	1,003.0	1,003.0	4.2	4.2	123.79	-83.9	125.4	150.9	141.7	9.19	16.420	
1,100.0	1,100.0	1,103.0	1,103.0	4.3	4.3	123.79	-83.9	125.4	150.9	141.5	9.39	16.073	
1,200.0	1,200.0	1,203.0	1,203.0	4.5	4.5	123.79	-83.9	125.4	150.9	141.3	9.58	15.745	
1,300.0	1,300.0	1,303.0	1,303.0	4.6	4.6	123.79	-83.9	125.4	150.9	141.1	9.77	15.435	
1,400.0	1,400.0	1,403.0	1,403.0	4.7	4.7	123.79	-83.9	125.4	150.9	140.9	9.96	15.140	
1,465.6	1,465.6	1,468.6	1,468.6	4.8	4.8	123.79	-83.9	125.4	150.9	140.8	10.09	14.955 CC, ES, SF	
1,500.0	1,500.0	1,502.9	1,502.9	4.8	4.8	123.79	-83.9	125.4	150.9	140.8	10.02	15.050	
1,600.0	1,600.0	1,600.0	1,600.0	5.0	4.9	-104.18	-83.8	127.1	152.7	142.7	10.05	15.194	
1,700.0	1,699.8	1,693.9	1,693.7	5.2	5.0	-106.80	-83.7	131.9	158.4	148.0	10.41	15.217	
1,800.0	1,799.5	1,787.9	1,787.5	5.5	5.2	-110.73	-83.4	139.8	168.5	157.7	10.79	15.614	
1,900.0	1,898.7	1,880.3	1,879.2	5.7	5.5	-115.36	-83.0	150.6	183.9	172.7	11.22	16.391	
2,000.0	1,997.5	1,970.5	1,968.4	6.0	5.8	-120.12	-82.6	163.9	205.3	193.6	11.71	17.535	
2,100.0	2,095.6	2,058.0	2,054.5	6.4	6.1	-124.59	-82.0	179.5	232.9	220.7	12.24	19.029	
2,200.0	2,193.1	2,142.5	2,137.1	6.7	6.4	-128.51	-81.4	197.1	266.9	254.1	12.81	20.841	
2,300.0	2,290.1	2,226.9	2,219.2	7.0	6.7	-132.36	-80.7	216.9	306.0	292.6	13.37	22.885	
2,400.0	2,387.1	2,316.6	2,306.2	7.4	7.0	-135.57	-79.9	238.6	346.7	332.8	13.96	24.830	
2,500.0	2,484.1	2,406.4	2,393.3	7.7	7.3	-138.12	-79.2	260.3	388.2	373.6	14.58	26.626	
2,600.0	2,581.2	2,496.1	2,480.4	8.1	7.6	-140.19	-78.4	282.0	430.2	415.0	15.22	28.271	
2,700.0	2,678.2	2,585.8	2,567.4	8.4	7.9	-141.89	-77.7	303.7	472.6	456.8	15.88	29.771	
2,800.0	2,775.2	2,675.6	2,654.5	8.8	8.3	-143.32	-76.9	325.4	515.3	498.8	16.55	31.138	
2,900.0	2,872.3	2,765.3	2,741.6	9.2	8.6	-144.53	-76.2	347.1	558.2	541.0	17.24	32.381	
3,000.0	2,969.3	2,855.0	2,828.6	9.6	8.9	-145.57	-75.4	368.8	601.3	583.4	17.94	33.512	
3,100.0	3,066.3	2,944.8	2,915.7	10.0	9.3	-146.48	-74.6	390.5	644.6	625.9	18.66	34.543	
3,200.0	3,163.4	3,034.5	3,002.8	10.4	9.7	-147.26	-73.9	412.2	687.9	668.5	19.39	35.483	
3,300.0	3,260.4	3,124.2	3,089.8	10.9	10.0	-147.96	-73.1	433.9	731.4	711.3	20.13	36.341	
3,400.0	3,357.4	3,213.9	3,176.9	11.3	10.4	-148.58	-72.4	455.6	774.9	754.0	20.87	37.125	
3,500.0	3,454.4	3,303.7	3,264.0	11.7	10.8	-149.13	-71.6	477.3	818.5	796.9	21.63	37.845	
3,600.0	3,551.5	3,393.4	3,351.0	12.2	11.2	-149.63	-70.9	499.0	862.1	839.8	22.39	38.505	
3,700.0	3,648.5	3,483.1	3,438.1	12.6	11.6	-150.08	-70.1	520.6	905.8	882.7	23.16	39.112	
3,800.0	3,745.5	3,572.9	3,525.1	13.0	12.0	-150.49	-69.3	542.3	949.6	925.6	23.94	39.672	
3,900.0	3,842.6	3,662.6	3,612.2	13.5	12.4	-150.86	-68.6	564.0	993.3	968.6	24.72	40.189	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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
0.0	0.0	3.0	3.0	3.0	3.0	123.78	-100.7	150.5	181.1	174.1	6.98	25.937	
100.0	100.0	103.0	103.0	3.1	3.1	123.78	-100.7	150.5	181.1	173.8	7.23	25.048	
200.0	200.0	203.0	203.0	3.2	3.3	123.78	-100.7	150.5	181.1	173.6	7.47	24.249	
