

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

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.

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: SWNE / 2636 FNL / 2034 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.028294 / LONG: -103.695153 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2576 FNL / 1980 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.028461 / LONG: -103.694979 (TVD: 11642 feet, MD: 11750 feet)

BHL: NWNE / 50 FNL / 1980 FEL / TWSP: 26S / RANGE: 32E / SECTION: 17 / LAT: 32.050089 / LONG: -103.694989 (TVD: 11865 feet, MD: 19513 feet)

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 30-015-45713	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code	5 Property Name ZIA HILLS 20 FED COM	6 Well Number 103H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3154.1'

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
G	20	26-S	32-E		2636'	NORTH	2034'	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	17	26-S	32-E		50'	NORTH	1590'	EAST	LEA

12 Dedicated Acres 13,383.35 Unit	13 Joint or Infill Infill	14 Consolidation Code Unit	15 Order No. R-20080
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16 CORNER DATA NEW MEXICO EAST - NAD 83 A - FOUND IRON PIPE W/ BRASS CAP N:382570.93' E:735744.95' B - FOUND IRON PIPE W/ BRASS CAP N:382588.66' E:738419.49' C - FOUND IRON PIPE W/ BRASS CAP N:382614.65' E:741090.20' D - FOUND IRON PIPE W/ BRASS CAP N:379941.58' E:741109.60' E - FOUND IRON PIPE W/ BRASS CAP N:377269.22' E:741128.24' F - FOUND IRON PIPE W/ BRASS CAP N:374596.59' E:741140.55' G - FOUND IRON PIPE W/ BRASS CAP N:371924.06' E:741150.79' H - FOUND IRON PIPE W/ BRASS CAP N:371901.14' E:738488.27' I - FOUND IRON PIPE W/ BRASS CAP N:371879.35' E:735833.03' J - FOUND IRON PIPE W/ BRASS CAP N:374544.72' E:735819.04' K - FOUND IRON PIPE W/ BRASS CAP N:377224.61' E:735795.66' L - FOUND IRON PIPE W/ BRASS CAP N:379892.50' E:735778.31' M - FOUND IRON PIPE W/ BRASS CAP N:377246.91' E:738461.95'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stan Wagner</i> 4/11/2022 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. _____ Date of Survey <i>Mark J. Murray</i> Signature and Seal of Professional Surveyor MARK J. MURRAY NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 12177 3/18/2022 Certificate Number
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ConocoPhillips - Zia Hills 20 Fed Com 103H

1. Geologic Formations

TVD of target	11,904' EOL	Pilot hole depth	NA
MD at TD:	19,658'	Deepest expected fresh water:	405'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1116	Water	
Top of Salt	1437	Salt	
Base of Salt	4101	Salt	
Lamar	4303	Salt Water	
Bell Canyon	4356	Salt Water	
Cherry Canyon	5250	Oil/Gas	
Brushy Canyon	6773	Oil/Gas	
Bone Spring	8328	Oil/Gas	
1st Bone Spring Sand	9321	Oil/Gas	
2nd Bone Spring Sand	9983	Oil/Gas	
3rd Bone Spring Carb	10380	Oil/Gas	
3rd Bone Spring Sand	11121	Oil/Gas	
Wolfcamp	11553	Oil/Gas	
Wolfcamp A	11765	Target - Oil/Gas	
Wolfcamp B	12089	Not Penetrated	Abnormal Press.

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	1387	10.75"	45.5	J55	BTC	3.29	1.14	12.61	12.61
9.875"	0	8500	7.625"	29.7	L80	BTC	1.48	1.05	2.71	2.85
8.750"	8500	11071	7.625"	29.7	P110	Wedge 513	1.42	1.49	2.86	1.72
6.75"	0	10871	5.5"	23	P110	TXP BTC	1.88	2.22	2.66	2.66
6.75"	10871	19,658	5.5"	23	P110	Wedge 441	1.88	2.22	2.66	2.42
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5.5" 23# Wedge 441 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 - Zia Hills 20 Fed Com 103H

	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 - Zia Hills 20 Fed Com 103H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	661	13.5	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	504	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	829	14.4	1.24	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	8,000'	35% OH in Lateral (KOP to EOL)

ConocoPhillips - Zia Hills 20 Fed Com 103H

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	3500 psi
			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 - Zia Hills 20 Fed Com 103H

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	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	12 - 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 - Zia Hills 20 Fed Com 103H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7740 psi at 11904' 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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS 20 FED COM PROJECT

ZIA HILLS 20 FED COM #103H

OWB

PWP1

Anticollision Report

05 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum centre distance of 1,000.0usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	4/5/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,454.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,454.0	19,657.0	PWP1 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

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						
Red Hills West - Field						
BUCK FEDERAL 20 6H - Original Hole - Original Hole	8,837.8	11,086.9	779.2	723.8	14.056	CC, ES, SF
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FED COM #101H - OWB - PWP1	1,916.1	1,917.9	65.9	59.4	10.093	CC
ZIA HILLS 20 FED COM #101H - OWB - PWP1	2,000.0	2,001.8	65.9	59.4	10.021	ES
ZIA HILLS 20 FED COM #101H - OWB - PWP1	19,658.0	19,609.5	840.1	717.2	6.839	SF
ZIA HILLS 20 FED COM #102H - OWB - PWP1	2,001.8	2,002.8	32.9	26.3	4.993	CC, ES
ZIA HILLS 20 FED COM #102H - OWB - PWP1	19,658.0	19,390.9	453.1	329.7	3.671	SF
ZIA HILLS 20 FED COM #110H - OWB - PWP1	11,709.4	11,759.0	420.4	400.9	21.621	CC
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,658.0	19,638.2	449.4	323.6	3.571	ES, SF
ZIA HILLS 20 FED COM #111H - OWB - PWP1	19,658.0	19,916.5	840.0	714.8	6.712	CC, ES, SF
ZIA HILLS 20 FED COM #114H - OWB - PWP1	11,211.9	11,173.4	927.0	909.1	51.724	CC, ES
ZIA HILLS 20 FED COM #114H - OWB - PWP1	11,700.0	11,441.4	998.1	976.6	46.565	SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 17 FEDERAL #2H - OWB - AWP						Out of range
BUCK 17 FEDERAL #5H - OWB - AWP						Out of range
BUCK 20 FEDERAL #1H - OWB - AWP						Out of range
BUCK 20 FEDERAL #2H - OWB - AWP	9,264.7	11,339.6	210.8	160.1	4.164	CC, ES, SF
BUCK 20 FEDERAL #5H - OWB - AWP	8,863.9	10,429.3	558.8	514.4	12.600	CC, ES, SF
PADUCA BREAKS 32 26 32 STATE #1H - OWB - AWP						Out of range
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	2,000.0	1,989.9	461.1	417.0	10.454	CC
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	2,100.0	2,089.9	462.1	416.0	10.006	ES
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	4,400.0	4,373.7	660.4	566.3	7.022	SF
WILDER 29 FED #1H - OWB - AWP						Out of range
WILDER 29 FED #5H - OWB - AWP						Out of range
WILDER FED SWD 29 - AWP - AWP						Out of range
WILDER FEDERAL 29 #2H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	1,613.7	1,614.3	147.3	137.6	15.258	CC, ES
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	2,200.0	2,200.2	153.1	142.3	14.140	SF
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	0.0	0.5	144.0			
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	11,600.0	11,576.8	439.4	391.8	9.229	SF
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	0.0	0.5	144.0			
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	11,452.4	11,428.7	430.9	384.3	9.246	SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	1,516.2	1,517.1	133.7	124.3	14.164	CC, ES

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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 UNIT 2032 PROJECT						
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	11,300.0	11,282.6	192.5	145.8	4.120	SF
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	5,020.9	5,014.3	115.2	91.6	4.882	CC, ES, SF
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	5,437.4	5,415.2	201.9	189.7	16.454	CC, ES
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	5,600.0	5,573.5	205.6	192.9	16.275	SF
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	10,259.3	10,452.9	330.0	284.9	7.309	CC, ES, SF
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	5,681.9	5,599.9	641.2	629.0	52.681	CC
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	5,700.0	5,618.0	641.2	629.0	52.522	ES
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	6,171.7	6,089.0	662.2	649.0	50.251	SF

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

ConocoPhillips

Anticollision Report

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Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
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Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Red Hills West - Field						
BUCK FEDERAL 20 6H - Original Hole - Original Hole	19,658.0	8,560.0				Out of Range @TD
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FED COM #101H - OWB - PWP1	19,658.0	19,609.5	840.1	717.2	6.839	SF
ZIA HILLS 20 FED COM #102H - OWB - PWP1	19,658.0	19,390.9	453.1	329.7	3.671	SF
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,658.0	19,638.2	449.4	323.6	3.571	ES, SF
ZIA HILLS 20 FED COM #111H - OWB - PWP1	19,658.0	19,916.5	840.0	714.8	6.712	CC, ES, SF
ZIA HILLS 20 FED COM #114H - OWB - PWP1	19,658.0	11,275.0				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
BUCK 17 FEDERAL #2H - OWB - AWP	19,658.0	12,845.0				Out of Range @TD
BUCK 17 FEDERAL #5H - OWB - AWP	19,658.0	14,446.0				Out of Range @TD
BUCK 20 FEDERAL #1H - OWB - AWP	19,658.0	8,832.0				Out of Range @TD
BUCK 20 FEDERAL #2H - OWB - AWP	19,658.0	8,941.0				Out of Range @TD
BUCK 20 FEDERAL #5H - OWB - AWP	19,658.0	8,471.0				Out of Range @TD
PADUCA BREAKS 32 26 32 STATE #1H - OWB - AWP	19,658.0	9,985.0				Out of Range @TD
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	19,658.0	4,400.0				Out of Range @TD
WILDER 29 FED #1H - OWB - AWP	19,658.0	8,787.0				Out of Range @TD
WILDER 29 FED #5H - OWB - AWP	19,658.0	8,921.0				Out of Range @TD
WILDER FED SWD 29 - AWP - AWP	19,658.0	6,220.0				Out of Range @TD
WILDER FEDERAL 29 #2H - OWB - AWP	19,658.0	8,774.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	19,658.0	11,211.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	19,658.0	11,792.4				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	19,658.0	11,259.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	19,658.0	11,211.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	19,658.0	9,975.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	19,658.0	9,925.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	19,658.0	9,900.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	19,658.0	9,900.0				Out of Range @TD

Offset Design: Red Hills West - Field - BUCK FEDERAL 20 6H - Original Hole - Original Hole													Offset Site Error:	0.0 usft
Survey Program: 200-, 1132-		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:		0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
8,300.0	8,274.1	11,032.2	8,817.3	9.3	46.9	-85.51	61.0	-333.2	946.1	896.3	49.81	18.995		
8,400.0	8,374.1	11,038.5	8,817.6	9.4	47.0	-85.97	54.8	-333.5	893.3	842.0	51.26	17.428		
8,500.0	8,474.1	11,050.7	8,818.2	9.5	47.2	-86.87	42.6	-333.9	849.0	796.3	52.70	16.110		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: Red Hills West - Field - BUCK FEDERAL 20 6H - Original Hole - Original Hole													Offset Site Error:	0.0 usft
Survey Program: 200-, 1132-													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:			Offset Well Error:			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		
8,600.0	8,574.1	11,063.1	8,818.8	9.6	47.4	-87.77	30.3	-334.3	814.6	760.6	53.91	15.108		
8,700.0	8,674.1	11,073.9	8,819.3	9.7	47.6	-88.57	19.4	-334.5	791.3	736.5	54.80	14.440		
8,800.0	8,774.1	11,083.5	8,819.7	9.8	47.8	-89.28	9.8	-334.7	780.1	724.8	55.33	14.100		
8,837.8	8,811.9	11,086.9	8,819.8	9.9	47.8	-89.53	6.4	-334.7	779.2	723.8	55.44	14.056	CC, ES, SF	
8,900.0	8,874.1	11,092.1	8,820.0	9.9	47.9	-89.91	1.2	-334.7	781.7	726.2	55.51	14.081		
9,000.0	8,974.1	11,099.8	8,820.3	10.1	48.0	-90.48	-6.5	-334.7	795.9	740.5	55.37	14.375		
9,100.0	9,074.1	11,106.8	8,820.5	10.2	48.1	-90.99	-13.4	-334.7	822.0	766.8	55.25	14.878		
9,200.0	9,174.1	11,113.1	8,820.8	10.3	48.2	-91.45	-19.8	-334.7	859.1	803.8	55.24	15.551		
9,300.0	9,274.1	11,118.9	8,820.9	10.4	48.3	-91.87	-25.5	-334.6	905.7	850.7	54.97	16.477		
9,400.0	9,374.1	11,124.1	8,821.1	10.5	48.4	-92.26	-30.8	-334.5	960.4	905.9	54.50	17.621		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)						
0.0	0.0	1.8	1.8	3.0	3.0	-90.54		-0.6	-65.9	65.9					
100.0	100.0	101.8	101.8	3.0	3.0	-90.54		-0.6	-65.9	65.9	59.9	6.00	10.990		
200.0	200.0	201.8	201.8	3.0	3.0	-90.54		-0.6	-65.9	65.9	59.9	6.00	10.985		
300.0	300.0	301.8	301.8	3.0	3.0	-90.54		-0.6	-65.9	65.9	59.9	6.01	10.974		
400.0	400.0	401.8	401.8	3.0	3.0	-90.54		-0.6	-65.9	65.9	59.9	6.02	10.957		
500.0	500.0	501.8	501.8	3.1	3.1	-90.54		-0.6	-65.9	65.9	59.9	6.03	10.934		
600.0	600.0	601.8	601.8	3.1	3.1	-90.54		-0.6	-65.9	65.9	59.9	6.05	10.906		
700.0	700.0	701.8	701.8	3.1	3.1	-90.54		-0.6	-65.9	65.9	59.9	6.07	10.872		
800.0	800.0	801.8	801.8	3.2	3.2	-90.54		-0.6	-65.9	65.9	59.9	6.09	10.833		
900.0	900.0	901.8	901.8	3.2	3.2	-90.54		-0.6	-65.9	65.9	59.8	6.11	10.788		
1,000.0	1,000.0	1,001.8	1,001.8	3.2	3.2	-90.54		-0.6	-65.9	65.9	59.8	6.14	10.739		
1,100.0	1,100.0	1,101.8	1,101.8	3.3	3.3	-90.54		-0.6	-65.9	65.9	59.8	6.17	10.685		
1,200.0	1,200.0	1,201.8	1,201.8	3.4	3.4	-90.54		-0.6	-65.9	65.9	59.7	6.21	10.626		
1,300.0	1,300.0	1,301.8	1,301.8	3.4	3.4	-90.54		-0.6	-65.9	65.9	59.7	6.24	10.563		
1,400.0	1,400.0	1,401.8	1,401.8	3.5	3.5	-90.54		-0.6	-65.9	65.9	59.7	6.28	10.495		
1,500.0	1,500.0	1,501.8	1,501.8	3.5	3.5	-90.54		-0.6	-65.9	65.9	59.6	6.33	10.424		
1,600.0	1,600.0	1,601.8	1,601.8	3.6	3.6	-90.54		-0.6	-65.9	65.9	59.6	6.37	10.350		
1,700.0	1,700.0	1,701.8	1,701.8	3.7	3.7	-90.54		-0.6	-65.9	65.9	59.5	6.42	10.272		
1,800.0	1,800.0	1,801.8	1,801.8	3.8	3.8	-90.54		-0.6	-65.9	65.9	59.5	6.47	10.191		
1,900.0	1,900.0	1,901.8	1,901.8	3.9	3.9	-90.54		-0.6	-65.9	65.9	59.4	6.52	10.107		
1,916.1	1,916.1	1,917.9	1,917.9	3.9	3.9	-90.54		-0.6	-65.9	65.9	59.4	6.53	10.093 CC		
2,000.0	2,000.0	2,001.8	2,001.8	3.9	3.9	-90.54		-0.6	-65.9	65.9	59.4	6.58	10.021 ES		
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	179.57		-0.5	-67.7	69.5	62.8	6.64	10.462		
2,200.0	2,199.8	2,196.3	2,196.2	4.0	4.0	179.85		-0.2	-72.7	79.8	73.1	6.70	11.914		
2,300.0	2,299.5	2,293.3	2,292.8	4.1	4.1	-179.84		0.3	-80.6	96.7	89.9	6.77	14.273		
2,350.0	2,349.1	2,342.3	2,341.7	4.1	4.1	-179.71		0.5	-84.9	106.6	99.8	6.81	15.647		
2,400.0	2,398.8	2,391.2	2,390.4	4.1	4.1	-179.61		0.8	-89.1	117.0	110.1	6.86	17.063		
2,500.0	2,498.0	2,489.0	2,487.8	4.1	4.1	-179.45		1.3	-97.6	137.8	130.8	6.95	19.824		
2,600.0	2,597.3	2,586.9	2,585.3	4.2	4.2	-179.33		1.8	-106.1	158.6	151.5	7.05	22.486		
2,700.0	2,696.5	2,684.7	2,682.7	4.2	4.2	-179.24		2.3	-114.6	179.3	172.2	7.16	25.046		
2,800.0	2,795.8	2,782.5	2,780.2	4.3	4.3	-179.17		2.9	-123.1	200.1	192.8	7.28	27.502		
2,900.0	2,895.0	2,880.3	2,877.6	4.3	4.3	-179.11		3.4	-131.7	220.9	213.5	7.40	29.853		
3,000.0	2,994.3	2,978.1	2,975.0	4.4	4.4	-179.06		3.9	-140.2	241.7	234.2	7.53	32.098		
3,100.0	3,093.5	3,075.9	3,072.5	4.5	4.5	-179.02		4.4	-148.7	262.5	254.8	7.67	34.239		
3,200.0	3,192.8	3,173.8	3,169.9	4.5	4.5	-178.98		4.9	-157.2	283.2	275.4	7.81	36.278		
3,300.0	3,292.0	3,271.6	3,267.4	4.6	4.6	-178.95		5.4	-165.7	304.0	296.1	7.96	38.217		
3,400.0	3,391.3	3,369.4	3,364.8	4.7	4.7	-178.93		6.0	-174.2	324.8	316.7	8.11	40.058		
3,500.0	3,490.6	3,467.2	3,462.3	4.7	4.7	-178.90		6.5	-182.7	345.6	337.3	8.27	41.806		
3,600.0	3,589.8	3,565.0	3,559.7	4.8	4.8	-178.88		7.0	-191.2	366.4	357.9	8.43	43.463		
3,700.0	3,689.1	3,662.8	3,657.2	4.9	4.9	-178.87		7.5	-199.7	387.2	378.6	8.60	45.034		
3,800.0	3,788.3	3,760.7	3,754.6	5.0	5.0	-178.85		8.0	-208.2	407.9	399.2	8.77	46.521		
3,900.0	3,887.6	3,858.5	3,852.0	5.1	5.1	-178.83		8.5	-216.8	428.7	419.8	8.94	47.930		
4,000.0	3,986.8	3,956.3	3,949.5	5.1	5.1	-178.82		9.1	-225.3	449.5	440.4	9.12	49.264		
4,100.0	4,086.1	4,054.1	4,046.9	5.2	5.2	-178.81		9.6	-233.8	470.3	461.0	9.31	50.527		
4,200.0	4,185.3	4,151.9	4,144.4	5.3	5.3	-178.80		10.1	-242.3	491.1	481.6	9.49	51.722		
4,300.0	4,284.6	4,249.7	4,241.8	5.4	5.4	-178.79		10.6	-250.8	511.8	502.2	9.68	52.854		
4,400.0	4,383.8	4,347.6	4,339.3	5.5	5.5	-178.78		11.1	-259.3	532.6	522.7	9.88	53.925		
4,500.0	4,483.1	4,445.4	4,436.7	5.6	5.6	-178.77		11.6	-267.8	553.4	543.3	10.07	54.940		
4,600.0	4,582.4	4,543.2	4,534.2	5.7	5.7	-178.76		12.1	-276.3	574.2	563.9	10.27	55.901		
4,700.0	4,681.6	4,641.0	4,631.6	5.8	5.8	-178.75		12.7	-284.8	595.0	584.5	10.47	56.811		
4,800.0	4,780.9	4,738.8	4,729.0	5.9	5.9	-178.75		13.2	-293.3	615.8	605.1	10.68	57.674		
4,900.0	4,880.1	4,836.6	4,826.5	6.0	6.0	-178.74		13.7	-301.8	636.5	625.7	10.88	58.492		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,979.4	4,934.5	4,923.9	6.1	6.1	-178.73	14.2	-310.4	657.3	646.2	11.09	59.268		
5,100.0	5,078.6	5,032.3	5,021.4	6.2	6.1	-178.73	14.7	-318.9	678.1	666.8	11.30	60.004		
5,200.0	5,177.9	5,130.1	5,118.8	6.3	6.2	-178.72	15.2	-327.4	698.9	687.4	11.51	60.703		
5,300.0	5,277.1	5,227.9	5,216.3	6.4	6.3	-178.72	15.8	-335.9	719.7	707.9	11.73	61.367		
5,400.0	5,376.4	5,325.7	5,313.7	6.5	6.5	-178.71	16.3	-344.4	740.4	728.5	11.94	61.998		
5,471.7	5,447.6	5,395.9	5,383.6	6.6	6.5	-178.71	16.7	-350.5	755.3	743.2	12.10	62.430		
5,500.0	5,475.7	5,423.6	5,411.2	6.6	6.6	-178.71	16.8	-352.9	761.2	749.0	12.16	62.591		
5,600.0	5,575.1	5,521.7	5,508.9	6.7	6.7	-178.71	17.3	-361.4	780.6	768.2	12.38	63.053		
5,700.0	5,674.7	5,620.1	5,606.9	6.9	6.8	-178.70	17.8	-370.0	798.3	785.7	12.60	63.354		
5,800.0	5,774.4	5,728.1	5,714.6	7.0	6.9	-178.69	18.4	-379.0	814.0	801.2	12.82	63.471		
5,900.0	5,874.2	5,843.9	5,830.2	7.1	7.0	-178.69	18.8	-386.6	826.2	813.1	13.05	63.290		
6,000.0	5,974.1	5,960.5	5,946.6	7.2	7.1	-178.68	19.2	-391.9	834.6	821.3	13.29	62.810		
6,100.0	6,074.1	6,077.4	6,063.5	7.3	7.2	-178.68	19.3	-394.8	839.2	825.7	13.53	62.045		
6,171.7	6,145.8	6,161.4	6,147.5	7.3	7.3	-88.68	19.4	-395.4	840.2	826.5	13.65	61.540		
6,200.0	6,174.1	6,189.9	6,175.9	7.3	7.4	-88.68	19.4	-395.4	840.2	826.5	13.68	61.428		
6,300.0	6,274.1	6,289.9	6,275.9	7.4	7.4	-88.68	19.4	-395.4	840.2	826.4	13.76	61.038		
6,400.0	6,374.1	6,389.9	6,375.9	7.5	7.5	-88.68	19.4	-395.4	840.2	826.3	13.85	60.650		
6,500.0	6,474.1	6,489.9	6,475.9	7.6	7.6	-88.68	19.4	-395.4	840.2	826.2	13.94	60.262		
6,600.0	6,574.1	6,589.9	6,575.9	7.7	7.7	-88.68	19.4	-395.4	840.2	826.1	14.03	59.877		
6,700.0	6,674.1	6,689.9	6,675.9	7.8	7.8	-88.68	19.4	-395.4	840.2	826.0	14.12	59.492		
6,800.0	6,774.1	6,789.9	6,775.9	7.9	7.9	-88.68	19.4	-395.4	840.2	825.9	14.21	59.110		
6,900.0	6,874.1	6,889.9	6,875.9	8.0	8.0	-88.68	19.4	-395.4	840.2	825.9	14.31	58.729		
7,000.0	6,974.1	6,989.9	6,975.9	8.0	8.1	-88.68	19.4	-395.4	840.2	825.8	14.40	58.350		
7,100.0	7,074.1	7,089.9	7,075.9	8.1	8.2	-88.68	19.4	-395.4	840.2	825.7	14.49	57.972		
7,200.0	7,174.1	7,189.9	7,175.9	8.2	8.2	-88.68	19.4	-395.4	840.2	825.6	14.59	57.597		
7,300.0	7,274.1	7,289.9	7,275.9	8.3	8.3	-88.68	19.4	-395.4	840.2	825.5	14.68	57.224		
7,400.0	7,374.1	7,389.9	7,375.9	8.4	8.4	-88.68	19.4	-395.4	840.2	825.4	14.78	56.852		
7,500.0	7,474.1	7,489.9	7,475.9	8.5	8.5	-88.68	19.4	-395.4	840.2	825.3	14.87	56.483		
7,600.0	7,574.1	7,589.9	7,575.9	8.6	8.6	-88.68	19.4	-395.4	840.2	825.2	14.97	56.116		
7,700.0	7,674.1	7,689.9	7,675.9	8.7	8.7	-88.68	19.4	-395.4	840.2	825.1	15.07	55.751		
7,800.0	7,774.1	7,789.9	7,775.9	8.8	8.8	-88.68	19.4	-395.4	840.2	825.0	15.17	55.389		
7,900.0	7,874.1	7,889.9	7,875.9	8.9	8.9	-88.68	19.4	-395.4	840.2	824.9	15.27	55.029		
8,000.0	7,974.1	7,989.9	7,975.9	9.0	9.0	-88.68	19.4	-395.4	840.2	824.8	15.37	54.672		
8,100.0	8,074.1	8,089.9	8,075.9	9.1	9.1	-88.68	19.4	-395.4	840.2	824.7	15.47	54.316		
8,200.0	8,174.1	8,189.9	8,175.9	9.2	9.2	-88.68	19.4	-395.4	840.2	824.6	15.57	53.964		
8,300.0	8,274.1	8,289.9	8,275.9	9.3	9.3	-88.68	19.4	-395.4	840.2	824.5	15.67	53.614		
8,400.0	8,374.1	8,389.9	8,375.9	9.4	9.4	-88.68	19.4	-395.4	840.2	824.4	15.77	53.266		
8,500.0	8,474.1	8,489.9	8,475.9	9.5	9.5	-88.68	19.4	-395.4	840.2	824.3	15.88	52.921		
8,600.0	8,574.1	8,589.9	8,575.9	9.6	9.7	-88.68	19.4	-395.4	840.2	824.2	15.98	52.579		
8,700.0	8,674.1	8,689.9	8,675.9	9.7	9.8	-88.68	19.4	-395.4	840.2	824.1	16.08	52.239		
8,800.0	8,774.1	8,789.9	8,775.9	9.8	9.9	-88.68	19.4	-395.4	840.2	824.0	16.19	51.902		
8,900.0	8,874.1	8,889.9	8,875.9	9.9	10.0	-88.68	19.4	-395.4	840.2	823.9	16.29	51.567		
9,000.0	8,974.1	8,989.9	8,975.9	10.1	10.1	-88.68	19.4	-395.4	840.2	823.8	16.40	51.236		
9,100.0	9,074.1	9,089.9	9,075.9	10.2	10.2	-88.68	19.4	-395.4	840.2	823.7	16.50	50.906		
9,200.0	9,174.1	9,189.9	9,175.9	10.3	10.3	-88.68	19.4	-395.4	840.2	823.6	16.61	50.580		
9,300.0	9,274.1	9,289.9	9,275.9	10.4	10.4	-88.68	19.4	-395.4	840.2	823.4	16.72	50.256		
9,400.0	9,374.1	9,389.9	9,375.9	10.5	10.5	-88.68	19.4	-395.4	840.2	823.3	16.83	49.935		
9,500.0	9,474.1	9,489.9	9,475.9	10.6	10.6	-88.68	19.4	-395.4	840.2	823.2	16.93	49.617		
9,600.0	9,574.1	9,589.9	9,575.9	10.7	10.7	-88.68	19.4	-395.4	840.2	823.1	17.04	49.301		
9,700.0	9,674.1	9,689.9	9,675.9	10.8	10.8	-88.68	19.4	-395.4	840.2	823.0	17.15	48.988		
9,800.0	9,774.1	9,789.9	9,775.9	10.9	11.0	-88.68	19.4	-395.4	840.2	822.9	17.26	48.678		
9,900.0	9,874.1	9,889.9	9,875.9	11.0	11.1	-88.68	19.4	-395.4	840.2	822.8	17.37	48.370		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,974.1	9,989.9	9,975.9	11.1	11.2	-88.68		19.4	-395.4	840.2	822.7	17.48	48.065	
10,100.0	10,074.1	10,089.9	10,075.9	11.3	11.3	-88.68		19.4	-395.4	840.2	822.6	17.59	47.763	
10,200.0	10,174.1	10,189.9	10,175.9	11.4	11.4	-88.68		19.4	-395.4	840.2	822.5	17.70	47.463	
10,300.0	10,274.1	10,289.9	10,275.9	11.5	11.5	-88.68		19.4	-395.4	840.2	822.4	17.81	47.166	
10,400.0	10,374.1	10,389.9	10,375.9	11.6	11.6	-88.68		19.4	-395.4	840.2	822.2	17.92	46.872	
10,500.0	10,474.1	10,489.9	10,475.9	11.7	11.7	-88.68		19.4	-395.4	840.2	822.1	18.04	46.581	
10,600.0	10,574.1	10,589.9	10,575.9	11.8	11.9	-88.68		19.4	-395.4	840.2	822.0	18.15	46.292	
10,700.0	10,674.1	10,689.9	10,675.9	11.9	12.0	-88.68		19.4	-395.4	840.2	821.9	18.26	46.005	
10,800.0	10,774.1	10,789.9	10,775.9	12.0	12.1	-88.68		19.4	-395.4	840.2	821.8	18.38	45.722	
10,900.0	10,874.1	10,889.9	10,875.9	12.2	12.2	-88.68		19.4	-395.4	840.2	821.7	18.49	45.440	
11,000.0	10,974.1	10,989.9	10,975.9	12.3	12.3	-88.68		19.4	-395.4	840.2	821.6	18.60	45.162	
11,100.0	11,074.1	11,089.9	11,075.9	12.4	12.4	-88.68		19.4	-395.4	840.2	821.4	18.72	44.886	
11,200.0	11,174.1	11,189.9	11,175.9	12.5	12.6	-88.68		19.4	-395.4	840.2	821.3	18.83	44.612	
11,300.0	11,274.1	11,289.9	11,275.9	12.6	12.7	-88.68		19.4	-395.4	840.2	821.2	18.95	44.341	
11,400.0	11,374.1	11,389.9	11,375.9	12.7	12.8	-88.68		19.4	-395.4	840.2	821.1	19.06	44.073	
11,404.2	11,378.3	11,394.1	11,380.1	12.7	12.8	-88.68		19.4	-395.4	840.2	821.1	19.07	44.062	
11,452.4	11,426.5	11,441.7	11,427.8	12.8	12.8	-88.67		19.5	-395.4	840.2	821.1	19.11	43.963	
11,475.0	11,449.1	11,463.2	11,449.2	12.8	12.8	-88.28		20.4	-395.4	840.2	821.1	19.12	43.945	
11,500.0	11,474.0	11,486.9	11,472.9	12.8	12.9	-88.25		22.6	-395.5	840.2	821.1	19.12	43.937	
11,525.0	11,498.8	11,510.6	11,496.3	12.9	12.9	-88.22		25.9	-395.5	840.2	821.1	19.13	43.926	
11,550.0	11,523.4	11,534.3	11,519.6	12.9	12.9	-88.20		30.4	-395.5	840.2	821.1	19.14	43.909	
11,575.0	11,547.8	11,558.0	11,542.6	12.9	12.9	-88.18		36.1	-395.5	840.2	821.1	19.14	43.888	
11,600.0	11,571.8	11,581.7	11,565.3	13.0	13.0	-88.17		42.8	-395.6	840.2	821.1	19.16	43.862	
11,625.0	11,595.4	11,605.4	11,587.6	13.0	13.0	-88.17		50.7	-395.6	840.2	821.1	19.17	43.831	
11,650.0	11,618.5	11,629.0	11,609.5	13.0	13.0	-88.16		59.7	-395.7	840.2	821.0	19.19	43.794	
11,675.0	11,641.1	11,652.7	11,630.9	13.1	13.1	-88.17		69.7	-395.8	840.2	821.0	19.21	43.750	
11,700.0	11,663.2	11,676.3	11,651.8	13.1	13.1	-88.17		80.8	-395.8	840.2	821.0	19.23	43.700	
11,725.0	11,684.5	11,700.0	11,672.1	13.1	13.1	-88.18		92.9	-395.9	840.2	821.0	19.25	43.643	
11,750.0	11,705.2	11,723.7	11,691.9	13.2	13.2	-88.20		106.1	-396.0	840.2	820.9	19.28	43.578	
11,775.0	11,725.1	11,747.4	11,710.9	13.2	13.2	-88.22		120.2	-396.1	840.2	820.9	19.31	43.505	
11,800.0	11,744.2	11,771.1	11,729.2	13.2	13.2	-88.25		135.2	-396.2	840.2	820.8	19.35	43.424	
11,825.0	11,762.4	11,794.8	11,746.8	13.3	13.3	-88.28		151.1	-396.3	840.2	820.8	19.39	43.334	
11,850.0	11,779.7	11,818.6	11,763.6	13.3	13.3	-88.31		167.9	-396.4	840.2	820.7	19.43	43.234	
11,875.0	11,796.1	11,842.4	11,779.5	13.4	13.3	-88.35		185.6	-396.5	840.2	820.7	19.48	43.124	
11,900.0	11,811.4	11,866.2	11,794.6	13.4	13.3	-88.40		204.0	-396.6	840.1	820.6	19.54	43.005	
11,925.0	11,825.6	11,890.0	11,808.8	13.4	13.4	-88.45		223.2	-396.7	840.1	820.5	19.59	42.875	
11,950.0	11,838.8	11,913.9	11,821.9	13.5	13.4	-88.50		243.1	-396.9	840.1	820.4	19.66	42.734	
11,975.0	11,850.8	11,937.8	11,834.1	13.5	13.4	-88.55		263.6	-397.0	840.1	820.3	19.73	42.583	
12,000.0	11,861.7	11,961.7	11,845.3	13.5	13.5	-88.61		284.8	-397.1	840.1	820.3	19.80	42.421	
12,025.0	11,871.4	11,985.7	11,855.4	13.6	13.5	-88.68		306.5	-397.3	840.0	820.1	19.88	42.247	
12,050.0	11,879.9	12,009.7	11,864.4	13.6	13.5	-88.75		328.8	-397.4	840.0	820.0	19.97	42.063	
12,075.0	11,887.1	12,033.8	11,872.3	13.6	13.5	-88.82		351.6	-397.5	840.0	819.9	20.06	41.868	
12,100.0	11,893.0	12,057.9	11,879.1	13.6	13.6	-88.89		374.7	-397.7	840.0	819.8	20.16	41.662	
12,125.0	11,897.7	12,082.1	11,884.7	13.7	13.6	-88.97		398.2	-397.8	839.9	819.7	20.27	41.446	
12,150.0	11,901.1	12,106.3	11,889.1	13.7	13.6	-89.05		422.1	-398.0	839.9	819.6	20.38	41.221	
12,175.0	11,903.2	12,130.6	11,892.3	13.7	13.6	-89.13		446.1	-398.1	839.9	819.4	20.49	40.987	
12,202.4	11,904.0	12,157.3	11,894.4	13.7	13.6	-89.22		472.7	-398.3	839.9	819.3	20.63	40.721	
12,226.1	11,904.0	12,180.5	11,895.0	13.7	13.6	-89.26		495.9	-398.5	839.9	819.1	20.75	40.467	
12,300.0	11,904.0	12,254.4	11,895.0	13.8	13.7	-89.26		569.8	-398.9	839.9	818.7	21.20	39.623	
12,400.0	11,904.0	12,354.4	11,895.0	13.9	13.8	-89.26		669.8	-399.6	839.9	818.0	21.89	38.365	
12,500.0	11,904.0	12,454.4	11,895.0	14.0	13.8	-89.26		769.8	-400.2	839.9	817.2	22.67	37.042	
12,600.0	11,904.0	12,554.4	11,895.0	14.1	14.0	-89.26		869.8	-400.8	839.9	816.4	23.53	35.696	

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,700.0	11,904.0	12,654.4	11,895.0	14.2	14.1	-89.26	969.8	-401.5	839.9	815.4	24.45	34.352		
12,800.0	11,904.0	12,754.4	11,895.0	14.4	14.3	-89.26	1,069.7	-402.1	839.9	814.5	25.43	33.029		
12,900.0	11,904.0	12,854.4	11,895.0	14.6	14.5	-89.26	1,169.7	-402.7	839.9	813.4	26.46	31.742		
13,000.0	11,904.0	12,954.4	11,895.0	14.9	14.8	-89.26	1,269.7	-403.4	839.9	812.4	27.54	30.500		
13,100.0	11,904.0	13,054.4	11,895.0	15.3	15.1	-89.26	1,369.7	-404.0	839.9	811.2	28.66	29.310		
13,200.0	11,904.0	13,154.4	11,895.0	15.7	15.5	-89.26	1,469.7	-404.6	839.9	810.1	29.81	28.175		
13,300.0	11,904.0	13,254.4	11,895.0	16.1	16.0	-89.26	1,569.7	-405.3	839.9	808.9	31.00	27.097		
13,400.0	11,904.0	13,354.4	11,895.0	16.6	16.5	-89.26	1,669.7	-405.9	839.9	807.7	32.21	26.075		
13,500.0	11,904.0	13,454.4	11,895.0	17.2	17.0	-89.26	1,769.7	-406.5	839.9	806.5	33.45	25.108		
13,600.0	11,904.0	13,554.4	11,895.0	17.7	17.6	-89.26	1,869.7	-407.2	839.9	805.2	34.72	24.194		
13,700.0	11,904.0	13,654.4	11,895.0	18.3	18.2	-89.26	1,969.7	-407.8	839.9	803.9	36.00	23.331		
13,800.0	11,904.0	13,754.4	11,895.0	19.0	18.8	-89.26	2,069.7	-408.4	839.9	802.6	37.30	22.516		
13,900.0	11,904.0	13,854.4	11,895.0	19.6	19.4	-89.26	2,169.7	-409.1	839.9	801.3	38.62	21.748		
14,000.0	11,904.0	13,954.4	11,895.0	20.2	20.0	-89.26	2,269.7	-409.7	839.9	800.0	39.96	21.022		
14,100.0	11,904.0	14,054.4	11,895.0	20.9	20.7	-89.26	2,369.7	-410.3	839.9	798.6	41.30	20.336		
14,200.0	11,904.0	14,154.4	11,895.0	21.5	21.3	-89.26	2,469.7	-411.0	839.9	797.3	42.66	19.688		
14,300.0	11,904.0	14,254.4	11,895.0	22.2	22.0	-89.26	2,569.7	-411.6	839.9	795.9	44.03	19.076		
14,400.0	11,904.0	14,354.4	11,895.0	22.9	22.7	-89.26	2,669.7	-412.2	839.9	794.5	45.41	18.496		
14,500.0	11,904.0	14,454.4	11,895.0	23.6	23.4	-89.26	2,769.7	-412.8	839.9	793.1	46.80	17.947		
14,600.0	11,904.0	14,554.4	11,895.0	24.3	24.1	-89.26	2,869.7	-413.5	839.9	791.7	48.20	17.427		
14,700.0	11,904.0	14,654.4	11,895.0	25.0	24.8	-89.26	2,969.7	-414.1	839.9	790.3	49.60	16.933		
14,800.0	11,904.0	14,754.4	11,895.0	25.7	25.5	-89.26	3,069.7	-414.7	839.9	788.9	51.02	16.464		
14,900.0	11,904.0	14,854.4	11,895.0	26.4	26.2	-89.26	3,169.7	-415.4	839.9	787.5	52.43	16.019		
15,000.0	11,904.0	14,954.4	11,895.0	27.1	26.9	-89.26	3,269.7	-416.0	840.0	786.1	53.86	15.595		
15,100.0	11,904.0	15,054.4	11,895.0	27.8	27.6	-89.26	3,369.7	-416.6	840.0	784.7	55.29	15.192		
15,200.0	11,904.0	15,154.4	11,895.0	28.5	28.3	-89.26	3,469.7	-417.3	840.0	783.2	56.72	14.808		
15,300.0	11,904.0	15,254.4	11,895.0	29.2	29.0	-89.26	3,569.7	-417.9	840.0	781.8	58.16	14.441		
15,400.0	11,904.0	15,354.4	11,895.0	29.9	29.7	-89.26	3,669.7	-418.5	840.0	780.4	59.61	14.091		
15,500.0	11,904.0	15,454.4	11,895.0	30.7	30.5	-89.26	3,769.7	-419.2	840.0	778.9	61.06	13.757		
15,600.0	11,904.0	15,554.4	11,895.0	31.4	31.2	-89.26	3,869.7	-419.8	840.0	777.5	62.51	13.438		
15,700.0	11,904.0	15,654.4	11,895.0	32.1	31.9	-89.26	3,969.7	-420.4	840.0	776.0	63.96	13.132		
15,800.0	11,904.0	15,754.4	11,895.0	32.8	32.6	-89.26	4,069.7	-421.1	840.0	774.5	65.42	12.839		
15,900.0	11,904.0	15,854.4	11,895.0	33.6	33.4	-89.26	4,169.7	-421.7	840.0	773.1	66.88	12.559		
16,000.0	11,904.0	15,954.4	11,895.0	34.3	34.1	-89.26	4,269.7	-422.3	840.0	771.6	68.35	12.290		
16,100.0	11,904.0	16,054.4	11,895.0	35.0	34.8	-89.26	4,369.7	-423.0	840.0	770.2	69.81	12.032		
16,200.0	11,904.0	16,154.4	11,895.0	35.8	35.6	-89.26	4,469.7	-423.6	840.0	768.7	71.28	11.784		
16,300.0	11,904.0	16,254.4	11,895.0	36.5	36.3	-89.26	4,569.7	-424.2	840.0	767.2	72.76	11.545		
16,400.0	11,904.0	16,354.4	11,895.0	37.2	37.0	-89.26	4,669.7	-424.9	840.0	765.8	74.23	11.316		
16,500.0	11,904.0	16,454.4	11,895.0	38.0	37.8	-89.26	4,769.7	-425.5	840.0	764.3	75.71	11.095		
16,600.0	11,904.0	16,554.4	11,895.0	38.7	38.5	-89.26	4,869.7	-426.1	840.0	762.8	77.18	10.883		
16,700.0	11,904.0	16,654.4	11,895.0	39.5	39.3	-89.26	4,969.7	-426.8	840.0	761.3	78.66	10.678		
16,800.0	11,904.0	16,754.4	11,895.0	40.2	40.0	-89.26	5,069.7	-427.4	840.0	759.8	80.15	10.481		
16,900.0	11,904.0	16,854.4	11,895.0	40.9	40.7	-89.26	5,169.7	-428.0	840.0	758.4	81.63	10.290		
17,000.0	11,904.0	16,954.4	11,895.0	41.7	41.5	-89.26	5,269.7	-428.7	840.0	756.9	83.12	10.106		
17,100.0	11,904.0	17,054.4	11,895.0	42.4	42.2	-89.26	5,369.7	-429.3	840.0	755.4	84.60	9.929		
17,200.0	11,904.0	17,154.4	11,895.0	43.2	43.0	-89.26	5,469.7	-429.9	840.0	753.9	86.09	9.757		
17,300.0	11,904.0	17,254.4	11,895.0	43.9	43.7	-89.26	5,569.7	-430.6	840.0	752.4	87.58	9.591		
17,400.0	11,904.0	17,354.4	11,895.0	44.6	44.4	-89.26	5,669.7	-431.2	840.0	750.9	89.07	9.431		
17,500.0	11,904.0	17,454.4	11,895.0	45.4	45.2	-89.26	5,769.7	-431.8	840.0	749.5	90.56	9.276		
17,600.0	11,904.0	17,554.4	11,895.0	46.1	45.9	-89.26	5,869.7	-432.5	840.0	748.0	92.05	9.125		
17,700.0	11,904.0	17,654.4	11,895.0	46.9	46.7	-89.26	5,969.7	-433.1	840.0	746.5	93.55	8.979		
17,800.0	11,904.0	17,754.4	11,895.0	47.6	47.4	-89.26	6,069.6	-433.7	840.0	745.0	95.04	8.838		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
17,900.0	11,904.0	17,854.4	11,895.0	48.4	48.2	-89.26	6,169.6	-434.4	840.0	743.5	96.54	8.701
18,000.0	11,904.0	17,954.4	11,895.0	49.1	48.9	-89.26	6,269.6	-435.0	840.0	742.0	98.04	8.568
18,100.0	11,904.0	18,054.4	11,895.0	49.9	49.7	-89.26	6,369.6	-435.6	840.0	740.5	99.53	8.440
18,200.0	11,904.0	18,154.4	11,895.0	50.6	50.4	-89.26	6,469.6	-436.3	840.0	739.0	101.03	8.314
18,300.0	11,904.0	18,254.4	11,895.0	51.4	51.2	-89.26	6,569.6	-436.9	840.0	737.5	102.53	8.193
18,400.0	11,904.0	18,354.4	11,895.0	52.1	51.9	-89.26	6,669.6	-437.5	840.0	736.0	104.03	8.075
18,500.0	11,904.0	18,454.4	11,895.0	52.9	52.7	-89.26	6,769.6	-438.2	840.0	734.5	105.53	7.960
18,600.0	11,904.0	18,554.4	11,895.0	53.6	53.4	-89.26	6,869.6	-438.8	840.0	733.0	107.04	7.848
18,700.0	11,904.0	18,654.4	11,895.0	54.4	54.2	-89.26	6,969.6	-439.4	840.0	731.5	108.54	7.740
18,800.0	11,904.0	18,754.4	11,895.0	55.1	54.9	-89.26	7,069.6	-440.1	840.0	730.0	110.04	7.634
18,900.0	11,904.0	18,854.4	11,895.0	55.9	55.7	-89.26	7,169.6	-440.7	840.0	728.5	111.55	7.531
19,000.0	11,904.0	18,954.4	11,895.0	56.6	56.4	-89.26	7,269.6	-441.3	840.0	727.0	113.05	7.431
19,100.0	11,904.0	19,054.4	11,895.0	57.4	57.2	-89.26	7,369.6	-442.0	840.1	725.5	114.56	7.333
19,200.0	11,904.0	19,154.4	11,895.0	58.1	57.9	-89.26	7,469.6	-442.6	840.1	724.0	116.06	7.238
19,300.0	11,904.0	19,254.4	11,895.0	58.9	58.7	-89.26	7,569.6	-443.2	840.1	722.5	117.57	7.145
19,400.0	11,904.0	19,354.4	11,895.0	59.6	59.4	-89.26	7,669.6	-443.9	840.1	721.0	119.07	7.055
19,500.0	11,904.0	19,454.4	11,895.0	60.4	60.2	-89.26	7,769.6	-444.5	840.1	719.5	120.58	6.967
19,600.0	11,904.0	19,554.4	11,895.0	61.2	61.0	-89.26	7,869.6	-445.1	840.1	718.0	122.09	6.881
19,605.2	11,904.0	19,559.6	11,895.0	61.2	61.0	-89.26	7,874.9	-445.2	840.1	717.9	122.16	6.877
19,658.0	11,904.0	19,609.5	11,895.0	61.5	61.4	-89.26	7,924.7	-445.5	840.1	717.2	122.84	6.839 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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 11259-MWD+IFR1+MS <th colspan="4">Rule Assigned:</th> <th>Offset Well Error:</th> <td>3.0 usft</td>					Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	1.0	1.0	3.0	3.0	-90.66	-0.4	-32.9	32.9					
100.0	100.0	101.0	101.0	3.0	3.0	-90.66	-0.4	-32.9	32.9	26.9	6.00	5.477		
200.0	200.0	201.0	201.0	3.0	3.0	-90.66	-0.4	-32.9	32.9	26.9	6.00	5.474		
300.0	300.0	301.0	301.0	3.0	3.0	-90.66	-0.4	-32.9	32.9	26.9	6.01	5.469		
400.0	400.0	401.0	401.0	3.0	3.0	-90.66	-0.4	-32.9	32.9	26.8	6.02	5.460		
500.0	500.0	501.0	501.0	3.1	3.1	-90.66	-0.4	-32.9	32.9	26.8	6.03	5.449		
600.0	600.0	601.0	601.0	3.1	3.1	-90.66	-0.4	-32.9	32.9	26.8	6.05	5.435		
700.0	700.0	701.0	701.0	3.1	3.1	-90.66	-0.4	-32.9	32.9	26.8	6.07	5.418		
800.0	800.0	801.0	801.0	3.2	3.2	-90.66	-0.4	-32.9	32.9	26.8	6.09	5.399		
900.0	900.0	901.0	901.0	3.2	3.2	-90.66	-0.4	-32.9	32.9	26.7	6.11	5.376		
1,000.0	1,000.0	1,001.0	1,001.0	3.2	3.2	-90.66	-0.4	-32.9	32.9	26.7	6.14	5.352		
1,100.0	1,100.0	1,101.0	1,101.0	3.3	3.3	-90.66	-0.4	-32.9	32.9	26.7	6.17	5.325		
1,200.0	1,200.0	1,201.0	1,201.0	3.4	3.4	-90.66	-0.4	-32.9	32.9	26.7	6.21	5.295		
1,300.0	1,300.0	1,301.0	1,301.0	3.4	3.4	-90.66	-0.4	-32.9	32.9	26.6	6.24	5.264		
1,400.0	1,400.0	1,401.0	1,401.0	3.5	3.5	-90.66	-0.4	-32.9	32.9	26.6	6.28	5.230		
1,500.0	1,500.0	1,501.0	1,501.0	3.5	3.5	-90.66	-0.4	-32.9	32.9	26.5	6.33	5.195		
1,600.0	1,600.0	1,601.0	1,601.0	3.6	3.6	-90.66	-0.4	-32.9	32.9	26.5	6.37	5.158		
1,700.0	1,700.0	1,701.0	1,701.0	3.7	3.7	-90.66	-0.4	-32.9	32.9	26.4	6.42	5.119		
1,800.0	1,800.0	1,801.0	1,801.0	3.8	3.8	-90.66	-0.4	-32.9	32.9	26.4	6.47	5.079		
1,900.0	1,900.0	1,901.0	1,901.0	3.9	3.9	-90.66	-0.4	-32.9	32.9	26.3	6.52	5.037		
2,000.0	2,000.0	2,001.0	2,001.0	3.9	3.9	-90.66	-0.4	-32.9	32.9	26.3	6.58	4.994		
2,001.8	2,001.8	2,002.8	2,002.8	3.9	3.9	179.34	-0.4	-32.9	32.9	26.3	6.58	4.993 CC, ES		
2,100.0	2,100.0	2,101.7	2,101.7	4.0	4.0	-178.24	1.0	-31.7	33.5	26.9	6.64	5.046		
2,200.0	2,199.8	2,201.6	2,201.5	4.0	4.1	-174.14	3.7	-29.5	36.7	30.0	6.70	5.478		
2,300.0	2,299.5	2,301.4	2,301.2	4.1	4.2	-171.44	6.5	-27.4	43.5	36.8	6.77	6.433		
2,350.0	2,349.1	2,351.1	2,351.0	4.1	4.2	-170.64	7.8	-26.3	48.3	41.5	6.80	7.097		
2,400.0	2,398.8	2,400.9	2,400.7	4.1	4.2	-170.07	9.2	-25.2	53.4	46.6	6.83	7.819		
2,500.0	2,498.0	2,500.3	2,500.1	4.1	4.3	-169.22	11.9	-23.0	63.8	56.9	6.90	9.240		
2,600.0	2,597.3	2,599.8	2,599.5	4.2	4.4	-168.60	14.6	-20.8	74.1	67.1	6.97	10.629		
2,700.0	2,696.5	2,699.2	2,698.9	4.2	4.5	-168.13	17.3	-18.7	84.5	77.4	7.05	11.983		
2,800.0	2,795.8	2,798.7	2,798.3	4.3	4.6	-167.77	20.0	-16.5	94.8	87.7	7.13	13.301		
2,900.0	2,895.0	2,898.2	2,897.7	4.3	4.7	-167.48	22.7	-14.3	105.2	98.0	7.21	14.580		
3,000.0	2,994.3	2,997.6	2,997.1	4.4	4.8	-167.24	25.4	-12.1	115.5	108.2	7.30	15.820		
3,100.0	3,093.5	3,097.1	3,096.5	4.5	4.9	-167.03	28.1	-10.0	125.9	118.5	7.40	17.019		
3,200.0	3,192.8	3,196.5	3,195.9	4.5	5.0	-166.86	30.8	-7.8	136.3	128.8	7.50	18.177		
3,300.0	3,292.0	3,296.0	3,295.3	4.6	5.1	-166.72	33.5	-5.6	146.6	139.0	7.60	19.294		
3,400.0	3,391.3	3,395.5	3,394.7	4.7	5.2	-166.59	36.2	-3.4	157.0	149.3	7.71	20.369		
3,500.0	3,490.6	3,494.9	3,494.1	4.7	5.3	-166.48	38.9	-1.3	167.4	159.5	7.82	21.404		
3,600.0	3,589.8	3,594.4	3,593.5	4.8	5.4	-166.38	41.6	0.9	177.7	169.8	7.94	22.398		
3,700.0	3,689.1	3,693.9	3,692.9	4.9	5.5	-166.30	44.3	3.1	188.1	180.0	8.05	23.352		
3,800.0	3,788.3	3,793.3	3,792.3	5.0	5.6	-166.22	47.0	5.3	198.5	190.3	8.18	24.268		
3,900.0	3,887.6	3,892.8	3,891.7	5.1	5.7	-166.15	49.7	7.4	208.8	200.5	8.31	25.146		
4,000.0	3,986.8	3,992.2	3,991.1	5.1	5.8	-166.08	52.4	9.6	219.2	210.8	8.44	25.987		
4,100.0	4,086.1	4,091.7	4,090.5	5.2	5.9	-166.02	55.1	11.8	229.6	221.0	8.57	26.792		
4,200.0	4,185.3	4,191.2	4,189.9	5.3	6.0	-165.97	57.8	14.0	239.9	231.2	8.71	27.563		
4,300.0	4,284.6	4,290.6	4,289.3	5.4	6.1	-165.92	60.6	16.1	250.3	241.5	8.84	28.300		
4,400.0	4,383.8	4,390.1	4,388.7	5.5	6.2	-165.88	63.3	18.3	260.7	251.7	8.99	29.006		
4,500.0	4,483.1	4,489.5	4,488.1	5.6	6.3	-165.84	66.0	20.5	271.1	261.9	9.13	29.681		
4,600.0	4,582.4	4,587.7	4,586.2	5.7	6.4	-165.87	68.4	22.4	281.6	272.3	9.28	30.335		
4,700.0	4,681.6	4,685.0	4,683.5	5.8	6.5	-166.17	69.5	23.4	292.8	283.3	9.44	31.000		
4,800.0	4,780.9	4,783.4	4,781.9	5.9	6.6	-166.69	69.6	23.4	304.6	295.0	9.61	31.702		
4,900.0	4,880.1	4,882.7	4,881.1	6.0	6.8	-167.20	69.6	23.4	316.4	306.7	9.77	32.393		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11259-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,979.4	4,981.9	4,980.4	6.1	6.9	-167.67	69.6	23.4	328.3	318.4	9.93	33.060		
5,100.0	5,078.6	5,081.2	5,079.6	6.2	7.0	-168.11	69.6	23.4	340.3	330.2	10.10	33.702		
5,200.0	5,177.9	5,180.4	5,178.9	6.3	7.1	-168.52	69.6	23.4	352.2	341.9	10.26	34.321		
5,300.0	5,277.1	5,279.7	5,278.1	6.4	7.2	-168.90	69.6	23.4	364.1	353.7	10.43	34.918		
5,400.0	5,376.4	5,378.9	5,377.4	6.5	7.3	-169.25	69.6	23.4	376.1	365.5	10.60	35.495		
5,471.7	5,447.6	5,450.1	5,448.6	6.6	7.4	-169.50	69.6	23.4	384.7	374.0	10.72	35.895		
5,500.0	5,475.7	5,478.2	5,476.7	6.6	7.4	-169.59	69.6	23.4	388.0	377.3	10.77	36.044		
5,600.0	5,575.1	5,577.6	5,576.1	6.7	7.5	-169.89	69.6	23.4	398.7	387.8	10.93	36.464		
5,700.0	5,674.7	5,677.2	5,675.7	6.9	7.7	-170.13	69.6	23.4	407.6	396.5	11.10	36.721		
5,800.0	5,774.4	5,776.9	5,775.4	7.0	7.8	-170.32	69.6	23.4	414.9	403.6	11.27	36.821		
5,900.0	5,874.2	5,876.8	5,875.2	7.1	7.9	-170.46	69.6	23.4	420.4	409.0	11.43	36.772		
6,000.0	5,974.1	5,976.7	5,975.1	7.2	8.0	-170.55	69.6	23.4	424.2	412.6	11.60	36.580		
6,100.0	6,074.1	6,076.7	6,075.1	7.3	8.1	-170.60	69.6	23.4	426.3	414.6	11.76	36.249		
6,171.7	6,145.8	6,148.4	6,146.8	7.3	8.2	-80.61	69.6	23.4	426.8	414.9	11.85	36.011		
6,200.0	6,174.1	6,176.7	6,175.1	7.3	8.3	-80.61	69.6	23.4	426.8	414.9	11.88	35.936		
6,300.0	6,274.1	6,276.7	6,275.1	7.4	8.4	-80.61	69.6	23.4	426.8	414.8	11.96	35.670		
6,400.0	6,374.1	6,376.7	6,375.1	7.5	8.5	-80.61	69.6	23.4	426.8	414.7	12.05	35.405		
6,500.0	6,474.1	6,476.7	6,475.1	7.6	8.6	-80.61	69.6	23.4	426.8	414.6	12.14	35.141		
6,600.0	6,574.1	6,576.7	6,575.1	7.7	8.7	-80.61	69.6	23.4	426.8	414.5	12.24	34.878		
6,700.0	6,674.1	6,676.7	6,675.1	7.8	8.9	-80.61	69.6	23.4	426.8	414.4	12.33	34.616		
6,800.0	6,774.1	6,776.7	6,775.1	7.9	9.0	-80.61	69.6	23.4	426.8	414.4	12.42	34.356		
6,900.0	6,874.1	6,876.7	6,875.1	8.0	9.1	-80.61	69.6	23.4	426.8	414.3	12.52	34.097		
7,000.0	6,974.1	6,976.7	6,975.1	8.0	9.2	-80.61	69.6	23.4	426.8	414.2	12.61	33.839		
7,100.0	7,074.1	7,076.7	7,075.1	8.1	9.3	-80.61	69.6	23.4	426.8	414.1	12.71	33.583		
7,200.0	7,174.1	7,176.7	7,175.1	8.2	9.5	-80.61	69.6	23.4	426.8	414.0	12.81	33.329		
7,300.0	7,274.1	7,276.7	7,275.1	8.3	9.6	-80.61	69.6	23.4	426.8	413.9	12.90	33.076		
7,400.0	7,374.1	7,376.7	7,375.1	8.4	9.7	-80.61	69.6	23.4	426.8	413.8	13.00	32.825		
7,500.0	7,474.1	7,476.7	7,475.1	8.5	9.8	-80.61	69.6	23.4	426.8	413.7	13.10	32.576		
7,600.0	7,574.1	7,576.7	7,575.1	8.6	10.0	-80.61	69.6	23.4	426.8	413.6	13.20	32.328		
7,700.0	7,674.1	7,676.7	7,675.1	8.7	10.1	-80.61	69.6	23.4	426.8	413.5	13.30	32.083		
7,800.0	7,774.1	7,776.7	7,775.1	8.8	10.2	-80.61	69.6	23.4	426.8	413.4	13.40	31.839		
7,900.0	7,874.1	7,876.7	7,875.1	8.9	10.3	-80.61	69.6	23.4	426.8	413.3	13.51	31.597		
8,000.0	7,974.1	7,976.7	7,975.1	9.0	10.4	-80.61	69.6	23.4	426.8	413.2	13.61	31.358		
8,100.0	8,074.1	8,076.7	8,075.1	9.1	10.6	-80.61	69.6	23.4	426.8	413.1	13.71	31.120		
8,200.0	8,174.1	8,176.7	8,175.1	9.2	10.7	-80.61	69.6	23.4	426.8	413.0	13.82	30.884		
8,300.0	8,274.1	8,276.7	8,275.1	9.3	10.8	-80.61	69.6	23.4	426.8	412.9	13.92	30.650		
8,400.0	8,374.1	8,376.7	8,375.1	9.4	10.9	-80.61	69.6	23.4	426.8	412.7	14.03	30.419		
8,500.0	8,474.1	8,476.7	8,475.1	9.5	11.1	-80.61	69.6	23.4	426.8	412.6	14.14	30.189		
8,600.0	8,574.1	8,576.7	8,575.1	9.6	11.2	-80.61	69.6	23.4	426.8	412.5	14.24	29.962		
8,700.0	8,674.1	8,676.7	8,675.1	9.7	11.3	-80.61	69.6	23.4	426.8	412.4	14.35	29.737		
8,800.0	8,774.1	8,776.7	8,775.1	9.8	11.4	-80.61	69.6	23.4	426.8	412.3	14.46	29.513		
8,900.0	8,874.1	8,876.7	8,875.1	9.9	11.6	-80.61	69.6	23.4	426.8	412.2	14.57	29.292		
9,000.0	8,974.1	8,976.7	8,975.1	10.1	11.7	-80.61	69.6	23.4	426.8	412.1	14.68	29.073		
9,100.0	9,074.1	9,076.7	9,075.1	10.2	11.8	-80.61	69.6	23.4	426.8	412.0	14.79	28.857		
9,200.0	9,174.1	9,176.7	9,175.1	10.3	11.9	-80.61	69.6	23.4	426.8	411.9	14.90	28.642		
9,300.0	9,274.1	9,276.7	9,275.1	10.4	12.1	-80.61	69.6	23.4	426.8	411.8	15.01	28.429		
9,400.0	9,374.1	9,376.7	9,375.1	10.5	12.2	-80.61	69.6	23.4	426.8	411.7	15.12	28.219		
9,500.0	9,474.1	9,476.7	9,475.1	10.6	12.3	-80.61	69.6	23.4	426.8	411.5	15.24	28.011		
9,600.0	9,574.1	9,576.7	9,575.1	10.7	12.5	-80.61	69.6	23.4	426.8	411.4	15.35	27.805		
9,700.0	9,674.1	9,676.7	9,675.1	10.8	12.6	-80.61	69.6	23.4	426.8	411.3	15.46	27.600		
9,800.0	9,774.1	9,776.7	9,775.1	10.9	12.7	-80.61	69.6	23.4	426.8	411.2	15.58	27.399		
9,900.0	9,874.1	9,876.7	9,875.1	11.0	12.8	-80.61	69.6	23.4	426.8	411.1	15.69	27.199		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11259-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,000.0	9,974.1	9,976.7	9,975.1	11.1	13.0	-80.61	69.6	23.4	426.8	411.0	15.81	27.001		
10,100.0	10,074.1	10,076.7	10,075.1	11.3	13.1	-80.61	69.6	23.4	426.8	410.9	15.92	26.805		
10,200.0	10,174.1	10,176.7	10,175.1	11.4	13.2	-80.61	69.6	23.4	426.8	410.7	16.04	26.612		
10,300.0	10,274.1	10,276.7	10,275.1	11.5	13.3	-80.61	69.6	23.4	426.8	410.6	16.15	26.420		
10,400.0	10,374.1	10,376.7	10,375.1	11.6	13.5	-80.61	69.6	23.4	426.8	410.5	16.27	26.231		
10,500.0	10,474.1	10,476.7	10,475.1	11.7	13.6	-80.61	69.6	23.4	426.8	410.4	16.39	26.043		
10,600.0	10,574.1	10,576.7	10,575.1	11.8	13.7	-80.61	69.6	23.4	426.8	410.3	16.50	25.858		
10,700.0	10,674.1	10,676.7	10,675.1	11.9	13.8	-80.61	69.6	23.4	426.8	410.2	16.62	25.674		
10,800.0	10,774.1	10,776.7	10,775.1	12.0	14.0	-80.61	69.6	23.4	426.8	410.0	16.74	25.493		
10,900.0	10,874.1	10,876.7	10,875.1	12.2	14.1	-80.61	69.6	23.4	426.8	409.9	16.86	25.313		
11,000.0	10,974.1	10,976.7	10,975.1	12.3	14.2	-80.61	69.6	23.4	426.8	409.8	16.98	25.136		
11,100.0	11,074.1	11,076.7	11,075.1	12.4	14.4	-80.61	69.6	23.4	426.8	409.7	17.10	24.960		
11,200.0	11,174.1	11,176.7	11,175.1	12.5	14.5	-80.61	69.6	23.4	426.8	409.6	17.22	24.786		
11,205.6	11,179.7	11,182.3	11,180.7	12.5	14.5	-80.61	69.6	23.4	426.8	409.6	17.23	24.776		
11,300.0	11,274.1	11,275.0	11,273.5	12.6	14.6	-80.58	69.9	23.4	426.8	409.5	17.32	24.645		
11,400.0	11,374.1	11,359.7	11,357.4	12.7	14.7	-79.22	80.2	23.4	429.1	411.6	17.49	24.538		
11,452.4	11,426.5	11,402.2	11,398.6	12.8	14.7	-77.82	90.9	23.3	431.9	414.2	17.68	24.425		
11,475.0	11,449.1	11,420.1	11,415.5	12.8	14.7	-76.60	96.5	23.3	433.4	415.8	17.65	24.561		
11,500.0	11,474.0	11,439.7	11,433.9	12.8	14.8	-75.70	103.4	23.2	435.1	417.4	17.78	24.472		
11,525.0	11,498.8	11,459.1	11,451.7	12.9	14.8	-74.82	110.9	23.2	436.9	419.0	17.95	24.336		
11,550.0	11,523.4	11,478.3	11,469.2	12.9	14.8	-73.99	119.1	23.1	438.7	420.6	18.16	24.156		
11,575.0	11,547.8	11,500.0	11,488.4	12.9	14.8	-73.11	129.1	23.1	440.5	422.2	18.33	24.028		
11,600.0	11,571.8	11,516.4	11,502.6	13.0	14.9	-72.44	137.3	23.0	442.3	423.6	18.68	23.675		
11,625.0	11,595.4	11,535.3	11,518.6	13.0	14.9	-71.72	147.3	23.0	444.0	425.0	18.99	23.384		
11,650.0	11,618.5	11,554.1	11,534.1	13.0	14.9	-71.05	157.9	22.9	445.7	426.4	19.32	23.068		
11,675.0	11,641.1	11,575.0	11,550.9	13.1	15.0	-70.36	170.4	22.8	447.4	427.8	19.60	22.827		
11,700.0	11,663.2	11,591.3	11,563.6	13.1	15.0	-69.83	180.6	22.7	448.9	428.9	20.06	22.384		
11,725.0	11,684.5	11,609.8	11,577.5	13.1	15.0	-69.29	192.7	22.7	450.4	430.0	20.45	22.027		
11,750.0	11,705.2	11,625.0	11,588.7	13.2	15.0	-68.84	203.1	22.6	451.9	430.9	20.98	21.542		
11,775.0	11,725.1	11,646.5	11,603.8	13.2	15.0	-68.33	218.4	22.5	453.2	431.9	21.27	21.310		
11,800.0	11,744.2	11,664.8	11,616.1	13.2	15.1	-67.92	231.9	22.4	454.4	432.7	21.68	20.958		
11,825.0	11,762.4	11,683.0	11,627.9	13.3	15.1	-67.56	245.8	22.3	455.4	433.4	22.09	20.614		
11,850.0	11,779.7	11,700.0	11,638.4	13.3	15.1	-67.25	259.2	22.3	456.4	433.9	22.55	20.244		
11,875.0	11,796.1	11,719.3	11,649.7	13.4	15.1	-66.97	274.8	22.2	457.3	434.3	22.90	19.965		
11,900.0	11,811.4	11,737.4	11,659.8	13.4	15.2	-66.74	289.9	22.1	458.0	434.7	23.29	19.662		
11,925.0	11,825.6	11,755.5	11,669.2	13.4	15.2	-66.56	305.3	22.0	458.5	434.9	23.66	19.376		
11,950.0	11,838.8	11,775.0	11,678.7	13.5	15.2	-66.42	322.3	21.9	458.9	435.0	23.97	19.147		
11,975.0	11,850.8	11,791.6	11,686.3	13.5	15.2	-66.34	337.0	21.8	459.2	434.9	24.35	18.857		
12,000.0	11,861.7	11,809.6	11,693.9	13.5	15.2	-66.29	353.4	21.7	459.4	434.7	24.66	18.625		
12,025.0	11,871.4	11,825.0	11,699.9	13.6	15.3	-66.29	367.6	21.6	459.4	434.3	25.03	18.355		
12,032.7	11,874.1	11,833.2	11,702.9	13.6	15.3	-66.31	375.2	21.5	459.3	434.3	25.03	18.349		
12,050.0	11,879.9	11,845.7	11,707.3	13.6	15.3	-66.35	386.9	21.5	459.2	434.0	25.21	18.216		
12,075.0	11,887.1	11,863.7	11,713.0	13.6	15.3	-66.44	404.0	21.4	458.9	433.4	25.44	18.040		
12,100.0	11,893.0	11,881.7	11,718.1	13.6	15.3	-66.58	421.3	21.3	458.4	432.8	25.64	17.883		
12,125.0	11,897.7	11,900.0	11,722.6	13.7	15.3	-66.77	439.0	21.1	457.8	432.0	25.80	17.747		
12,150.0	11,901.1	11,917.9	11,726.3	13.7	15.3	-67.01	456.5	21.0	457.1	431.2	25.94	17.624		
12,175.0	11,903.2	11,936.1	11,729.4	13.7	15.3	-67.29	474.4	20.9	456.2	430.2	26.04	17.521		
12,202.4	11,904.0	11,956.0	11,732.0	13.7	15.3	-67.65	494.1	20.8	455.2	429.0	26.11	17.430		
12,300.0	11,904.0	12,034.4	11,735.0	13.8	15.4	-67.99	572.5	20.3	453.6	427.1	26.56	17.076		
12,400.0	11,904.0	12,134.4	11,735.0	13.9	15.4	-67.99	672.5	19.7	453.6	426.5	27.08	16.754		
12,500.0	11,904.0	12,234.4	11,735.0	14.0	15.4	-67.99	772.5	19.1	453.6	426.0	27.66	16.397		
12,600.0	11,904.0	12,334.4	11,735.0	14.1	15.5	-67.99	872.5	18.4	453.6	425.3	28.32	16.015		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11259-MWD+IFR1+MS				Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Distance	Minimum Separation	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)				
12,700.0	11,904.0	12,434.4	11,735.0	14.2	15.5	-67.99	972.4	17.8	453.6	424.6	29.05 15.615			
12,800.0	11,904.0	12,534.4	11,735.0	14.4	15.5	-67.99	1,072.4	17.2	453.6	423.8	29.84 15.203			
12,900.0	11,904.0	12,634.4	11,735.0	14.6	15.6	-67.99	1,172.4	16.6	453.6	422.9	30.68 14.785			
13,000.0	11,904.0	12,734.4	11,735.0	14.9	15.7	-67.99	1,272.4	15.9	453.6	422.0	31.57 14.366			
13,100.0	11,904.0	12,834.4	11,735.0	15.3	15.7	-67.99	1,372.4	15.3	453.6	421.1	32.52 13.949			
13,200.0	11,904.0	12,934.4	11,735.0	15.7	15.8	-67.99	1,472.4	14.7	453.6	420.1	33.50 13.538			
13,300.0	11,904.0	13,034.4	11,735.0	16.1	16.0	-67.99	1,572.4	14.1	453.6	419.0	34.53 13.136			
13,400.0	11,904.0	13,134.4	11,735.0	16.6	16.2	-67.99	1,672.4	13.5	453.6	418.0	35.59 12.744			
13,500.0	11,904.0	13,234.4	11,735.0	17.2	16.5	-67.99	1,772.4	12.8	453.5	416.9	36.69 12.363			
13,600.0	11,904.0	13,334.4	11,735.0	17.7	16.9	-67.99	1,872.4	12.2	453.5	415.7	37.81 11.994			
13,700.0	11,904.0	13,434.4	11,735.0	18.3	17.4	-67.99	1,972.4	11.6	453.5	414.6	38.97 11.639			
13,800.0	11,904.0	13,534.4	11,735.0	19.0	18.0	-67.99	2,072.4	11.0	453.5	413.4	40.14 11.297			
13,900.0	11,904.0	13,634.4	11,735.0	19.6	18.6	-67.98	2,172.4	10.3	453.5	412.2	41.35 10.969			
14,000.0	11,904.0	13,734.4	11,735.0	20.2	19.2	-67.98	2,272.4	9.7	453.5	410.9	42.57 10.653			
14,100.0	11,904.0	13,834.4	11,735.0	20.9	19.9	-67.98	2,372.4	9.1	453.5	409.7	43.81 10.351			
14,200.0	11,904.0	13,934.4	11,735.0	21.5	20.6	-67.98	2,472.4	8.5	453.5	408.4	45.07 10.061			
14,300.0	11,904.0	14,034.4	11,735.0	22.2	21.3	-67.98	2,572.4	7.9	453.5	407.1	46.35 9.784			
14,400.0	11,904.0	14,134.4	11,735.0	22.9	22.0	-67.98	2,672.4	7.2	453.5	405.8	47.64 9.518			
14,500.0	11,904.0	14,234.4	11,735.0	23.6	22.7	-67.98	2,772.4	6.6	453.5	404.5	48.95 9.264			
14,600.0	11,904.0	14,334.4	11,735.0	24.3	23.4	-67.98	2,872.4	6.0	453.5	403.2	50.27 9.021			
14,700.0	11,904.0	14,434.4	11,735.0	25.0	24.1	-67.98	2,972.4	5.4	453.5	401.9	51.60 8.789			
14,800.0	11,904.0	14,534.4	11,735.0	25.7	24.8	-67.98	3,072.4	4.7	453.5	400.5	52.94 8.566			
14,900.0	11,904.0	14,634.4	11,735.0	26.4	25.5	-67.98	3,172.4	4.1	453.4	399.2	54.29 8.352			
15,000.0	11,904.0	14,734.4	11,735.0	27.1	26.2	-67.98	3,272.4	3.5	453.4	397.8	55.65 8.148			
15,100.0	11,904.0	14,834.4	11,735.0	27.8	26.9	-67.98	3,372.4	2.9	453.4	396.4	57.02 7.952			
15,200.0	11,904.0	14,934.4	11,735.0	28.5	27.6	-67.98	3,472.4	2.3	453.4	395.0	58.40 7.765			
15,300.0	11,904.0	15,034.4	11,735.0	29.2	28.4	-67.98	3,572.4	1.6	453.4	393.6	59.78 7.585			
15,400.0	11,904.0	15,134.4	11,735.0	29.9	29.1	-67.98	3,672.4	1.0	453.4	392.2	61.17 7.412			
15,500.0	11,904.0	15,234.4	11,735.0	30.7	29.8	-67.98	3,772.4	0.4	453.4	390.8	62.57 7.246			
15,600.0	11,904.0	15,334.4	11,735.0	31.4	30.5	-67.98	3,872.4	-0.2	453.4	389.4	63.98 7.087			
15,700.0	11,904.0	15,434.4	11,735.0	32.1	31.3	-67.98	3,972.4	-0.9	453.4	388.0	65.39 6.934			
15,800.0	11,904.0	15,534.4	11,735.0	32.8	32.0	-67.98	4,072.4	-1.5	453.4	386.6	66.80 6.787			
15,900.0	11,904.0	15,634.4	11,735.0	33.6	32.8	-67.98	4,172.4	-2.1	453.4	385.1	68.22 6.646			
16,000.0	11,904.0	15,734.4	11,735.0	34.3	33.5	-67.98	4,272.4	-2.7	453.4	383.7	69.65 6.509			
16,100.0	11,904.0	15,834.4	11,735.0	35.0	34.2	-67.98	4,372.4	-3.4	453.4	382.3	71.08 6.378			
16,200.0	11,904.0	15,934.4	11,735.0	35.8	35.0	-67.98	4,472.4	-4.0	453.3	380.8	72.51 6.252			
16,300.0	11,904.0	16,034.4	11,735.0	36.5	35.7	-67.98	4,572.4	-4.6	453.3	379.4	73.95 6.131			
16,400.0	11,904.0	16,134.4	11,735.0	37.2	36.4	-67.98	4,672.4	-5.2	453.3	377.9	75.39 6.013			
16,500.0	11,904.0	16,234.4	11,735.0	38.0	37.2	-67.98	4,772.4	-5.8	453.3	376.5	76.83 5.900			
16,600.0	11,904.0	16,334.4	11,735.0	38.7	37.9	-67.97	4,872.4	-6.5	453.3	375.0	78.28 5.791			
16,700.0	11,904.0	16,434.4	11,735.0	39.5	38.7	-67.97	4,972.4	-7.1	453.3	373.6	79.73 5.685			
16,800.0	11,904.0	16,534.4	11,735.0	40.2	39.4	-67.97	5,072.4	-7.7	453.3	372.1	81.19 5.583			
16,900.0	11,904.0	16,634.4	11,735.0	40.9	40.2	-67.97	5,172.4	-8.3	453.3	370.7	82.65 5.485			
17,000.0	11,904.0	16,734.4	11,735.0	41.7	40.9	-67.97	5,272.4	-9.0	453.3	369.2	84.11 5.390			
17,100.0	11,904.0	16,834.4	11,735.0	42.4	41.7	-67.97	5,372.4	-9.6	453.3	367.7	85.57 5.297			
17,200.0	11,904.0	16,934.4	11,735.0	43.2	42.4	-67.97	5,472.4	-10.2	453.3	366.2	87.03 5.208			
17,300.0	11,904.0	17,034.4	11,735.0	43.9	43.1	-67.97	5,572.4	-10.8	453.3	364.8	88.50 5.122			
17,400.0	11,904.0	17,134.4	11,735.0	44.6	43.9	-67.97	5,672.4	-11.4	453.3	363.3	89.97 5.038			
17,500.0	11,904.0	17,234.4	11,735.0	45.4	44.6	-67.97	5,772.4	-12.1	453.3	361.8	91.44 4.957			
17,600.0	11,904.0	17,334.4	11,735.0	46.1	45.4	-67.97	5,872.4	-12.7	453.2	360.3	92.91 4.878			
17,700.0	11,904.0	17,434.4	11,735.0	46.9	46.1	-67.97	5,972.4	-13.3	453.2	358.9	94.39 4.802			
17,800.0	11,904.0	17,534.4	11,735.0	47.6	46.9	-67.97	6,072.3	-13.9	453.2	357.4	95.86 4.728			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11259-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
17,900.0	11,904.0	17,634.4	11,735.0	48.4	47.6	-67.97	6,172.3	-14.6	453.2	355.9	97.34	4.656	
18,000.0	11,904.0	17,734.4	11,735.0	49.1	48.4	-67.97	6,272.3	-15.2	453.2	354.4	98.82	4.586	
18,100.0	11,904.0	17,834.4	11,735.0	49.9	49.1	-67.97	6,372.3	-15.8	453.2	352.9	100.30	4.518	
18,200.0	11,904.0	17,934.4	11,735.0	50.6	49.9	-67.97	6,472.3	-16.4	453.2	351.4	101.79	4.452	
18,300.0	11,904.0	18,034.4	11,735.0	51.4	50.6	-67.97	6,572.3	-17.1	453.2	349.9	103.27	4.388	
18,400.0	11,904.0	18,134.4	11,735.0	52.1	51.4	-67.97	6,672.3	-17.7	453.2	348.4	104.76	4.326	
18,500.0	11,904.0	18,234.4	11,735.0	52.9	52.2	-67.97	6,772.3	-18.3	453.2	346.9	106.25	4.265	
18,600.0	11,904.0	18,334.4	11,735.0	53.6	52.9	-67.97	6,872.3	-18.9	453.2	345.4	107.73	4.206	
18,700.0	11,904.0	18,434.4	11,735.0	54.4	53.7	-67.97	6,972.3	-19.5	453.2	343.9	109.22	4.149	
18,800.0	11,904.0	18,534.4	11,735.0	55.1	54.4	-67.97	7,072.3	-20.2	453.2	342.4	110.71	4.093	
18,900.0	11,904.0	18,634.4	11,735.0	55.9	55.2	-67.97	7,172.3	-20.8	453.2	340.9	112.21	4.039	
19,000.0	11,904.0	18,734.4	11,735.0	56.6	55.9	-67.97	7,272.3	-21.4	453.1	339.4	113.70	3.985	
19,100.0	11,904.0	18,834.4	11,735.0	57.4	56.7	-67.97	7,372.3	-22.0	453.1	337.9	115.19	3.934	
19,200.0	11,904.0	18,934.4	11,735.0	58.1	57.4	-67.97	7,472.3	-22.7	453.1	336.4	116.69	3.883	
19,300.0	11,904.0	19,034.4	11,735.0	58.9	58.2	-67.96	7,572.3	-23.3	453.1	334.9	118.18	3.834	
19,400.0	11,904.0	19,134.4	11,735.0	59.6	58.9	-67.96	7,672.3	-23.9	453.1	333.4	119.68	3.786	
19,500.0	11,904.0	19,234.4	11,735.0	60.4	59.7	-67.96	7,772.3	-24.5	453.1	331.9	121.18	3.739	
19,600.0	11,904.0	19,334.4	11,735.0	61.2	60.5	-67.96	7,872.3	-25.1	453.1	330.4	122.68	3.693	
19,656.2	11,904.0	19,390.6	11,735.0	61.5	60.9	-67.96	7,928.5	-25.5	453.1	329.7	123.41	3.672	
19,658.0	11,904.0	19,390.9	11,735.0	61.5	60.9	-67.96	7,928.8	-25.5	453.1	329.7	123.43	3.671 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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
3,800.0	3,788.3	3,885.5	3,879.0	5.0	5.3	14.96	-247.9	1,145.4	984.6	975.9	8.74	112.627	
3,900.0	3,887.6	3,983.0	3,976.0	5.1	5.4	15.11	-244.7	1,135.8	962.6	953.6	8.91	107.990	
4,000.0	3,986.8	4,080.5	4,072.9	5.1	5.5	15.26	-241.4	1,126.1	940.5	931.4	9.09	103.481	
4,100.0	4,086.1	4,178.0	4,169.9	5.2	5.6	15.42	-238.2	1,116.4	918.4	909.2	9.27	99.102	
4,200.0	4,185.3	4,275.5	4,266.9	5.3	5.7	15.59	-234.9	1,106.8	896.4	886.9	9.45	94.853	
4,300.0	4,284.6	4,373.0	4,363.9	5.4	5.8	15.76	-231.7	1,097.1	874.3	864.7	9.64	90.733	
4,400.0	4,383.8	4,470.5	4,460.8	5.5	5.9	15.95	-228.5	1,087.5	852.3	842.5	9.83	86.740	
4,500.0	4,483.1	4,568.0	4,557.8	5.6	6.0	16.15	-225.2	1,077.8	830.3	820.2	10.02	82.874	
4,600.0	4,582.4	4,665.5	4,654.8	5.7	6.0	16.35	-222.0	1,068.1	808.2	798.0	10.21	79.131	
4,700.0	4,681.6	4,763.0	4,751.7	5.8	6.1	16.57	-218.7	1,058.5	786.2	775.8	10.41	75.510	
4,800.0	4,780.9	4,860.5	4,848.7	5.9	6.2	16.80	-215.5	1,048.8	764.2	753.6	10.61	72.006	
4,900.0	4,880.1	4,958.0	4,945.7	6.0	6.3	17.04	-212.2	1,039.1	742.3	731.4	10.82	68.618	
5,000.0	4,979.4	5,055.5	5,042.6	6.1	6.4	17.30	-209.0	1,029.5	720.3	709.3	11.02	65.341	
5,100.0	5,078.6	5,153.0	5,139.6	6.2	6.5	17.58	-205.7	1,019.8	698.3	687.1	11.23	62.173	
5,200.0	5,177.9	5,250.5	5,236.6	6.3	6.6	17.87	-202.5	1,010.2	676.4	664.9	11.44	59.111	
5,300.0	5,277.1	5,348.1	5,333.5	6.4	6.7	18.18	-199.3	1,000.5	654.5	642.8	11.66	56.150	
5,400.0	5,376.4	5,445.6	5,430.5	6.5	6.8	18.52	-196.0	990.8	632.6	620.7	11.87	53.288	
5,471.7	5,447.6	5,515.5	5,500.0	6.6	6.9	18.77	-193.7	983.9	616.9	604.8	12.03	51.295	
5,500.0	5,475.7	5,543.1	5,527.5	6.6	6.9	18.85	-192.8	981.2	610.7	598.7	12.09	50.527	
5,600.0	5,575.1	5,640.9	5,624.8	6.7	7.0	19.12	-189.5	971.5	590.1	577.8	12.31	47.959	
5,700.0	5,674.7	5,739.0	5,722.4	6.9	7.2	19.36	-186.2	961.8	571.2	558.7	12.52	45.609	
5,800.0	5,774.4	5,837.5	5,820.3	7.0	7.3	19.57	-183.0	952.0	553.9	541.1	12.74	43.467	
5,900.0	5,874.2	5,936.2	5,918.5	7.1	7.4	19.73	-179.7	942.2	538.2	525.2	12.96	41.526	
6,000.0	5,974.1	6,035.2	6,016.9	7.2	7.5	19.85	-176.4	932.4	524.1	510.9	13.18	39.776	
6,100.0	6,074.1	6,134.4	6,115.6	7.3	7.6	19.91	-173.1	922.6	511.7	498.3	13.39	38.203	
6,171.7	6,145.8	6,205.7	6,186.5	7.3	7.7	109.92	-170.7	915.5	503.8	490.2	13.52	37.249	
6,200.0	6,174.1	6,233.8	6,214.5	7.3	7.7	109.93	-169.8	912.7	500.8	487.2	13.57	36.917	
6,300.0	6,274.1	6,333.3	6,313.4	7.4	7.8	109.96	-166.5	902.9	490.3	476.6	13.71	35.757	
6,400.0	6,374.1	6,430.7	6,410.3	7.5	7.9	109.99	-163.2	893.3	480.0	466.1	13.85	34.643	
6,500.0	6,474.1	6,522.6	6,501.8	7.6	8.0	110.02	-160.5	885.2	470.7	456.7	13.97	33.685	
6,600.0	6,574.1	6,614.8	6,593.7	7.7	8.1	110.04	-158.3	878.5	463.1	449.0	14.10	32.850	
6,700.0	6,674.1	6,707.2	6,686.0	7.8	8.2	110.06	-156.5	873.3	457.1	442.8	14.22	32.135	
6,800.0	6,774.1	6,800.0	6,778.6	7.9	8.3	110.07	-155.2	869.4	452.7	438.3	14.35	31.536	
6,900.0	6,874.1	6,892.5	6,871.1	8.0	8.4	110.08	-154.4	866.9	449.9	435.4	14.49	31.053	
7,000.0	6,974.1	6,985.2	6,963.8	8.0	8.5	110.08	-154.1	865.9	448.7	434.1	14.60	30.724	
7,043.3	7,017.4	7,026.8	7,005.4	8.1	8.6	110.08	-154.0	865.9	448.6	434.0	14.65	30.620	
7,100.0	7,074.1	7,083.5	7,062.1	8.1	8.6	110.08	-154.0	865.9	448.6	433.9	14.71	30.498	
7,200.0	7,174.1	7,183.5	7,162.1	8.2	8.7	110.08	-154.0	865.9	448.6	433.8	14.81	30.284	
7,300.0	7,274.1	7,283.5	7,262.1	8.3	8.8	110.08	-154.0	865.9	448.6	433.7	14.92	30.071	
7,400.0	7,374.1	7,383.5	7,362.1	8.4	8.9	110.08	-154.0	865.9	448.6	433.6	15.02	29.860	
7,500.0	7,474.1	7,483.5	7,462.1	8.5	9.0	110.08	-154.0	865.9	448.6	433.5	15.13	29.649	
7,600.0	7,574.1	7,583.5	7,562.1	8.6	9.1	110.08	-154.0	865.9	448.6	433.4	15.24	29.439	
7,700.0	7,674.1	7,683.5	7,662.1	8.7	9.2	110.08	-154.0	865.9	448.6	433.3	15.35	29.231	
7,800.0	7,774.1	7,783.5	7,762.1	8.8	9.3	110.08	-154.0	865.9	448.6	433.2	15.46	29.024	
7,900.0	7,874.1	7,883.5	7,862.1	8.9	9.4	110.08	-154.0	865.9	448.6	433.1	15.57	28.818	
8,000.0	7,974.1	7,983.5	7,962.1	9.0	9.6	110.08	-154.0	865.9	448.6	433.0	15.68	28.614	
8,100.0	8,074.1	8,083.5	8,062.1	9.1	9.7	110.08	-154.0	865.9	448.6	432.8	15.79	28.411	
8,200.0	8,174.1	8,183.5	8,162.1	9.2	9.8	110.08	-154.0	865.9	448.6	432.7	15.90	28.209	
8,300.0	8,274.1	8,283.5	8,262.1	9.3	9.9	110.08	-154.0	865.9	448.6	432.6	16.02	28.009	
8,400.0	8,374.1	8,383.5	8,362.1	9.4	10.0	110.08	-154.0	865.9	448.6	432.5	16.13	27.811	
8,500.0	8,474.1	8,483.5	8,462.1	9.5	10.1	110.08	-154.0	865.9	448.6	432.4	16.25	27.613	
8,600.0	8,574.1	8,583.5	8,562.1	9.6	10.2	110.08	-154.0	865.9	448.6	432.3	16.36	27.418	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,700.0	8,674.1	8,683.5	8,662.1	9.7	10.3	110.08	-154.0	865.9	448.6	432.2	16.48	27.224		
8,800.0	8,774.1	8,783.5	8,762.1	9.8	10.4	110.08	-154.0	865.9	448.6	432.0	16.60	27.031		
8,900.0	8,874.1	8,883.5	8,862.1	9.9	10.5	110.08	-154.0	865.9	448.6	431.9	16.72	26.840		
9,000.0	8,974.1	8,983.5	8,962.1	10.1	10.6	110.08	-154.0	865.9	448.6	431.8	16.83	26.651		
9,100.0	9,074.1	9,083.5	9,062.1	10.2	10.8	110.08	-154.0	865.9	448.6	431.7	16.95	26.463		
9,200.0	9,174.1	9,183.5	9,162.1	10.3	10.9	110.08	-154.0	865.9	448.6	431.6	17.07	26.277		
9,300.0	9,274.1	9,283.5	9,262.1	10.4	11.0	110.08	-154.0	865.9	448.6	431.4	17.19	26.092		
9,400.0	9,374.1	9,383.5	9,362.1	10.5	11.1	110.08	-154.0	865.9	448.6	431.3	17.32	25.909		
9,500.0	9,474.1	9,483.5	9,462.1	10.6	11.2	110.08	-154.0	865.9	448.6	431.2	17.44	25.727		
9,600.0	9,574.1	9,583.5	9,562.1	10.7	11.3	110.08	-154.0	865.9	448.6	431.1	17.56	25.548		
9,700.0	9,674.1	9,683.5	9,662.1	10.8	11.4	110.08	-154.0	865.9	448.6	431.0	17.68	25.370		
9,800.0	9,774.1	9,783.5	9,762.1	10.9	11.5	110.08	-154.0	865.9	448.6	430.8	17.81	25.193		
9,900.0	9,874.1	9,883.5	9,862.1	11.0	11.7	110.08	-154.0	865.9	448.6	430.7	17.93	25.018		
10,000.0	9,974.1	9,983.5	9,962.1	11.1	11.8	110.08	-154.0	865.9	448.6	430.6	18.06	24.845		
10,100.0	10,074.1	10,083.5	10,062.1	11.3	11.9	110.08	-154.0	865.9	448.6	430.5	18.18	24.673		
10,200.0	10,174.1	10,183.5	10,162.1	11.4	12.0	110.08	-154.0	865.9	448.6	430.3	18.31	24.503		
10,300.0	10,274.1	10,283.5	10,262.1	11.5	12.1	110.08	-154.0	865.9	448.6	430.2	18.44	24.335		
10,400.0	10,374.1	10,383.5	10,362.1	11.6	12.2	110.08	-154.0	865.9	448.6	430.1	18.56	24.168		
10,500.0	10,474.1	10,483.5	10,462.1	11.7	12.4	110.08	-154.0	865.9	448.6	429.9	18.69	24.003		
10,600.0	10,574.1	10,583.5	10,562.1	11.8	12.5	110.08	-154.0	865.9	448.6	429.8	18.82	23.839		
10,700.0	10,674.1	10,683.5	10,662.1	11.9	12.6	110.08	-154.0	865.9	448.6	429.7	18.95	23.677		
10,800.0	10,774.1	10,783.5	10,762.1	12.0	12.7	110.08	-154.0	865.9	448.6	429.6	19.08	23.517		
10,900.0	10,874.1	10,883.5	10,862.1	12.2	12.8	110.08	-154.0	865.9	448.6	429.4	19.21	23.358		
11,000.0	10,974.1	10,983.5	10,962.1	12.3	12.9	110.08	-154.0	865.9	448.6	429.3	19.34	23.201		
11,100.0	11,074.1	11,083.5	11,062.1	12.4	13.1	110.08	-154.0	865.9	448.6	429.2	19.47	23.045		
11,200.0	11,174.1	11,183.5	11,162.1	12.5	13.2	110.08	-154.0	865.9	448.6	429.0	19.60	22.891		
11,300.0	11,274.1	11,283.5	11,262.1	12.6	13.3	110.07	-153.9	865.9	448.6	428.9	19.72	22.747		
11,400.0	11,374.1	11,383.5	11,362.1	12.7	13.4	107.06	-129.2	865.7	442.8	422.5	20.28	21.833		
11,452.4	11,426.5	11,496.8	11,467.6	12.8	13.5	103.85	-103.8	865.5	436.9	416.5	20.44	21.371		
11,475.0	11,449.1	11,523.4	11,491.0	12.8	13.5	102.99	-91.3	865.5	434.2	414.0	20.19	21.508		
11,500.0	11,474.0	11,551.7	11,515.2	12.8	13.6	101.62	-76.6	865.4	431.5	411.4	20.14	21.430		
11,525.0	11,498.8	11,579.2	11,537.8	12.9	13.6	100.25	-60.9	865.3	429.1	409.0	20.05	21.396		
11,550.0	11,523.4	11,605.7	11,558.7	12.9	13.6	98.87	-44.6	865.2	426.9	406.9	19.94	21.403		
11,575.0	11,547.8	11,631.5	11,578.1	12.9	13.7	97.48	-27.6	865.1	425.0	405.2	19.82	21.440		
11,600.0	11,571.8	11,656.6	11,596.1	13.0	13.7	96.09	-10.2	864.9	423.4	403.7	19.70	21.496		
11,625.0	11,595.4	11,681.0	11,612.7	13.0	13.8	94.69	7.7	864.8	422.2	402.6	19.58	21.558		
11,650.0	11,618.5	11,704.7	11,628.0	13.0	13.8	93.30	25.9	864.7	421.3	401.8	19.49	21.612		
11,675.0	11,641.1	11,727.9	11,642.0	13.1	13.8	91.91	44.4	864.6	420.7	401.2	19.44	21.642		
11,700.0	11,663.2	11,750.6	11,654.8	13.1	13.8	90.52	63.1	864.5	420.4	401.0	19.43	21.636		
11,709.4	11,671.3	11,759.0	11,659.3	13.1	13.9	89.99	70.2	864.4	420.4	400.9	19.44	21.621 CC		
11,725.0	11,684.5	11,772.8	11,666.4	13.1	13.9	89.14	82.0	864.4	420.4	400.9	19.48	21.581		
11,750.0	11,705.2	11,794.5	11,677.0	13.2	13.9	87.76	101.0	864.2	420.8	401.2	19.60	21.472		
11,775.0	11,725.1	11,815.9	11,686.5	13.2	13.9	86.40	120.1	864.1	421.4	401.6	19.78	21.305		
11,800.0	11,744.2	11,836.8	11,695.0	13.2	13.9	85.06	139.3	864.0	422.3	402.3	20.03	21.082		
11,825.0	11,762.4	11,857.5	11,702.6	13.3	14.0	83.73	158.5	863.9	423.4	403.1	20.35	20.811		
11,850.0	11,779.7	11,877.8	11,709.2	13.3	14.0	82.42	177.7	863.8	424.8	404.1	20.73	20.498		
11,875.0	11,796.1	11,897.8	11,714.9	13.4	14.0	81.13	196.8	863.6	426.4	405.3	21.16	20.157		
11,900.0	11,811.4	11,917.5	11,719.7	13.4	14.0	79.87	216.0	863.5	428.2	406.6	21.63	19.796		
11,925.0	11,825.6	11,937.0	11,723.7	13.4	14.0	78.64	235.0	863.4	430.2	408.1	22.14	19.429		
11,950.0	11,838.8	11,956.3	11,726.9	13.5	14.0	77.44	254.0	863.3	432.3	409.6	22.68	19.063		
11,975.0	11,850.8	11,975.0	11,729.3	13.5	14.1	76.28	272.6	863.1	434.6	411.3	23.23	18.707		
12,000.0	11,861.7	11,994.1	11,730.9	13.5	14.1	75.14	291.7	863.0	436.9	413.1	23.79	18.368		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,025.0	11,871.4	12,012.8	11,731.8	13.6	14.1	74.04	310.3	862.9	439.3	415.0	24.34	18.048		
12,050.0	11,879.9	12,032.8	11,732.0	13.6	14.1	72.94	330.3	862.8	441.8	416.9	24.89	17.752		
12,075.0	11,887.1	12,056.7	11,732.0	13.6	14.1	71.82	354.3	862.6	444.0	418.7	25.39	17.491		
12,100.0	11,893.0	12,081.0	11,732.0	13.6	14.1	70.89	378.5	862.5	446.0	420.2	25.83	17.270		
12,125.0	11,897.7	12,105.6	11,732.0	13.7	14.1	70.15	403.1	862.3	447.6	421.4	26.20	17.085		
12,150.0	11,901.1	12,130.3	11,732.0	13.7	14.1	69.62	427.9	862.2	448.8	422.3	26.51	16.931		
12,175.0	11,903.2	12,155.3	11,732.0	13.7	14.1	69.29	452.8	862.0	449.5	422.8	26.74	16.808		
12,202.4	11,904.0	12,182.6	11,732.0	13.7	14.2	69.16	480.1	861.8	449.8	422.8	26.92	16.707		
12,300.0	11,904.0	12,280.2	11,732.0	13.8	14.2	69.16	577.7	861.2	449.8	422.3	27.49	16.362		
12,400.0	11,904.0	12,380.2	11,732.0	13.9	14.3	69.16	677.7	860.6	449.8	421.6	28.12	15.996		
12,500.0	11,904.0	12,480.2	11,732.0	14.0	14.4	69.16	777.7	859.9	449.8	420.9	28.81	15.609		
12,600.0	11,904.0	12,580.2	11,732.0	14.1	14.6	69.16	877.7	859.3	449.8	420.2	29.58	15.207		
12,700.0	11,904.0	12,680.2	11,732.0	14.2	14.8	69.16	977.7	858.7	449.7	419.4	30.39	14.797		
12,800.0	11,904.0	12,780.2	11,732.0	14.4	15.0	69.16	1,077.7	858.0	449.7	418.5	31.27	14.384		
12,900.0	11,904.0	12,880.2	11,732.0	14.6	15.3	69.16	1,177.7	857.4	449.7	417.5	32.19	13.972		
13,000.0	11,904.0	12,980.2	11,732.0	14.9	15.6	69.16	1,277.7	856.8	449.7	416.6	33.16	13.565		
13,100.0	11,904.0	13,080.2	11,732.0	15.3	16.0	69.16	1,377.7	856.1	449.7	415.6	34.16	13.164		
13,200.0	11,904.0	13,180.2	11,732.0	15.7	16.5	69.16	1,477.7	855.5	449.7	414.5	35.21	12.772		
13,300.0	11,904.0	13,280.2	11,732.0	16.1	17.0	69.16	1,577.7	854.9	449.7	413.4	36.29	12.392		
13,400.0	11,904.0	13,380.2	11,732.0	16.6	17.5	69.16	1,677.7	854.2	449.7	412.3	37.41	12.023		
13,500.0	11,904.0	13,480.2	11,732.0	17.2	18.1	69.16	1,777.7	853.6	449.7	411.2	38.55	11.667		
13,600.0	11,904.0	13,580.2	11,732.0	17.7	18.7	69.16	1,877.7	853.0	449.7	410.0	39.72	11.323		
13,700.0	11,904.0	13,680.2	11,732.0	18.3	19.3	69.16	1,977.7	852.3	449.7	408.8	40.91	10.993		
13,800.0	11,904.0	13,780.2	11,732.0	19.0	19.9	69.16	2,077.7	851.7	449.7	407.6	42.12	10.676		
13,900.0	11,904.0	13,880.2	11,732.0	19.6	20.6	69.16	2,177.7	851.0	449.7	406.3	43.36	10.372		
14,000.0	11,904.0	13,980.2	11,732.0	20.2	21.2	69.16	2,277.7	850.4	449.7	405.1	44.61	10.081		
14,100.0	11,904.0	14,080.2	11,732.0	20.9	21.9	69.16	2,377.7	849.8	449.7	403.8	45.88	9.801		
14,200.0	11,904.0	14,180.2	11,732.0	21.5	22.6	69.16	2,477.7	849.1	449.7	402.5	47.17	9.534		
14,300.0	11,904.0	14,280.2	11,732.0	22.2	23.3	69.16	2,577.7	848.5	449.7	401.2	48.47	9.278		
14,400.0	11,904.0	14,380.2	11,732.0	22.9	24.0	69.16	2,677.7	847.9	449.7	399.9	49.78	9.033		
14,500.0	11,904.0	14,480.2	11,732.0	23.6	24.6	69.16	2,777.7	847.2	449.7	398.6	51.11	8.799		
14,600.0	11,904.0	14,580.2	11,732.0	24.3	25.3	69.16	2,877.7	846.6	449.7	397.2	52.44	8.574		
14,700.0	11,904.0	14,680.2	11,732.0	25.0	26.0	69.16	2,977.7	846.0	449.7	395.9	53.79	8.359		
14,800.0	11,904.0	14,780.2	11,732.0	25.7	26.8	69.16	3,077.7	845.3	449.7	394.5	55.15	8.154		
14,900.0	11,904.0	14,880.2	11,732.0	26.4	27.5	69.16	3,177.7	844.7	449.6	393.1	56.51	7.956		
15,000.0	11,904.0	14,980.2	11,732.0	27.1	28.2	69.16	3,277.7	844.1	449.6	391.8	57.89	7.767		
15,100.0	11,904.0	15,080.2	11,732.0	27.8	28.9	69.16	3,377.7	843.4	449.6	390.4	59.27	7.586		
15,200.0	11,904.0	15,180.2	11,732.0	28.5	29.6	69.15	3,477.7	842.8	449.6	389.0	60.66	7.412		
15,300.0	11,904.0	15,280.2	11,732.0	29.2	30.3	69.15	3,577.7	842.1	449.6	387.6	62.06	7.245		
15,400.0	11,904.0	15,380.2	11,732.0	29.9	31.1	69.15	3,677.7	841.5	449.6	386.2	63.46	7.085		
15,500.0	11,904.0	15,480.2	11,732.0	30.7	31.8	69.15	3,777.7	840.9	449.6	384.8	64.87	6.931		
15,600.0	11,904.0	15,580.2	11,732.0	31.4	32.5	69.15	3,877.7	840.2	449.6	383.3	66.28	6.783		
15,700.0	11,904.0	15,680.2	11,732.0	32.1	33.2	69.15	3,977.7	839.6	449.6	381.9	67.70	6.641		
15,800.0	11,904.0	15,780.2	11,732.0	32.8	34.0	69.15	4,077.7	839.0	449.6	380.5	69.13	6.504		
15,900.0	11,904.0	15,880.2	11,732.0	33.6	34.7	69.15	4,177.7	838.3	449.6	379.0	70.56	6.372		
16,000.0	11,904.0	15,980.2	11,732.0	34.3	35.4	69.15	4,277.7	837.7	449.6	377.6	71.99	6.245		
16,100.0	11,904.0	16,080.2	11,732.0	35.0	36.2	69.15	4,377.7	837.1	449.6	376.2	73.43	6.123		
16,200.0	11,904.0	16,180.2	11,732.0	35.8	36.9	69.15	4,477.7	836.4	449.6	374.7	74.87	6.005		
16,300.0	11,904.0	16,280.2	11,732.0	36.5	37.6	69.15	4,577.7	835.8	449.6	373.3	76.31	5.891		
16,400.0	11,904.0	16,380.2	11,732.0	37.2	38.4	69.15	4,677.7	835.2	449.6	371.8	77.76	5.782		
16,500.0	11,904.0	16,480.2	11,732.0	38.0	39.1	69.15	4,777.7	834.5	449.6	370.4	79.21	5.676		
16,600.0	11,904.0	16,580.2	11,732.0	38.7	39.9	69.15	4,877.7	833.9	449.6	368.9	80.67	5.573		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
16,700.0	11,904.0	16,680.2	11,732.0	39.5	40.6	69.15	4,977.7	833.3	449.6	367.4	82.12	5.474
16,800.0	11,904.0	16,780.2	11,732.0	40.2	41.3	69.15	5,077.7	832.6	449.6	366.0	83.58	5.379
16,900.0	11,904.0	16,880.2	11,732.0	40.9	42.1	69.15	5,177.7	832.0	449.6	364.5	85.05	5.286
17,000.0	11,904.0	16,980.2	11,732.0	41.7	42.8	69.15	5,277.7	831.3	449.6	363.0	86.51	5.196
17,100.0	11,904.0	17,080.2	11,732.0	42.4	43.6	69.15	5,377.6	830.7	449.5	361.6	87.98	5.110
17,200.0	11,904.0	17,180.2	11,732.0	43.2	44.3	69.15	5,477.6	830.1	449.5	360.1	89.45	5.026
17,300.0	11,904.0	17,280.2	11,732.0	43.9	45.1	69.15	5,577.6	829.4	449.5	358.6	90.92	4.944
17,400.0	11,904.0	17,380.2	11,732.0	44.6	45.8	69.15	5,677.6	828.8	449.5	357.1	92.39	4.865
17,500.0	11,904.0	17,480.2	11,732.0	45.4	46.5	69.15	5,777.6	828.2	449.5	355.7	93.87	4.789
17,600.0	11,904.0	17,580.2	11,732.0	46.1	47.3	69.15	5,877.6	827.5	449.5	354.2	95.35	4.715
17,700.0	11,904.0	17,680.2	11,732.0	46.9	48.0	69.15	5,977.6	826.9	449.5	352.7	96.83	4.643
17,800.0	11,904.0	17,780.2	11,732.0	47.6	48.8	69.15	6,077.6	826.3	449.5	351.2	98.31	4.573
17,900.0	11,904.0	17,880.2	11,732.0	48.4	49.5	69.15	6,177.6	825.6	449.5	349.7	99.79	4.505
18,000.0	11,904.0	17,980.2	11,732.0	49.1	50.3	69.15	6,277.6	825.0	449.5	348.2	101.27	4.439
18,100.0	11,904.0	18,080.2	11,732.0	49.9	51.0	69.15	6,377.6	824.4	449.5	346.7	102.76	4.374
18,200.0	11,904.0	18,180.2	11,732.0	50.6	51.8	69.15	6,477.6	823.7	449.5	345.3	104.25	4.312
18,300.0	11,904.0	18,280.2	11,732.0	51.4	52.5	69.15	6,577.6	823.1	449.5	343.8	105.73	4.251
18,400.0	11,904.0	18,380.2	11,732.0	52.1	53.3	69.15	6,677.6	822.5	449.5	342.3	107.22	4.192
18,500.0	11,904.0	18,480.2	11,732.0	52.9	54.0	69.15	6,777.6	821.8	449.5	340.8	108.71	4.135
18,600.0	11,904.0	18,580.2	11,732.0	53.6	54.8	69.15	6,877.6	821.2	449.5	339.3	110.21	4.079
18,700.0	11,904.0	18,680.2	11,732.0	54.4	55.5	69.15	6,977.6	820.5	449.5	337.8	111.70	4.024
18,800.0	11,904.0	18,780.2	11,732.0	55.1	56.3	69.15	7,077.6	819.9	449.5	336.3	113.19	3.971
18,900.0	11,904.0	18,880.2	11,732.0	55.9	57.0	69.15	7,177.6	819.3	449.5	334.8	114.69	3.919
19,000.0	11,904.0	18,980.2	11,732.0	56.6	57.8	69.15	7,277.6	818.6	449.5	333.3	116.18	3.869
19,100.0	11,904.0	19,080.2	11,732.0	57.4	58.6	69.15	7,377.6	818.0	449.5	331.8	117.68	3.819
19,200.0	11,904.0	19,180.2	11,732.0	58.1	59.3	69.15	7,477.6	817.4	449.5	330.3	119.18	3.771
19,300.0	11,904.0	19,280.2	11,732.0	58.9	60.1	69.15	7,577.6	816.7	449.4	328.8	120.68	3.724
19,400.0	11,904.0	19,380.2	11,732.0	59.6	60.8	69.15	7,677.6	816.1	449.4	327.3	122.18	3.679
19,500.0	11,904.0	19,480.2	11,732.0	60.4	61.6	69.15	7,777.6	815.5	449.4	325.8	123.68	3.634
19,600.0	11,904.0	19,580.2	11,732.0	61.2	62.3	69.15	7,877.6	814.8	449.4	324.3	125.18	3.590
19,658.0	11,904.0	19,638.2	11,732.0	61.5	62.7	69.14	7,935.6	814.5	449.4	323.6	125.86	3.571 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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #111H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11417-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,979.4	4,967.5	4,967.5	6.1	7.1	16.92	-288.8	1,300.8	999.2	989.2	10.03	99.642		
5,100.0	5,078.6	5,066.7	5,066.7	6.2	7.2	17.13	-288.8	1,300.8	987.5	977.3	10.19	96.925		
5,200.0	5,177.9	5,166.0	5,166.0	6.3	7.4	17.34	-288.8	1,300.8	975.9	965.5	10.35	94.274		
5,300.0	5,277.1	5,265.2	5,265.2	6.4	7.5	17.55	-288.8	1,300.8	964.2	953.7	10.52	91.690		
5,400.0	5,376.4	5,364.5	5,364.5	6.5	7.6	17.77	-288.8	1,300.8	952.6	941.9	10.68	89.170		
5,471.7	5,447.6	5,435.7	5,435.7	6.6	7.7	17.93	-288.8	1,300.8	944.3	933.5	10.80	87.403		
5,500.0	5,475.7	5,463.8	5,463.8	6.6	7.7	17.99	-288.8	1,300.8	941.1	930.2	10.85	86.720		
5,600.0	5,575.1	5,563.2	5,563.2	6.7	7.8	18.16	-288.8	1,300.8	930.8	919.8	11.02	84.451		
5,700.0	5,674.7	5,662.8	5,662.8	6.9	8.0	18.31	-288.8	1,300.8	922.1	910.9	11.19	82.396		
5,800.0	5,774.4	5,762.5	5,762.5	7.0	8.1	18.43	-288.8	1,300.8	915.2	903.8	11.36	80.547		
5,900.0	5,874.2	5,862.3	5,862.3	7.1	8.2	18.53	-288.8	1,300.8	909.8	898.3	11.53	78.904		
6,000.0	5,974.1	5,962.2	5,962.2	7.2	8.3	18.59	-288.8	1,300.8	906.2	894.5	11.70	77.455		
6,100.0	6,074.1	6,062.2	6,062.2	7.3	8.5	18.63	-288.8	1,300.8	904.2	892.3	11.87	76.186		
6,171.7	6,145.8	6,133.9	6,133.9	7.3	8.5	108.64	-288.8	1,300.8	903.7	891.8	11.96	75.550		
6,200.0	6,174.1	6,162.2	6,162.2	7.3	8.6	108.64	-288.8	1,300.8	903.7	891.7	11.99	75.381		
6,300.0	6,274.1	6,262.2	6,262.2	7.4	8.7	108.64	-288.8	1,300.8	903.7	891.6	12.08	74.788		
6,400.0	6,374.1	6,362.2	6,362.2	7.5	8.8	108.64	-288.8	1,300.8	903.7	891.6	12.18	74.196		
6,500.0	6,474.1	6,462.2	6,462.2	7.6	9.0	108.64	-288.8	1,300.8	903.7	891.5	12.28	73.608		
6,600.0	6,574.1	6,562.2	6,562.2	7.7	9.1	108.64	-288.8	1,300.8	903.7	891.4	12.38	73.022		
6,700.0	6,674.1	6,662.2	6,662.2	7.8	9.2	108.64	-288.8	1,300.8	903.7	891.3	12.48	72.439		
6,800.0	6,774.1	6,762.2	6,762.2	7.9	9.3	108.64	-288.8	1,300.8	903.7	891.2	12.58	71.859		
6,900.0	6,874.1	6,862.2	6,862.2	8.0	9.4	108.64	-288.8	1,300.8	903.7	891.1	12.68	71.283		
7,000.0	6,974.1	6,962.2	6,962.2	8.0	9.6	108.64	-288.8	1,300.8	903.7	891.0	12.78	70.711		
7,100.0	7,074.1	7,062.2	7,062.2	8.1	9.7	108.64	-288.8	1,300.8	903.7	890.8	12.88	70.142		
7,200.0	7,174.1	7,162.2	7,162.2	8.2	9.8	108.64	-288.8	1,300.8	903.7	890.7	12.99	69.577		
7,300.0	7,274.1	7,262.2	7,262.2	8.3	10.0	108.64	-288.8	1,300.8	903.7	890.6	13.09	69.016		
7,400.0	7,374.1	7,362.2	7,362.2	8.4	10.1	108.64	-288.8	1,300.8	903.7	890.5	13.20	68.459		
7,500.0	7,474.1	7,462.2	7,462.2	8.5	10.2	108.64	-288.8	1,300.8	903.7	890.4	13.31	67.907		
7,600.0	7,574.1	7,562.2	7,562.2	8.6	10.3	108.64	-288.8	1,300.8	903.7	890.3	13.42	67.359		
7,700.0	7,674.1	7,662.2	7,662.2	8.7	10.5	108.64	-288.8	1,300.8	903.7	890.2	13.53	66.815		
7,800.0	7,774.1	7,762.2	7,762.2	8.8	10.6	108.64	-288.8	1,300.8	903.7	890.1	13.64	66.276		
7,900.0	7,874.1	7,862.2	7,862.2	8.9	10.7	108.64	-288.8	1,300.8	903.7	890.0	13.75	65.742		
8,000.0	7,974.1	7,962.2	7,962.2	9.0	10.8	108.64	-288.8	1,300.8	903.7	889.9	13.86	65.212		
8,100.0	8,074.1	8,062.2	8,062.2	9.1	11.0	108.64	-288.8	1,300.8	903.7	889.8	13.97	64.687		
8,200.0	8,174.1	8,162.2	8,162.2	9.2	11.1	108.64	-288.8	1,300.8	903.7	889.6	14.08	64.167		
8,300.0	8,274.1	8,262.2	8,262.2	9.3	11.2	108.64	-288.8	1,300.8	903.7	889.5	14.20	63.652		
8,400.0	8,374.1	8,362.2	8,362.2	9.4	11.3	108.64	-288.8	1,300.8	903.7	889.4	14.31	63.141		
8,500.0	8,474.1	8,462.2	8,462.2	9.5	11.5	108.64	-288.8	1,300.8	903.7	889.3	14.43	62.635		
8,600.0	8,574.1	8,562.2	8,562.2	9.6	11.6	108.64	-288.8	1,300.8	903.7	889.2	14.54	62.135		
8,700.0	8,674.1	8,662.2	8,662.2	9.7	11.7	108.64	-288.8	1,300.8	903.7	889.1	14.66	61.639		
8,800.0	8,774.1	8,762.2	8,762.2	9.8	11.9	108.64	-288.8	1,300.8	903.7	889.0	14.78	61.148		
8,900.0	8,874.1	8,862.2	8,862.2	9.9	12.0	108.64	-288.8	1,300.8	903.7	888.8	14.90	60.663		
9,000.0	8,974.1	8,962.2	8,962.2	10.1	12.1	108.64	-288.8	1,300.8	903.7	888.7	15.02	60.182		
9,100.0	9,074.1	9,062.2	9,062.2	10.2	12.2	108.64	-288.8	1,300.8	903.7	888.6	15.14	59.706		
9,200.0	9,174.1	9,162.2	9,162.2	10.3	12.4	108.64	-288.8	1,300.8	903.7	888.5	15.26	59.235		
9,300.0	9,274.1	9,262.2	9,262.2	10.4	12.5	108.64	-288.8	1,300.8	903.7	888.4	15.38	58.769		
9,400.0	9,374.1	9,362.2	9,362.2	10.5	12.6	108.64	-288.8	1,300.8	903.7	888.2	15.50	58.308		
9,500.0	9,474.1	9,462.2	9,462.2	10.6	12.7	108.64	-288.8	1,300.8	903.7	888.1	15.62	57.852		
9,600.0	9,574.1	9,562.2	9,562.2	10.7	12.9	108.64	-288.8	1,300.8	903.7	888.0	15.74	57.401		
9,700.0	9,674.1	9,662.2	9,662.2	10.8	13.0	108.64	-288.8	1,300.8	903.7	887.9	15.87	56.955		
9,800.0	9,774.1	9,762.2	9,762.2	10.9	13.1	108.64	-288.8	1,300.8	903.7	887.7	15.99	56.514		
9,900.0	9,874.1	9,862.2	9,862.2	11.0	13.3	108.64	-288.8	1,300.8	903.7	887.6	16.12	56.078		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #111H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11417-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,000.0	9,974.1	9,962.2	9,962.2	11.1	13.4	108.64	-288.8	1,300.8	903.7	887.5	16.24	55.646		
10,100.0	10,074.1	10,062.2	10,062.2	11.3	13.5	108.64	-288.8	1,300.8	903.7	887.4	16.37	55.220		
10,200.0	10,174.1	10,162.2	10,162.2	11.4	13.6	108.64	-288.8	1,300.8	903.7	887.2	16.49	54.798		
10,300.0	10,274.1	10,262.2	10,262.2	11.5	13.8	108.64	-288.8	1,300.8	903.7	887.1	16.62	54.380		
10,400.0	10,374.1	10,362.2	10,362.2	11.6	13.9	108.64	-288.8	1,300.8	903.7	887.0	16.75	53.968		
10,500.0	10,474.1	10,462.2	10,462.2	11.7	14.0	108.64	-288.8	1,300.8	903.7	886.9	16.87	53.560		
10,600.0	10,574.1	10,562.2	10,562.2	11.8	14.2	108.64	-288.8	1,300.8	903.7	886.7	17.00	53.157		
10,700.0	10,674.1	10,662.2	10,662.2	11.9	14.3	108.64	-288.8	1,300.8	903.7	886.6	17.13	52.758		
10,800.0	10,774.1	10,762.2	10,762.2	12.0	14.4	108.64	-288.8	1,300.8	903.7	886.5	17.26	52.364		
10,900.0	10,874.1	10,862.2	10,862.2	12.2	14.5	108.64	-288.8	1,300.8	903.7	886.3	17.39	51.974		
11,000.0	10,974.1	10,962.2	10,962.2	12.3	14.7	108.64	-288.8	1,300.8	903.7	886.2	17.52	51.589		
11,100.0	11,074.1	11,062.2	11,062.2	12.4	14.8	108.64	-288.8	1,300.8	903.7	886.1	17.65	51.208		
11,200.0	11,174.1	11,162.2	11,162.2	12.5	14.9	108.64	-288.8	1,300.8	903.7	886.0	17.78	50.832		
11,300.0	11,274.1	11,262.2	11,262.2	12.6	15.1	108.64	-288.8	1,300.8	903.7	885.8	17.91	50.460		
11,400.0	11,374.1	11,362.2	11,362.2	12.7	15.2	108.64	-288.8	1,300.8	903.7	885.7	18.04	50.092		
11,452.4	11,426.5	11,414.6	11,414.6	12.8	15.3	108.64	-288.8	1,300.8	903.7	885.6	18.11	49.901		
11,475.0	11,449.1	11,478.6	11,478.4	12.8	15.3	108.89	-284.8	1,300.7	903.4	885.2	18.20	49.642		
11,500.0	11,474.0	11,551.9	11,550.1	12.8	15.4	108.45	-269.7	1,300.2	902.2	883.7	18.52	48.719		
11,525.0	11,498.8	11,622.0	11,615.7	12.9	15.5	107.73	-245.3	1,299.3	900.1	881.1	19.02	47.327		
11,550.0	11,523.4	11,687.6	11,673.3	12.9	15.6	106.80	-213.9	1,298.2	897.3	877.8	19.59	45.813		
11,575.0	11,547.8	11,748.1	11,722.1	12.9	15.7	105.75	-178.3	1,297.0	894.0	873.8	20.12	44.422		
11,600.0	11,571.8	11,803.6	11,762.5	13.0	15.7	104.64	-140.4	1,295.7	890.2	869.6	20.57	43.276		
11,625.0	11,595.4	11,854.1	11,795.3	13.0	15.8	103.53	-102.1	1,294.3	886.0	865.1	20.90	42.402		
11,650.0	11,618.5	11,900.1	11,821.6	13.0	15.9	102.44	-64.3	1,293.0	881.8	860.7	21.10	41.786		
11,675.0	11,641.1	11,942.2	11,842.2	13.1	15.9	101.40	-27.6	1,291.7	877.4	856.2	21.20	41.392		
11,700.0	11,663.2	11,980.8	11,858.3	13.1	15.9	100.40	7.5	1,290.5	873.1	851.9	21.20	41.181		
11,725.0	11,684.5	12,016.5	11,870.6	13.1	16.0	99.46	40.9	1,289.3	868.9	847.7	21.13	41.114		
11,750.0	11,705.2	12,049.6	11,879.7	13.2	16.0	98.56	72.7	1,288.2	864.8	843.8	21.01	41.157		
11,775.0	11,725.1	12,080.4	11,886.2	13.2	16.0	97.70	102.8	1,287.2	860.9	840.0	20.86	41.277		
11,800.0	11,744.2	12,109.4	11,890.6	13.2	16.0	96.87	131.4	1,286.2	857.2	836.5	20.68	41.448		
11,825.0	11,762.4	12,136.8	11,893.0	13.3	16.0	96.07	158.7	1,285.2	853.8	833.3	20.50	41.642		
11,850.0	11,779.7	12,162.7	11,893.9	13.3	16.0	95.29	184.6	1,284.3	850.7	830.3	20.33	41.839		
11,875.0	11,796.1	12,176.7	11,894.0	13.4	16.0	95.00	198.5	1,283.9	847.9	827.8	20.10	42.193		
11,900.0	11,811.4	12,189.1	11,894.0	13.4	16.0	94.75	211.0	1,283.6	845.7	825.8	19.90	42.509		
11,925.0	11,825.6	12,207.4	11,894.0	13.4	16.1	94.25	229.3	1,283.3	844.1	824.3	19.79	42.657		
11,950.0	11,838.8	12,220.1	11,894.0	13.5	16.1	93.94	242.0	1,283.3	842.9	823.2	19.69	42.814		
11,975.0	11,850.8	12,242.1	11,894.0	13.5	16.1	93.33	263.9	1,283.1	842.1	822.4	19.71	42.729		
12,000.0	11,861.7	12,264.6	11,894.0	13.5	16.1	92.74	286.4	1,283.0	841.4	821.7	19.76	42.578		
12,025.0	11,871.4	12,287.6	11,894.0	13.6	16.1	92.19	309.5	1,282.8	841.0	821.1	19.85	42.373		
12,050.0	11,879.9	12,311.1	11,894.0	13.6	16.1	91.68	333.0	1,282.7	840.7	820.7	19.95	42.128		
12,075.0	11,887.1	12,335.1	11,894.0	13.6	16.1	91.24	356.9	1,282.5	840.5	820.4	20.08	41.855		
12,100.0	11,893.0	12,359.3	11,894.0	13.6	16.1	90.85	381.2	1,282.4	840.4	820.1	20.22	41.559		
12,125.0	11,897.7	12,383.9	11,894.0	13.7	16.1	90.55	405.7	1,282.2	840.3	819.9	20.37	41.249		
12,150.0	11,901.1	12,408.7	11,894.0	13.7	16.1	90.32	430.5	1,282.1	840.3	819.7	20.53	40.924		
12,175.0	11,903.2	12,433.6	11,894.0	13.7	16.1	90.18	455.4	1,281.9	840.3	819.6	20.70	40.584		
12,202.4	11,904.0	12,460.9	11,894.0	13.7	16.1	90.13	482.8	1,281.7	840.3	819.4	20.90	40.211		
12,300.0	11,904.0	12,558.6	11,894.0	13.8	16.1	90.13	580.4	1,281.1	840.3	818.6	21.64	38.823		
12,400.0	11,904.0	12,658.6	11,894.0	13.9	16.2	90.13	680.4	1,280.5	840.2	817.8	22.49	37.353		
12,500.0	11,904.0	12,758.6	11,894.0	14.0	16.2	90.13	780.4	1,279.8	840.2	816.8	23.41	35.886		
12,600.0	11,904.0	12,858.6	11,894.0	14.1	16.3	90.13	880.4	1,279.2	840.2	815.8	24.40	34.443		
12,700.0	11,904.0	12,958.6	11,894.0	14.2	16.3	90.13	980.4	1,278.6	840.2	814.8	25.43	33.042		
12,800.0	11,904.0	13,058.6	11,894.0	14.4	16.3	90.13	1,080.4	1,277.9	840.2	813.7	26.51	31.693		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #111H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-Standard Keeper 104, 11417-MWD+IFR1+MS					Rule Assigned:							Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,900.0	11,904.0	13,158.6	11,894.0	14.6	16.4	90.13	1,180.4	1,277.3	840.2	812.6	27.64	30.404			
13,000.0	11,904.0	13,258.6	11,894.0	14.9	16.4	90.13	1,280.4	1,276.7	840.2	811.4	28.80	29.178			
13,100.0	11,904.0	13,358.6	11,894.0	15.3	16.5	90.13	1,380.4	1,276.0	840.2	810.2	29.99	28.016			
13,200.0	11,904.0	13,458.6	11,894.0	15.7	16.6	90.13	1,480.4	1,275.4	840.2	809.0	31.21	26.918			
13,300.0	11,904.0	13,558.6	11,894.0	16.1	16.9	90.13	1,580.4	1,274.8	840.2	807.8	32.46	25.882			
13,400.0	11,904.0	13,658.6	11,894.0	16.6	17.5	90.13	1,680.4	1,274.1	840.2	806.5	33.73	24.906			
13,500.0	11,904.0	13,758.6	11,894.0	17.2	18.2	90.13	1,780.4	1,273.5	840.2	805.2	35.03	23.987			
13,600.0	11,904.0	13,858.6	11,894.0	17.7	18.9	90.13	1,880.4	1,272.9	840.2	803.9	36.34	23.122			
13,700.0	11,904.0	13,958.6	11,894.0	18.3	19.6	90.13	1,980.4	1,272.2	840.2	802.5	37.67	22.307			
13,800.0	11,904.0	14,058.6	11,894.0	19.0	20.3	90.13	2,080.4	1,271.6	840.2	801.2	39.01	21.540			
13,900.0	11,904.0	14,158.6	11,894.0	19.6	21.0	90.13	2,180.4	1,271.0	840.2	799.8	40.36	20.817			
14,000.0	11,904.0	14,258.6	11,894.0	20.2	21.7	90.13	2,280.4	1,270.3	840.2	798.5	41.73	20.135			
14,100.0	11,904.0	14,358.6	11,894.0	20.9	22.4	90.13	2,380.4	1,269.7	840.2	797.1	43.11	19.491			
14,200.0	11,904.0	14,458.6	11,894.0	21.5	23.1	90.13	2,480.4	1,269.1	840.2	795.7	44.49	18.883			
14,300.0	11,904.0	14,558.6	11,894.0	22.2	23.8	90.13	2,580.4	1,268.4	840.2	794.3	45.89	18.308			
14,400.0	11,904.0	14,658.6	11,894.0	22.9	24.5	90.13	2,680.4	1,267.8	840.2	792.9	47.30	17.764			
14,500.0	11,904.0	14,758.6	11,894.0	23.6	25.2	90.13	2,780.4	1,267.2	840.2	791.5	48.71	17.249			
14,600.0	11,904.0	14,858.6	11,894.0	24.3	25.9	90.13	2,880.4	1,266.5	840.2	790.0	50.13	16.761			
14,700.0	11,904.0	14,958.6	11,894.0	25.0	26.6	90.13	2,980.4	1,265.9	840.2	788.6	51.55	16.298			
14,800.0	11,904.0	15,058.6	11,894.0	25.7	27.4	90.13	3,080.4	1,265.3	840.2	787.2	52.98	15.858			
14,900.0	11,904.0	15,158.6	11,894.0	26.4	28.1	90.13	3,180.4	1,264.6	840.2	785.7	54.42	15.439			
15,000.0	11,904.0	15,258.6	11,894.0	27.1	28.8	90.13	3,280.3	1,264.0	840.2	784.3	55.86	15.041			
15,100.0	11,904.0	15,358.6	11,894.0	27.8	29.6	90.13	3,380.3	1,263.4	840.2	782.8	57.30	14.661			
15,200.0	11,904.0	15,458.6	11,894.0	28.5	30.3	90.13	3,480.3	1,262.7	840.1	781.4	58.75	14.300			
15,300.0	11,904.0	15,558.6	11,894.0	29.2	31.0	90.13	3,580.3	1,262.1	840.1	779.9	60.21	13.954			
15,400.0	11,904.0	15,658.6	11,894.0	29.9	31.8	90.13	3,680.3	1,261.4	840.1	778.5	61.66	13.625			
15,500.0	11,904.0	15,758.6	11,894.0	30.7	32.5	90.13	3,780.3	1,260.8	840.1	777.0	63.12	13.309			
15,600.0	11,904.0	15,858.6	11,894.0	31.4	33.2	90.13	3,880.3	1,260.2	840.1	775.5	64.59	13.008			
15,700.0	11,904.0	15,958.6	11,894.0	32.1	34.0	90.13	3,980.3	1,259.5	840.1	774.1	66.05	12.719			
15,800.0	11,904.0	16,058.6	11,894.0	32.8	34.7	90.13	4,080.3	1,258.9	840.1	772.6	67.52	12.442			
15,900.0	11,904.0	16,158.6	11,894.0	33.6	35.4	90.13	4,180.3	1,258.3	840.1	771.1	68.99	12.177			
16,000.0	11,904.0	16,258.6	11,894.0	34.3	36.2	90.13	4,280.3	1,257.6	840.1	769.7	70.47	11.922			
16,100.0	11,904.0	16,358.6	11,894.0	35.0	36.9	90.13	4,380.3	1,257.0	840.1	768.2	71.94	11.678			
16,200.0	11,904.0	16,458.6	11,894.0	35.8	37.7	90.13	4,480.3	1,256.4	840.1	766.7	73.42	11.442			
16,300.0	11,904.0	16,558.6	11,894.0	36.5	38.4	90.13	4,580.3	1,255.7	840.1	765.2	74.90	11.216			
16,400.0	11,904.0	16,658.6	11,894.0	37.2	39.2	90.13	4,680.3	1,255.1	840.1	763.7	76.38	10.999			
16,500.0	11,904.0	16,758.6	11,894.0	38.0	39.9	90.13	4,780.3	1,254.5	840.1	762.2	77.87	10.789			
16,600.0	11,904.0	16,858.6	11,894.0	38.7	40.7	90.13	4,880.3	1,253.8	840.1	760.7	79.35	10.587			
16,700.0	11,904.0	16,958.6	11,894.0	39.5	41.4	90.13	4,980.3	1,253.2	840.1	759.3	80.84	10.392			
16,800.0	11,904.0	17,058.6	11,894.0	40.2	42.2	90.13	5,080.3	1,252.6	840.1	757.8	82.33	10.204			
16,900.0	11,904.0	17,158.6	11,894.0	40.9	42.9	90.13	5,180.3	1,251.9	840.1	756.3	83.82	10.023			
17,000.0	11,904.0	17,258.6	11,894.0	41.7	43.6	90.13	5,280.3	1,251.3	840.1	754.8	85.31	9.848			
17,100.0	11,904.0	17,358.6	11,894.0	42.4	44.4	90.13	5,380.3	1,250.7	840.1	753.3	86.80	9.678			
17,200.0	11,904.0	17,458.6	11,894.0	43.2	45.1	90.13	5,480.3	1,250.0	840.1	751.8	88.29	9.515			
17,300.0	11,904.0	17,558.6	11,894.0	43.9	45.9	90.13	5,580.3	1,249.4	840.1	750.3	89.79	9.356			
17,400.0	11,904.0	17,658.6	11,894.0	44.6	46.6	90.13	5,680.3	1,248.8	840.1	748.8	91.28	9.203			
17,500.0	11,904.0	17,758.6	11,894.0	45.4	47.4	90.13	5,780.3	1,248.1	840.1	747.3	92.78	9.054			
17,600.0	11,904.0	17,858.6	11,894.0	46.1	48.1	90.13	5,880.3	1,247.5	840.1	745.8	94.28	8.911			
17,700.0	11,904.0	17,958.6	11,894.0	46.9	48.9	90.13	5,980.3	1,246.9	840.1	744.3	95.78	8.771			
17,800.0	11,904.0	18,058.6	11,894.0	47.6	49.7	90.13	6,080.3	1,246.2	840.1	742.8	97.28	8.636			
17,900.0	11,904.0	18,158.6	11,894.0	48.4	50.4	90.13	6,180.3	1,245.6	840.1	741.3	98.78	8.505			
18,000.0	11,904.0	18,258.6	11,894.0	49.1	51.2	90.13	6,280.3	1,245.0	840.0	739.8	100.28	8.377			