300.0	300.0	303.0	303.0	3.4	3.4	123.78	-100.7	150.5	181.1	173.4	7.70	23.520	
400.0	400.0	403.0	403.0	3.5	3.5	123.78	-100.7	150.5	181.1	173.1	7.92	22.849	
500.0	500.0	503.0	503.0	3.6	3.6	123.78	-100.7	150.5	181.1	172.9	8.15	22.230	
600.0	600.0	603.0	603.0	3.7	3.7	123.78	-100.7	150.5	181.1	172.7	8.36	21.655	
700.0	700.0	703.0	703.0	3.9	3.9	123.78	-100.7	150.5	181.1	172.5	8.57	21.119	
800.0	800.0	803.0	803.0	4.0	4.0	123.78	-100.7	150.5	181.1	172.3	8.78	20.619	
900.0	900.0	903.0	903.0	4.1	4.1	123.78	-100.7	150.5	181.1	172.1	8.99	20.149	
1,000.0	1,000.0	1,003.0	1,003.0	4.2	4.2	123.78	-100.7	150.5	181.1	171.9	9.19	19.708	
1,100.0	1,100.0	1,103.0	1,103.0	4.3	4.3	123.78	-100.7	150.5	181.1	171.7	9.39	19.292	
1,200.0	1,200.0	1,203.0	1,203.0	4.5	4.5	123.78	-100.7	150.5	181.1	171.5	9.58	18.899	
1,300.0	1,300.0	1,303.0	1,303.0	4.6	4.6	123.78	-100.7	150.5	181.1	171.3	9.77	18.526	
1,400.0	1,400.0	1,403.0	1,403.0	4.7	4.7	123.78	-100.7	150.5	181.1	171.1	9.96	18.172	
1,465.6	1,465.6	1,468.6	1,468.6	4.8	4.8	123.78	-100.7	150.5	181.1	171.0	10.09	17.951 CC, ES, SF	
1,500.0	1,500.0	1,502.9	1,502.9	4.8	4.8	123.78	-100.7	150.5	181.1	171.0	10.02	18.065	
1,600.0	1,600.0	1,600.0	1,600.0	5.0	4.9	-104.03	-100.6	152.2	182.9	172.9	10.05	18.194	
1,700.0	1,699.8	1,692.2	1,692.1	5.2	5.0	-106.15	-100.6	156.9	188.6	178.1	10.41	18.112	
1,800.0	1,799.5	1,785.5	1,785.0	5.5	5.2	-109.41	-100.4	164.7	198.5	187.7	10.79	18.395	
1,900.0	1,898.7	1,877.1	1,876.0	5.7	5.5	-113.36	-100.2	175.3	213.4	202.2	11.21	19.043	
2,000.0	1,997.5	1,966.5	1,964.5	6.0	5.8	-117.54	-100.0	188.4	234.0	222.3	11.67	20.044	
2,100.0	2,095.6	2,053.4	2,050.0	6.4	6.1	-121.60	-99.7	203.8	260.6	248.4	12.19	21.383	
2,200.0	2,193.1	2,137.4	2,132.1	6.7	6.4	-125.29	-99.4	221.1	293.4	280.7	12.74	23.033	
2,300.0	2,290.1	2,218.7	2,211.2	7.0	6.7	-128.96	-99.1	240.2	331.3	318.0	13.28	24.945	
2,400.0	2,387.1	2,300.0	2,289.6	7.4	7.0	-131.98	-98.7	261.5	373.0	359.1	13.85	26.930	
2,500.0	2,484.1	2,386.0	2,372.3	7.7	7.3	-134.58	-98.3	285.2	416.7	402.3	14.43	28.878	
2,600.0	2,581.2	2,474.3	2,457.2	8.1	7.6	-136.76	-97.9	309.5	461.1	446.0	15.06	30.621	
2,700.0	2,678.2	2,562.6	2,542.1	8.4	7.9	-138.56	-97.5	333.8	505.9	490.2	15.71	32.211	
2,800.0	2,775.2	2,650.9	2,627.0	8.8	8.2	-140.08	-97.0	358.2	551.1	534.8	16.37	33.659	
2,900.0	2,872.3	2,739.2	2,711.9	9.2	8.6	-141.37	-96.6	382.5	596.6	579.5	17.06	34.975	
3,000.0	2,969.3	2,827.5	2,796.8	9.6	8.9	-142.48	-96.2	406.8	642.3	624.5	17.76	36.171	
3,100.0	3,066.3	2,915.9	2,881.6	10.0	9.3	-143.44	-95.8	431.2	688.1	669.6	18.47	37.259	
3,200.0	3,163.4	3,004.2	2,966.5	10.4	9.7	-144.29	-95.3	455.5	734.0	714.9	19.19	38.250	
3,300.0	3,260.4	3,092.5	3,051.4	10.9	10.0	-145.03	-94.9	479.9	780.1	760.2	19.93	39.152	
3,400.0	3,357.4	3,180.8	3,136.3	11.3	10.4	-145.70	-94.5	504.2	826.3	805.6	20.67	39.975	
3,500.0	3,454.4	3,269.1	3,221.2	11.7	10.8	-146.29	-94.1	528.5	872.5	851.1	21.42	40.729	
3,600.0	3,551.5	3,357.4	3,306.1	12.2	11.2	-146.82	-93.6	552.9	918.9	896.7	22.18	41.420	
3,700.0	3,648.5	3,445.8	3,391.0	12.6	11.6	-147.31	-93.2	577.2	965.2	942.3	22.95	42.055	