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #111H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11417-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)		Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,100.0	11,904.0	18,358.6	11,894.0	49.9	51.9	90.13	6,380.3	1,244.3	840.0	738.3	101.78	8.254	
18,200.0	11,904.0	18,458.6	11,894.0	50.6	52.7	90.13	6,480.3	1,243.7	840.0	736.8	103.28	8.134	
18,300.0	11,904.0	18,558.6	11,894.0	51.4	53.4	90.13	6,580.3	1,243.1	840.0	735.3	104.78	8.017	
18,400.0	11,904.0	18,658.6	11,894.0	52.1	54.2	90.13	6,680.3	1,242.4	840.0	733.7	106.29	7.903	
18,500.0	11,904.0	18,758.6	11,894.0	52.9	54.9	90.13	6,780.3	1,241.8	840.0	732.2	107.79	7.793	
18,600.0	11,904.0	18,858.6	11,894.0	53.6	55.7	90.13	6,880.3	1,241.2	840.0	730.7	109.30	7.686	
18,700.0	11,904.0	18,958.6	11,894.0	54.4	56.4	90.13	6,980.3	1,240.5	840.0	729.2	110.80	7.581	
18,800.0	11,904.0	19,058.6	11,894.0	55.1	57.2	90.13	7,080.3	1,239.9	840.0	727.7	112.31	7.479	
18,900.0	11,904.0	19,158.6	11,894.0	55.9	57.9	90.13	7,180.3	1,239.3	840.0	726.2	113.82	7.380	
19,000.0	11,904.0	19,258.6	11,894.0	56.6	58.7	90.13	7,280.3	1,238.6	840.0	724.7	115.32	7.284	
19,100.0	11,904.0	19,358.6	11,894.0	57.4	59.5	90.13	7,380.3	1,238.0	840.0	723.2	116.83	7.190	
19,200.0	11,904.0	19,458.6	11,894.0	58.1	60.2	90.13	7,480.3	1,237.4	840.0	721.7	118.34	7.098	
19,300.0	11,904.0	19,558.6	11,894.0	58.9	61.0	90.13	7,580.3	1,236.7	840.0	720.2	119.85	7.009	
19,400.0	11,904.0	19,658.6	11,894.0	59.6	61.7	90.13	7,680.3	1,236.1	840.0	718.6	121.36	6.922	
19,500.0	11,904.0	19,758.6	11,894.0	60.4	62.5	90.13	7,780.3	1,235.4	840.0	717.1	122.87	6.837	
19,600.0	11,904.0	19,858.6	11,894.0	61.2	63.2	90.13	7,880.3	1,234.8	840.0	715.6	124.38	6.753	
19,658.0	11,904.0	19,916.5	11,894.0	61.5	63.7	90.13	7,938.2	1,234.4	840.0	714.8	125.16	6.712 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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,177.9	5,165.3	5,164.6	6.3	7.3	23.10	-388.5	1,286.1	996.3	986.1	10.22	97.518		
5,300.0	5,277.1	5,264.6	5,263.8	6.4	7.4	23.38	-388.5	1,286.1	985.1	974.7	10.38	94.877		
5,400.0	5,376.4	5,363.8	5,363.1	6.5	7.5	23.67	-388.5	1,286.1	973.9	963.4	10.55	92.301		
5,471.7	5,447.6	5,435.0	5,434.3	6.6	7.6	23.87	-388.5	1,286.1	965.9	955.3	10.67	90.494		
5,500.0	5,475.7	5,463.1	5,462.4	6.6	7.6	23.94	-388.5	1,286.1	962.8	952.1	10.72	89.796		
5,600.0	5,575.1	5,562.5	5,561.8	6.7	7.7	24.17	-388.5	1,286.1	952.9	942.0	10.89	87.473		
5,700.0	5,674.7	5,662.1	5,661.4	6.9	7.9	24.36	-388.5	1,286.1	944.6	933.6	11.07	85.366		
5,800.0	5,774.4	5,761.8	5,761.1	7.0	8.0	24.51	-388.5	1,286.1	937.9	926.7	11.24	83.469		
5,900.0	5,874.2	5,861.7	5,860.9	7.1	8.1	24.64	-388.5	1,286.1	932.8	921.4	11.41	81.785		
6,000.0	5,974.1	5,961.6	5,960.8	7.2	8.2	24.72	-388.5	1,286.1	929.3	917.8	11.57	80.299		
6,100.0	6,074.1	6,061.6	6,060.8	7.3	8.4	24.77	-388.5	1,286.1	927.4	915.7	11.74	78.992		
6,171.7	6,145.8	6,133.3	6,132.5	7.3	8.4	114.78	-388.5	1,286.1	927.0	915.2	11.83	78.327		
6,200.0	6,174.1	6,161.6	6,160.8	7.3	8.5	114.78	-388.5	1,286.1	927.0	915.1	11.86	78.146		
6,300.0	6,274.1	6,261.6	6,260.8	7.4	8.6	114.78	-388.5	1,286.1	927.0	915.0	11.96	77.509		
6,400.0	6,374.1	6,361.6	6,360.8	7.5	8.7	114.78	-388.5	1,286.1	927.0	914.9	12.06	76.872		
6,500.0	6,474.1	6,461.6	6,460.8	7.6	8.8	114.78	-388.5	1,286.1	927.0	914.8	12.16	76.238		
6,600.0	6,574.1	6,561.6	6,560.8	7.7	9.0	114.78	-388.5	1,286.1	927.0	914.7	12.26	75.606		
6,700.0	6,674.1	6,661.6	6,660.8	7.8	9.1	114.78	-388.5	1,286.1	927.0	914.6	12.36	74.977		
6,800.0	6,774.1	6,761.6	6,760.8	7.9	9.2	114.78	-388.5	1,286.1	927.0	914.5	12.47	74.350		
6,900.0	6,874.1	6,861.6	6,860.8	8.0	9.3	114.78	-388.5	1,286.1	927.0	914.4	12.57	73.727		
7,000.0	6,974.1	6,961.6	6,960.8	8.0	9.5	114.78	-388.5	1,286.1	927.0	914.3	12.68	73.107		
7,100.0	7,074.1	7,061.6	7,060.8	8.1	9.6	114.78	-388.5	1,286.1	927.0	914.2	12.79	72.490		
7,200.0	7,174.1	7,161.6	7,160.8	8.2	9.7	114.78	-388.5	1,286.1	927.0	914.1	12.90	71.877		
7,300.0	7,274.1	7,261.6	7,260.8	8.3	9.8	114.78	-388.5	1,286.1	927.0	914.0	13.01	71.269		
7,400.0	7,374.1	7,361.6	7,360.8	8.4	10.0	114.78	-388.5	1,286.1	927.0	913.9	13.12	70.664		
7,500.0	7,474.1	7,461.6	7,460.8	8.5	10.1	114.78	-388.5	1,286.1	927.0	913.8	13.23	70.064		
7,600.0	7,574.1	7,561.6	7,560.8	8.6	10.2	114.78	-388.5	1,286.1	927.0	913.6	13.34	69.468		
7,700.0	7,674.1	7,661.6	7,660.8	8.7	10.3	114.78	-388.5	1,286.1	927.0	913.5	13.46	68.877		
7,800.0	7,774.1	7,761.6	7,760.8	8.8	10.5	114.78	-388.5	1,286.1	927.0	913.4	13.57	68.291		
7,900.0	7,874.1	7,861.6	7,860.8	8.9	10.6	114.78	-388.5	1,286.1	927.0	913.3	13.69	67.710		
8,000.0	7,974.1	7,961.6	7,960.8	9.0	10.7	114.78	-388.5	1,286.1	927.0	913.2	13.81	67.134		
8,100.0	8,074.1	8,061.6	8,060.8	9.1	10.9	114.78	-388.5	1,286.1	927.0	913.1	13.93	66.563		
8,200.0	8,174.1	8,161.6	8,160.8	9.2	11.0	114.78	-388.5	1,286.1	927.0	912.9	14.05	65.997		
8,300.0	8,274.1	8,261.6	8,260.8	9.3	11.1	114.78	-388.5	1,286.1	927.0	912.8	14.17	65.436		
8,400.0	8,374.1	8,361.6	8,360.8	9.4	11.2	114.78	-388.5	1,286.1	927.0	912.7	14.29	64.880		
8,500.0	8,474.1	8,461.6	8,460.8	9.5	11.4	114.78	-388.5	1,286.1	927.0	912.6	14.41	64.330		
8,600.0	8,574.1	8,561.6	8,560.8	9.6	11.5	114.78	-388.5	1,286.1	927.0	912.5	14.53	63.786		
8,700.0	8,674.1	8,661.6	8,660.8	9.7	11.6	114.78	-388.5	1,286.1	927.0	912.3	14.66	63.247		
8,800.0	8,774.1	8,761.6	8,760.8	9.8	11.7	114.78	-388.5	1,286.1	927.0	912.2	14.78	62.713		
8,900.0	8,874.1	8,861.6	8,860.8	9.9	11.9	114.78	-388.5	1,286.1	927.0	912.1	14.91	62.185		
9,000.0	8,974.1	8,961.6	8,960.8	10.1	12.0	114.78	-388.5	1,286.1	927.0	912.0	15.03	61.663		
9,100.0	9,074.1	9,061.6	9,060.8	10.2	12.1	114.78	-388.5	1,286.1	927.0	911.8	15.16	61.146		
9,200.0	9,174.1	9,161.6	9,160.8	10.3	12.2	114.78	-388.5	1,286.1	927.0	911.7	15.29	60.634		
9,300.0	9,274.1	9,261.6	9,260.8	10.4	12.4	114.78	-388.5	1,286.1	927.0	911.6	15.42	60.129		
9,400.0	9,374.1	9,361.6	9,360.8	10.5	12.5	114.78	-388.5	1,286.1	927.0	911.4	15.55	59.629		
9,500.0	9,474.1	9,461.6	9,460.8	10.6	12.6	114.78	-388.5	1,286.1	927.0	911.3	15.68	59.134		
9,600.0	9,574.1	9,561.6	9,560.8	10.7	12.8	114.78	-388.5	1,286.1	927.0	911.2	15.81	58.645		
9,700.0	9,674.1	9,661.6	9,660.8	10.8	12.9	114.78	-388.5	1,286.1	927.0	911.0	15.94	58.161		
9,800.0	9,774.1	9,761.6	9,760.8	10.9	13.0	114.78	-388.5	1,286.1	927.0	910.9	16.07	57.683		
9,900.0	9,874.1	9,861.6	9,860.8	11.0	13.1	114.78	-388.5	1,286.1	927.0	910.8	16.20	57.211		
10,000.0	9,974.1	9,961.6	9,960.8	11.1	13.3	114.78	-388.5	1,286.1	927.0	910.7	16.34	56.744		
10,100.0	10,074.1	10,061.6	10,060.8	11.3	13.4	114.78	-388.5	1,286.1	927.0	910.5	16.47	56.282		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
10,200.0	10,174.1	10,161.6	10,160.8	11.4	13.5	114.78	-388.5	1,286.1	927.0	910.4	16.60	55.826	
10,300.0	10,274.1	10,261.6	10,260.8	11.5	13.7	114.78	-388.5	1,286.1	927.0	910.2	16.74	55.375	
10,400.0	10,374.1	10,361.6	10,360.8	11.6	13.8	114.78	-388.5	1,286.1	927.0	910.1	16.88	54.930	
10,500.0	10,474.1	10,461.6	10,460.8	11.7	13.9	114.78	-388.5	1,286.1	927.0	910.0	17.01	54.489	
10,600.0	10,574.1	10,561.6	10,560.8	11.8	14.0	114.78	-388.5	1,286.1	927.0	909.8	17.15	54.054	
10,700.0	10,674.1	10,661.6	10,660.8	11.9	14.2	114.78	-388.5	1,286.1	927.0	909.7	17.29	53.625	
10,800.0	10,774.1	10,761.6	10,760.8	12.0	14.3	114.78	-388.5	1,286.1	927.0	909.6	17.42	53.200	
10,900.0	10,874.1	10,861.6	10,860.8	12.2	14.4	114.78	-388.5	1,286.1	927.0	909.4	17.56	52.780	
11,000.0	10,974.1	10,961.6	10,960.8	12.3	14.6	114.78	-388.5	1,286.1	927.0	909.3	17.70	52.366	
11,100.0	11,074.1	11,061.6	11,060.8	12.4	14.7	114.78	-388.5	1,286.1	927.0	909.2	17.82	52.016	
11,200.0	11,174.1	11,161.6	11,160.8	12.5	14.7	114.78	-388.5	1,286.1	927.0	909.1	17.91	51.752	
11,211.9	11,186.0	11,173.4	11,172.7	12.5	14.7	114.78	-388.5	1,286.1	927.0	909.1	17.92	51.724	CC, ES
11,300.0	11,274.1	11,250.0	11,249.3	12.6	14.7	114.78	-388.5	1,286.2	927.1	909.1	17.99	51.546	
11,400.0	11,374.1	11,309.1	11,308.2	12.7	14.7	115.01	-392.6	1,286.2	930.2	912.1	18.18	51.177	
11,452.4	11,426.5	11,337.1	11,335.8	12.8	14.7	115.26	-397.1	1,286.2	933.9	915.5	18.39	50.775	
11,475.0	11,449.1	11,350.0	11,348.4	12.8	14.7	115.54	-399.7	1,286.2	936.1	917.4	18.75	49.916	
11,500.0	11,474.0	11,361.7	11,359.8	12.8	14.7	115.37	-402.4	1,286.2	939.4	920.5	18.95	49.573	
11,525.0	11,498.8	11,375.0	11,372.7	12.9	14.7	115.19	-405.8	1,286.2	943.6	924.5	19.16	49.263	
11,550.0	11,523.4	11,385.6	11,382.9	12.9	14.7	114.89	-408.7	1,286.3	948.7	929.3	19.41	48.868	
11,575.0	11,547.8	11,400.0	11,396.6	12.9	14.8	114.63	-413.0	1,286.3	954.8	935.1	19.65	48.595	
11,600.0	11,571.8	11,407.1	11,403.4	13.0	14.8	114.08	-415.4	1,286.3	961.6	941.7	19.99	48.097	
11,625.0	11,595.4	11,416.9	11,412.5	13.0	14.8	113.53	-418.7	1,286.3	969.4	949.1	20.32	47.702	
11,650.0	11,618.5	11,425.0	11,420.1	13.0	14.8	112.83	-421.6	1,286.3	978.1	957.4	20.69	47.281	
11,675.0	11,641.1	11,434.0	11,428.5	13.1	14.8	112.07	-424.9	1,286.4	987.7	966.6	21.05	46.928	
11,700.0	11,663.2	11,441.4	11,435.3	13.1	14.8	111.13	-427.8	1,286.4	998.1	976.6	21.43	46.565	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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - BUCK 20 FEDERAL #2H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYRODATA-NS-GYRO-MS, 8166-MWD, 9092-MWD												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	
8,300.0	8,274.1	11,348.2	9,230.6	9.3	42.4	-92.34	-8.6	233.7	987.4	948.7	38.62	25.563	
8,400.0	8,374.1	11,347.5	9,230.6	9.4	42.4	-92.15	-7.9	233.7	889.9	850.9	39.05	22.792	
8,500.0	8,474.1	11,346.7	9,230.6	9.5	42.4	-91.96	-7.2	233.7	793.1	753.6	39.53	20.064	
8,600.0	8,574.1	11,346.0	9,230.6	9.6	42.4	-91.75	-6.4	233.7	697.2	657.1	40.11	17.382	
8,700.0	8,674.1	11,345.2	9,230.6	9.7	42.4	-91.53	-5.6	233.7	602.7	561.8	40.85	14.755	
8,800.0	8,774.1	11,344.3	9,230.6	9.8	42.4	-91.30	-4.8	233.7	510.2	468.4	41.82	12.200	
8,900.0	8,874.1	11,343.4	9,230.6	9.9	42.3	-91.05	-3.9	233.7	421.2	378.0	43.18	9.754	
9,000.0	8,974.1	11,342.4	9,230.7	10.1	42.3	-90.79	-2.9	233.7	338.3	293.2	45.13	7.497	
9,100.0	9,074.1	11,341.4	9,230.7	10.2	42.3	-90.51	-1.9	233.7	267.5	219.8	47.68	5.609	
9,200.0	9,174.1	11,340.3	9,230.7	10.3	42.3	-90.21	-0.8	233.7	220.5	170.6	49.91	4.418	
9,264.7	9,238.8	11,339.6	9,230.7	10.3	42.3	-90.00	0.0	233.7	210.8	160.1	50.62	4.164	CC, ES, SF
9,300.0	9,274.1	11,339.1	9,230.7	10.4	42.3	-89.89	0.4	233.7	213.7	162.9	50.83	4.205	
9,400.0	9,374.1	11,337.9	9,230.7	10.5	42.3	-89.54	1.7	233.7	250.5	200.4	50.10	5.000	
9,500.0	9,474.1	11,336.5	9,230.7	10.6	42.2	-89.17	3.0	233.7	315.9	267.8	48.15	6.561	
9,600.0	9,574.1	11,335.0	9,230.7	10.7	42.2	-88.77	4.5	233.7	396.0	349.5	46.53	8.512	
9,700.0	9,674.1	11,333.4	9,230.8	10.8	42.2	-88.34	6.1	233.7	483.6	438.1	45.49	10.631	
9,800.0	9,774.1	11,331.7	9,230.8	10.9	42.2	-87.87	7.8	233.7	575.3	530.4	44.90	12.813	
9,900.0	9,874.1	11,329.8	9,230.8	11.0	42.1	-87.36	9.7	233.7	669.3	624.7	44.59	15.011	
10,000.0	9,974.1	11,327.8	9,230.9	11.1	42.1	-86.80	11.8	233.7	764.9	720.4	44.46	17.202	
10,100.0	10,074.1	11,325.5	9,230.9	11.3	42.1	-86.19	14.0	233.7	861.4	817.0	44.46	19.377	
10,200.0	10,174.1	11,323.0	9,230.9	11.4	42.0	-85.51	16.5	233.7	958.7	914.2	44.53	21.529	

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - BUCK 20 FEDERAL #5H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYRODATA-NS-GYRO-MS, 7936-MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
8,100.0	8,074.1	10,411.6	8,824.5	9.1	36.0	89.19	7.9	1,003.5	946.3	905.3	40.92	23.123		
8,200.0	8,174.1	10,413.6	8,824.5	9.2	36.0	89.40	5.9	1,003.5	867.6	825.9	41.70	20.803		
8,300.0	8,274.1	10,415.8	8,824.6	9.3	36.1	89.61	3.8	1,003.4	793.7	751.2	42.51	18.670		
8,400.0	8,374.1	10,418.0	8,824.6	9.4	36.1	89.84	1.6	1,003.4	726.2	682.8	43.31	16.767		
8,500.0	8,474.1	10,420.3	8,824.7	9.5	36.1	90.07	-0.7	1,003.4	666.8	622.8	44.01	15.151		
8,600.0	8,574.1	10,422.6	8,824.8	9.6	36.2	90.32	-3.1	1,003.3	617.9	573.4	44.50	13.887		
8,700.0	8,674.1	10,425.1	8,824.8	9.7	36.2	90.57	-5.5	1,003.3	582.3	537.6	44.67	13.035		
8,800.0	8,774.1	10,427.6	8,824.9	9.8	36.2	90.83	-8.1	1,003.2	562.4	517.9	44.53	12.629		
8,863.9	8,838.0	10,429.3	8,824.9	9.9	36.3	91.00	-9.8	1,003.2	558.8	514.4	44.35	12.600	CC, ES, SF	
8,900.0	8,874.1	10,430.3	8,825.0	9.9	36.3	91.10	-10.7	1,003.2	559.9	515.7	44.24	12.657		
9,000.0	8,974.1	10,433.0	8,825.0	10.1	36.3	91.38	-13.5	1,003.1	575.1	531.1	43.97	13.081		
9,100.0	9,074.1	10,435.9	8,825.1	10.2	36.4	91.68	-16.4	1,003.1	606.6	562.9	43.73	13.872		
9,200.0	9,174.1	10,438.9	8,825.2	10.3	36.4	91.98	-19.3	1,003.0	652.0	608.5	43.47	14.999		
9,300.0	9,274.1	10,442.0	8,825.3	10.4	36.5	92.30	-22.5	1,003.0	708.7	665.5	43.20	16.404		
9,400.0	9,374.1	10,445.3	8,825.4	10.5	36.5	92.64	-25.7	1,002.9	774.2	731.3	42.96	18.023		
9,500.0	9,474.1	10,448.7	8,825.5	10.6	36.6	92.98	-29.1	1,002.9	846.5	803.7	42.77	19.793		
9,600.0	9,574.1	10,452.2	8,825.6	10.7	36.6	93.35	-32.6	1,002.8	923.9	881.3	42.64	21.666		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 4400-INC-ONLY													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-143.16	-369.0	-276.5	461.2					
100.0	100.0	89.9	89.9	3.0	3.5	-143.16	-369.0	-276.5	461.1	454.6	6.51	70.839		
200.0	200.0	189.9	189.9	3.0	4.9	-143.16	-369.0	-276.5	461.1	453.2	7.88	58.515		
300.0	300.0	289.9	289.9	3.0	6.6	-143.16	-369.0	-276.5	461.1	451.5	9.60	48.020		
400.0	400.0	389.9	389.9	3.0	8.4	-143.16	-369.0	-276.5	461.1	449.6	11.47	40.211		
500.0	500.0	489.9	489.9	3.1	10.4	-143.16	-369.0	-276.5	461.1	447.7	13.40	34.409		
600.0	600.0	589.9	589.9	3.1	12.3	-143.16	-369.0	-276.5	461.1	445.7	15.37	29.996		
700.0	700.0	689.9	689.9	3.1	14.3	-143.16	-369.0	-276.5	461.1	443.7	17.37	26.548		
800.0	800.0	789.9	789.9	3.2	16.3	-143.16	-369.0	-276.5	461.1	441.7	19.38	23.791		
900.0	900.0	889.9	889.9	3.2	18.3	-143.16	-369.0	-276.5	461.1	439.7	21.41	21.540		
1,000.0	1,000.0	989.9	989.9	3.2	20.3	-143.16	-369.0	-276.5	461.1	437.7	23.44	19.670		
1,100.0	1,100.0	1,089.9	1,089.9	3.3	22.3	-143.16	-369.0	-276.5	461.1	435.6	25.49	18.093		
1,200.0	1,200.0	1,189.9	1,189.9	3.4	24.3	-143.16	-369.0	-276.5	461.1	433.6	27.54	16.745		
1,300.0	1,300.0	1,289.9	1,289.9	3.4	26.3	-143.16	-369.0	-276.5	461.1	431.5	29.59	15.582		
1,400.0	1,400.0	1,389.9	1,389.9	3.5	28.3	-143.16	-369.0	-276.5	461.1	429.4	31.65	14.567		
1,500.0	1,500.0	1,489.9	1,489.9	3.5	30.3	-143.16	-369.0	-276.5	461.1	427.4	33.72	13.675		
1,600.0	1,600.0	1,589.9	1,589.9	3.6	32.3	-143.16	-369.0	-276.5	461.1	425.3	35.79	12.883		
1,700.0	1,700.0	1,689.9	1,689.9	3.7	34.3	-143.16	-369.0	-276.5	461.1	423.2	37.86	12.178		
1,800.0	1,800.0	1,789.9	1,789.9	3.8	36.4	-143.16	-369.0	-276.5	461.1	421.2	39.94	11.544		
1,900.0	1,900.0	1,889.9	1,889.9	3.9	38.4	-143.16	-369.0	-276.5	461.1	419.1	42.02	10.973		
2,000.0	2,000.0	1,989.9	1,989.9	3.9	40.4	-143.16	-369.0	-276.5	461.1	417.0	44.11	10.454 CC		
2,100.0	2,100.0	2,089.9	2,089.9	4.0	42.4	127.00	-369.0	-276.5	462.1	416.0	46.19	10.006 ES		
2,200.0	2,199.8	2,189.7	2,189.7	4.0	44.4	127.46	-369.0	-276.5	465.3	417.1	48.25	9.643		
2,300.0	2,299.5	2,289.4	2,289.4	4.1	46.4	128.22	-369.0	-276.5	470.7	420.4	50.32	9.354		
2,350.0	2,349.1	2,339.0	2,339.0	4.1	47.4	128.70	-369.0	-276.5	474.2	422.9	51.35	9.236		
2,400.0	2,398.8	2,388.7	2,388.7	4.1	48.4	129.27	-369.0	-276.5	478.1	425.7	52.37	9.128		
2,500.0	2,498.0	2,487.9	2,487.9	4.1	50.4	130.37	-369.0	-276.5	485.9	431.5	54.43	8.927		
2,600.0	2,597.3	2,587.2	2,587.2	4.2	52.5	131.45	-369.0	-276.5	493.9	437.4	56.49	8.743		
2,700.0	2,696.5	2,686.4	2,686.4	4.2	54.5	132.49	-369.0	-276.5	502.1	443.5	58.56	8.574		
2,800.0	2,795.8	2,785.7	2,785.7	4.3	56.5	133.49	-369.0	-276.5	510.4	449.8	60.63	8.419		
2,900.0	2,895.0	2,884.9	2,884.9	4.3	58.5	134.46	-369.0	-276.5	518.9	456.2	62.70	8.277		
3,000.0	2,994.3	2,984.2	2,984.2	4.4	60.5	135.40	-369.0	-276.5	527.6	462.8	64.77	8.145		
3,100.0	3,093.5	3,083.4	3,083.4	4.5	62.5	136.32	-369.0	-276.5	536.4	469.5	66.85	8.024		
3,200.0	3,192.8	3,182.7	3,182.7	4.5	64.5	137.20	-369.0	-276.5	545.3	476.3	68.93	7.911		
3,300.0	3,292.0	3,281.9	3,281.9	4.6	66.5	138.05	-369.0	-276.5	554.3	483.3	71.01	7.806		
3,400.0	3,391.3	3,381.2	3,381.2	4.7	68.5	138.88	-369.0	-276.5	563.4	490.4	73.09	7.709		
3,500.0	3,490.6	3,480.5	3,480.5	4.7	70.5	139.68	-369.0	-276.5	572.7	497.5	75.18	7.618		
3,600.0	3,589.8	3,579.7	3,579.7	4.8	72.5	140.45	-369.0	-276.5	582.1	504.8	77.27	7.534		
3,700.0	3,689.1	3,679.0	3,679.0	4.9	74.5	141.20	-369.0	-276.5	591.6	512.2	79.36	7.455		
3,800.0	3,788.3	3,778.2	3,778.2	5.0	76.5	141.92	-369.0	-276.5	601.1	519.7	81.45	7.381		
3,900.0	3,887.6	3,877.5	3,877.5	5.1	78.5	142.63	-369.0	-276.5	610.8	527.3	83.54	7.311		
4,000.0	3,986.8	3,976.7	3,976.7	5.1	80.5	143.31	-369.0	-276.5	620.6	534.9	85.64	7.246		
4,100.0	4,086.1	4,076.0	4,076.0	5.2	82.6	143.97	-369.0	-276.5	630.4	542.7	87.74	7.185		
4,200.0	4,185.3	4,175.2	4,175.2	5.3	84.6	144.61	-369.0	-276.5	640.3	550.5	89.84	7.128		
4,300.0	4,284.6	4,274.5	4,274.5	5.4	86.6	145.23	-369.0	-276.5	650.3	558.4	91.94	7.073		
4,400.0	4,383.8	4,373.7	4,373.7	5.5	88.6	145.83	-369.0	-276.5	660.4	566.3	94.04	7.022 SF		
4,500.0	4,483.1	4,473.0	4,473.0	5.6	90.6	146.43	-369.0	-276.5	670.5	574.2	96.14	6.971		
4,600.0	4,582.4	4,572.3	4,572.3	5.7	92.6	147.03	-369.0	-276.5	680.6	582.1	98.24	6.920		
4,700.0	4,681.6	4,671.5	4,671.5	5.8	94.6	147.63	-369.0	-276.5	690.7	590.0	100.34	6.869		
4,800.0	4,780.9	4,770.8	4,770.8	5.9	96.6	148.23	-369.0	-276.5	700.8	597.9	102.44	6.818		
4,900.0	4,880.1	4,870.0	4,870.0	6.0	98.6	148.83	-369.0	-276.5	710.9	605.8	104.54	6.767		
5,000.0	4,979.4	4,969.3	4,969.3	6.1	100.6	149.43	-369.0	-276.5	721.0	613.7	106.64	6.716		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:	4400-INC-ONLY												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		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)	Separation Factor			
5,100.0	5,078.6	4,400.0	4,398.0	6.2	89.1	145.97	-369.0	-276.5	993.2	920.2	73.00	13.605		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-MWD+IFR1+MS														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.3	0.3	3.0	3.0	3.0	-155.03	-140.6	-65.4	155.1					
100.0	100.0	100.3	100.3	3.0	3.0	3.0	-155.12	-140.6	-65.2	155.0	149.0	6.01	25.779		
103.5	103.5	103.8	103.8	3.0	3.0	3.0	-155.13	-140.6	-65.2	155.0	149.0	6.01	25.772		
200.0	200.0	199.9	199.9	3.0	3.1	3.0	-155.25	-140.9	-65.0	155.1	149.0	6.11	25.388		
300.0	300.0	299.7	299.7	3.0	3.3	3.0	-155.40	-141.4	-64.7	155.5	149.2	6.30	24.688		
400.0	400.0	399.5	399.5	3.0	3.5	3.0	-155.56	-142.0	-64.5	155.9	149.4	6.51	23.946		
500.0	500.0	499.1	499.1	3.1	3.7	3.0	-155.74	-142.8	-64.3	156.6	149.8	6.75	23.196		
600.0	600.0	598.8	598.7	3.1	3.9	3.0	-155.95	-143.8	-64.2	157.5	150.5	7.01	22.464		
700.0	700.0	698.5	698.5	3.1	4.2	3.0	-156.27	-145.2	-63.8	158.6	151.3	7.29	21.739		
800.0	800.0	798.0	798.0	3.2	4.5	3.0	-156.58	-146.7	-63.5	159.9	152.3	7.59	21.054		
900.0	900.0	898.9	898.9	3.2	4.7	3.0	-156.89	-148.2	-63.2	161.1	153.2	7.91	20.367		
1,000.0	1,000.0	1,001.5	1,001.5	3.2	5.0	3.0	-157.21	-148.6	-62.4	161.2	153.0	8.20	19.651		
1,100.0	1,100.0	1,104.6	1,104.6	3.3	5.3	3.0	-157.21	-147.0	-61.8	159.5	151.0	8.52	18.728		
1,200.0	1,200.0	1,205.1	1,205.0	3.4	5.5	3.0	-156.83	-143.8	-61.5	156.5	147.7	8.81	17.756		
1,300.0	1,300.0	1,304.8	1,304.6	3.4	5.8	3.0	-156.34	-140.6	-61.6	153.6	144.5	9.12	16.852		
1,400.0	1,400.0	1,404.5	1,404.3	3.5	5.9	3.0	-155.78	-137.6	-61.9	150.9	141.6	9.30	16.222		
1,500.0	1,500.0	1,503.8	1,503.5	3.5	6.0	3.0	-155.15	-134.6	-62.3	148.4	138.9	9.46	15.687		
1,600.0	1,600.0	1,600.8	1,600.5	3.6	6.1	3.0	-154.59	-133.1	-63.2	147.3	137.7	9.63	15.294		
1,613.7	1,613.7	1,614.3	1,614.0	3.6	6.1	3.0	-154.52	-133.0	-63.4	147.3	137.6	9.65	15.258 CC, ES		
1,700.0	1,700.0	1,699.5	1,699.2	3.7	6.2	3.0	-154.13	-132.9	-64.4	147.7	137.9	9.79	15.080		
1,800.0	1,800.0	1,799.9	1,799.6	3.8	6.3	3.0	-153.69	-132.9	-65.7	148.3	138.3	9.97	14.870		
1,900.0	1,900.0	1,900.2	1,899.9	3.9	6.4	3.0	-153.25	-132.7	-66.9	148.6	138.4	10.18	14.605		
2,000.0	2,000.0	1,999.9	1,999.6	3.9	6.6	3.0	-152.89	-132.6	-67.9	149.0	138.6	10.39	14.335		
2,100.0	2,100.0	2,100.0	2,099.6	4.0	6.7	3.0	118.02	-132.6	-68.9	150.3	139.7	10.61	14.161		
2,200.0	2,199.8	2,200.2	2,199.9	4.0	6.9	3.0	119.98	-132.6	-69.7	153.1	142.3	10.83	14.140 SF		
2,300.0	2,299.5	2,300.1	2,299.8	4.1	7.1	3.0	122.77	-132.4	-70.0	157.7	146.6	11.06	14.252		
2,350.0	2,349.1	2,349.6	2,349.3	4.1	7.2	3.0	124.49	-132.2	-70.2	160.8	149.7	11.18	14.387		
2,400.0	2,398.8	2,399.2	2,398.8	4.1	7.4	3.0	126.32	-132.1	-70.4	164.4	153.1	11.29	14.560		
2,500.0	2,498.0	2,496.9	2,496.6	4.1	7.6	3.0	129.62	-132.3	-70.9	172.4	160.9	11.52	14.964		
2,600.0	2,597.3	2,594.2	2,593.9	4.2	7.8	3.0	132.40	-133.7	-71.6	182.0	170.2	11.78	15.445		
2,700.0	2,696.5	2,693.3	2,692.9	4.2	8.0	3.0	134.78	-135.9	-72.4	192.6	180.5	12.08	15.948		
2,800.0	2,795.8	2,793.0	2,792.6	4.3	8.3	3.0	136.94	-137.9	-73.0	203.2	190.8	12.38	16.409		
2,900.0	2,895.0	2,892.7	2,892.3	4.3	8.5	3.0	138.95	-139.6	-73.6	213.8	201.1	12.70	16.832		
3,000.0	2,994.3	2,992.8	2,992.3	4.4	8.8	3.0	140.84	-140.9	-74.0	224.4	211.4	13.04	17.215		
3,100.0	3,093.5	3,093.1	3,092.7	4.5	9.1	3.0	142.64	-141.7	-74.4	234.8	221.4	13.38	17.549		
3,200.0	3,192.8	3,192.5	3,192.0	4.5	9.4	3.0	144.26	-142.4	-74.5	245.0	231.3	13.72	17.854		
3,300.0	3,292.0	3,293.6	3,293.1	4.6	9.6	3.0	145.72	-143.0	-74.1	255.1	241.0	14.06	18.137		
3,400.0	3,391.3	3,393.5	3,393.0	4.7	9.9	3.0	147.05	-143.4	-73.3	264.8	250.4	14.39	18.399		
3,500.0	3,490.6	3,492.9	3,492.4	4.7	10.2	3.0	148.31	-143.5	-72.5	274.5	259.8	14.73	18.643		
3,600.0	3,589.8	3,591.3	3,590.8	4.8	10.4	3.0	149.52	-143.6	-72.1	284.6	269.6	15.06	18.895		
3,700.0	3,689.1	3,691.3	3,690.9	4.9	10.7	3.0	150.68	-143.7	-71.6	294.9	279.4	15.41	19.129		
3,800.0	3,788.3	3,791.7	3,791.2	5.0	11.0	3.0	151.65	-144.0	-70.6	304.9	289.1	15.77	19.327		
3,900.0	3,887.6	3,891.3	3,890.8	5.1	11.3	3.0	152.48	-144.7	-69.2	314.7	298.6	16.14	19.496		
4,000.0	3,986.8	3,990.6	3,990.2	5.1	11.6	3.0	153.15	-145.9	-67.6	324.7	308.2	16.52	19.656		
4,100.0	4,086.1	4,090.3	4,089.8	5.2	11.9	3.0	153.67	-147.7	-65.6	334.6	317.7	16.90	19.793		
4,200.0	4,185.3	4,189.9	4,189.4	5.3	12.2	3.0	154.31	-148.6	-64.0	344.5	327.2	17.29	19.927		
4,300.0	4,284.6	4,288.6	4,288.1	5.4	12.5	3.0	155.16	-148.1	-63.1	354.5	336.8	17.68	20.051		
4,400.0	4,383.8	4,387.6	4,387.1	5.5	12.8	3.0	155.96	-147.9	-62.3	364.8	346.8	18.08	20.182		
4,500.0	4,483.1	4,487.5	4,487.0	5.6	13.1	3.0	156.70	-147.6	-61.5	375.1	356.7	18.48	20.299		
4,600.0	4,582.4	4,586.0	4,585.5	5.7	13.4	3.0	157.44	-147.1	-60.8	385.5	366.6	18.89	20.408		
4,700.0	4,681.6	4,684.5	4,684.0	5.8	13.7	3.0	158.16	-146.5	-60.3	396.2	376.9	19.31	20.521		
4,800.0	4,780.9	4,782.8	4,782.2	5.9	14.0	3.0	158.83	-146.1	-60.1	407.1	387.4	19.73	20.640		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,880.1	4,881.9	4,881.3	6.0	14.3	159.44		-146.0	-59.9	418.3	398.2	20.15	20.761	
5,000.0	4,979.4	4,981.3	4,980.8	6.1	14.7	160.03		-145.8	-59.7	429.5	408.9	20.58	20.873	
5,100.0	5,078.6	5,081.0	5,080.4	6.2	15.0	160.60		-145.5	-59.5	440.7	419.7	21.01	20.976	
5,200.0	5,177.9	5,179.4	5,178.8	6.3	15.3	161.15		-145.1	-59.4	452.0	430.6	21.44	21.084	
5,300.0	5,277.1	5,279.1	5,278.6	6.4	15.7	161.69		-144.7	-59.3	463.4	441.5	21.87	21.185	
5,400.0	5,376.4	5,379.0	5,378.5	6.5	16.0	162.20		-144.2	-59.2	474.7	452.4	22.31	21.275	
5,471.7	5,447.6	5,451.0	5,450.4	6.6	16.2	162.55		-143.8	-58.9	482.7	460.0	22.63	21.332	
5,500.0	5,475.7	5,478.7	5,478.2	6.6	16.3	162.69		-143.7	-58.8	485.8	463.0	22.75	21.351	
5,600.0	5,575.1	5,577.1	5,576.5	6.7	16.7	163.12		-143.3	-58.6	495.8	472.6	23.19	21.381	
5,700.0	5,674.7	5,676.7	5,676.1	6.9	17.0	163.47		-143.0	-58.5	504.3	480.6	23.63	21.337	
5,800.0	5,774.4	5,776.8	5,776.2	7.0	17.3	163.74		-142.8	-58.3	511.1	487.0	24.08	21.225	
5,900.0	5,874.2	5,877.8	5,877.3	7.1	17.7	163.94		-142.7	-57.9	516.1	491.5	24.53	21.040	
6,000.0	5,974.1	5,978.0	5,977.5	7.2	18.0	164.08		-142.4	-57.4	519.2	494.2	24.97	20.789	
6,100.0	6,074.1	6,076.9	6,076.3	7.3	18.3	164.16		-142.2	-56.9	520.7	495.3	25.42	20.486	
6,171.7	6,145.8	6,147.9	6,147.4	7.3	18.6	-105.82		-142.1	-56.7	521.0	495.2	25.72	20.253	
6,200.0	6,174.1	6,176.2	6,175.6	7.3	18.7	-105.82		-142.0	-56.7	520.9	495.1	25.84	20.162	
6,300.0	6,274.1	6,275.6	6,275.0	7.4	19.0	-105.81		-141.9	-56.5	520.7	494.5	26.24	19.847	
6,400.0	6,374.1	6,375.1	6,374.5	7.5	19.3	-105.82		-141.9	-56.4	520.7	494.0	26.63	19.553	
6,426.6	6,400.7	6,401.6	6,401.0	7.5	19.4	-105.82		-141.9	-56.4	520.7	493.9	26.73	19.478	
6,500.0	6,474.1	6,474.1	6,473.5	7.6	19.7	-105.82		-142.0	-56.5	520.7	493.7	27.02	19.275	
6,600.0	6,574.1	6,573.9	6,573.4	7.7	20.0	-105.82		-142.0	-56.7	520.9	493.5	27.41	19.006	
6,700.0	6,674.1	6,672.9	6,672.3	7.8	20.3	-105.84		-142.3	-56.9	521.2	493.4	27.80	18.745	
6,800.0	6,774.1	6,770.8	6,770.3	7.9	20.7	-105.86		-142.6	-57.4	521.8	493.6	28.20	18.504	
6,900.0	6,874.1	6,867.2	6,866.6	8.0	21.0	-105.89		-143.2	-58.4	522.9	494.3	28.59	18.292	
7,000.0	6,974.1	6,965.7	6,965.1	8.0	21.3	-105.94		-144.0	-59.8	524.6	495.6	28.98	18.098	
7,100.0	7,074.1	7,065.2	7,064.6	8.1	21.6	-105.99		-145.0	-61.4	526.4	497.0	29.38	17.914	
7,200.0	7,174.1	7,165.8	7,165.1	8.2	22.0	-106.05		-146.0	-63.0	528.2	498.4	29.79	17.731	
7,300.0	7,274.1	7,265.6	7,265.0	8.3	22.3	-106.14		-147.3	-64.5	529.9	499.7	30.20	17.550	
7,400.0	7,374.1	7,363.5	7,362.8	8.4	22.7	-106.27		-149.0	-66.0	531.9	501.3	30.60	17.382	
7,500.0	7,474.1	7,459.6	7,458.9	8.5	23.0	-106.37		-150.5	-68.0	534.4	503.4	31.00	17.240	
7,600.0	7,574.1	7,553.7	7,552.9	8.6	23.3	-106.38		-151.6	-71.1	537.8	506.4	31.39	17.135	
7,700.0	7,674.1	7,646.6	7,645.7	8.7	23.6	-106.22		-151.3	-75.8	542.6	510.8	31.77	17.081	
7,800.0	7,774.1	7,747.7	7,746.7	8.8	24.0	-105.88		-149.7	-81.7	547.8	515.6	32.16	17.032	
7,900.0	7,874.1	7,847.0	7,845.7	8.9	24.3	-105.48		-147.4	-87.6	552.8	520.3	32.54	16.987	
8,000.0	7,974.1	7,945.2	7,943.8	9.0	24.6	-105.08		-145.0	-93.7	558.2	525.3	32.93	16.954	
8,100.0	8,074.1	8,044.6	8,042.9	9.1	25.0	-104.67		-142.6	-100.0	563.8	530.5	33.31	16.925	
8,200.0	8,174.1	8,142.8	8,140.8	9.2	25.3	-104.29		-140.3	-106.4	569.5	535.8	33.69	16.902	
8,300.0	8,274.1	8,241.4	8,239.2	9.3	25.6	-103.92		-138.1	-113.1	575.5	541.5	34.08	16.890	
8,400.0	8,374.1	8,338.8	8,336.3	9.4	26.0	-103.54		-135.9	-119.9	581.8	547.3	34.46	16.884	
8,500.0	8,474.1	8,435.1	8,432.3	9.5	26.3	-103.10		-133.1	-127.4	588.7	553.8	34.83	16.900	
8,600.0	8,574.1	8,533.9	8,530.7	9.6	26.6	-102.58		-129.5	-135.6	596.0	560.8	35.21	16.925	
8,700.0	8,674.1	8,628.6	8,625.0	9.7	27.0	-102.09		-126.0	-143.7	603.6	568.0	35.58	16.962	
8,800.0	8,774.1	8,727.1	8,723.0	9.8	27.3	-101.57		-122.4	-153.0	612.1	576.1	35.96	17.020	
8,900.0	8,874.1	8,827.4	8,822.8	9.9	27.6	-101.08		-118.8	-162.2	620.4	584.0	36.35	17.069	
9,000.0	8,974.1	8,924.2	8,919.1	10.1	28.0	-100.66		-115.9	-171.2	628.9	592.2	36.73	17.124	
9,100.0	9,074.1	9,013.8	9,008.2	10.2	28.3	-100.32		-113.8	-180.2	638.4	601.3	37.10	17.206	
9,200.0	9,174.1	9,106.5	9,100.3	10.3	28.6	-99.98		-111.9	-190.9	649.4	611.9	37.49	17.322	
9,300.0	9,274.1	9,202.5	9,195.6	10.4	29.0	-99.64		-109.9	-202.6	661.1	623.2	37.88	17.453	
9,400.0	9,374.1	9,301.9	9,294.2	10.5	29.3	-99.28		-107.8	-215.0	673.1	634.8	38.27	17.587	
9,500.0	9,474.1	9,404.5	9,395.9	10.6	29.7	-98.81		-104.2	-227.7	684.8	646.1	38.66	17.713	
9,600.0	9,574.1	9,500.9	9,491.4	10.7	30.0	-98.26		-99.4	-239.8	696.4	657.4	39.04	17.841	
9,700.0	9,674.1	9,599.5	9,589.1	10.8	30.3	-97.66		-93.8	-252.5	708.4	669.0	39.42	17.974	