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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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 @ 3173.0usft

Offset Depths are relative to Offset Datum

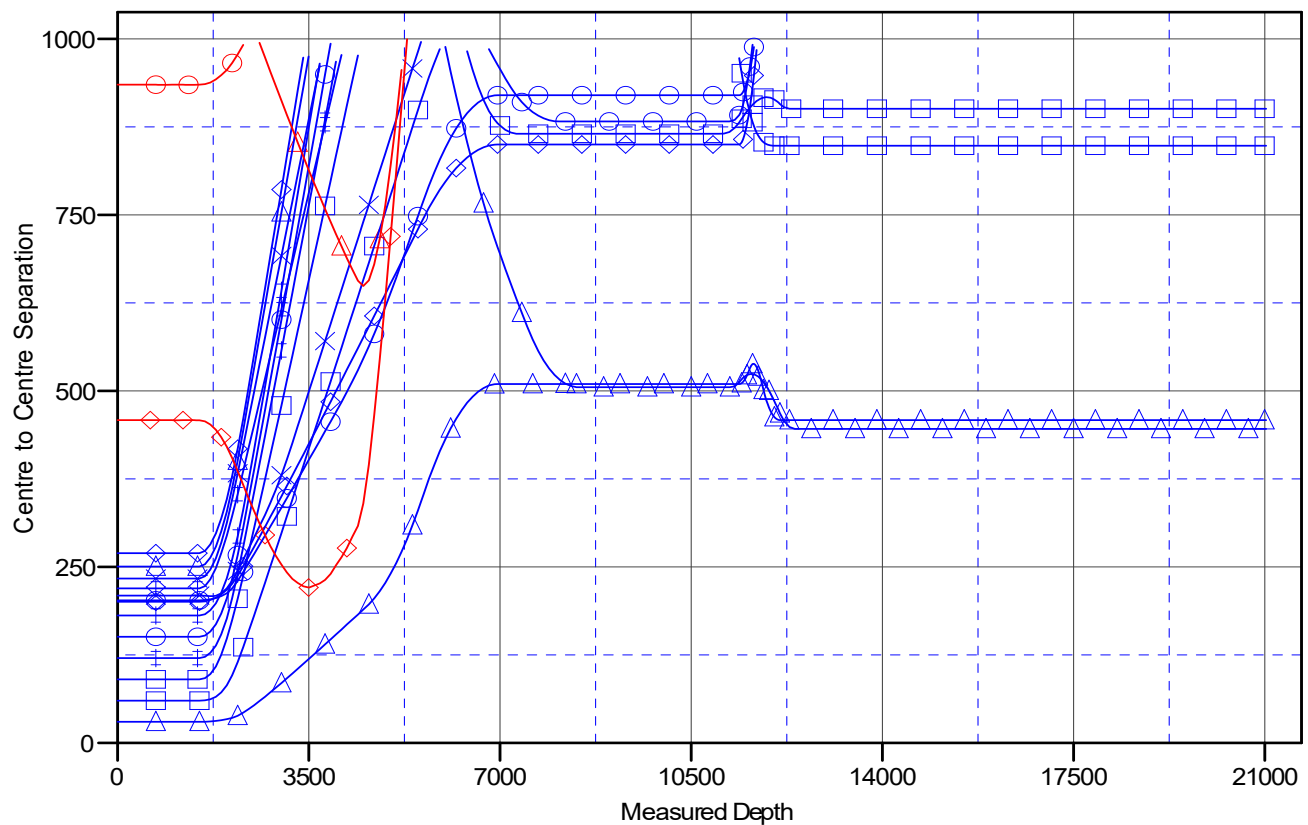
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #751H

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

Grid Convergence at Surface is: 0.33°

Ladder Plot



LEGEND

ZIA HILLS UNIT 2032 WC #751H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #709H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #716H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #751H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #708H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #708H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #751H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #702H, OWB, PWP0 V0	CONOCO FEDERAL #1, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #701H, OWB, PWP0 V0	RUSSELL FEDERAL #12, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	RUSSELL FEDERAL #6 (P&A), OWB, AWP V0
ZIA HILLS UNIT 2032 WC #707H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0	
ZIA HILLS UNIT 2032 WC #752H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #706H, OWB, PWP0 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 #751H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3173.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #751H	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

Reference Depths are relative to GL @ 3173.0usft

Offset Depths are relative to Offset Datum

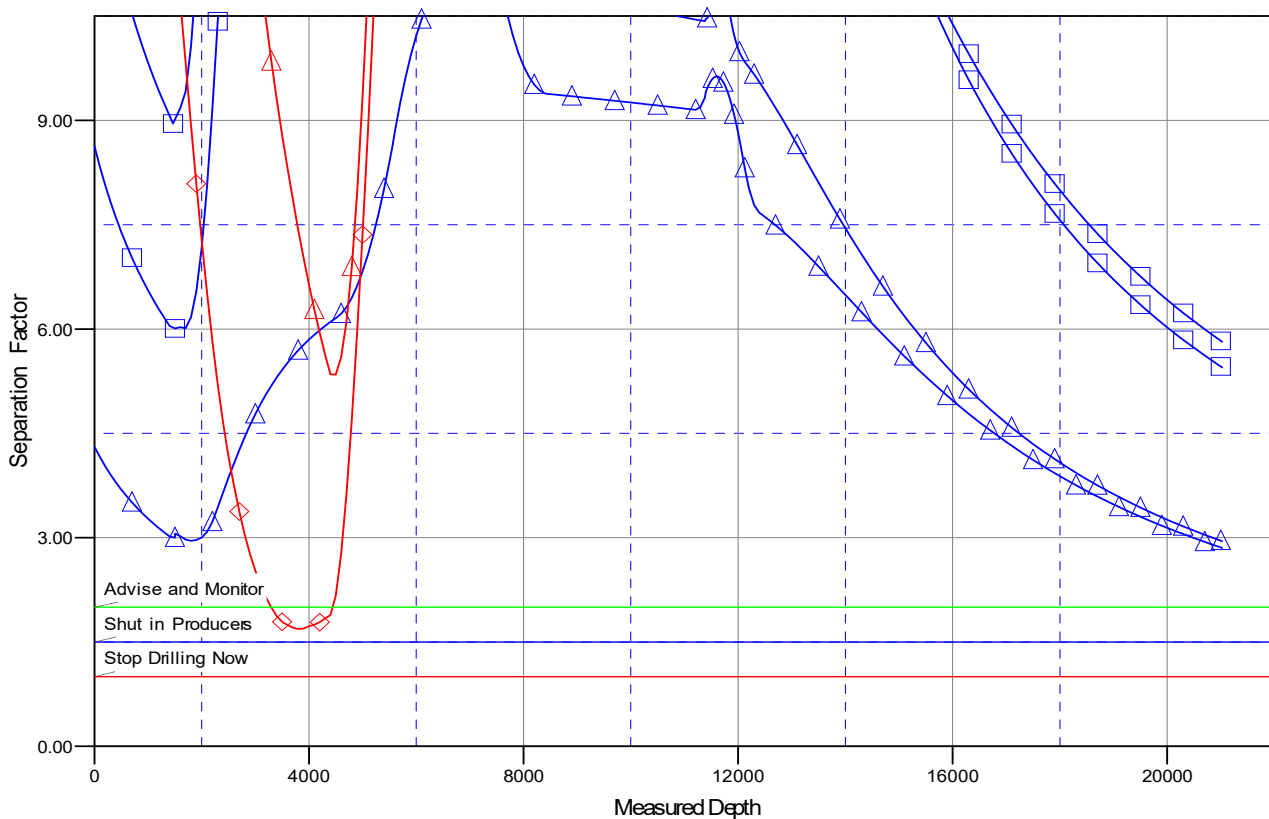
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #751H