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
+N/-S (usft)	+E/-W (usft)													
9,800.0	9,774.1	9,711.6	9,700.1	10.9	30.7	-96.95	-86.6	-266.0	719.6	679.8	39.80	18.081		
9,900.0	9,874.1	9,820.3	9,808.0	11.0	31.1	-96.31	-79.8	-277.4	729.3	689.1	40.18	18.151		
10,000.0	9,974.1	9,930.5	9,917.7	11.1	31.5	-95.91	-75.7	-287.2	737.7	697.2	40.59	18.177		
10,100.0	10,074.1	10,036.0	10,022.9	11.3	31.9	-95.67	-73.5	-295.0	744.9	703.9	41.00	18.169		
10,200.0	10,174.1	10,143.3	10,129.9	11.4	32.3	-95.48	-71.7	-302.2	751.5	710.0	41.40	18.151		
10,300.0	10,274.1	10,256.6	10,243.0	11.5	32.7	-95.32	-70.0	-308.1	756.5	714.7	41.81	18.095		
10,400.0	10,374.1	10,365.6	10,351.9	11.6	33.1	-95.20	-68.8	-312.0	760.0	717.8	42.22	18.003		
10,500.0	10,474.1	10,465.5	10,451.8	11.7	33.4	-95.10	-67.8	-315.1	763.0	720.4	42.62	17.904		
10,600.0	10,574.1	10,568.6	10,554.8	11.8	33.8	-94.98	-66.5	-318.1	765.8	722.8	43.02	17.802		
10,700.0	10,674.1	10,675.5	10,661.7	11.9	34.2	-94.89	-65.5	-320.6	768.0	724.6	43.42	17.686		
10,800.0	10,774.1	10,782.5	10,768.7	12.0	34.5	-94.88	-65.4	-321.7	769.0	725.2	43.84	17.543		
10,900.0	10,874.1	10,884.0	10,870.2	12.2	34.9	-94.88	-65.5	-322.3	769.6	725.4	44.25	17.394		
11,000.0	10,974.1	10,984.6	10,970.8	12.3	35.2	-94.91	-65.9	-322.8	770.2	725.5	44.66	17.245		
11,100.0	11,074.1	11,086.5	11,072.7	12.4	35.6	-94.98	-66.9	-323.1	770.5	725.5	45.07	17.095		
11,200.0	11,174.1	11,192.8	11,179.0	12.5	35.9	-95.26	-70.7	-322.5	770.3	724.8	45.50	16.929		
11,300.0	11,274.1	11,289.6	11,275.3	12.6	36.3	-95.95	-79.8	-321.3	769.9	724.0	45.94	16.760		
11,315.7	11,289.8	11,305.0	11,290.5	12.6	36.4	-96.10	-81.8	-321.0	769.9	723.9	46.01	16.734		
11,400.0	11,374.1	11,375.7	11,360.2	12.7	36.7	-96.98	-93.6	-320.2	770.6	724.2	46.39	16.612		
11,452.4	11,426.5	11,415.5	11,399.1	12.8	36.8	-97.60	-102.0	-320.2	772.0	725.3	46.63	16.553		
11,475.0	11,449.1	11,431.6	11,414.7	12.8	36.8	-97.43	-105.8	-320.3	773.0	726.3	46.67	16.562		
11,500.0	11,474.0	11,449.4	11,431.9	12.8	36.9	-97.68	-110.4	-320.5	774.4	727.7	46.78	16.555		
11,525.0	11,498.8	11,469.3	11,451.0	12.9	37.0	-98.02	-115.9	-320.8	776.3	729.4	46.90	16.552		
11,550.0	11,523.4	11,488.3	11,469.2	12.9	37.0	-98.38	-121.5	-321.1	778.7	731.6	47.04	16.553		
11,575.0	11,547.8	11,505.5	11,485.6	12.9	37.1	-98.70	-126.9	-321.4	781.5	734.3	47.18	16.562		
11,600.0	11,571.8	11,521.3	11,500.4	13.0	37.2	-98.97	-132.2	-321.7	784.8	737.4	47.34	16.579		
11,625.0	11,595.4	11,535.9	11,514.1	13.0	37.3	-99.18	-137.4	-321.9	788.7	741.2	47.50	16.604		
11,650.0	11,618.5	11,549.3	11,526.5	13.0	37.4	-99.30	-142.4	-322.2	793.3	745.6	47.68	16.639		
11,675.0	11,641.1	11,561.5	11,537.7	13.1	37.4	-99.32	-147.2	-322.4	798.6	750.7	47.86	16.684		
11,700.0	11,663.2	11,578.0	11,552.7	13.1	37.5	-99.55	-154.1	-322.8	804.6	756.5	48.07	16.738		
11,725.0	11,684.5	11,578.0	11,552.7	13.1	37.5	-98.72	-154.1	-322.8	811.3	763.0	48.26	16.813		
11,750.0	11,705.2	11,593.1	11,566.3	13.2	37.6	-98.74	-160.6	-323.1	818.7	770.3	48.47	16.892		
11,775.0	11,725.1	11,602.1	11,574.4	13.2	37.7	-98.29	-164.5	-323.3	826.9	778.3	48.68	16.988		
11,800.0	11,744.2	11,609.8	11,581.3	13.2	37.7	-97.67	-168.0	-323.4	835.9	787.0	48.89	17.097		
11,825.0	11,762.4	11,616.4	11,587.2	13.3	37.7	-96.88	-171.0	-323.6	845.5	796.4	49.10	17.219		
11,850.0	11,779.7	11,621.9	11,592.1	13.3	37.7	-95.90	-173.5	-323.7	855.9	806.6	49.31	17.356		
11,875.0	11,796.1	11,626.3	11,596.0	13.4	37.8	-94.74	-175.5	-323.8	866.9	817.4	49.52	17.506		
11,900.0	11,811.4	11,637.0	11,605.5	13.4	37.8	-93.94	-180.4	-324.0	878.7	828.9	49.73	17.668		
11,925.0	11,825.6	11,637.0	11,605.5	13.4	37.8	-92.25	-180.4	-324.0	891.0	841.0	49.93	17.846		
11,950.0	11,838.8	11,637.0	11,605.5	13.5	37.8	-90.46	-180.4	-324.0	903.8	853.7	50.11	18.035		
11,975.0	11,850.8	11,637.0	11,605.5	13.5	37.8	-88.56	-180.4	-324.0	917.1	866.9	50.29	18.237		
12,000.0	11,861.7	11,637.0	11,605.5	13.5	37.8	-86.58	-180.4	-324.0	931.0	880.5	50.46	18.449		
12,025.0	11,871.4	11,637.0	11,605.5	13.6	37.8	-84.51	-180.4	-324.0	945.2	894.5	50.62	18.671		
12,050.0	11,879.9	11,637.0	11,605.5	13.6	37.8	-82.38	-180.4	-324.0	959.7	908.9	50.77	18.902		
12,075.0	11,887.1	11,625.9	11,595.7	13.6	37.8	-79.41	-175.3	-323.8	974.4	923.5	50.90	19.145		
12,100.0	11,893.0	11,622.0	11,592.2	13.6	37.8	-76.95	-173.5	-323.7	989.4	938.4	51.02	19.392		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.5	0.5	3.0	3.0	-166.99		-140.3	-32.4	144.0					
100.0	100.0	100.5	100.5	3.0	3.0	-166.95		-140.2	-32.5	144.0	138.0	6.00	23.992		
200.0	200.0	200.3	200.3	3.0	3.0	-166.83		-140.3	-32.8	144.1	138.1	6.01	23.983		
300.0	300.0	300.1	300.1	3.0	3.0	-166.70		-140.4	-33.2	144.3	138.3	6.02	23.958		
400.0	400.0	400.0	400.0	3.0	3.0	-166.56		-140.6	-33.6	144.6	138.5	6.05	23.908		
500.0	500.0	499.8	499.8	3.1	3.1	-166.45		-141.0	-34.0	145.0	138.9	6.08	23.830		
600.0	600.0	599.6	599.6	3.1	3.1	-166.40		-141.5	-34.2	145.6	139.4	6.14	23.723		
700.0	700.0	699.6	699.5	3.1	3.1	-166.40		-142.1	-34.4	146.2	140.0	6.20	23.577		
800.0	800.0	799.5	799.5	3.2	3.2	-166.43		-142.8	-34.5	146.9	140.6	6.28	23.400		
900.0	900.0	899.6	899.6	3.2	3.2	-166.56		-143.5	-34.3	147.5	141.2	6.36	23.192		
1,000.0	1,000.0	999.7	999.7	3.2	3.2	-166.72		-144.2	-34.0	148.1	141.7	6.45	22.954		
1,100.0	1,100.0	1,099.8	1,099.8	3.3	3.3	-166.90		-144.7	-33.7	148.6	142.1	6.55	22.690		
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.3	-167.11		-145.3	-33.2	149.1	142.4	6.65	22.399		
1,300.0	1,300.0	1,300.1	1,300.0	3.4	3.4	-167.17		-145.7	-33.2	149.4	142.7	6.77	22.066		
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.6	-167.12		-146.1	-33.4	149.8	142.9	6.91	21.668		
1,500.0	1,500.0	1,498.8	1,498.8	3.5	3.8	-167.08		-146.8	-33.7	150.6	143.6	7.09	21.252		
1,600.0	1,600.0	1,598.7	1,598.7	3.6	4.0	-167.15		-148.0	-33.8	151.8	144.5	7.32	20.734		
1,700.0	1,700.0	1,698.5	1,698.5	3.7	4.2	-167.30		-149.3	-33.7	153.1	145.5	7.60	20.155		
1,800.0	1,800.0	1,799.1	1,799.1	3.8	4.4	-167.47		-150.7	-33.5	154.4	146.5	7.89	19.555		
1,900.0	1,900.0	1,902.0	1,902.0	3.9	4.6	-167.32		-150.5	-33.8	154.2	146.0	8.22	18.766		
2,000.0	2,000.0	2,003.2	2,003.1	3.9	4.9	-166.88		-148.8	-34.7	152.8	144.2	8.63	17.711		
2,100.0	2,100.0	2,103.0	2,102.9	4.0	5.2	104.14		-146.9	-35.2	151.5	142.5	8.95	16.920		
2,153.1	2,153.0	2,155.7	2,155.6	4.0	5.3	105.18		-146.0	-35.5	151.3	142.2	9.12	16.586		
2,200.0	2,199.8	2,202.3	2,202.2	4.0	5.4	106.40		-145.3	-35.8	151.5	142.2	9.28	16.324		
2,300.0	2,299.5	2,301.0	2,300.9	4.1	5.7	109.89		-144.0	-36.6	153.2	143.5	9.61	15.930		
2,350.0	2,349.1	2,350.1	2,349.9	4.1	5.8	111.99		-143.6	-37.0	155.0	145.2	9.78	15.845		
2,400.0	2,398.8	2,399.3	2,399.2	4.1	5.9	114.22		-143.3	-37.5	157.4	147.4	9.94	15.828		
2,500.0	2,498.0	2,498.0	2,497.9	4.1	6.2	118.47		-143.0	-38.6	163.0	152.8	10.25	15.901		
2,600.0	2,597.3	2,597.3	2,597.1	4.2	6.5	122.43		-142.9	-39.7	169.7	159.1	10.56	16.066		
2,700.0	2,696.5	2,696.6	2,696.4	4.2	6.7	126.07		-142.6	-40.7	176.9	166.1	10.88	16.264		
2,800.0	2,795.8	2,795.7	2,795.6	4.3	7.0	129.37		-142.4	-41.6	184.8	173.6	11.20	16.501		
2,900.0	2,895.0	2,899.4	2,899.3	4.3	7.4	132.28		-142.0	-41.2	192.3	180.8	11.54	16.662		
3,000.0	2,994.3	3,002.8	3,002.5	4.4	8.0	134.42		-141.1	-37.7	197.7	185.8	11.90	16.610		
3,100.0	3,093.5	3,099.3	3,099.0	4.5	8.4	136.29		-140.1	-34.3	203.1	190.9	12.26	16.563		
3,200.0	3,192.8	3,196.1	3,195.8	4.5	8.7	138.36		-139.3	-32.6	210.3	197.7	12.64	16.641		
3,300.0	3,292.0	3,297.2	3,296.9	4.6	9.0	140.42		-138.5	-31.1	218.0	205.0	13.01	16.758		
3,400.0	3,391.3	3,396.9	3,396.6	4.7	9.3	142.30		-137.5	-29.3	225.4	212.0	13.38	16.843		
3,500.0	3,490.6	3,494.8	3,494.4	4.7	9.6	144.03		-136.6	-27.7	233.4	219.7	13.76	16.963		
3,600.0	3,589.8	3,593.8	3,593.5	4.8	9.9	145.66		-136.0	-26.5	242.1	227.9	14.15	17.106		
3,700.0	3,689.1	3,693.0	3,692.7	4.9	10.2	147.14		-135.7	-25.3	251.0	236.5	14.54	17.262		
3,800.0	3,788.3	3,792.2	3,791.8	5.0	10.5	148.43		-135.5	-23.8	260.0	245.0	14.94	17.398		
3,900.0	3,887.6	3,888.4	3,888.0	5.1	10.9	149.69		-135.5	-23.3	270.0	254.6	15.34	17.596		
4,000.0	3,986.8	3,987.2	3,986.8	5.1	11.1	150.96		-135.5	-23.5	280.8	265.0	15.76	17.821		
4,100.0	4,086.1	4,087.1	4,086.7	5.2	11.5	151.97		-136.2	-23.1	291.6	275.4	16.19	18.007		
4,200.0	4,185.3	4,185.2	4,184.8	5.3	11.8	152.83		-137.2	-22.7	302.4	285.8	16.61	18.203		
4,300.0	4,284.6	4,281.6	4,281.2	5.4	12.1	153.85		-137.4	-23.4	314.1	297.1	17.01	18.464		
4,400.0	4,383.8	4,379.0	4,378.6	5.5	12.4	154.95		-137.2	-25.3	326.7	309.3	17.42	18.757		
4,500.0	4,483.1	4,478.0	4,477.5	5.6	12.7	155.99		-137.0	-27.3	339.6	321.8	17.83	19.047		
4,600.0	4,582.4	4,584.6	4,584.1	5.7	13.1	157.09		-136.2	-28.9	351.9	333.6	18.30	19.231		
4,700.0	4,681.6	4,690.6	4,690.1	5.8	13.5	158.25		-133.5	-28.4	361.7	342.9	18.81	19.228		
4,800.0	4,780.9	4,795.6	4,795.0	5.9	13.8	159.49		-129.3	-26.7	370.2	350.9	19.29	19.193		
4,900.0	4,880.1	4,898.2	4,897.4	6.0	14.1	160.84		-123.6	-24.3	377.6	357.8	19.75	19.122		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
+N/-S (usft)	+E/-W (usft)													
5,000.0	4,979.4	4,997.2	4,996.2	6.1	14.5	162.18	-117.5	-21.8	384.8	364.6	20.18	19.067		
5,100.0	5,078.6	5,095.6	5,094.4	6.2	14.8	163.43	-111.6	-19.4	392.4	371.8	20.62	19.033		
5,200.0	5,177.9	5,195.6	5,194.2	6.3	15.1	164.62	-105.8	-17.1	400.3	379.3	21.06	19.012		
5,300.0	5,277.1	5,301.5	5,299.8	6.4	15.5	165.91	-99.0	-13.7	407.4	385.9	21.51	18.940		
5,400.0	5,376.4	5,404.7	5,402.6	6.5	15.8	167.28	-90.8	-9.3	413.3	391.3	21.97	18.816		
5,471.7	5,447.6	5,475.8	5,473.3	6.6	16.1	168.23	-85.0	-6.1	417.4	395.2	22.28	18.735		
5,500.0	5,475.7	5,503.0	5,500.5	6.6	16.1	168.60	-82.7	-4.9	419.1	396.7	22.40	18.708		
5,600.0	5,575.1	5,602.1	5,599.2	6.7	16.5	169.87	-74.5	-0.7	424.0	401.1	22.85	18.558		
5,700.0	5,674.7	5,699.3	5,696.0	6.9	16.8	171.01	-66.8	3.2	427.7	404.4	23.30	18.352		
5,800.0	5,774.4	5,792.1	5,788.6	7.0	17.2	171.77	-61.6	6.3	430.8	407.0	23.78	18.117		
5,900.0	5,874.2	5,885.4	5,881.8	7.1	17.5	172.21	-58.8	8.0	434.1	409.8	24.26	17.893		
6,000.0	5,974.1	5,983.2	5,979.6	7.2	17.9	172.37	-58.0	9.2	436.6	411.9	24.74	17.649		
6,100.0	6,074.1	6,082.9	6,079.3	7.3	18.3	172.40	-57.9	10.3	437.7	412.5	25.19	17.372		
6,171.7	6,145.8	6,154.4	6,150.8	7.3	18.5	-97.59	-57.8	11.0	437.3	411.8	25.49	17.157		
6,200.0	6,174.1	6,182.5	6,178.8	7.3	18.6	-97.60	-57.8	11.3	437.1	411.5	25.60	17.073		
6,300.0	6,274.1	6,282.0	6,278.3	7.4	18.9	-97.61	-57.7	12.2	436.2	410.2	25.98	16.786		
6,400.0	6,374.1	6,381.9	6,378.2	7.5	19.3	-97.63	-57.8	13.0	435.3	409.0	26.37	16.509		
6,500.0	6,474.1	6,481.6	6,477.9	7.6	19.6	-97.66	-57.9	13.9	434.5	407.8	26.75	16.242		
6,600.0	6,574.1	6,581.7	6,578.1	7.7	19.9	-97.69	-58.0	14.7	433.8	406.6	27.14	15.982		
6,700.0	6,674.1	6,681.3	6,677.6	7.8	20.3	-97.72	-58.1	15.4	433.0	405.5	27.53	15.730		
6,800.0	6,774.1	6,780.7	6,777.1	7.9	20.6	-97.74	-58.2	16.1	432.4	404.5	27.91	15.489		
6,900.0	6,874.1	6,879.1	6,875.5	8.0	20.9	-97.77	-58.4	16.5	432.0	403.7	28.30	15.266		
7,000.0	6,974.1	6,978.7	6,975.1	8.0	21.2	-97.80	-58.6	16.6	431.8	403.2	28.68	15.057		
7,100.0	7,074.1	7,078.3	7,074.7	8.1	21.6	-97.85	-59.0	16.8	431.8	402.7	29.07	14.854		
7,108.5	7,082.7	7,086.8	7,083.2	8.2	21.6	-97.85	-59.0	16.8	431.8	402.7	29.10	14.837		
7,200.0	7,174.1	7,177.7	7,174.1	8.2	21.9	-97.90	-59.4	16.8	431.8	402.4	29.46	14.659		
7,300.0	7,274.1	7,277.4	7,273.8	8.3	22.2	-97.97	-59.9	16.7	432.0	402.2	29.86	14.470		
7,400.0	7,374.1	7,376.9	7,373.2	8.4	22.6	-98.06	-60.6	16.5	432.2	402.0	30.25	14.288		
7,500.0	7,474.1	7,475.9	7,472.2	8.5	22.9	-98.14	-61.3	16.1	432.7	402.1	30.65	14.119		
7,600.0	7,574.1	7,575.3	7,571.6	8.6	23.3	-98.22	-61.9	15.7	433.3	402.3	31.05	13.956		
7,700.0	7,674.1	7,674.6	7,670.9	8.7	23.6	-98.29	-62.6	14.9	434.1	402.7	31.45	13.805		
7,800.0	7,774.1	7,774.4	7,770.7	8.8	23.9	-98.35	-63.2	14.1	435.0	403.1	31.85	13.659		
7,900.0	7,874.1	7,874.3	7,870.6	8.9	24.3	-98.42	-63.9	13.3	435.9	403.7	32.25	13.517		
8,000.0	7,974.1	7,974.0	7,970.3	9.0	24.6	-98.48	-64.4	12.5	436.8	404.2	32.65	13.379		
8,100.0	8,074.1	8,073.7	8,070.0	9.1	25.0	-98.55	-65.1	11.5	437.9	404.8	33.05	13.248		
8,200.0	8,174.1	8,173.4	8,169.7	9.2	25.3	-98.62	-65.8	10.5	439.0	405.5	33.45	13.121		
8,300.0	8,274.1	8,273.0	8,269.3	9.3	25.6	-98.68	-66.4	9.5	440.1	406.3	33.86	12.999		
8,400.0	8,374.1	8,372.4	8,368.7	9.4	26.0	-98.76	-67.2	8.3	441.4	407.1	34.26	12.883		
8,500.0	8,474.1	8,472.3	8,468.6	9.5	26.3	-98.84	-68.1	7.1	442.7	408.1	34.67	12.771		
8,600.0	8,574.1	8,572.3	8,568.5	9.6	26.7	-98.93	-69.0	5.8	444.1	409.0	35.08	12.662		
8,700.0	8,674.1	8,673.0	8,669.2	9.7	27.0	-99.01	-69.8	4.7	445.3	409.9	35.49	12.550		
8,800.0	8,774.1	8,766.8	8,763.0	9.8	27.3	-99.07	-70.5	3.0	447.3	411.4	35.88	12.466		
8,900.0	8,874.1	8,866.4	8,862.6	9.9	27.7	-99.21	-72.0	0.5	450.0	413.7	36.29	12.400		
9,000.0	8,974.1	8,969.2	8,965.4	10.1	28.0	-99.18	-72.2	-1.8	452.2	415.5	36.69	12.325		
9,100.0	9,074.1	9,066.8	9,062.9	10.2	28.4	-98.83	-69.7	-4.5	454.5	417.4	37.07	12.260		
9,200.0	9,174.1	9,163.1	9,159.0	10.3	28.7	-98.44	-67.1	-7.8	457.5	420.1	37.44	12.219		
9,300.0	9,274.1	9,263.5	9,259.4	10.4	29.0	-98.14	-65.2	-11.7	461.1	423.3	37.83	12.189		
9,400.0	9,374.1	9,375.7	9,371.6	10.5	29.4	-97.85	-63.3	-14.6	463.5	425.2	38.24	12.119		
9,500.0	9,474.1	9,497.8	9,493.5	10.6	29.9	-97.37	-59.2	-13.1	461.8	423.0	38.76	11.913		
9,600.0	9,574.1	9,600.3	9,595.9	10.7	30.3	-96.80	-54.1	-9.0	457.2	418.0	39.20	11.663		
9,700.0	9,674.1	9,697.0	9,692.4	10.8	30.7	-96.25	-49.3	-5.5	453.0	413.5	39.57	11.448		
9,800.0	9,774.1	9,795.8	9,791.0	10.9	31.0	-95.76	-45.0	-2.3	449.3	409.4	39.95	11.248		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)				
9,900.0	9,874.1	9,892.8	9,887.9	11.0	31.4	-95.34	-41.5	0.6	446.0	405.7	40.32	11.061		
10,000.0	9,974.1	9,990.2	9,985.2	11.1	31.7	-94.96	-38.3	2.9	443.4	402.7	40.70	10.894		
10,100.0	10,074.1	10,093.6	10,088.6	11.3	32.1	-94.88	-37.5	5.7	440.7	399.6	41.10	10.721		
10,200.0	10,174.1	10,193.0	10,187.8	11.4	32.4	-95.42	-41.3	9.5	437.2	395.6	41.54	10.524		
10,300.0	10,274.1	10,284.7	10,279.4	11.5	32.7	-96.03	-45.7	11.6	435.3	393.4	41.98	10.371		
10,400.0	10,374.1	10,383.3	10,377.9	11.6	33.1	-96.66	-50.4	13.0	434.4	392.0	42.41	10.242		
10,500.0	10,474.1	10,481.6	10,476.1	11.7	33.4	-97.22	-54.5	14.1	433.9	391.0	42.85	10.125		
10,578.6	10,552.7	10,558.8	10,553.2	11.8	33.7	-97.61	-57.5	14.6	433.7	390.5	43.19	10.042		
10,600.0	10,574.1	10,579.7	10,574.1	11.8	33.8	-97.71	-58.2	14.7	433.7	390.4	43.28	10.021		
10,700.0	10,674.1	10,678.0	10,672.3	11.9	34.1	-98.13	-61.4	14.8	434.1	390.4	43.71	9.931		
10,800.0	10,774.1	10,777.4	10,771.7	12.0	34.4	-98.50	-64.2	14.6	434.7	390.6	44.14	9.848		
10,900.0	10,874.1	10,878.4	10,872.7	12.2	34.8	-98.78	-66.4	14.3	435.4	390.8	44.57	9.768		
11,000.0	10,974.1	10,980.8	10,975.1	12.3	35.1	-98.96	-67.8	14.3	435.5	390.5	44.99	9.680		
11,100.0	11,074.1	11,081.9	11,076.1	12.4	35.5	-99.02	-68.2	14.6	435.2	389.8	45.40	9.587		
11,200.0	11,174.1	11,180.9	11,175.2	12.5	35.8	-99.06	-68.5	15.0	435.0	389.2	45.80	9.496		
11,294.5	11,268.7	11,274.9	11,269.2	12.6	36.1	-99.14	-69.1	15.1	434.9	388.7	46.19	9.415		
11,300.0	11,274.1	11,280.3	11,274.6	12.6	36.2	-99.14	-69.1	15.1	434.9	388.7	46.22	9.410		
11,400.0	11,374.1	11,380.1	11,374.4	12.7	36.5	-99.25	-69.9	15.2	434.9	388.3	46.63	9.327		
11,452.4	11,426.5	11,432.3	11,426.6	12.8	36.7	-99.32	-70.4	15.3	435.0	388.1	46.85	9.284		
11,475.0	11,449.1	11,454.8	11,449.1	12.8	36.8	-99.05	-70.7	15.3	435.1	388.1	46.94	9.270		
11,500.0	11,474.0	11,479.7	11,473.9	12.8	36.9	-99.28	-71.0	15.3	435.4	388.4	47.04	9.255		
11,525.0	11,498.8	11,504.3	11,498.6	12.9	36.9	-99.65	-71.2	15.3	436.0	388.8	47.17	9.243		
11,550.0	11,523.4	11,528.8	11,523.1	12.9	37.0	-100.15	-71.5	15.3	436.8	389.5	47.30	9.234		
11,575.0	11,547.8	11,553.0	11,547.3	12.9	37.1	-100.77	-71.8	15.3	437.9	390.5	47.45	9.229		
11,600.0	11,571.8	11,576.8	11,571.1	13.0	37.2	-101.49	-72.1	15.3	439.4	391.8	47.61	9.229 SF		
11,625.0	11,595.4	11,600.3	11,594.6	13.0	37.3	-102.29	-72.4	15.3	441.2	393.5	47.78	9.235		
11,650.0	11,618.5	11,623.4	11,617.6	13.0	37.4	-103.16	-72.7	15.3	443.6	395.6	47.96	9.248		
11,675.0	11,641.1	11,645.8	11,640.1	13.1	37.4	-104.07	-73.0	15.3	446.4	398.3	48.16	9.270		
11,700.0	11,663.2	11,667.7	11,661.9	13.1	37.5	-104.99	-73.4	15.3	449.9	401.5	48.36	9.302		
11,725.0	11,684.5	11,688.8	11,683.1	13.1	37.6	-105.90	-73.7	15.4	454.0	405.4	48.57	9.346		
11,750.0	11,705.2	11,709.2	11,703.5	13.2	37.7	-106.77	-74.0	15.4	458.8	410.0	48.79	9.403		
11,775.0	11,725.1	11,728.8	11,723.1	13.2	37.7	-107.58	-74.3	15.4	464.4	415.4	49.01	9.475		
11,800.0	11,744.2	11,747.6	11,741.9	13.2	37.8	-108.30	-74.5	15.4	470.9	421.7	49.24	9.564		
11,825.0	11,762.4	11,765.5	11,759.7	13.3	37.8	-108.91	-74.8	15.4	478.3	428.8	49.47	9.669		
11,850.0	11,779.7	11,782.5	11,776.7	13.3	37.9	-109.39	-75.1	15.4	486.6	436.9	49.69	9.793		
11,875.0	11,796.1	11,798.5	11,792.7	13.4	38.0	-109.71	-75.3	15.4	495.9	446.0	49.91	9.936		
11,900.0	11,811.4	11,813.4	11,807.7	13.4	38.0	-109.85	-75.5	15.4	506.2	456.1	50.13	10.099		
11,925.0	11,825.6	11,827.4	11,821.6	13.4	38.1	-109.78	-75.7	15.4	517.5	467.1	50.33	10.281		
11,950.0	11,838.8	11,840.2	11,834.5	13.5	38.1	-109.49	-75.9	15.3	529.7	479.2	50.53	10.483		
11,975.0	11,850.8	11,851.9	11,846.2	13.5	38.1	-108.96	-76.1	15.3	543.0	492.2	50.72	10.705		
12,000.0	11,861.7	11,862.5	11,856.8	13.5	38.2	-108.15	-76.2	15.3	557.1	506.2	50.89	10.947		
12,025.0	11,871.4	11,872.1	11,866.3	13.6	38.2	-107.07	-76.3	15.3	572.1	521.1	51.06	11.206		
12,050.0	11,879.9	11,880.4	11,874.6	13.6	38.2	-105.66	-76.4	15.3	588.0	536.8	51.20	11.484		
12,075.0	11,887.1	11,887.4	11,881.6	13.6	38.3	-103.91	-76.5	15.3	604.7	553.4	51.34	11.778		
12,100.0	11,893.0	11,893.1	11,887.3	13.6	38.3	-101.79	-76.6	15.3	622.1	570.6	51.46	12.088		
12,125.0	11,897.7	11,897.6	11,891.8	13.7	38.3	-99.28	-76.7	15.3	640.1	588.5	51.57	12.413		
12,150.0	11,901.1	11,900.7	11,894.9	13.7	38.3	-96.38	-76.7	15.3	658.7	607.0	51.66	12.751		
12,175.0	11,903.2	11,902.5	11,896.7	13.7	38.3	-93.08	-76.7	15.3	677.8	626.0	51.74	13.100		
12,202.4	11,904.0	11,902.9	11,897.2	13.7	38.3	-89.03	-76.7	15.3	699.2	647.4	51.81	13.495		
12,300.0	11,904.0	11,901.7	11,895.9	13.8	38.3	-88.86	-76.7	15.3	778.5	726.5	52.00	14.971		
12,400.0	11,904.0	11,900.4	11,894.6	13.9	38.3	-88.69	-76.7	15.3	863.6	811.5	52.13	16.566		
12,500.0	11,904.0	11,899.1	11,893.3	14.0	38.3	-88.52	-76.7	15.3	951.7	899.4	52.23	18.222		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01														Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS, 11259-MWD+IFR1+MS														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.5	0.5	3.0	3.0	-166.99		-140.3	-32.4		144.0				
100.0	100.0	100.5	100.5	3.0	3.0	-166.95		-140.2	-32.5		144.0	138.0	6.00	23.992	
200.0	200.0	200.3	200.3	3.0	3.0	-166.83		-140.3	-32.8		144.1	138.1	6.01	23.983	
300.0	300.0	300.1	300.1	3.0	3.0	-166.70		-140.4	-33.2		144.3	138.3	6.02	23.958	
400.0	400.0	400.0	400.0	3.0	3.0	-166.56		-140.6	-33.6		144.6	138.5	6.05	23.908	
500.0	500.0	499.8	499.8	3.1	3.1	-166.45		-141.0	-34.0		145.0	138.9	6.08	23.830	
600.0	600.0	599.6	599.6	3.1	3.1	-166.40		-141.5	-34.2		145.6	139.4	6.14	23.723	
700.0	700.0	699.6	699.5	3.1	3.1	-166.40		-142.1	-34.4		146.2	140.0	6.20	23.577	
800.0	800.0	799.5	799.5	3.2	3.2	-166.43		-142.8	-34.5		146.9	140.6	6.28	23.400	
900.0	900.0	899.6	899.6	3.2	3.2	-166.56		-143.5	-34.3		147.5	141.2	6.36	23.192	
1,000.0	1,000.0	999.7	999.7	3.2	3.2	-166.72		-144.2	-34.0		148.1	141.7	6.45	22.954	
1,100.0	1,100.0	1,099.8	1,099.8	3.3	3.3	-166.90		-144.7	-33.7		148.6	142.1	6.55	22.690	
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.3	-167.11		-145.3	-33.2		149.1	142.4	6.65	22.399	
1,300.0	1,300.0	1,300.1	1,300.0	3.4	3.4	-167.17		-145.7	-33.2		149.4	142.7	6.77	22.066	
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.6	-167.12		-146.1	-33.4		149.8	142.9	6.91	21.668	
1,500.0	1,500.0	1,498.8	1,498.8	3.5	3.8	-167.08		-146.8	-33.7		150.6	143.6	7.09	21.252	
1,600.0	1,600.0	1,598.7	1,598.7	3.6	4.0	-167.15		-148.0	-33.8		151.8	144.5	7.32	20.734	
1,700.0	1,700.0	1,698.5	1,698.5	3.7	4.2	-167.30		-149.3	-33.7		153.1	145.5	7.60	20.155	
1,800.0	1,800.0	1,799.1	1,799.1	3.8	4.4	-167.47		-150.7	-33.5		154.4	146.5	7.89	19.555	
1,900.0	1,900.0	1,902.0	1,902.0	3.9	4.6	-167.32		-150.5	-33.8		154.2	146.0	8.22	18.766	
2,000.0	2,000.0	2,003.2	2,003.1	3.9	4.9	-166.88		-148.8	-34.7		152.8	144.2	8.63	17.711	
2,100.0	2,100.0	2,103.0	2,102.9	4.0	5.2	104.14		-146.9	-35.2		151.5	142.5	8.95	16.920	
2,153.1	2,153.0	2,155.7	2,155.6	4.0	5.3	105.18		-146.0	-35.5		151.3	142.2	9.12	16.586	
2,200.0	2,199.8	2,202.3	2,202.2	4.0	5.4	106.40		-145.3	-35.8		151.5	142.2	9.28	16.324	
2,300.0	2,299.5	2,301.0	2,300.9	4.1	5.7	109.89		-144.0	-36.6		153.2	143.5	9.61	15.930	
2,350.0	2,349.1	2,350.1	2,349.9	4.1	5.8	111.99		-143.6	-37.0		155.0	145.2	9.78	15.845	
2,400.0	2,398.8	2,399.3	2,399.2	4.1	5.9	114.22		-143.3	-37.5		157.4	147.4	9.94	15.828	
2,500.0	2,498.0	2,498.0	2,497.9	4.1	6.2	118.47		-143.0	-38.6		163.0	152.8	10.25	15.901	
2,600.0	2,597.3	2,597.3	2,597.1	4.2	6.5	122.43		-142.9	-39.7		169.7	159.1	10.56	16.066	
2,700.0	2,696.5	2,696.6	2,696.4	4.2	6.7	126.07		-142.6	-40.7		176.9	166.1	10.88	16.264	
2,800.0	2,795.8	2,795.7	2,795.6	4.3	7.0	129.37		-142.4	-41.6		184.8	173.6	11.20	16.501	
2,900.0	2,895.0	2,899.4	2,899.3	4.3	7.4	132.28		-142.0	-41.2		192.3	180.8	11.54	16.662	
3,000.0	2,994.3	3,002.8	3,002.5	4.4	8.0	134.42		-141.1	-37.7		197.7	185.8	11.90	16.610	
3,100.0	3,093.5	3,099.3	3,099.0	4.5	8.4	136.29		-140.1	-34.3		203.1	190.9	12.26	16.563	
3,200.0	3,192.8	3,196.1	3,195.8	4.5	8.7	138.36		-139.3	-32.6		210.3	197.7	12.64	16.641	
3,300.0	3,292.0	3,297.2	3,296.9	4.6	9.0	140.42		-138.5	-31.1		218.0	205.0	13.01	16.758	
3,400.0	3,391.3	3,396.9	3,396.6	4.7	9.3	142.30		-137.5	-29.3		225.4	212.0	13.38	16.843	
3,500.0	3,490.6	3,494.8	3,494.4	4.7	9.6	144.03		-136.6	-27.7		233.4	219.7	13.76	16.963	
3,600.0	3,589.8	3,593.8	3,593.5	4.8	9.9	145.66		-136.0	-26.5		242.1	227.9	14.15	17.106	
3,700.0	3,689.1	3,693.0	3,692.7	4.9	10.2	147.14		-135.7	-25.3		251.0	236.5	14.54	17.262	
3,800.0	3,788.3	3,792.2	3,791.8	5.0	10.5	148.43		-135.5	-23.8		260.0	245.0	14.94	17.398	
3,900.0	3,887.6	3,888.4	3,888.0	5.1	10.9	149.69		-135.5	-23.3		270.0	254.6	15.34	17.596	
4,000.0	3,986.8	3,987.2	3,986.8	5.1	11.1	150.96		-135.5	-23.5		280.8	265.0	15.76	17.821	
4,100.0	4,086.1	4,087.1	4,086.7	5.2	11.5	151.97		-136.2	-23.1		291.6	275.4	16.19	18.007	
4,200.0	4,185.3	4,185.2	4,184.8	5.3	11.8	152.83		-137.2	-22.7		302.4	285.8	16.61	18.203	
4,300.0	4,284.6	4,281.6	4,281.2	5.4	12.1	153.85		-137.4	-23.4		314.1	297.1	17.01	18.464	
4,400.0	4,383.8	4,379.0	4,378.6	5.5	12.4	154.95		-137.2	-25.3		326.7	309.3	17.42	18.757	
4,500.0	4,483.1	4,478.0	4,477.5	5.6	12.7	155.99		-137.0	-27.3		339.6	321.8	17.83	19.047	
4,600.0	4,582.4	4,584.6	4,584.1	5.7	13.1	157.09		-136.2	-28.9		351.9	333.6	18.30	19.231	
4,700.0	4,681.6	4,690.6	4,690.1	5.8	13.5	158.25		-133.5	-28.4		361.7	342.9	18.81	19.228	
4,800.0	4,780.9	4,795.6	4,795.0	5.9	13.8	159.49		-129.3	-26.7		370.2	350.9	19.29	19.193	
4,900.0	4,880.1	4,898.2	4,897.4	6.0	14.1	160.84		-123.6	-24.3		377.6	357.8	19.75	19.122	

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS, 11259-MWD+IFR1+MS								Rule Assigned:				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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,979.4	4,997.2	4,996.2	6.1	14.5	162.18	-117.5	-21.8	384.8	364.6	20.18	19.067		
5,100.0	5,078.6	5,095.6	5,094.4	6.2	14.8	163.43	-111.6	-19.4	392.4	371.8	20.62	19.033		
5,200.0	5,177.9	5,195.6	5,194.2	6.3	15.1	164.62	-105.8	-17.1	400.3	379.3	21.06	19.012		
5,300.0	5,277.1	5,301.5	5,299.8	6.4	15.5	165.91	-99.0	-13.7	407.4	385.9	21.51	18.940		
5,400.0	5,376.4	5,404.7	5,402.6	6.5	15.8	167.28	-90.8	-9.3	413.3	391.3	21.97	18.816		
5,471.7	5,447.6	5,475.8	5,473.3	6.6	16.1	168.23	-85.0	-6.1	417.4	395.2	22.28	18.735		
5,500.0	5,475.7	5,503.0	5,500.5	6.6	16.1	168.60	-82.7	-4.9	419.1	396.7	22.40	18.708		
5,600.0	5,575.1	5,602.1	5,599.2	6.7	16.5	169.87	-74.5	-0.7	424.0	401.1	22.85	18.558		
5,700.0	5,674.7	5,699.3	5,696.0	6.9	16.8	171.01	-66.8	3.2	427.7	404.4	23.30	18.352		
5,800.0	5,774.4	5,792.1	5,788.6	7.0	17.2	171.77	-61.6	6.3	430.8	407.0	23.78	18.117		
5,900.0	5,874.2	5,885.4	5,881.8	7.1	17.5	172.21	-58.8	8.0	434.1	409.8	24.26	17.893		
6,000.0	5,974.1	5,983.2	5,979.6	7.2	17.9	172.37	-58.0	9.2	436.6	411.9	24.74	17.649		
6,100.0	6,074.1	6,082.9	6,079.3	7.3	18.3	172.40	-57.9	10.3	437.7	412.5	25.19	17.372		
6,171.7	6,145.8	6,154.4	6,150.8	7.3	18.5	-97.59	-57.8	11.0	437.3	411.8	25.49	17.157		
6,200.0	6,174.1	6,182.5	6,178.8	7.3	18.6	-97.60	-57.8	11.3	437.1	411.5	25.60	17.073		
6,300.0	6,274.1	6,282.0	6,278.3	7.4	18.9	-97.61	-57.7	12.2	436.2	410.2	25.98	16.786		
6,400.0	6,374.1	6,381.9	6,378.2	7.5	19.3	-97.63	-57.8	13.0	435.3	409.0	26.37	16.509		
6,500.0	6,474.1	6,481.6	6,477.9	7.6	19.6	-97.66	-57.9	13.9	434.5	407.8	26.75	16.242		
6,600.0	6,574.1	6,581.7	6,578.1	7.7	19.9	-97.69	-58.0	14.7	433.8	406.6	27.14	15.982		
6,700.0	6,674.1	6,681.3	6,677.6	7.8	20.3	-97.72	-58.1	15.4	433.0	405.5	27.53	15.730		
6,800.0	6,774.1	6,780.7	6,777.1	7.9	20.6	-97.74	-58.2	16.1	432.4	404.5	27.91	15.489		
6,900.0	6,874.1	6,879.1	6,875.5	8.0	20.9	-97.77	-58.4	16.5	432.0	403.7	28.30	15.266		
7,000.0	6,974.1	6,978.7	6,975.1	8.0	21.2	-97.80	-58.6	16.6	431.8	403.2	28.68	15.057		
7,100.0	7,074.1	7,078.3	7,074.7	8.1	21.6	-97.85	-59.0	16.8	431.8	402.7	29.07	14.854		
7,108.5	7,082.7	7,086.8	7,083.2	8.2	21.6	-97.85	-59.0	16.8	431.8	402.7	29.10	14.837		
7,200.0	7,174.1	7,177.7	7,174.1	8.2	21.9	-97.90	-59.4	16.8	431.8	402.4	29.46	14.659		
7,300.0	7,274.1	7,277.4	7,273.8	8.3	22.2	-97.97	-59.9	16.7	432.0	402.2	29.86	14.470		
7,400.0	7,374.1	7,376.9	7,373.2	8.4	22.6	-98.06	-60.6	16.5	432.2	402.0	30.25	14.288		
7,500.0	7,474.1	7,475.9	7,472.2	8.5	22.9	-98.14	-61.3	16.1	432.7	402.1	30.65	14.119		
7,600.0	7,574.1	7,575.3	7,571.6	8.6	23.3	-98.22	-61.9	15.7	433.3	402.3	31.05	13.956		
7,700.0	7,674.1	7,674.6	7,670.9	8.7	23.6	-98.29	-62.6	14.9	434.1	402.7	31.45	13.805		
7,800.0	7,774.1	7,774.4	7,770.7	8.8	23.9	-98.35	-63.2	14.1	435.0	403.1	31.85	13.659		
7,900.0	7,874.1	7,874.3	7,870.6	8.9	24.3	-98.42	-63.9	13.3	435.9	403.7	32.25	13.517		
8,000.0	7,974.1	7,974.0	7,970.3	9.0	24.6	-98.48	-64.4	12.5	436.8	404.2	32.65	13.379		
8,100.0	8,074.1	8,073.7	8,070.0	9.1	25.0	-98.55	-65.1	11.5	437.9	404.8	33.05	13.248		
8,200.0	8,174.1	8,173.4	8,169.7	9.2	25.3	-98.62	-65.8	10.5	439.0	405.5	33.45	13.121		
8,300.0	8,274.1	8,273.0	8,269.3	9.3	25.6	-98.68	-66.4	9.5	440.1	406.3	33.86	12.999		
8,400.0	8,374.1	8,372.4	8,368.7	9.4	26.0	-98.76	-67.2	8.3	441.4	407.1	34.26	12.883		
8,500.0	8,474.1	8,472.3	8,468.6	9.5	26.3	-98.84	-68.1	7.1	442.7	408.1	34.67	12.771		
8,600.0	8,574.1	8,572.3	8,568.5	9.6	26.7	-98.93	-69.0	5.8	444.1	409.0	35.08	12.662		
8,700.0	8,674.1	8,673.0	8,669.2	9.7	27.0	-99.01	-69.8	4.7	445.3	409.9	35.49	12.550		
8,800.0	8,774.1	8,766.8	8,763.0	9.8	27.3	-99.07	-70.5	3.0	447.3	411.4	35.88	12.466		
8,900.0	8,874.1	8,866.4	8,862.6	9.9	27.7	-99.21	-72.0	0.5	450.0	413.7	36.29	12.400		
9,000.0	8,974.1	8,969.2	8,965.4	10.1	28.0	-99.18	-72.2	-1.8	452.2	415.5	36.69	12.325		
9,100.0	9,074.1	9,066.8	9,062.9	10.2	28.4	-98.83	-69.7	-4.5	454.5	417.4	37.07	12.260		
9,200.0	9,174.1	9,163.1	9,159.0	10.3	28.7	-98.44	-67.1	-7.8	457.5	420.1	37.44	12.219		
9,300.0	9,274.1	9,263.5	9,259.4	10.4	29.0	-98.14	-65.2	-11.7	461.1	423.3	37.83	12.189		
9,400.0	9,374.1	9,375.7	9,371.6	10.5	29.4	-97.85	-63.3	-14.6	463.5	425.2	38.24	12.119		
9,500.0	9,474.1	9,497.8	9,493.5	10.6	29.9	-97.37	-59.2	-13.1	461.8	423.0	38.76	11.913		
9,600.0	9,574.1	9,600.3	9,595.9	10.7	30.3	-96.80	-54.1	-9.0	457.2	418.0	39.20	11.663		
9,700.0	9,674.1	9,697.0	9,692.4	10.8	30.7	-96.25	-49.3	-5.5	453.0	413.5	39.57	11.448		
9,800.0	9,774.1	9,795.8	9,791.0	10.9	31.0	-95.76	-45.0	-2.3	449.3	409.4	39.95	11.248		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS, 11259-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.0	9,874.1	9,892.8	9,887.9	11.0	31.4	-95.34	-41.5	0.6	446.0	405.7	40.32	11.061		
10,000.0	9,974.1	9,990.2	9,985.2	11.1	31.7	-94.96	-38.3	2.9	443.4	402.7	40.70	10.894		
10,100.0	10,074.1	10,093.6	10,088.6	11.3	32.1	-94.88	-37.5	5.7	440.7	399.6	41.10	10.721		
10,200.0	10,174.1	10,193.0	10,187.8	11.4	32.4	-95.42	-41.3	9.5	437.2	395.6	41.54	10.524		
10,300.0	10,274.1	10,284.7	10,279.4	11.5	32.7	-96.03	-45.7	11.6	435.3	393.4	41.98	10.371		
10,400.0	10,374.1	10,383.3	10,377.9	11.6	33.1	-96.66	-50.4	13.0	434.4	392.0	42.41	10.242		
10,500.0	10,474.1	10,481.6	10,476.1	11.7	33.4	-97.22	-54.5	14.1	433.9	391.0	42.85	10.125		
10,578.6	10,552.7	10,558.8	10,553.2	11.8	33.7	-97.61	-57.5	14.6	433.7	390.5	43.19	10.042		
10,600.0	10,574.1	10,579.7	10,574.1	11.8	33.8	-97.71	-58.2	14.7	433.7	390.4	43.28	10.021		
10,700.0	10,674.1	10,678.0	10,672.3	11.9	34.1	-98.13	-61.4	14.8	434.1	390.4	43.71	9.931		
10,800.0	10,774.1	10,777.4	10,771.7	12.0	34.4	-98.50	-64.2	14.6	434.7	390.6	44.14	9.848		
10,900.0	10,874.1	10,878.4	10,872.7	12.2	34.8	-98.78	-66.4	14.3	435.4	390.8	44.57	9.768		
11,000.0	10,974.1	10,980.8	10,975.1	12.3	35.1	-98.96	-67.8	14.3	435.5	390.5	44.99	9.680		
11,100.0	11,074.1	11,081.9	11,076.1	12.4	35.5	-99.02	-68.2	14.6	435.2	389.8	45.40	9.587		
11,200.0	11,174.1	11,180.9	11,175.2	12.5	35.8	-99.06	-68.5	15.0	435.0	389.2	45.80	9.496		
11,300.0	11,274.1	11,295.7	11,289.5	12.6	36.0	-100.08	-75.9	18.0	433.4	387.3	46.09	9.404		
11,400.0	11,374.1	11,388.1	11,379.2	12.7	36.2	-103.00	-96.9	25.0	430.6	384.2	46.39	9.283		
11,421.7	11,395.8	11,405.7	11,395.8	12.8	36.2	-103.76	-102.4	26.4	430.5	384.0	46.47	9.264		
11,452.4	11,426.5	11,428.7	11,417.4	12.8	36.2	-104.81	-110.1	28.1	430.9	384.3	46.60	9.246 SF		
11,475.0	11,449.1	11,448.0	11,435.4	12.8	36.2	-105.33	-116.9	29.3	431.7	385.0	46.66	9.252		
11,500.0	11,474.0	11,465.2	11,451.4	12.8	36.3	-106.15	-123.3	30.4	433.3	386.6	46.76	9.266		
11,525.0	11,498.8	11,484.1	11,468.6	12.9	36.3	-107.15	-130.9	31.7	435.8	388.9	46.90	9.291		
11,550.0	11,523.4	11,501.2	11,484.0	12.9	36.3	-108.07	-138.4	33.0	439.2	392.1	47.07	9.331		
11,575.0	11,547.8	11,516.5	11,497.4	12.9	36.3	-108.85	-145.4	34.1	443.7	396.4	47.25	9.389		
11,600.0	11,571.8	11,530.2	11,509.4	13.0	36.4	-109.45	-152.1	35.2	449.3	401.8	47.46	9.466		
11,625.0	11,595.4	11,543.0	11,520.3	13.0	36.4	-109.90	-158.6	36.3	456.2	408.5	47.69	9.565		
11,650.0	11,618.5	11,543.0	11,520.3	13.0	36.4	-108.90	-158.6	36.3	464.5	416.5	47.96	9.686		
11,675.0	11,641.1	11,558.4	11,533.4	13.1	36.4	-109.38	-166.8	37.4	473.9	425.7	48.21	9.830		
11,700.0	11,663.2	11,564.9	11,538.8	13.1	36.4	-108.75	-170.4	37.9	484.8	436.3	48.48	10.000		
11,725.0	11,684.5	11,570.6	11,543.4	13.1	36.4	-107.83	-173.5	38.2	496.9	448.1	48.74	10.194		
11,750.0	11,705.2	11,582.0	11,552.8	13.2	36.4	-107.44	-180.1	38.8	510.2	461.2	48.99	10.416		
11,775.0	11,725.1	11,582.0	11,552.8	13.2	36.4	-105.43	-180.1	38.8	524.5	475.3	49.24	10.652		
11,800.0	11,744.2	11,582.0	11,552.8	13.2	36.4	-103.17	-180.1	38.8	539.9	490.4	49.48	10.910		
11,825.0	11,762.4	11,582.0	11,552.8	13.3	36.4	-100.65	-180.1	38.8	556.2	506.4	49.71	11.188		
11,850.0	11,779.7	11,582.0	11,552.8	13.3	36.4	-97.88	-180.1	38.8	573.2	523.3	49.92	11.484		
11,875.0	11,796.1	11,582.0	11,552.8	13.4	36.4	-94.87	-180.1	38.8	591.0	540.9	50.11	11.795		
11,900.0	11,811.4	11,582.0	11,552.8	13.4	36.4	-91.63	-180.1	38.8	609.3	559.1	50.28	12.120		
11,925.0	11,825.6	11,582.0	11,552.8	13.4	36.4	-88.19	-180.1	38.8	628.2	577.7	50.43	12.455		
11,950.0	11,838.8	11,582.0	11,552.8	13.5	36.4	-84.59	-180.1	38.8	647.4	596.8	50.58	12.801		
11,975.0	11,850.8	11,582.0	11,552.8	13.5	36.4	-80.87	-180.1	38.8	666.9	616.2	50.70	13.154		
12,000.0	11,861.7	11,582.0	11,552.8	13.5	36.4	-77.07	-180.1	38.8	686.7	635.9	50.82	13.513		
12,025.0	11,871.4	11,582.0	11,552.8	13.6	36.4	-73.25	-180.1	38.8	706.6	655.7	50.92	13.877		
12,050.0	11,879.9	11,582.0	11,552.8	13.6	36.4	-69.45	-180.1	38.8	726.6	675.6	51.01	14.244		
12,075.0	11,887.1	11,582.0	11,552.8	13.6	36.4	-65.73	-180.1	38.8	746.7	695.6	51.09	14.614		
12,100.0	11,893.0	11,582.0	11,552.8	13.6	36.4	-62.13	-180.1	38.8	766.7	715.5	51.16	14.986		
12,125.0	11,897.7	11,567.9	11,541.3	13.7	36.4	-57.43	-172.1	38.0	786.3	735.1	51.23	15.348		
12,150.0	11,901.1	11,563.7	11,537.8	13.7	36.4	-53.95	-169.7	37.8	805.9	754.6	51.29	15.714		
12,175.0	11,903.2	11,559.2	11,534.0	13.7	36.4	-50.71	-167.3	37.5	825.3	774.0	51.33	16.077		
12,202.4	11,904.0	11,543.0	11,520.3	13.7	36.4	-46.81	-158.6	36.3	846.4	795.0	51.39	16.471		
12,300.0	11,904.0	11,543.0	11,520.3	13.8	36.4	-46.81	-158.6	36.3	921.7	870.2	51.50	17.896		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.5	0.5	3.0	3.0	166.47	-139.7	33.6	143.7					
100.0	100.0	99.6	99.6	3.0	3.0	166.36	-140.1	34.0	144.2	138.1	6.02	23.956		
200.0	200.0	199.4	199.4	3.0	3.1	166.21	-140.6	34.5	144.8	138.7	6.13	23.618		
300.0	300.0	299.2	299.2	3.0	3.3	166.11	-141.4	35.0	145.7	139.4	6.30	23.130		
400.0	400.0	399.6	399.6	3.0	3.5	166.04	-142.1	35.3	146.5	140.0	6.49	22.552		
500.0	500.0	499.7	499.6	3.1	3.7	165.96	-142.6	35.7	147.0	140.3	6.73	21.856		
600.0	600.0	599.3	599.3	3.1	4.0	165.87	-143.2	36.1	147.7	140.7	6.98	21.155		
700.0	700.0	699.1	699.1	3.1	4.2	165.76	-144.0	36.5	148.6	141.3	7.26	20.476		
800.0	800.0	799.2	799.1	3.2	4.5	165.61	-144.8	37.2	149.5	142.0	7.56	19.787		
900.0	900.0	899.7	899.7	3.2	4.8	165.31	-145.4	38.1	150.3	142.4	7.88	19.077		
1,000.0	1,000.0	1,001.3	1,001.3	3.2	5.0	164.82	-145.1	39.4	150.4	142.2	8.19	18.363		
1,100.0	1,100.0	1,105.5	1,105.4	3.3	5.3	164.31	-142.7	40.1	148.3	139.8	8.48	17.484		
1,200.0	1,200.0	1,206.2	1,206.0	3.4	5.6	163.85	-138.9	40.2	144.7	136.0	8.71	16.614		
1,300.0	1,300.0	1,306.7	1,306.5	3.4	5.8	163.33	-134.7	40.3	140.7	131.8	8.93	15.757		
1,400.0	1,400.0	1,406.8	1,406.5	3.5	6.0	162.66	-130.0	40.6	136.3	127.2	9.05	15.059		
1,500.0	1,500.0	1,501.8	1,501.4	3.5	6.1	162.41	-127.5	40.4	133.7	124.4	9.35	14.305		
1,516.2	1,516.2	1,517.1	1,516.7	3.6	6.1	162.46	-127.5	40.3	133.7	124.3	9.44	14.164 CC, ES		
1,600.0	1,600.0	1,596.5	1,596.1	3.6	6.7	162.96	-129.2	39.6	135.2	125.4	9.74	13.878		
1,700.0	1,700.0	1,696.8	1,696.4	3.7	7.4	163.70	-132.7	38.8	138.3	128.4	9.91	13.962		
1,800.0	1,800.0	1,798.0	1,797.5	3.8	7.5	164.22	-135.5	38.3	140.9	130.8	10.09	13.960		
1,900.0	1,900.0	1,898.6	1,898.0	3.9	7.7	164.68	-137.7	37.7	142.8	132.5	10.29	13.873		
2,000.0	2,000.0	1,998.9	1,998.3	3.9	7.8	165.01	-139.5	37.3	144.4	133.9	10.52	13.731		
2,100.0	2,100.0	2,099.1	2,098.6	4.0	8.0	75.97	-141.1	36.9	145.4	134.7	10.72	13.562		
2,200.0	2,199.8	2,199.5	2,198.9	4.0	8.2	78.19	-142.3	36.7	145.4	134.5	10.91	13.320		
2,300.0	2,299.5	2,299.2	2,298.7	4.1	8.3	81.70	-143.3	36.6	144.8	133.6	11.14	12.998		
2,350.0	2,349.1	2,348.9	2,348.3	4.1	8.4	83.99	-143.7	36.4	144.5	133.3	11.26	12.832		
2,378.6	2,377.5	2,377.2	2,376.6	4.1	8.5	85.41	-144.0	36.3	144.5	133.1	11.34	12.741		
2,400.0	2,398.8	2,398.4	2,397.8	4.1	8.5	86.48	-144.2	36.2	144.5	133.1	11.40	12.679		
2,500.0	2,498.0	2,497.7	2,497.1	4.1	8.7	91.57	-145.3	35.4	145.3	133.7	11.69	12.433		
2,600.0	2,597.3	2,597.1	2,596.5	4.2	9.0	96.55	-146.1	34.8	147.1	135.1	12.01	12.249		
2,700.0	2,696.5	2,696.8	2,696.1	4.2	9.2	101.50	-146.8	33.8	149.8	137.5	12.36	12.126		
2,800.0	2,795.8	2,795.9	2,795.3	4.3	9.4	106.17	-147.2	33.1	153.3	140.6	12.72	12.058		
2,900.0	2,895.0	2,895.3	2,894.7	4.3	9.7	110.44	-147.7	32.8	157.8	144.7	13.10	12.049		
3,000.0	2,994.3	2,994.3	2,993.6	4.4	9.9	114.41	-148.3	32.6	163.1	149.6	13.49	12.086		
3,100.0	3,093.5	3,094.5	3,093.9	4.5	10.2	118.11	-148.8	32.7	169.0	155.1	13.90	12.155		
3,200.0	3,192.8	3,194.4	3,193.8	4.5	10.4	121.51	-148.9	33.0	175.0	160.7	14.29	12.247		
3,300.0	3,292.0	3,294.2	3,293.5	4.6	10.6	124.68	-148.7	33.6	181.2	166.6	14.66	12.365		
3,400.0	3,391.3	3,393.0	3,392.4	4.7	10.9	127.60	-148.6	34.1	188.0	173.0	15.03	12.513		
3,500.0	3,490.6	3,492.0	3,491.4	4.7	11.1	130.30	-148.7	34.5	195.5	180.1	15.40	12.692		
3,600.0	3,589.8	3,591.4	3,590.7	4.8	11.4	132.79	-148.8	34.9	203.5	187.7	15.78	12.890		
3,700.0	3,689.1	3,691.0	3,690.4	4.9	11.6	135.10	-148.9	35.4	211.7	195.5	16.16	13.096		
3,800.0	3,788.3	3,790.7	3,790.1	5.0	11.9	137.13	-149.2	36.4	220.0	203.5	16.54	13.298		
3,900.0	3,887.6	3,889.9	3,889.2	5.1	12.2	138.93	-149.6	37.4	228.6	211.6	16.93	13.503		
4,000.0	3,986.8	3,989.0	3,988.4	5.1	12.5	140.54	-150.3	38.6	237.4	220.1	17.31	13.714		
4,100.0	4,086.1	4,088.3	4,087.6	5.2	12.7	141.91	-151.4	40.1	246.5	228.8	17.70	13.926		
4,200.0	4,185.3	4,186.8	4,186.1	5.3	13.0	143.44	-151.7	40.7	255.9	237.8	18.12	14.127		
4,300.0	4,284.6	4,285.0	4,284.3	5.4	13.3	145.24	-150.8	39.9	266.0	247.4	18.56	14.327		
4,400.0	4,383.8	4,384.2	4,383.5	5.5	13.6	146.86	-150.3	39.2	276.4	257.5	18.98	14.566		
4,500.0	4,483.1	4,483.2	4,482.6	5.6	13.9	148.26	-150.1	38.7	287.0	267.7	19.36	14.826		
4,600.0	4,582.4	4,583.1	4,582.4	5.7	14.2	149.55	-150.1	38.3	297.8	278.1	19.75	15.080		
4,700.0	4,681.6	4,682.2	4,681.5	5.8	14.5	150.78	-149.7	38.0	308.5	288.4	20.14	15.319		
4,800.0	4,780.9	4,780.7	4,780.0	5.9	14.8	151.92	-149.5	37.5	319.5	299.0	20.53	15.565		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
+N/-S (usft)	+E/-W (usft)													
4,900.0	4,880.1	4,879.9	4,879.2	6.0	15.1	152.98	-149.3	37.0	330.8	309.9	20.92	15.809		
5,000.0	4,979.4	4,979.7	4,979.0	6.1	15.4	153.94	-149.3	36.6	342.0	320.7	21.33	16.037		
5,100.0	5,078.6	5,078.1	5,077.4	6.2	15.7	154.79	-149.5	36.3	353.4	331.7	21.75	16.252		
5,200.0	5,177.9	5,178.8	5,178.1	6.3	16.0	155.60	-149.7	36.1	364.7	342.6	22.17	16.451		
5,300.0	5,277.1	5,277.4	5,276.7	6.4	16.3	156.35	-149.9	36.0	376.1	353.5	22.59	16.645		
5,400.0	5,376.4	5,377.2	5,376.5	6.5	16.7	157.07	-150.0	35.8	387.4	364.4	23.02	16.830		
5,471.7	5,447.6	5,447.9	5,447.2	6.6	16.9	157.56	-150.0	35.7	395.6	372.3	23.32	16.962		
5,500.0	5,475.7	5,476.0	5,475.3	6.6	17.0	157.75	-150.1	35.7	398.8	375.4	23.44	17.011		
5,600.0	5,575.1	5,575.7	5,575.0	6.7	17.3	158.37	-150.1	35.5	409.0	385.2	23.87	17.135		
5,700.0	5,674.7	5,675.1	5,674.4	6.9	17.6	158.86	-150.2	35.4	417.6	393.3	24.30	17.189		
5,800.0	5,774.4	5,775.0	5,774.3	7.0	17.9	159.25	-150.2	35.2	424.7	400.0	24.72	17.178		
5,900.0	5,874.2	5,876.1	5,875.4	7.1	18.3	159.57	-149.9	35.1	430.0	404.8	25.15	17.099		
6,000.0	5,974.1	5,979.5	5,978.8	7.2	18.6	159.88	-148.9	35.2	433.1	407.5	25.58	16.931		
6,100.0	6,074.1	6,086.0	6,085.2	7.3	18.9	160.28	-146.3	36.1	433.5	407.5	26.03	16.651		
6,171.7	6,145.8	6,163.6	6,162.8	7.3	19.2	-109.35	-142.9	37.5	431.7	405.3	26.36	16.380		
6,200.0	6,174.1	6,194.3	6,193.4	7.3	19.3	-109.17	-141.2	38.2	430.5	404.1	26.48	16.260		
6,300.0	6,274.1	6,299.7	6,298.5	7.4	19.7	-108.45	-134.5	41.5	425.5	398.6	26.89	15.824		
6,400.0	6,374.1	6,408.4	6,406.8	7.5	20.0	-107.61	-126.3	46.4	418.9	391.6	27.29	15.349		
6,500.0	6,474.1	6,522.6	6,520.2	7.6	20.5	-106.55	-115.8	54.6	409.3	381.5	27.74	14.753		
6,600.0	6,574.1	6,625.8	6,622.6	7.7	20.9	-105.80	-107.4	64.8	397.5	369.3	28.16	14.116		
6,700.0	6,674.1	6,723.8	6,719.8	7.8	21.2	-105.19	-100.3	75.0	385.5	357.0	28.54	13.508		
6,800.0	6,774.1	6,820.5	6,815.8	7.9	21.5	-104.78	-94.9	84.9	374.1	345.2	28.92	12.938		
6,900.0	6,874.1	6,917.4	6,912.2	8.0	21.8	-104.56	-90.9	94.6	363.5	334.2	29.30	12.405		
7,000.0	6,974.1	7,014.9	7,009.2	8.0	22.1	-104.41	-87.5	103.8	353.4	323.8	29.68	11.907		
7,100.0	7,074.1	7,112.4	7,106.2	8.1	22.5	-104.28	-84.5	112.6	343.9	313.9	30.07	11.438		
7,200.0	7,174.1	7,210.6	7,204.0	8.2	22.8	-104.06	-81.1	120.7	335.0	304.6	30.45	11.002		
7,300.0	7,274.1	7,310.1	7,303.2	8.3	23.1	-103.79	-77.5	128.8	326.3	295.5	30.84	10.581		
7,400.0	7,374.1	7,409.8	7,402.4	8.4	23.4	-103.57	-74.2	137.0	317.5	286.3	31.22	10.170		
7,500.0	7,474.1	7,509.7	7,502.0	8.5	23.8	-103.38	-71.1	145.3	308.8	277.2	31.61	9.768		
7,600.0	7,574.1	7,610.8	7,602.6	8.6	24.1	-103.09	-67.6	153.9	299.7	267.7	32.00	9.367		
7,700.0	7,674.1	7,711.0	7,702.3	8.7	24.4	-102.66	-63.3	162.6	290.2	257.8	32.38	8.963		
7,800.0	7,774.1	7,810.4	7,801.3	8.8	24.8	-102.22	-59.2	171.4	280.7	247.9	32.76	8.568		
7,900.0	7,874.1	7,908.5	7,899.0	8.9	25.1	-101.81	-55.3	179.9	271.4	238.3	33.14	8.190		
8,000.0	7,974.1	8,007.0	7,997.1	9.0	25.4	-101.43	-51.9	187.8	262.9	229.3	33.53	7.841		
8,100.0	8,074.1	8,104.6	8,094.3	9.1	25.8	-101.02	-48.6	195.0	254.9	221.0	33.91	7.518		
8,200.0	8,174.1	8,201.8	8,191.2	9.2	26.1	-100.63	-45.6	201.6	247.7	213.4	34.29	7.224		
8,300.0	8,274.1	8,299.5	8,288.8	9.3	26.4	-100.28	-43.0	207.4	241.4	206.7	34.67	6.963		
8,400.0	8,374.1	8,397.6	8,386.7	9.4	26.8	-99.95	-40.7	212.4	235.9	200.9	35.05	6.731		
8,500.0	8,474.1	8,496.1	8,485.1	9.5	27.1	-99.62	-38.6	216.9	231.1	195.6	35.44	6.521		
8,600.0	8,574.1	8,593.8	8,582.7	9.6	27.4	-99.32	-36.7	220.6	227.1	191.2	35.82	6.339		
8,700.0	8,674.1	8,692.5	8,681.3	9.7	27.8	-99.04	-35.2	223.6	223.8	187.6	36.20	6.181		
8,800.0	8,774.1	8,791.4	8,780.2	9.8	28.1	-98.60	-33.0	226.0	221.0	184.4	36.58	6.041		
8,900.0	8,874.1	8,890.8	8,879.5	9.9	28.4	-98.39	-31.9	228.1	218.8	181.8	36.97	5.917		
9,000.0	8,974.1	8,990.9	8,979.6	10.1	28.8	-98.14	-30.6	230.4	216.3	179.0	37.36	5.791		
9,100.0	9,074.1	9,088.2	9,076.9	10.2	29.1	-97.90	-29.5	232.0	214.5	176.8	37.75	5.684		
9,175.8	9,149.9	9,161.8	9,150.4	10.2	29.4	-97.78	-29.0	232.3	214.2	176.2	38.04	5.631		
9,200.0	9,174.1	9,185.6	9,174.2	10.3	29.4	-97.76	-28.9	232.2	214.2	176.1	38.13	5.618		
9,300.0	9,274.1	9,287.1	9,275.8	10.4	29.8	-97.76	-28.9	232.1	214.4	175.8	38.52	5.565		
9,400.0	9,374.1	9,390.9	9,379.6	10.5	30.1	-97.80	-28.9	233.6	212.9	174.0	38.92	5.470		
9,500.0	9,474.1	9,491.0	9,479.7	10.6	30.5	-97.60	-27.8	236.1	210.3	171.0	39.32	5.350		
9,600.0	9,574.1	9,591.2	9,579.8	10.7	30.8	-96.89	-24.9	238.1	208.0	168.3	39.69	5.240		
9,700.0	9,674.1	9,691.6	9,680.1	10.8	31.2	-95.98	-21.4	240.3	205.4	165.4	40.05	5.130		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,800.0	9,774.1	9,790.8	9,779.2	10.9	31.5	-95.39	-19.1	242.5	202.9	162.5	40.42	5.021		
9,900.0	9,874.1	9,890.0	9,878.4	11.0	31.8	-94.89	-17.1	244.4	200.9	160.1	40.79	4.926		
10,000.0	9,974.1	9,992.6	9,980.9	11.1	32.2	-94.59	-15.9	246.9	198.4	157.2	41.18	4.817		
10,100.0	10,074.1	10,092.9	10,081.2	11.3	32.5	-94.63	-15.7	250.4	194.9	153.3	41.59	4.686		
10,200.0	10,174.1	10,189.6	10,177.9	11.4	32.9	-94.68	-15.7	252.8	192.4	150.4	41.99	4.582		
10,300.0	10,274.1	10,288.1	10,276.4	11.5	33.2	-94.77	-15.9	254.0	191.2	148.8	42.39	4.510		
10,400.0	10,374.1	10,388.1	10,376.4	11.6	33.6	-94.84	-16.0	255.0	190.2	147.4	42.80	4.445		
10,500.0	10,474.1	10,487.2	10,475.4	11.7	33.9	-94.87	-16.1	255.7	189.5	146.3	43.20	4.388		
10,600.0	10,574.1	10,586.5	10,574.7	11.8	34.2	-94.95	-16.3	255.9	189.3	145.8	43.60	4.343		
10,665.4	10,639.5	10,651.8	10,640.0	11.9	34.5	-95.04	-16.6	255.9	189.3	145.5	43.86	4.317		
10,700.0	10,674.1	10,686.3	10,674.5	11.9	34.6	-95.10	-16.8	255.9	189.3	145.3	44.00	4.303		
10,800.0	10,774.1	10,785.9	10,774.1	12.0	34.9	-95.29	-17.5	255.8	189.5	145.1	44.41	4.266		
10,900.0	10,874.1	10,885.9	10,874.1	12.2	35.2	-95.47	-18.1	255.6	189.8	145.0	44.82	4.234		
11,000.0	10,974.1	10,985.9	10,974.2	12.3	35.6	-95.69	-18.8	255.4	190.0	144.8	45.24	4.200		
11,100.0	11,074.1	11,085.8	11,074.0	12.4	35.9	-95.84	-19.4	255.2	190.3	144.6	45.65	4.168		
11,200.0	11,174.1	11,184.6	11,172.8	12.5	36.3	-96.64	-22.1	255.0	190.8	144.7	46.11	4.139		
11,300.0	11,274.1	11,282.6	11,270.2	12.6	36.6	-99.79	-32.7	254.8	192.5	145.8	46.72	4.120 SF		
11,400.0	11,374.1	11,377.0	11,362.1	12.7	36.9	-105.95	-53.8	256.1	196.3	148.8	47.58	4.127		
11,452.4	11,426.5	11,422.7	11,405.0	12.8	37.0	-110.36	-69.4	257.4	200.8	152.6	48.15	4.170		
11,475.0	11,449.1	11,441.1	11,421.9	12.8	37.1	-111.79	-76.8	258.0	203.8	155.5	48.30	4.219		
11,500.0	11,474.0	11,460.8	11,439.7	12.8	37.2	-113.90	-85.2	258.8	208.3	159.7	48.61	4.284		
11,525.0	11,498.8	11,479.4	11,456.2	12.9	37.2	-115.96	-93.7	259.6	214.2	165.3	48.96	4.376		
11,550.0	11,523.4	11,494.0	11,469.0	12.9	37.3	-117.43	-100.6	260.2	221.7	172.4	49.32	4.496		
11,575.0	11,547.8	11,512.6	11,485.1	12.9	37.3	-119.52	-109.8	261.1	230.9	181.2	49.67	4.649		
11,600.0	11,571.8	11,527.1	11,497.5	13.0	37.4	-120.84	-117.3	261.9	241.8	191.8	50.01	4.835		
11,625.0	11,595.4	11,541.0	11,509.3	13.0	37.4	-121.94	-124.7	262.7	254.4	204.0	50.33	5.054		
11,650.0	11,618.5	11,552.3	11,518.7	13.0	37.4	-122.38	-130.9	263.4	268.5	217.9	50.62	5.305		
11,675.0	11,641.1	11,563.1	11,527.6	13.1	37.5	-122.52	-136.9	264.1	284.2	233.3	50.88	5.585		
11,700.0	11,663.2	11,572.5	11,535.3	13.1	37.5	-122.13	-142.3	264.7	301.2	250.1	51.12	5.892		
11,725.0	11,684.5	11,580.5	11,541.8	13.1	37.5	-121.17	-146.9	265.3	319.4	268.1	51.33	6.223		
11,750.0	11,705.2	11,588.0	11,547.9	13.2	37.5	-119.76	-151.3	265.9	338.7	287.2	51.51	6.576		
11,775.0	11,725.1	11,588.0	11,547.9	13.2	37.5	-116.07	-151.3	265.9	359.0	307.4	51.67	6.949		
11,800.0	11,744.2	11,597.5	11,555.5	13.2	37.6	-114.29	-156.9	266.6	380.0	328.2	51.83	7.332		
11,825.0	11,762.4	11,600.8	11,558.2	13.3	37.6	-110.35	-158.9	266.9	401.8	349.8	51.97	7.731		
11,850.0	11,779.7	11,603.1	11,560.0	13.3	37.6	-105.43	-160.3	267.1	424.0	371.9	52.08	8.141		
11,875.0	11,796.1	11,604.3	11,560.9	13.4	37.6	-99.47	-161.0	267.2	446.7	394.5	52.19	8.560		
11,900.0	11,811.4	11,604.5	11,561.1	13.4	37.6	-92.53	-161.1	267.2	469.7	417.4	52.27	8.986		
11,925.0	11,825.6	11,603.8	11,560.5	13.4	37.6	-84.79	-160.7	267.1	492.9	440.6	52.35	9.416		
11,950.0	11,838.8	11,602.1	11,559.2	13.5	37.6	-76.60	-159.7	267.0	516.3	463.8	52.42	9.849		
11,975.0	11,850.8	11,588.0	11,547.9	13.5	37.5	-65.38	-151.3	265.9	539.8	487.4	52.42	10.298		
12,000.0	11,861.7	11,588.0	11,547.9	13.5	37.5	-58.72	-151.3	265.9	563.1	510.6	52.48	10.729		
12,025.0	11,871.4	11,588.0	11,547.9	13.6	37.5	-52.67	-151.3	265.9	586.2	533.7	52.53	11.158		
12,050.0	11,879.9	11,588.0	11,547.9	13.6	37.5	-47.30	-151.3	265.9	609.2	556.6	52.58	11.586		
12,075.0	11,887.1	11,588.0	11,547.9	13.6	37.5	-42.59	-151.3	265.9	632.0	579.4	52.62	12.010		
12,100.0	11,893.0	11,577.3	11,539.2	13.6	37.5	-37.44	-145.1	265.1	654.4	601.8	52.63	12.433		
12,125.0	11,897.7	11,571.3	11,534.3	13.7	37.5	-33.62	-141.6	264.6	676.5	623.8	52.65	12.848		
12,150.0	11,901.1	11,564.8	11,529.0	13.7	37.5	-30.40	-137.9	264.2	698.2	645.5	52.66	13.257		
12,175.0	11,903.2	11,557.8	11,523.3	13.7	37.4	-27.67	-134.0	263.7	719.4	666.7	52.67	13.659		
12,202.4	11,904.0	11,541.0	11,509.3	13.7	37.4	-24.80	-124.7	262.7	742.2	689.5	52.66	14.094		
12,300.0	11,904.0	11,523.2	11,494.2	13.8	37.3	-24.10	-115.3	261.7	822.8	770.1	52.68	15.618		
12,400.0	11,904.0	11,494.0	11,469.0	13.9	37.3	-23.01	-100.6	260.2	907.6	854.9	52.67	17.232		
12,500.0	11,904.0	11,478.9	11,455.8	14.0	37.2	-22.47	-93.4	259.5	994.0	941.4	52.65	18.879		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1													Offset Site Error:
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	84.62	66.7	708.7	712.0				
100.0	100.0	88.2	88.2	3.0	3.0	84.62	66.7	708.7	711.9	705.9	6.00	118.601	
200.0	200.0	188.2	188.2	3.0	3.0	84.62	66.7	708.7	711.9	705.8	6.03	117.970	
300.0	300.0	288.2	288.2	3.0	3.1	84.62	66.7	708.7	711.9	705.8	6.11	116.503	
400.0	400.0	388.2	388.2	3.0	3.2	84.62	66.7	708.7	711.9	705.6	6.23	114.329	
500.0	500.0	488.2	488.2	3.1	3.4	84.62	66.7	708.7	711.9	705.5	6.38	111.596	
600.0	600.0	588.2	588.2	3.1	3.5	84.62	66.7	708.7	711.9	705.3	6.56	108.458	
700.0	700.0	688.2	688.2	3.1	3.7	84.62	66.7	708.7	711.9	705.1	6.78	105.061	
800.0	800.0	788.2	788.2	3.2	4.0	84.62	66.7	708.7	711.9	704.9	7.01	101.525	
900.0	900.0	888.2	888.2	3.2	4.2	84.62	66.7	708.7	711.9	704.6	7.27	97.947	
1,000.0	1,000.0	988.2	988.2	3.2	4.5	84.62	66.7	708.7	711.9	704.3	7.54	94.399	
1,100.0	1,100.0	1,088.2	1,088.2	3.3	4.7	84.62	66.7	708.7	711.9	704.0	7.83	90.929	
1,200.0	1,200.0	1,188.2	1,188.2	3.4	5.0	84.62	66.7	708.7	711.9	703.7	8.13	87.571	
1,300.0	1,300.0	1,288.2	1,288.2	3.4	5.3	84.62	66.7	708.7	711.9	703.4	8.44	84.346	
1,400.0	1,400.0	1,388.2	1,388.2	3.5	5.6	84.62	66.7	708.7	711.9	703.1	8.76	81.265	
1,500.0	1,500.0	1,488.2	1,488.2	3.5	5.9	84.62	66.7	708.7	711.9	702.8	9.09	78.332	
1,600.0	1,600.0	1,588.2	1,588.2	3.6	6.2	84.62	66.7	708.7	711.9	702.4	9.42	75.547	
1,700.0	1,700.0	1,688.2	1,688.2	3.7	6.5	84.62	66.7	708.7	711.9	702.1	9.76	72.908	
1,800.0	1,800.0	1,788.2	1,788.2	3.8	6.9	84.62	66.7	708.7	711.9	701.8	10.11	70.408	
1,900.0	1,900.0	1,888.2	1,888.2	3.9	7.2	84.62	66.7	708.7	711.9	701.4	10.46	68.043	
2,000.0	2,000.0	1,988.2	1,988.2	3.9	7.5	84.62	66.7	708.7	711.9	701.1	10.82	65.804	
2,100.0	2,100.0	2,088.2	2,088.2	4.0	7.9	-5.39	66.7	708.7	710.1	699.0	11.18	63.510	
2,200.0	2,199.8	2,188.0	2,188.0	4.0	8.2	-5.44	66.7	708.7	704.9	693.4	11.55	61.011	
2,300.0	2,299.5	2,287.7	2,287.7	4.1	8.5	-5.53	66.7	708.7	696.2	684.3	11.93	58.351	
2,350.0	2,349.1	2,337.3	2,337.3	4.1	8.7	-5.58	66.7	708.7	690.6	678.5	12.12	56.967	
2,400.0	2,398.8	2,387.0	2,387.0	4.1	8.9	-5.63	66.7	708.7	684.6	672.2	12.32	55.586	
2,500.0	2,498.0	2,486.2	2,486.2	4.1	9.2	-5.74	66.7	708.7	672.4	659.7	12.70	52.931	
2,600.0	2,597.3	2,610.1	2,610.1	4.2	9.6	-5.91	67.0	706.6	658.7	645.5	13.17	50.021	
2,700.0	2,696.5	2,736.2	2,736.0	4.2	10.0	-6.22	68.0	699.1	640.8	627.1	13.62	47.040	
2,800.0	2,795.8	2,860.1	2,859.2	4.3	10.4	-6.67	69.8	686.3	618.7	604.6	14.06	44.005	
2,900.0	2,895.0	2,974.6	2,972.5	4.3	10.8	-7.24	72.0	670.0	592.8	578.3	14.48	40.946	
3,000.0	2,994.3	3,070.8	3,067.4	4.4	11.1	-7.80	74.0	655.2	565.9	551.1	14.88	38.038	
3,100.0	3,093.5	3,166.9	3,162.4	4.5	11.5	-8.42	76.0	640.4	539.1	523.8	15.29	35.270	
3,200.0	3,192.8	3,263.1	3,257.4	4.5	11.8	-9.09	78.0	625.5	512.4	496.7	15.70	32.636	
3,300.0	3,292.0	3,359.3	3,352.4	4.6	12.1	-9.85	80.1	610.7	485.7	469.6	16.12	30.131	
3,400.0	3,391.3	3,455.4	3,447.4	4.7	12.5	-10.69	82.1	595.9	459.1	442.6	16.55	27.748	
3,500.0	3,490.6	3,551.6	3,542.4	4.7	12.8	-11.63	84.1	581.1	432.6	415.6	16.98	25.481	
3,600.0	3,589.8	3,647.8	3,637.4	4.8	13.1	-12.69	86.1	566.2	406.3	388.8	17.42	23.326	
3,700.0	3,689.1	3,743.9	3,732.4	4.9	13.5	-13.90	88.2	551.4	380.0	362.2	17.86	21.277	
3,800.0	3,788.3	3,840.1	3,827.4	5.0	13.8	-15.29	90.2	536.6	354.0	335.7	18.31	19.331	
3,900.0	3,887.6	3,936.3	3,922.4	5.1	14.1	-16.90	92.2	521.8	328.2	309.4	18.77	17.485	
4,000.0	3,986.8	4,032.4	4,017.4	5.1	14.5	-18.77	94.2	507.0	302.7	283.5	19.24	15.736	
4,100.0	4,086.1	4,128.6	4,112.4	5.2	14.8	-20.98	96.2	492.1	277.5	257.8	19.71	14.083	
4,200.0	4,185.3	4,224.8	4,207.4	5.3	15.2	-23.62	98.3	477.3	252.8	232.7	20.19	12.525	
4,300.0	4,284.6	4,320.9	4,302.4	5.4	15.5	-26.82	100.3	462.5	228.8	208.1	20.67	11.067	
4,400.0	4,383.8	4,417.1	4,397.4	5.5	15.8	-30.73	102.3	447.7	205.6	184.4	21.16	9.712	
4,500.0	4,483.1	4,513.3	4,492.4	5.6	16.2	-35.59	104.3	432.8	183.5	161.8	21.66	8.472	
4,600.0	4,582.4	4,609.5	4,587.4	5.7	16.5	-41.67	106.3	418.0	163.1	140.9	22.15	7.363	
4,700.0	4,681.6	4,705.6	4,682.4	5.8	16.9	-49.30	108.4	403.2	145.0	122.3	22.61	6.411	
4,800.0	4,780.9	4,801.8	4,777.4	5.9	17.2	-58.78	110.4	388.4	130.1	107.1	23.02	5.653	
4,900.0	4,880.1	4,898.0	4,872.4	6.0	17.6	-70.13	112.4	373.5	119.9	96.5	23.34	5.135	
5,000.0	4,979.4	4,994.1	4,967.4	6.1	17.9	-82.86	114.4	358.7	115.3	91.8	23.56	4.895	