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

Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND

ZIA HILLS UNIT 2032 WC #751H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #705H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #711H, OWB, PWPO V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #706H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #708H, OWB, PWPO V0
ZIA HILLS UNIT 2032 WC #753H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #702H, OWB, PWPO V0	CONOCO FEDERAL #1, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #701H, OWB, PWPO V0	RUSSELL FEDERAL #12, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWPO V0	RUSSELL FEDERAL #6 (P&A), OWB, AWP V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #704H, OWB, PWPO V0	
ZIA HILLS UNIT 2032 WC #754H, OWB, PWPO V0	ZIA HILLS UNIT 2032 WC #706H, OWB, PWPO V0	

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2032 PROJECT

ZIA HILLS UNIT 2032 WC #751H

OWB

Plan: PWP0

Standard Planning Report

25 January, 2023

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3173.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3173.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #751H	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 #751H		
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' 40.747 N
		Longitude:	103° 42' 10.047 W
		Ground Level:	3,173.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.33	59.53	47,265.04486599

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	184.07	

Plan Survey Tool Program	Date	1/25/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	1,500.0	PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp	
2	1,500.0	11,379.1	PWP0 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5	
3	11,379.1	21,026.0	PWP0 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3173.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3173.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #751H	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	
2,200.0	14.00	227.00	2,193.1	-58.0	-62.2	2.00	2.00	0.00	227.00	
5,556.1	14.00	227.00	5,449.5	-611.8	-656.0	0.00	0.00	0.00	0.00	
6,956.1	0.00	0.00	6,835.6	-727.8	-780.5	1.00	-1.00	0.00	180.00	
11,379.1	0.00	0.00	11,258.5	-727.8	-780.5	0.00	0.00	0.00	0.00	
12,129.1	90.00	179.63	11,736.0	-1,205.3	-777.4	12.00	12.00	23.95	179.63	
20,975.9	90.00	179.63	11,736.0	-10,052.0	-719.8	0.00	0.00	0.00	0.00	
21,026.0	90.00	179.63	11,736.0	-10,102.0	-719.5	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3173.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3173.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #751H	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	227.00	1,600.0	-1.2	-1.3	1.3	2.00	2.00	0.00
1,700.0	4.00	227.00	1,699.8	-4.8	-5.1	5.1	2.00	2.00	0.00
1,800.0	6.00	227.00	1,799.5	-10.7	-11.5	11.5	2.00	2.00	0.00
1,900.0	8.00	227.00	1,898.7	-19.0	-20.4	20.4	2.00	2.00	0.00
2,000.0	10.00	227.00	1,997.5	-29.7	-31.8	31.9	2.00	2.00	0.00
2,100.0	12.00	227.00	2,095.6	-42.7	-45.8	45.8	2.00	2.00	0.00
2,200.0	14.00	227.00	2,193.1	-58.0	-62.2	62.3	2.00	2.00	0.00
Start 3356.1 hold at 2200.0 MD									
2,300.0	14.00	227.00	2,290.1	-74.5	-79.9	80.0	0.00	0.00	0.00
2,400.0	14.00	227.00	2,387.1	-91.0	-97.6	97.7	0.00	0.00	0.00
2,500.0	14.00	227.00	2,484.1	-107.5	-115.3	115.5	0.00	0.00	0.00
2,600.0	14.00	227.00	2,581.2	-124.0	-133.0	133.2	0.00	0.00	0.00
2,700.0	14.00	227.00	2,678.2	-140.5	-150.7	150.9	0.00	0.00	0.00
2,800.0	14.00	227.00	2,775.2	-157.0	-168.4	168.6	0.00	0.00	0.00
2,900.0	14.00	227.00	2,872.3	-173.5	-186.1	186.3	0.00	0.00	0.00
3,000.0	14.00	227.00	2,969.3	-190.0	-203.8	204.0	0.00	0.00	0.00
3,100.0	14.00	227.00	3,066.3	-206.5	-221.5	221.7	0.00	0.00	0.00
3,200.0	14.00	227.00	3,163.4	-223.0	-239.2	239.5	0.00	0.00	0.00
3,300.0	14.00	227.00	3,260.4	-239.5	-256.9	257.2	0.00	0.00	0.00
3,400.0	14.00	227.00	3,357.4	-256.0	-274.6	274.9	0.00	0.00	0.00
3,500.0	14.00	227.00	3,454.4	-272.5	-292.2	292.6	0.00	0.00	0.00
3,600.0	14.00	227.00	3,551.5	-289.0	-309.9	310.3	0.00	0.00	0.00
3,700.0	14.00	227.00	3,648.5	-305.5	-327.6	328.0	0.00	0.00	0.00
3,800.0	14.00	227.00	3,745.5	-322.0	-345.3	345.7	0.00	0.00	0.00
3,900.0	14.00	227.00	3,842.6	-338.5	-363.0	363.5	0.00	0.00	0.00
4,000.0	14.00	227.00	3,939.6	-355.0	-380.7	381.2	0.00	0.00	0.00
4,100.0	14.00	227.00	4,036.6	-371.5	-398.4	398.9	0.00	0.00	0.00
4,200.0	14.00	227.00	4,133.6	-388.0	-416.1	416.6	0.00	0.00	0.00
4,300.0	14.00	227.00	4,230.7	-404.5	-433.8	434.3	0.00	0.00	0.00
4,400.0	14.00	227.00	4,327.7	-421.0	-451.5	452.0	0.00	0.00	0.00
4,500.0	14.00	227.00	4,424.7	-437.5	-469.2	469.7	0.00	0.00	0.00
4,600.0	14.00	227.00	4,521.8	-454.0	-486.9	487.5	0.00	0.00	0.00
4,700.0	14.00	227.00	4,618.8	-470.5	-504.6	505.2	0.00	0.00	0.00
4,800.0	14.00	227.00	4,715.8	-487.0	-522.3	522.9	0.00	0.00	0.00
4,900.0	14.00	227.00	4,812.9	-503.5	-539.9	540.6	0.00	0.00	0.00
5,000.0	14.00	227.00	4,909.9	-520.0	-557.6	558.3	0.00	0.00	0.00
5,100.0	14.00	227.00	5,006.9	-536.5	-575.3	576.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3173.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3173.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #751H	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	14.00	227.00	5,103.9	-553.0	-593.0	593.7	0.00	0.00	0.00
5,300.0	14.00	227.00	5,201.0	-569.5	-610.7	611.5	0.00	0.00	0.00
5,400.0	14.00	227.00	5,298.0	-586.0	-628.4	629.2	0.00	0.00	0.00
5,500.0	14.00	227.00	5,395.0	-602.5	-646.1	646.9	0.00	0.00	0.00
5,556.1	14.00	227.00	5,449.5	-611.8	-656.0	656.8	0.00	0.00	0.00
Start Drop -1.00									
5,600.0	13.56	227.00	5,492.1	-618.9	-663.7	664.5	1.00	-1.00	0.00
5,700.0	12.56	227.00	5,589.5	-634.3	-680.2	681.0	1.00	-1.00	0.00
5,800.0	11.56	227.00	5,687.3	-648.6	-695.5	696.3	1.00	-1.00	0.00
5,900.0	10.56	227.00	5,785.4	-661.6	-709.5	710.4	1.00	-1.00	0.00
6,000.0	9.56	227.00	5,883.9	-673.6	-722.3	723.2	1.00	-1.00	0.00
6,100.0	8.56	227.00	5,982.7	-684.3	-733.8	734.7	1.00	-1.00	0.00
6,200.0	7.56	227.00	6,081.7	-693.9	-744.1	745.0	1.00	-1.00	0.00
6,300.0	6.56	227.00	6,180.9	-702.2	-753.1	754.0	1.00	-1.00	0.00
6,400.0	5.56	227.00	6,280.3	-709.4	-760.8	761.7	1.00	-1.00	0.00
6,500.0	4.56	227.00	6,380.0	-715.5	-767.2	768.2	1.00	-1.00	0.00
6,600.0	3.56	227.00	6,479.7	-720.3	-772.4	773.3	1.00	-1.00	0.00
6,700.0	2.56	227.00	6,579.6	-723.9	-776.3	777.3	1.00	-1.00	0.00
6,800.0	1.56	227.00	6,679.5	-726.4	-779.0	779.9	1.00	-1.00	0.00
6,900.0	0.56	227.00	6,779.5	-727.6	-780.3	781.2	1.00	-1.00	0.00
6,956.1	0.00	0.00	6,835.6	-727.8	-780.5	781.4	1.00	-1.00	0.00
Start 4422.9 hold at 6956.1 MD									
7,000.0	0.00	0.00	6,879.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,100.0	0.00	0.00	6,979.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,079.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,179.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,279.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,379.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,479.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,579.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,679.5	-727.8	-780.5	781.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,779.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,879.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,100.0	0.00	0.00	7,979.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,079.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,179.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,279.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,379.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,479.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,579.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,679.5	-727.8	-780.5	781.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,779.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,879.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,100.0	0.00	0.00	8,979.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,079.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,179.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,279.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,379.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,479.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,579.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,679.5	-727.8	-780.5	781.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,779.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,879.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,100.0	0.00	0.00	9,979.5	-727.8	-780.5	781.4	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 #751H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3173.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3173.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #751H	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	10,079.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,179.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,279.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,379.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,479.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,579.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,679.5	-727.8	-780.5	781.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,779.5	-727.8	-780.5	781.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,879.5	-727.8	-780.5	781.4	0.00	0.00	0.00