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1													Offset Site Error:
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,020.9	5,000.2	5,014.3	4,987.3	6.1	18.0	-85.60	114.9	355.6	115.2	91.6	23.59	4.882	CC, ES, SF
5,100.0	5,078.6	5,090.3	5,062.4	6.2	18.3	-95.86	116.5	343.9	117.2	93.5	23.72	4.942	
5,200.0	5,177.9	5,186.5	5,157.4	6.3	18.6	-107.89	118.5	329.1	125.2	101.3	23.91	5.238	
5,300.0	5,277.1	5,282.6	5,252.4	6.4	19.0	-118.17	120.5	314.3	138.3	114.1	24.19	5.717	
5,400.0	5,376.4	5,378.8	5,347.4	6.5	19.3	-126.55	122.5	299.4	155.1	130.6	24.56	6.317	
5,471.7	5,447.6	5,447.7	5,415.5	6.6	19.6	-131.50	124.0	288.8	168.9	144.1	24.87	6.794	
5,500.0	5,475.7	5,475.0	5,442.4	6.6	19.7	-133.27	124.5	284.6	174.7	149.7	25.00	6.987	
5,600.0	5,575.1	5,571.5	5,537.8	6.7	20.0	-138.49	126.6	269.7	195.1	169.6	25.46	7.662	
5,700.0	5,674.7	5,668.5	5,633.5	6.9	20.4	-142.45	128.6	254.8	215.4	189.5	25.94	8.303	
5,800.0	5,774.4	5,765.9	5,729.7	7.0	20.7	-145.51	130.6	239.8	235.1	208.7	26.43	8.896	
5,900.0	5,874.2	5,863.6	5,826.3	7.1	21.1	-147.88	132.7	224.7	253.8	226.9	26.91	9.432	
6,000.0	5,974.1	5,961.7	5,923.2	7.2	21.5	-149.75	134.8	209.6	271.4	244.0	27.39	9.909	
6,100.0	6,074.1	6,060.2	6,020.5	7.3	21.8	-151.22	136.8	194.4	287.7	259.9	27.87	10.324	
6,171.7	6,145.8	6,130.9	6,090.3	7.3	22.1	-62.08	138.3	183.5	298.6	270.4	28.19	10.591	
6,200.0	6,174.1	6,158.9	6,118.0	7.3	22.2	-62.36	138.9	179.2	302.7	274.4	28.31	10.693	
6,300.0	6,274.1	6,257.7	6,215.6	7.4	22.5	-63.32	141.0	164.0	317.4	288.7	28.73	11.049	
6,400.0	6,374.1	6,356.4	6,313.1	7.5	22.9	-64.19	143.1	148.7	332.2	303.1	29.15	11.398	
6,500.0	6,474.1	6,455.2	6,410.7	7.6	23.3	-64.98	145.1	133.5	347.0	317.5	29.56	11.739	
6,600.0	6,574.1	6,554.0	6,508.3	7.7	23.6	-65.71	147.2	118.3	361.9	332.0	29.98	12.073	
6,700.0	6,674.1	6,652.8	6,605.9	7.8	24.0	-66.38	149.3	103.1	376.9	346.5	30.40	12.398	
6,800.0	6,774.1	6,751.6	6,703.5	7.9	24.4	-67.00	151.4	87.8	391.9	361.1	30.82	12.717	
6,900.0	6,874.1	6,850.4	6,801.0	8.0	24.7	-67.58	153.4	72.6	406.9	375.7	31.24	13.027	
7,000.0	6,974.1	6,949.1	6,898.6	8.0	25.1	-68.11	155.5	57.4	422.0	390.4	31.66	13.331	
7,100.0	7,074.1	7,047.9	6,996.2	8.1	25.4	-68.61	157.6	42.2	437.1	405.1	32.08	13.627	
7,200.0	7,174.1	7,146.7	7,093.8	8.2	25.8	-69.07	159.7	26.9	452.3	419.8	32.50	13.917	
7,300.0	7,274.1	7,245.5	7,191.4	8.3	26.2	-69.51	161.7	11.7	467.4	434.5	32.92	14.200	
7,400.0	7,374.1	7,344.3	7,288.9	8.4	26.5	-69.91	163.8	-3.5	482.6	449.3	33.34	14.475	
7,500.0	7,474.1	7,443.1	7,386.5	8.5	26.9	-70.30	165.9	-18.7	497.9	464.1	33.76	14.745	
7,600.0	7,574.1	7,541.8	7,484.1	8.6	27.3	-70.65	168.0	-34.0	513.1	478.9	34.19	15.008	
7,700.0	7,674.1	7,640.6	7,581.7	8.7	27.6	-70.99	170.1	-49.2	528.3	493.7	34.61	15.265	
7,800.0	7,774.1	7,739.4	7,679.3	8.8	28.0	-71.31	172.1	-64.4	543.6	508.6	35.04	15.516	
7,900.0	7,874.1	7,838.2	7,776.8	8.9	28.4	-71.61	174.2	-79.6	558.9	523.4	35.46	15.761	
8,000.0	7,974.1	7,937.0	7,874.4	9.0	28.7	-71.90	176.3	-94.9	574.2	538.3	35.89	16.000	
8,100.0	8,074.1	8,035.8	7,972.0	9.1	29.1	-72.17	178.4	-110.1	589.5	553.2	36.31	16.234	
8,200.0	8,174.1	8,134.5	8,069.6	9.2	29.5	-72.43	180.4	-125.3	604.9	568.1	36.74	16.463	
8,300.0	8,274.1	8,233.3	8,167.2	9.3	29.8	-72.67	182.5	-140.5	620.2	583.0	37.17	16.686	
8,400.0	8,374.1	8,332.1	8,264.7	9.4	30.2	-72.91	184.6	-155.8	635.5	597.9	37.60	16.904	
8,500.0	8,474.1	8,430.9	8,362.3	9.5	30.6	-73.13	186.7	-171.0	650.9	612.9	38.03	17.118	
8,600.0	8,574.1	8,529.7	8,459.9	9.6	30.9	-73.34	188.7	-186.2	666.3	627.8	38.45	17.326	
8,700.0	8,674.1	8,628.4	8,557.5	9.7	31.3	-73.54	190.8	-201.4	681.6	642.8	38.88	17.530	
8,800.0	8,774.1	8,727.2	8,655.1	9.8	31.7	-73.74	192.9	-216.7	697.0	657.7	39.32	17.729	
8,900.0	8,874.1	8,826.0	8,752.6	9.9	32.0	-73.92	195.0	-231.9	712.4	672.7	39.75	17.924	
9,000.0	8,974.1	8,924.8	8,850.2	10.1	32.4	-74.10	197.0	-247.1	727.8	687.6	40.18	18.115	
9,100.0	9,074.1	9,023.6	8,947.8	10.2	32.8	-74.27	199.1	-262.3	743.2	702.6	40.61	18.302	
9,200.0	9,174.1	9,122.4	9,045.4	10.3	33.1	-74.43	201.2	-277.6	758.6	717.6	41.04	18.484	
9,300.0	9,274.1	9,221.1	9,143.0	10.4	33.5	-74.59	203.3	-292.8	774.1	732.6	41.48	18.663	
9,400.0	9,374.1	9,319.9	9,240.5	10.5	33.9	-74.74	205.3	-308.0	789.5	747.6	41.91	18.838	
9,500.0	9,474.1	9,418.7	9,338.1	10.6	34.2	-74.88	207.4	-323.2	804.9	762.6	42.34	19.009	
9,600.0	9,574.1	9,517.5	9,435.7	10.7	34.6	-75.02	209.5	-338.5	820.3	777.6	42.78	19.176	
9,700.0	9,674.1	9,616.3	9,533.3	10.8	35.0	-75.15	211.6	-353.7	835.8	792.6	43.21	19.340	
9,800.0	9,774.1	9,715.1	9,630.9	10.9	35.4	-75.28	213.7	-368.9	851.2	807.6	43.65	19.501	
9,900.0	9,874.1	9,813.8	9,728.4	11.0	35.7	-75.41	215.7	-384.2	866.7	822.6	44.09	19.658	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
10,000.0	9,974.1	9,900.0	9,813.4	11.1	36.0	-75.62	216.0	-398.1	882.5	838.0	44.55	19.808		
10,100.0	10,074.1	9,975.0	9,885.9	11.3	36.3	-76.48	206.5	-414.4	900.9	855.8	45.07	19.990		
10,200.0	10,174.1	10,038.4	9,944.7	11.4	36.6	-77.74	190.3	-431.6	922.5	876.9	45.62	20.221		
10,300.0	10,274.1	10,100.0	9,998.6	11.5	36.8	-79.39	167.7	-450.8	948.3	902.1	46.20	20.527		
10,400.0	10,374.1	10,150.0	10,039.4	11.6	36.9	-81.00	144.5	-468.1	978.8	932.0	46.78	20.924		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9779-MWD+IFR1+FDIR														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	3.0	84.85	66.8	741.7	744.9					
100.0	100.0	87.1	87.1	3.0	3.0	3.0	84.85	66.8	741.7	744.7	738.7	6.00	124.120		
200.0	200.0	187.1	187.1	3.0	3.0	3.0	84.85	66.8	741.7	744.7	738.7	6.00	124.067		
300.0	300.0	287.1	287.1	3.0	3.0	3.0	84.85	66.8	741.7	744.7	738.7	6.01	123.944		
400.0	400.0	387.1	387.1	3.0	3.0	3.0	84.85	66.8	741.7	744.7	738.7	6.02	123.754		
500.0	500.0	487.1	487.1	3.1	3.1	3.1	84.85	66.8	741.7	744.7	738.7	6.03	123.498		
600.0	600.0	587.1	587.1	3.1	3.1	3.1	84.85	66.8	741.7	744.7	738.7	6.05	123.175		
700.0	700.0	687.1	687.1	3.1	3.1	3.1	84.85	66.8	741.7	744.7	738.7	6.07	122.789		
800.0	800.0	787.1	787.1	3.2	3.1	3.1	84.85	66.8	741.7	744.7	738.7	6.09	122.341		
900.0	900.0	887.1	887.1	3.2	3.2	3.2	84.85	66.8	741.7	744.7	738.6	6.11	121.832		
1,000.0	1,000.0	987.1	987.1	3.2	3.2	3.2	84.85	66.8	741.7	744.7	738.6	6.14	121.266		
1,100.0	1,100.0	1,087.1	1,087.1	3.3	3.3	3.3	84.85	66.8	741.7	744.7	738.6	6.17	120.645		
1,200.0	1,200.0	1,187.1	1,187.1	3.4	3.3	3.3	84.85	66.8	741.7	744.7	738.5	6.21	119.971		
1,300.0	1,300.0	1,287.1	1,287.1	3.4	3.4	3.4	84.85	66.8	741.7	744.7	738.5	6.25	119.247		
1,400.0	1,400.0	1,387.1	1,387.1	3.5	3.5	3.5	84.85	66.8	741.7	744.7	738.5	6.29	118.477		
1,500.0	1,500.0	1,487.1	1,487.1	3.5	3.5	3.5	84.85	66.8	741.7	744.7	738.4	6.33	117.663		
1,600.0	1,600.0	1,587.1	1,587.1	3.6	3.6	3.6	84.85	66.8	741.7	744.7	738.4	6.38	116.808		
1,700.0	1,700.0	1,687.1	1,687.1	3.7	3.7	3.7	84.85	66.8	741.7	744.7	738.3	6.42	115.916		
1,800.0	1,800.0	1,787.1	1,787.1	3.8	3.8	3.8	84.85	66.8	741.7	744.7	738.3	6.48	114.989		
1,900.0	1,900.0	1,887.1	1,887.1	3.9	3.8	3.8	84.85	66.8	741.7	744.7	738.2	6.53	114.031		
2,000.0	2,000.0	1,987.1	1,987.1	3.9	3.9	3.9	84.85	66.8	741.7	744.7	738.2	6.59	113.044		
2,100.0	2,100.0	2,087.1	2,087.1	4.0	4.0	4.0	-5.16	66.8	741.7	743.0	736.4	6.65	111.713		
2,200.0	2,199.8	2,186.9	2,186.9	4.0	4.1	4.1	-5.21	66.8	741.7	737.8	731.1	6.72	109.753		
2,300.0	2,299.5	2,286.6	2,286.6	4.1	4.2	4.2	-5.29	66.8	741.7	729.1	722.3	6.80	107.238		
2,350.0	2,349.1	2,336.2	2,336.2	4.1	4.2	4.2	-5.34	66.8	741.7	723.5	716.6	6.84	105.782		
2,400.0	2,398.8	2,385.9	2,385.9	4.1	4.3	4.3	-5.38	66.8	741.7	717.4	710.5	6.88	104.260		
2,500.0	2,498.0	2,485.1	2,485.1	4.1	4.4	4.4	-5.48	66.8	741.7	705.3	698.3	6.97	101.213		
2,600.0	2,597.3	2,607.0	2,607.0	4.2	4.5	4.5	-5.68	67.6	739.9	691.8	684.7	7.07	97.908		
2,700.0	2,696.5	2,731.3	2,731.1	4.2	4.5	4.5	-6.11	70.5	733.2	674.5	667.4	7.17	94.097		
2,800.0	2,795.8	2,852.1	2,851.2	4.3	4.6	4.6	-6.79	75.4	721.9	653.7	646.4	7.28	89.786		
2,900.0	2,895.0	2,949.3	2,947.7	4.3	4.7	4.7	-7.47	80.0	711.1	631.3	623.9	7.39	85.374		
3,000.0	2,994.3	3,046.5	3,044.2	4.4	4.7	4.7	-8.20	84.6	700.4	609.0	601.5	7.51	81.041		
3,100.0	3,093.5	3,143.7	3,140.7	4.5	4.8	4.8	-8.98	89.3	689.6	586.8	579.2	7.64	76.794		
3,200.0	3,192.8	3,240.9	3,237.1	4.5	4.9	4.9	-9.82	93.9	678.9	564.7	557.0	7.77	72.643		
3,300.0	3,292.0	3,338.0	3,333.6	4.6	5.0	5.0	-10.73	98.6	668.1	542.8	534.9	7.91	68.597		
3,400.0	3,391.3	3,435.2	3,430.1	4.7	5.0	5.0	-11.71	103.2	657.4	521.0	512.9	8.06	64.663		
3,500.0	3,490.6	3,532.4	3,526.6	4.7	5.1	5.1	-12.78	107.8	646.6	499.3	491.1	8.21	60.848		
3,600.0	3,589.8	3,629.6	3,623.0	4.8	5.2	5.2	-13.94	112.5	635.8	477.9	469.5	8.36	57.156		
3,700.0	3,689.1	3,726.8	3,719.5	4.9	5.3	5.3	-15.22	117.1	625.1	456.6	448.1	8.52	53.591		
3,800.0	3,788.3	3,824.0	3,816.0	5.0	5.3	5.3	-16.61	121.8	614.3	435.6	426.9	8.68	50.157		
3,900.0	3,887.6	3,921.1	3,912.5	5.1	5.4	5.4	-18.14	126.4	603.6	414.9	406.0	8.85	46.856		
4,000.0	3,986.8	4,018.3	4,008.9	5.1	5.5	5.5	-19.83	131.0	592.8	394.4	385.4	9.03	43.691		
4,100.0	4,086.1	4,115.5	4,105.4	5.2	5.6	5.6	-21.70	135.7	582.1	374.4	365.2	9.21	40.665		
4,200.0	4,185.3	4,212.7	4,201.9	5.3	5.7	5.7	-23.78	140.3	571.3	354.8	345.4	9.39	37.779		
4,300.0	4,284.6	4,309.9	4,298.3	5.4	5.8	5.8	-26.09	145.0	560.5	335.6	326.1	9.58	35.036		
4,400.0	4,383.8	4,407.0	4,394.8	5.5	5.9	5.9	-28.67	149.6	549.8	317.1	307.4	9.78	32.441		
4,500.0	4,483.1	4,504.2	4,491.3	5.6	6.0	6.0	-31.55	154.2	539.0	299.3	289.4	9.98	29.998		
4,600.0	4,582.4	4,601.4	4,587.8	5.7	6.1	6.1	-34.78	158.9	528.3	282.4	272.2	10.19	27.714		
4,700.0	4,681.6	4,698.6	4,684.2	5.8	6.2	6.2	-38.40	163.5	517.5	266.4	256.0	10.41	25.596		
4,800.0	4,780.9	4,795.8	4,780.7	5.9	6.3	6.3	-42.44	168.2	506.8	251.7	241.1	10.64	23.655		
4,900.0	4,880.1	4,893.0	4,877.2	6.0	6.4	6.4	-46.95	172.8	496.0	238.4	227.5	10.88	21.904		
5,000.0	4,979.4	4,990.1	4,973.7	6.1	6.5	6.5	-51.92	177.4	485.3	226.7	215.6	11.14	20.360		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9779-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,078.6	5,087.3	5,070.1	6.2	6.6	-57.37	182.1	474.5	217.0	205.6	11.40	19.040		
5,200.0	5,177.9	5,184.5	5,166.6	6.3	6.7	-63.24	186.7	463.7	209.5	197.9	11.66	17.964		
5,300.0	5,277.1	5,281.7	5,263.1	6.4	6.8	-69.46	191.4	453.0	204.5	192.6	11.93	17.145		
5,400.0	5,376.4	5,378.9	5,359.6	6.5	6.9	-75.89	196.0	442.2	202.1	189.9	12.18	16.593		
5,437.4	5,413.5	5,415.2	5,395.6	6.6	6.9	-78.31	197.7	438.2	201.9	189.7	12.27	16.454 CC, ES		
5,471.7	5,447.6	5,448.5	5,428.7	6.6	6.9	-80.54	199.3	434.5	202.1	189.7	12.35	16.359		
5,500.0	5,475.7	5,476.1	5,456.0	6.6	7.0	-82.36	200.6	431.5	202.5	190.1	12.42	16.305		
5,600.0	5,575.1	5,573.5	5,552.8	6.7	7.1	-88.44	205.3	420.7	205.6	192.9	12.63	16.275 SF		
5,700.0	5,674.7	5,671.4	5,650.0	6.9	7.2	-93.88	210.0	409.8	210.9	198.0	12.82	16.445		
5,800.0	5,774.4	5,769.6	5,747.4	7.0	7.3	-98.61	214.7	399.0	217.7	204.7	13.00	16.750		
5,900.0	5,874.2	5,868.1	5,845.2	7.1	7.4	-102.63	219.4	388.1	225.6	212.4	13.16	17.144		
6,000.0	5,974.1	5,966.8	5,943.2	7.2	7.5	-105.99	224.1	377.1	234.0	220.6	13.31	17.583		
6,100.0	6,074.1	6,065.9	6,041.5	7.3	7.6	-108.74	228.8	366.2	242.5	229.0	13.46	18.019		
6,171.7	6,145.8	6,137.0	6,112.1	7.3	7.7	-20.36	232.2	358.3	248.6	235.0	13.57	18.310		
6,200.0	6,174.1	6,165.1	6,140.0	7.3	7.7	-20.92	233.5	355.2	250.9	237.3	13.62	18.420		
6,300.0	6,274.1	6,264.3	6,238.6	7.4	7.9	-22.82	238.3	344.2	259.5	245.7	13.79	18.815		
6,400.0	6,374.1	6,363.6	6,337.1	7.5	8.0	-24.60	243.0	333.2	268.4	254.4	13.96	19.220		
6,500.0	6,474.1	6,462.9	6,435.7	7.6	8.1	-26.26	247.8	322.2	277.5	263.3	14.13	19.634		
6,600.0	6,574.1	6,562.2	6,534.2	7.7	8.2	-27.82	252.5	311.2	286.8	272.5	14.30	20.054		
6,700.0	6,674.1	6,661.4	6,632.8	7.8	8.3	-29.28	257.2	300.3	296.3	281.8	14.47	20.477		
6,800.0	6,774.1	6,760.7	6,731.3	7.9	8.4	-30.65	262.0	289.3	306.0	291.3	14.64	20.903		
6,900.0	6,874.1	6,860.0	6,829.9	8.0	8.5	-31.93	266.7	278.3	315.8	301.0	14.81	21.330		
7,000.0	6,974.1	6,959.2	6,928.4	8.0	8.7	-33.13	271.5	267.3	325.8	310.9	14.98	21.757		
7,100.0	7,074.1	7,058.5	7,027.0	8.1	8.8	-34.27	276.2	256.3	336.0	320.8	15.15	22.183		
7,200.0	7,174.1	7,157.8	7,125.5	8.2	8.9	-35.33	280.9	245.3	346.2	330.9	15.32	22.606		
7,300.0	7,274.1	7,257.1	7,224.0	8.3	9.0	-36.34	285.7	234.3	356.6	341.1	15.49	23.026		
7,400.0	7,374.1	7,356.3	7,322.6	8.4	9.1	-37.29	290.4	223.3	367.1	351.4	15.66	23.443		
7,500.0	7,474.1	7,455.6	7,421.1	8.5	9.3	-38.18	295.2	212.4	377.6	361.8	15.83	23.856		
7,600.0	7,574.1	7,554.9	7,519.7	8.6	9.4	-39.03	299.9	201.4	388.3	372.3	16.00	24.264		
7,700.0	7,674.1	7,654.1	7,618.2	8.7	9.5	-39.83	304.6	190.4	399.0	382.9	16.18	24.667		
7,800.0	7,774.1	7,753.4	7,716.8	8.8	9.6	-40.59	309.4	179.4	409.8	393.5	16.35	25.065		
7,900.0	7,874.1	7,852.7	7,815.3	8.9	9.7	-41.31	314.1	168.4	420.7	404.2	16.53	25.458		
8,000.0	7,974.1	7,951.9	7,913.9	9.0	9.9	-42.00	318.9	157.4	431.7	415.0	16.70	25.844		
8,100.0	8,074.1	8,051.2	8,012.4	9.1	10.0	-42.65	323.6	146.4	442.7	425.8	16.88	26.225		
8,200.0	8,174.1	8,150.5	8,111.0	9.2	10.1	-43.27	328.3	135.4	453.7	436.7	17.06	26.600		
8,300.0	8,274.1	8,249.8	8,209.5	9.3	10.2	-43.86	333.1	124.5	464.8	447.6	17.23	26.969		
8,400.0	8,374.1	8,349.0	8,308.1	9.4	10.4	-44.42	337.8	113.5	476.0	458.5	17.41	27.332		
8,500.0	8,474.1	8,448.3	8,406.6	9.5	10.5	-44.95	342.6	102.5	487.1	469.5	17.59	27.688		
8,600.0	8,574.1	8,547.6	8,505.2	9.6	10.6	-45.47	347.3	91.5	498.4	480.6	17.77	28.038		
8,700.0	8,674.1	8,646.8	8,603.7	9.7	10.7	-45.96	352.0	80.5	509.6	491.7	17.96	28.382		
8,800.0	8,774.1	8,746.1	8,702.3	9.8	10.9	-46.42	356.8	69.5	520.9	502.8	18.14	28.720		
8,900.0	8,874.1	8,845.4	8,800.8	9.9	11.0	-46.87	361.5	58.5	532.3	514.0	18.32	29.052		
9,000.0	8,974.1	8,944.7	8,899.3	10.1	11.1	-47.30	366.3	47.5	543.6	525.1	18.51	29.378		
9,100.0	9,074.1	9,043.9	8,997.9	10.2	11.2	-47.72	371.0	36.6	555.0	536.4	18.69	29.697		
9,200.0	9,174.1	9,143.2	9,096.4	10.3	11.4	-48.11	375.7	25.6	566.5	547.6	18.88	30.011		
9,300.0	9,274.1	9,242.5	9,195.0	10.4	11.5	-48.49	380.5	14.6	577.9	558.9	19.06	30.318		
9,400.0	9,374.1	9,341.7	9,293.5	10.5	11.6	-48.86	385.2	3.6	589.4	570.1	19.25	30.620		
9,500.0	9,474.1	9,441.0	9,392.1	10.6	11.7	-49.21	390.0	-7.4	600.9	581.4	19.44	30.916		
9,600.0	9,574.1	9,540.3	9,490.6	10.7	11.9	-49.55	394.7	-18.4	612.4	592.8	19.62	31.207		
9,700.0	9,674.1	9,639.6	9,589.2	10.8	12.0	-49.87	399.4	-29.4	623.9	604.1	19.81	31.492		
9,800.0	9,774.1	9,738.8	9,687.7	10.9	12.1	-50.19	404.2	-40.4	635.5	615.5	19.98	31.807		
9,900.0	9,874.1	10,124.8	10,047.4	11.0	12.3	-60.11	301.5	-80.1	633.1	610.9	22.17	28.556		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9779-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)						
10,000.0	9,974.1	10,350.9	10,183.5	11.1	12.5	-77.02	124.3	-94.8	596.4	572.7	23.76	25.099		
10,100.0	10,074.1	10,424.7	10,208.2	11.3	12.6	-84.22	54.8	-97.4	564.2	541.9	22.24	25.371		
10,200.0	10,174.1	10,459.4	10,216.1	11.4	12.6	-87.78	21.1	-98.2	545.9	525.1	20.72	26.349		
10,257.1	10,231.2	10,472.0	10,218.3	11.4	12.7	-89.08	8.7	-98.4	543.0	522.6	20.38	26.643		
10,300.0	10,274.1	10,479.4	10,219.5	11.5	12.7	-89.85	1.4	-98.5	544.6	524.1	20.49	26.581		
10,400.0	10,374.1	10,492.3	10,221.3	11.6	12.7	-91.20	-11.4	-98.7	561.0	539.1	21.90	25.620		
10,500.0	10,474.1	10,500.0	10,222.2	11.7	12.7	-92.01	-19.0	-98.8	593.8	569.5	24.36	24.380		
10,600.0	10,574.1	10,508.0	10,223.0	11.8	12.7	-92.84	-27.0	-98.8	640.6	613.5	27.10	23.635		
10,700.0	10,674.1	10,513.1	10,223.4	11.9	12.7	-93.38	-32.1	-98.9	698.5	668.9	29.67	23.542		
10,800.0	10,774.1	10,517.2	10,223.7	12.0	12.7	-93.80	-36.1	-98.9	765.2	733.3	31.90	23.988		
10,900.0	10,874.1	10,525.0	10,224.2	12.2	12.7	-94.62	-44.0	-98.9	838.4	804.7	33.76	24.832		
11,000.0	10,974.1	10,525.0	10,224.2	12.3	12.7	-94.62	-44.0	-98.9	916.7	881.4	35.33	25.948		
11,100.0	11,074.1	10,525.0	10,224.2	12.4	12.7	-94.62	-44.0	-98.9	998.9	962.2	36.65	27.257		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR														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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	85.06	67.0	774.8	777.8						
100.0	100.0	87.4	87.4	3.0	3.0	85.06	67.0	774.8	777.7	771.7	6.00	129.562			
200.0	200.0	187.4	187.4	3.0	3.0	85.06	67.0	774.8	777.7	771.6	6.03	128.881			
300.0	300.0	287.4	287.4	3.0	3.1	85.06	67.0	774.8	777.7	771.6	6.11	127.285			
400.0	400.0	387.4	387.4	3.0	3.2	85.06	67.0	774.8	777.7	771.4	6.23	124.916			
500.0	500.0	487.4	487.4	3.1	3.4	85.06	67.0	774.8	777.7	771.3	6.38	121.935			
600.0	600.0	587.4	587.4	3.1	3.5	85.06	67.0	774.8	777.7	771.1	6.56	118.511			
700.0	700.0	687.4	687.4	3.1	3.7	85.06	67.0	774.8	777.7	770.9	6.77	114.801			
800.0	800.0	787.4	787.4	3.2	4.0	85.06	67.0	774.8	777.7	770.7	7.01	110.940			
900.0	900.0	887.4	887.4	3.2	4.2	85.06	67.0	774.8	777.7	770.4	7.27	107.032			
1,000.0	1,000.0	987.4	987.4	3.2	4.5	85.06	67.0	774.8	777.7	770.1	7.54	103.155			
1,100.0	1,100.0	1,087.4	1,087.4	3.3	4.7	85.06	67.0	774.8	777.7	769.8	7.83	99.364			
1,200.0	1,200.0	1,187.4	1,187.4	3.4	5.0	85.06	67.0	774.8	777.7	769.5	8.13	95.696			
1,300.0	1,300.0	1,287.4	1,287.4	3.4	5.3	85.06	67.0	774.8	777.7	769.2	8.44	92.172			
1,400.0	1,400.0	1,387.4	1,387.4	3.5	5.6	85.06	67.0	774.8	777.7	768.9	8.76	88.805			
1,500.0	1,500.0	1,487.4	1,487.4	3.5	5.9	85.06	67.0	774.8	777.7	768.6	9.08	85.600			
1,600.0	1,600.0	1,587.4	1,587.4	3.6	6.2	85.06	67.0	774.8	777.7	768.2	9.42	82.557			
1,700.0	1,700.0	1,687.4	1,687.4	3.7	6.5	85.06	67.0	774.8	777.7	767.9	9.76	79.672			
1,800.0	1,800.0	1,787.4	1,787.4	3.8	6.9	85.06	67.0	774.8	777.7	767.6	10.11	76.941			
1,900.0	1,900.0	1,887.4	1,887.4	3.9	7.2	85.06	67.0	774.8	777.7	767.2	10.46	74.356			
2,000.0	2,000.0	1,987.4	1,987.4	3.9	7.5	85.06	67.0	774.8	777.7	766.8	10.81	71.909			
2,100.0	2,100.0	2,087.4	2,087.4	4.0	7.8	-4.96	67.0	774.8	775.9	764.7	11.18	69.418			
2,200.0	2,199.8	2,187.2	2,187.2	4.0	8.2	-5.00	67.0	774.8	770.7	759.2	11.55	66.731			
2,300.0	2,299.5	2,286.9	2,286.9	4.1	8.5	-5.07	67.0	774.8	762.0	750.1	11.93	63.891			
2,350.0	2,349.1	2,336.5	2,336.5	4.1	8.7	-5.12	67.0	774.8	756.4	744.3	12.12	62.421			
2,400.0	2,398.8	2,386.2	2,386.2	4.1	8.8	-5.16	67.0	774.8	750.3	738.0	12.31	60.955			
2,500.0	2,498.0	2,485.4	2,485.4	4.1	9.2	-5.25	67.0	774.8	738.2	725.5	12.70	58.136			
2,600.0	2,597.3	2,582.8	2,582.8	4.2	9.5	-5.43	68.2	774.8	726.2	713.1	13.08	55.495			
2,700.0	2,696.5	2,679.7	2,679.6	4.2	9.8	-5.87	72.6	774.7	714.5	701.0	13.48	53.012			
2,800.0	2,795.8	2,776.1	2,775.7	4.3	10.2	-6.60	80.3	774.7	703.2	689.3	13.87	50.680			
2,900.0	2,895.0	2,874.2	2,873.2	4.3	10.5	-7.55	90.4	774.7	692.3	678.0	14.29	48.462			
3,000.0	2,994.3	2,972.9	2,971.4	4.4	10.8	-8.55	100.8	774.6	681.6	666.9	14.70	46.355			
3,100.0	3,093.5	3,071.6	3,069.6	4.5	11.2	-9.58	111.1	774.6	671.2	656.0	15.13	44.361			
3,200.0	3,192.8	3,170.3	3,167.7	4.5	11.5	-10.64	121.4	774.5	661.0	645.4	15.56	42.476			
3,300.0	3,292.0	3,269.0	3,265.9	4.6	11.9	-11.73	131.7	774.5	651.0	635.0	16.00	40.693			
3,400.0	3,391.3	3,367.7	3,364.1	4.7	12.2	-12.86	142.0	774.4	641.2	624.8	16.44	39.009			
3,500.0	3,490.6	3,466.4	3,462.2	4.7	12.6	-14.02	152.4	774.4	631.7	614.9	16.88	37.418			
3,600.0	3,589.8	3,565.1	3,560.4	4.8	12.9	-15.21	162.7	774.4	622.5	605.2	17.33	35.916			
3,700.0	3,689.1	3,663.8	3,658.6	4.9	13.2	-16.44	173.0	774.3	613.6	595.8	17.79	34.499			
3,800.0	3,788.3	3,762.5	3,756.7	5.0	13.6	-17.70	183.3	774.3	604.9	586.7	18.24	33.162			
3,900.0	3,887.6	3,861.2	3,854.9	5.1	13.9	-19.00	193.6	774.2	596.6	577.9	18.70	31.902			
4,000.0	3,986.8	3,960.0	3,953.1	5.1	14.3	-20.34	203.9	774.2	588.6	569.4	19.16	30.716			
4,100.0	4,086.1	4,058.7	4,051.2	5.2	14.6	-21.71	214.3	774.1	580.9	561.3	19.63	29.598			
4,200.0	4,185.3	4,157.4	4,149.4	5.3	15.0	-23.11	224.6	774.1	573.6	553.5	20.09	28.547			
4,300.0	4,284.6	4,256.1	4,247.5	5.4	15.3	-24.55	234.9	774.0	566.6	546.0	20.56	27.559			
4,400.0	4,383.8	4,354.8	4,345.7	5.5	15.7	-26.03	245.2	774.0	560.0	539.0	21.03	26.632			
4,500.0	4,483.1	4,453.5	4,443.9	5.6	16.0	-27.53	255.5	773.9	553.8	532.3	21.50	25.762			
4,600.0	4,582.4	4,552.2	4,542.0	5.7	16.4	-29.07	265.8	773.9	548.0	526.0	21.97	24.946			
4,700.0	4,681.6	4,650.9	4,640.2	5.8	16.7	-30.64	276.2	773.9	542.5	520.1	22.43	24.184			
4,800.0	4,780.9	4,749.6	4,738.4	5.9	17.1	-32.24	286.5	773.8	537.6	514.7	22.90	23.471			
4,900.0	4,880.1	4,848.3	4,836.5	6.0	17.4	-33.87	296.8	773.8	533.0	509.6	23.37	22.806			
5,000.0	4,979.4	4,947.0	4,934.7	6.1	17.8	-35.53	307.1	773.7	528.9	505.1	23.84	22.187			