11,100.0	0.00	0.00	10,979.5	-727.8	-780.5	781.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,079.5	-727.8	-780.5	781.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,179.5	-727.8	-780.5	781.4	0.00	0.00	0.00
11,379.1	0.00	0.00	11,258.5	-727.8	-780.5	781.4	0.00	0.00	0.00
Start DLS 12.00 TFO 179.63									
11,400.0	2.51	179.63	11,279.5	-728.3	-780.5	781.9	12.00	12.00	0.00
11,425.0	5.51	179.63	11,304.4	-730.0	-780.5	783.7	12.00	12.00	0.00
11,450.0	8.51	179.63	11,329.2	-733.1	-780.5	786.7	12.00	12.00	0.00
11,475.0	11.51	179.63	11,353.8	-737.4	-780.4	791.0	12.00	12.00	0.00
11,500.0	14.51	179.63	11,378.2	-743.1	-780.4	796.6	12.00	12.00	0.00
11,525.0	17.51	179.63	11,402.2	-750.0	-780.4	803.5	12.00	12.00	0.00
11,550.0	20.51	179.63	11,425.8	-758.1	-780.3	811.6	12.00	12.00	0.00
11,575.0	23.51	179.63	11,449.0	-767.5	-780.3	821.0	12.00	12.00	0.00
11,600.0	26.51	179.63	11,471.7	-778.0	-780.2	831.5	12.00	12.00	0.00
11,625.0	29.51	179.63	11,493.7	-789.8	-780.1	843.2	12.00	12.00	0.00
11,650.0	32.51	179.63	11,515.2	-802.7	-780.0	856.1	12.00	12.00	0.00
11,675.0	35.51	179.63	11,535.9	-816.6	-779.9	870.0	12.00	12.00	0.00
11,700.0	38.51	179.63	11,555.8	-831.7	-779.8	885.0	12.00	12.00	0.00
11,725.0	41.51	179.63	11,575.0	-847.8	-779.7	901.0	12.00	12.00	0.00
11,750.0	44.51	179.63	11,593.3	-864.8	-779.6	918.0	12.00	12.00	0.00
11,775.0	47.51	179.63	11,610.6	-882.8	-779.5	936.0	12.00	12.00	0.00
11,800.0	50.51	179.63	11,627.0	-901.7	-779.4	954.8	12.00	12.00	0.00
11,825.0	53.51	179.63	11,642.4	-921.4	-779.2	974.4	12.00	12.00	0.00
11,850.0	56.51	179.63	11,656.7	-941.9	-779.1	994.8	12.00	12.00	0.00
11,875.0	59.51	179.63	11,670.0	-963.1	-779.0	1,016.0	12.00	12.00	0.00
11,900.0	62.51	179.63	11,682.1	-984.9	-778.8	1,037.8	12.00	12.00	0.00
11,925.0	65.51	179.63	11,693.1	-1,007.4	-778.7	1,060.2	12.00	12.00	0.00
11,950.0	68.51	179.63	11,702.8	-1,030.4	-778.5	1,083.1	12.00	12.00	0.00
11,975.0	71.51	179.63	11,711.4	-1,053.9	-778.4	1,106.5	12.00	12.00	0.00
12,000.0	74.51	179.63	11,718.7	-1,077.8	-778.2	1,130.4	12.00	12.00	0.00
12,025.0	77.51	179.63	11,724.7	-1,102.1	-778.1	1,154.5	12.00	12.00	0.00
12,050.0	80.51	179.63	11,729.5	-1,126.6	-777.9	1,179.0	12.00	12.00	0.00
12,075.0	83.51	179.63	11,732.9	-1,151.3	-777.8	1,203.7	12.00	12.00	0.00
12,100.0	86.51	179.63	11,735.1	-1,176.2	-777.6	1,228.5	12.00	12.00	0.00
12,125.0	89.51	179.63	11,736.0	-1,201.2	-777.4	1,253.4	12.00	12.00	0.00
12,129.1	90.00	179.63	11,736.0	-1,205.3	-777.4	1,257.5	12.00	12.00	0.00
Start 8846.9 hold at 12129.1 MD									
12,200.0	90.00	179.63	11,736.0	-1,276.2	-776.9	1,328.2	0.00	0.00	0.00
12,300.0	90.00	179.63	11,736.0	-1,376.2	-776.3	1,427.9	0.00	0.00	0.00
12,400.0	90.00	179.63	11,736.0	-1,476.2	-775.6	1,527.6	0.00	0.00	0.00
12,500.0	90.00	179.63	11,736.0	-1,576.2	-775.0	1,627.3	0.00	0.00	0.00
12,600.0	90.00	179.63	11,736.0	-1,676.2	-774.3	1,727.0	0.00	0.00	0.00
12,700.0	90.00	179.63	11,736.0	-1,776.2	-773.7	1,826.7	0.00	0.00	0.00
12,800.0	90.00	179.63	11,736.0	-1,876.2	-773.0	1,926.4	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 #751H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3173.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3173.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.0	90.00	179.63	11,736.0	-1,976.2	-772.4	2,026.1	0.00	0.00	0.00
13,000.0	90.00	179.63	11,736.0	-2,076.2	-771.7	2,125.8	0.00	0.00	0.00
13,100.0	90.00	179.63	11,736.0	-2,176.2	-771.1	2,225.5	0.00	0.00	0.00
13,200.0	90.00	179.63	11,736.0	-2,276.2	-770.4	2,325.2	0.00	0.00	0.00
13,300.0	90.00	179.63	11,736.0	-2,376.2	-769.8	2,424.9	0.00	0.00	0.00
13,400.0	90.00	179.63	11,736.0	-2,476.2	-769.1	2,524.6	0.00	0.00	0.00
13,500.0	90.00	179.63	11,736.0	-2,576.2	-768.5	2,624.3	0.00	0.00	0.00
13,600.0	90.00	179.63	11,736.0	-2,676.2	-767.8	2,724.0	0.00	0.00	0.00
13,700.0	90.00	179.63	11,736.0	-2,776.2	-767.2	2,823.7	0.00	0.00	0.00
13,800.0	90.00	179.63	11,736.0	-2,876.2	-766.5	2,923.4	0.00	0.00	0.00
13,900.0	90.00	179.63	11,736.0	-2,976.2	-765.9	3,023.1	0.00	0.00	0.00
14,000.0	90.00	179.63	11,736.0	-3,076.2	-765.2	3,122.8	0.00	0.00	0.00
14,100.0	90.00	179.63	11,736.0	-3,176.2	-764.6	3,222.5	0.00	0.00	0.00
14,200.0	90.00	179.63	11,736.0	-3,276.2	-763.9	3,322.2	0.00	0.00	0.00
14,300.0	90.00	179.63	11,736.0	-3,376.2	-763.3	3,421.9	0.00	0.00	0.00
14,400.0	90.00	179.63	11,736.0	-3,476.2	-762.6	3,521.6	0.00	0.00	0.00
14,500.0	90.00	179.63	11,736.0	-3,576.2	-762.0	3,621.3	0.00	0.00	0.00
14,600.0	90.00	179.63	11,736.0	-3,676.2	-761.3	3,721.0	0.00	0.00	0.00
14,700.0	90.00	179.63	11,736.0	-3,776.2	-760.7	3,820.7	0.00	0.00	0.00
14,800.0	90.00	179.63	11,736.0	-3,876.2	-760.0	3,920.4	0.00	0.00	0.00
14,900.0	90.00	179.63	11,736.0	-3,976.2	-759.4	4,020.1	0.00	0.00	0.00
15,000.0	90.00	179.63	11,736.0	-4,076.2	-758.7	4,119.8	0.00	0.00	0.00
15,100.0	90.00	179.63	11,736.0	-4,176.2	-758.1	4,219.5	0.00	0.00	0.00
15,200.0	90.00	179.63	11,736.0	-4,276.2	-757.4	4,319.2	0.00	0.00	0.00
15,300.0	90.00	179.63	11,736.0	-4,376.2	-756.8	4,418.9	0.00	0.00	0.00
15,400.0	90.00	179.63	11,736.0	-4,476.2	-756.1	4,518.6	0.00	0.00	0.00
15,500.0	90.00	179.63	11,736.0	-4,576.2	-755.5	4,618.3	0.00	0.00	0.00
15,600.0	90.00	179.63	11,736.0	-4,676.2	-754.8	4,718.0	0.00	0.00	0.00
15,700.0	90.00	179.63	11,736.0	-4,776.2	-754.2	4,817.7	0.00	0.00	0.00
15,800.0	90.00	179.63	11,736.0	-4,876.2	-753.5	4,917.4	0.00	0.00	0.00
15,900.0	90.00	179.63	11,736.0	-4,976.2	-752.9	5,017.1	0.00	0.00	0.00
16,000.0	90.00	179.63	11,736.0	-5,076.1	-752.2	5,116.8	0.00	0.00	0.00
16,100.0	90.00	179.63	11,736.0	-5,176.1	-751.6	5,216.5	0.00	0.00	0.00
16,200.0	90.00	179.63	11,736.0	-5,276.1	-750.9	5,316.2	0.00	0.00	0.00
16,300.0	90.00	179.63	11,736.0	-5,376.1	-750.2	5,415.9	0.00	0.00	0.00
16,400.0	90.00	179.63	11,736.0	-5,476.1	-749.6	5,515.6	0.00	0.00	0.00
16,500.0	90.00	179.63	11,736.0	-5,576.1	-748.9	5,615.3	0.00	0.00	0.00
16,600.0	90.00	179.63	11,736.0	-5,676.1	-748.3	5,715.0	0.00	0.00	0.00
16,700.0	90.00	179.63	11,736.0	-5,776.1	-747.6	5,814.7	0.00	0.00	0.00
16,800.0	90.00	179.63	11,736.0	-5,876.1	-747.0	5,914.4	0.00	0.00	0.00
16,900.0	90.00	179.63	11,736.0	-5,976.1	-746.3	6,014.1	0.00	0.00	0.00
17,000.0	90.00	179.63	11,736.0	-6,076.1	-745.7	6,113.8	0.00	0.00	0.00
17,100.0	90.00	179.63	11,736.0	-6,176.1	-745.0	6,213.5	0.00	0.00	0.00
17,200.0	90.00	179.63	11,736.0	-6,276.1	-744.4	6,313.1	0.00	0.00	0.00
17,300.0	90.00	179.63	11,736.0	-6,376.1	-743.7	6,412.8	0.00	0.00	0.00
17,400.0	90.00	179.63	11,736.0	-6,476.1	-743.1	6,512.5	0.00	0.00	0.00
17,500.0	90.00	179.63	11,736.0	-6,576.1	-742.4	6,612.2	0.00	0.00	0.00
17,600.0	90.00	179.63	11,736.0	-6,676.1	-741.8	6,711.9	0.00	0.00	0.00
17,700.0	90.00	179.63	11,736.0	-6,776.1	-741.1	6,811.6	0.00	0.00	0.00
17,800.0	90.00	179.63	11,736.0	-6,876.1	-740.5	6,911.3	0.00	0.00	0.00
17,900.0	90.00	179.63	11,736.0	-6,976.1	-739.8	7,011.0	0.00	0.00	0.00
18,000.0	90.00	179.63	11,736.0	-7,076.1	-739.2	7,110.7	0.00	0.00	0.00
18,100.0	90.00	179.63	11,736.0	-7,176.1	-738.5	7,210.4	0.00	0.00	0.00
18,200.0	90.00	179.63	11,736.0	-7,276.1	-737.9	7,310.1	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3173.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3173.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,300.0	90.00	179.63	11,736.0	-7,376.1	-737.2	7,409.8	0.00	0.00	0.00	
18,400.0	90.00	179.63	11,736.0	-7,476.1	-736.6	7,509.5	0.00	0.00	0.00	
18,500.0	90.00	179.63	11,736.0	-7,576.1	-735.9	7,609.2	0.00	0.00	0.00	
18,600.0	90.00	179.63	11,736.0	-7,676.1	-735.3	7,708.9	0.00	0.00	0.00	
18,700.0	90.00	179.63	11,736.0	-7,776.1	-734.6	7,808.6	0.00	0.00	0.00	
18,800.0	90.00	179.63	11,736.0	-7,876.1	-734.0	7,908.3	0.00	0.00	0.00	
18,900.0	90.00	179.63	11,736.0	-7,976.1	-733.3	8,008.0	0.00	0.00	0.00	
19,000.0	90.00	179.63	11,736.0	-8,076.1	-732.7	8,107.7	0.00	0.00	0.00	
19,100.0	90.00	179.63	11,736.0	-8,176.1	-732.0	8,207.4	0.00	0.00	0.00	
19,200.0	90.00	179.63	11,736.0	-8,276.1	-731.4	8,307.1	0.00	0.00	0.00	
19,300.0	90.00	179.63	11,736.0	-8,376.1	-730.7	8,406.8	0.00	0.00	0.00	
19,400.0	90.00	179.63	11,736.0	-8,476.1	-730.1	8,506.5	0.00	0.00	0.00	
19,500.0	90.00	179.63	11,736.0	-8,576.1	-729.4	8,606.2	0.00	0.00	0.00	
19,600.0	90.00	179.63	11,736.0	-8,676.1	-728.8	8,705.9	0.00	0.00	0.00	
19,700.0	90.00	179.63	11,736.0	-8,776.1	-728.1	8,805.6	0.00	0.00	0.00	
19,800.0	90.00	179.63	11,736.0	-8,876.1	-727.5	8,905.3	0.00	0.00	0.00	
19,900.0	90.00	179.63	11,736.0	-8,976.1	-726.8	9,005.0	0.00	0.00	0.00	
20,000.0	90.00	179.63	11,736.0	-9,076.1	-726.2	9,104.7	0.00	0.00	0.00	
20,100.0	90.00	179.63	11,736.0	-9,176.1	-725.5	9,204.4	0.00	0.00	0.00	
20,200.0	90.00	179.63	11,736.0	-9,276.1	-724.9	9,304.1	0.00	0.00	0.00	
20,300.0	90.00	179.63	11,736.0	-9,376.1	-724.2	9,403.8	0.00	0.00	0.00	
20,400.0	90.00	179.63	11,736.0	-9,476.1	-723.6	9,503.5	0.00	0.00	0.00	
20,500.0	90.00	179.63	11,736.0	-9,576.1	-722.9	9,603.2	0.00	0.00	0.00	
20,600.0	90.00	179.63	11,736.0	-9,676.1	-722.3	9,702.9	0.00	0.00	0.00	
20,700.0	90.00	179.63	11,736.0	-9,776.0	-721.6	9,802.6	0.00	0.00	0.00	
20,800.0	90.00	179.63	11,736.0	-9,876.0	-721.0	9,902.3	0.00	0.00	0.00	
20,900.0	90.00	179.63	11,736.0	-9,976.0	-720.3	10,002.0	0.00	0.00	0.00	
20,975.9	90.00	179.63	11,736.0	-10,052.0	-719.8	10,077.7	0.00	0.00	0.00	
Start 50.0 hold at 20975.9 MD										
21,000.0	90.00	179.63	11,736.0	-10,076.0	-719.7	10,101.7	0.00	0.00	0.00	
21,026.0	90.00	179.63	11,736.0	-10,102.0	-719.5	10,127.6	0.00	0.00	0.00	
TD at 21026.0										

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- Shape										
LTP (ZHU 2032 WC #75 - plan hits target center - Point	0.00	0.00	11,736.0	-10,052.0	-719.8	364,425.47	694,687.34	32° 0' 1.313 N		103° 42' 19.087 W
PBHL (ZHU 2032 WC #75 - plan hits target center - Rectangle (sides W100.0 H10,067.1 D20.0)	0.00	359.63	11,736.0	-10,102.0	-719.5	364,375.47	694,687.63	32° 0' 0.818 N		103° 42' 19.087 W
FTP (ZHU 2032 WC #75 - plan misses target center by 786.2usft at 11566.7usft MD (11441.3 TVD, -764.2 N, -780.3 E) - Circle (radius 50.0)	0.00	0.00	11,736.0	-35.4	-784.9	374,442.07	694,622.21	32° 1' 40.442 N		103° 42' 19.167 W

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #751H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3173.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3173.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #751H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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	
11,379.1	11,258.5	DB INT 7-5/8	7-5/8	9-7/8	
21,025.9	11,736.0	DB PROD. -5 1/2	5-1/2	6-3/4	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
2,200.0	2,193.1	-58.0	-62.2	Start 3356.1 hold at 2200.0 MD	
5,556.1	5,449.5	-611.8	-656.0	Start Drop -1.00	
6,956.1	6,835.6	-727.8	-780.5	Start 4422.9 hold at 6956.1 MD	
11,379.1	11,258.5	-727.8	-780.5	Start DLS 12.00 TFO 179.63	
12,129.1	11,736.0	-1,205.3	-777.4	Start 8846.9 hold at 12129.1 MD	
20,975.9	11,736.0	-10,052.0	-719.8	Start 50.0 hold at 20975.9 MD	
21,026.0	11,736.0	-10,102.0	-719.5	TD at 21026.0	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	ZIA HILLS UNIT 2032 WC 751H
SURFACE HOLE FOOTAGE:	2649'S & 775'W
BOTTOM HOLE FOOTAGE:	50'S & 10'E
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 **21,026 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

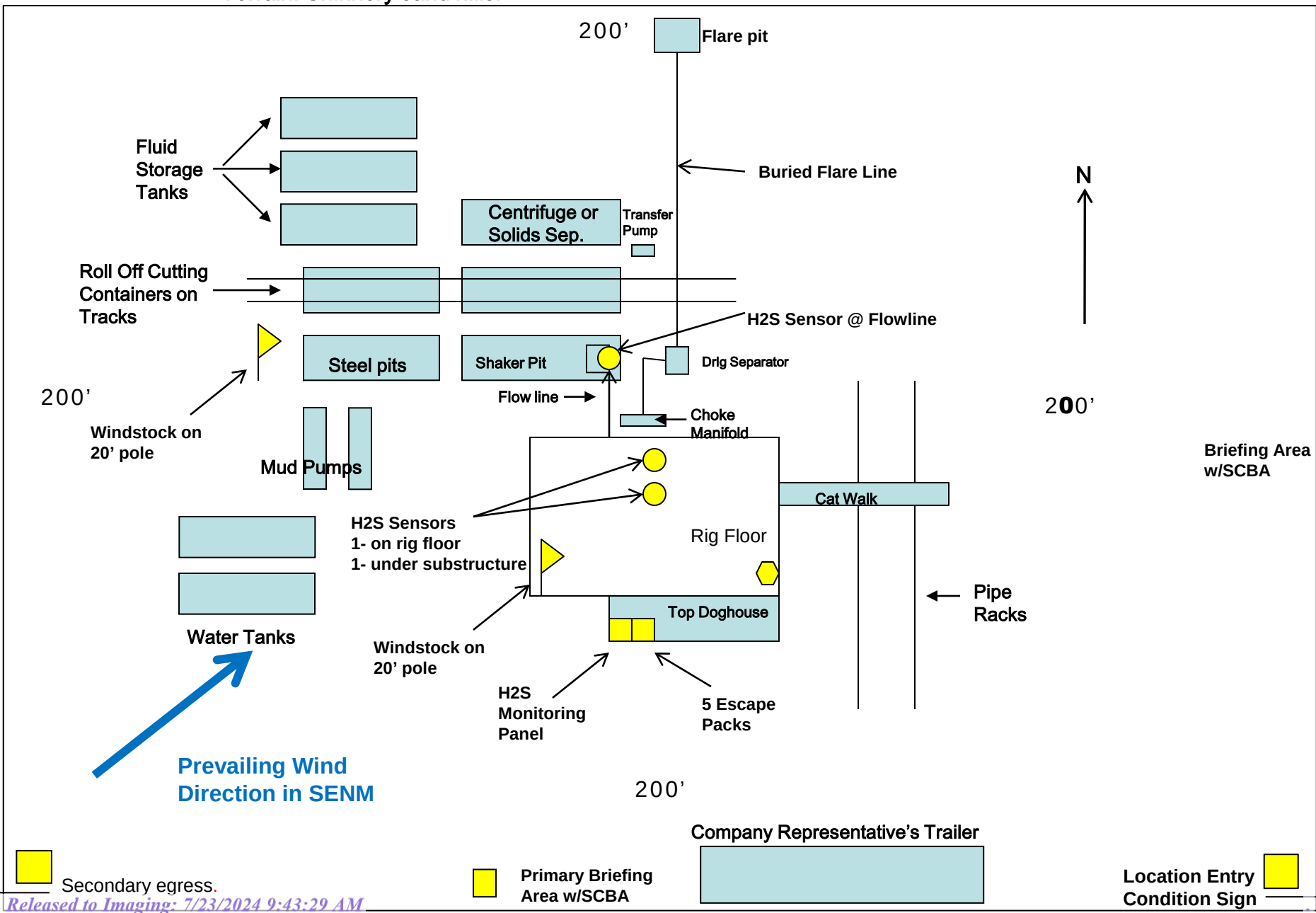
disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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 364341

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 364341
	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