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,078.6	5,045.7	5,032.9	6.2	18.1	-37.21	317.4	773.7	525.3	501.0	24.30	21.612		
5,200.0	5,177.9	5,144.4	5,131.0	6.3	18.5	-38.91	327.7	773.6	522.1	497.3	24.77	21.078		
5,300.0	5,277.1	5,243.1	5,229.2	6.4	18.8	-40.62	338.1	773.6	519.4	494.2	25.23	20.584		
5,400.0	5,376.4	5,341.8	5,327.4	6.5	19.2	-42.36	348.4	773.5	517.2	491.5	25.69	20.128		
5,471.7	5,447.6	5,412.6	5,397.7	6.6	19.4	-43.61	355.8	773.5	515.9	489.9	26.02	19.824		
5,500.0	5,475.7	5,440.5	5,425.5	6.6	19.5	-44.10	358.7	773.5	515.5	489.3	26.15	19.710		
5,566.6	5,541.8	5,506.3	5,491.0	6.7	19.8	-45.21	365.6	773.5	515.1	488.7	26.46	19.470		
5,600.0	5,575.1	5,539.4	5,523.8	6.7	19.9	-45.75	369.0	773.4	515.2	488.6	26.61	19.362		
5,700.0	5,674.7	5,638.4	5,622.3	6.9	20.3	-47.28	379.4	773.4	516.6	489.5	27.06	19.088		
5,800.0	5,774.4	5,737.6	5,721.0	7.0	20.6	-48.66	389.8	773.4	519.4	491.9	27.51	18.881		
5,900.0	5,874.2	5,836.9	5,819.7	7.1	21.0	-49.91	400.1	773.3	523.7	495.7	27.95	18.736		
6,000.0	5,974.1	5,936.3	5,918.6	7.2	21.3	-51.00	410.5	773.3	529.3	500.9	28.38	18.648		
6,100.0	6,074.1	6,079.5	6,061.5	7.3	21.8	-51.65	416.0	773.2	530.5	501.5	28.97	18.314		
6,171.7	6,145.8	6,151.2	6,133.2	7.3	22.1	38.32	416.0	773.2	530.2	500.9	29.28	18.107		
6,200.0	6,174.1	6,179.5	6,161.5	7.3	22.2	38.32	416.0	773.2	530.2	500.8	29.41	18.029		
6,300.0	6,274.1	6,279.5	6,261.5	7.4	22.5	38.32	416.0	773.2	530.2	500.4	29.86	17.759		
6,400.0	6,374.1	6,379.5	6,361.5	7.5	22.9	38.32	416.0	773.2	530.2	499.9	30.30	17.496		
6,500.0	6,474.1	6,479.5	6,461.5	7.6	23.2	38.32	416.0	773.2	530.2	499.5	30.75	17.241		
6,600.0	6,574.1	6,579.5	6,561.5	7.7	23.6	38.32	416.0	773.2	530.2	499.0	31.20	16.993		
6,700.0	6,674.1	6,679.5	6,661.5	7.8	23.9	38.32	416.0	773.2	530.2	498.6	31.65	16.751		
6,800.0	6,774.1	6,779.5	6,761.5	7.9	24.3	38.32	416.0	773.2	530.2	498.1	32.10	16.516		
6,900.0	6,874.1	6,879.5	6,861.5	8.0	24.7	38.32	416.0	773.2	530.2	497.7	32.55	16.288		
7,000.0	6,974.1	6,979.5	6,961.5	8.0	25.0	38.32	416.0	773.2	530.2	497.2	33.00	16.065		
7,100.0	7,074.1	7,079.5	7,061.5	8.1	25.4	38.32	416.0	773.2	530.2	496.8	33.46	15.848		
7,200.0	7,174.1	7,179.5	7,161.5	8.2	25.7	38.32	416.0	773.2	530.2	496.3	33.91	15.636		
7,300.0	7,274.1	7,279.5	7,261.5	8.3	26.1	38.32	416.0	773.2	530.2	495.9	34.36	15.430		
7,400.0	7,374.1	7,379.5	7,361.5	8.4	26.4	38.32	416.0	773.2	530.2	495.4	34.82	15.229		
7,500.0	7,474.1	7,479.5	7,461.5	8.5	26.8	38.32	416.0	773.2	530.2	494.9	35.27	15.033		
7,600.0	7,574.1	7,579.5	7,561.5	8.6	27.1	38.32	416.0	773.2	530.2	494.5	35.72	14.842		
7,700.0	7,674.1	7,679.5	7,661.5	8.7	27.5	38.32	416.0	773.2	530.2	494.0	36.18	14.655		
7,800.0	7,774.1	7,779.5	7,761.5	8.8	27.8	38.32	416.0	773.2	530.2	493.6	36.63	14.473		
7,900.0	7,874.1	7,879.5	7,861.5	8.9	28.2	38.32	416.0	773.2	530.2	493.1	37.09	14.296		
8,000.0	7,974.1	7,979.5	7,961.5	9.0	28.5	38.32	416.0	773.2	530.2	492.7	37.55	14.122		
8,100.0	8,074.1	8,079.5	8,061.5	9.1	28.9	38.32	416.0	773.2	530.2	492.2	38.00	13.953		
8,200.0	8,174.1	8,179.5	8,161.5	9.2	29.3	38.32	416.0	773.2	530.2	491.8	38.46	13.787		
8,300.0	8,274.1	8,279.5	8,261.5	9.3	29.6	38.32	416.0	773.2	530.2	491.3	38.91	13.625		
8,400.0	8,374.1	8,379.5	8,361.5	9.4	30.0	38.32	416.0	773.2	530.2	490.8	39.37	13.467		
8,500.0	8,474.1	8,479.5	8,461.5	9.5	30.3	38.32	416.0	773.2	530.2	490.4	39.83	13.312		
8,600.0	8,574.1	8,579.5	8,561.5	9.6	30.7	38.32	416.0	773.2	530.2	489.9	40.29	13.161		
8,700.0	8,674.1	8,679.5	8,661.5	9.7	31.0	38.32	416.0	773.2	530.2	489.5	40.74	13.013		
8,800.0	8,774.1	8,779.5	8,761.5	9.8	31.4	38.32	416.0	773.2	530.2	489.0	41.20	12.868		
8,900.0	8,874.1	8,879.5	8,861.5	9.9	31.7	38.32	416.0	773.2	530.2	488.6	41.66	12.727		
9,000.0	8,974.1	8,979.5	8,961.5	10.1	32.1	38.32	416.0	773.2	530.2	488.1	42.12	12.588		
9,100.0	9,074.1	9,079.5	9,061.5	10.2	32.5	38.32	416.0	773.2	530.2	487.6	42.58	12.452		
9,200.0	9,174.1	9,179.5	9,161.5	10.3	32.8	38.32	416.0	773.2	530.2	487.2	43.04	12.319		
9,300.0	9,274.1	9,279.5	9,261.5	10.4	33.2	38.32	416.0	773.2	530.2	486.7	43.50	12.189		
9,400.0	9,374.1	9,379.5	9,361.5	10.5	33.5	38.32	416.0	773.2	530.2	486.3	43.96	12.062		
9,500.0	9,474.1	9,479.5	9,461.5	10.6	33.9	38.32	416.0	773.2	530.2	485.8	44.42	11.937		
9,600.0	9,574.1	9,579.5	9,561.5	10.7	34.2	38.32	416.0	773.2	530.2	485.3	44.88	11.814		
9,700.0	9,674.1	9,679.5	9,661.5	10.8	34.6	38.32	416.0	773.2	530.2	484.9	45.34	11.694		
9,800.0	9,774.1	9,870.9	9,852.1	10.9	35.2	39.11	404.4	773.3	529.0	483.1	45.91	11.523		
9,900.0	9,874.1	10,276.2	10,166.2	11.0	36.1	62.99	167.9	774.0	479.2	434.5	44.66	10.730		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.0	9,974.1	10,379.9	10,205.8	11.1	36.2	77.63	72.3	774.3	416.7	371.6	45.15	9.229	
10,100.0	10,074.1	10,421.8	10,215.8	11.3	36.2	84.51	31.7	774.4	365.6	319.9	45.72	7.996	
10,200.0	10,174.1	10,444.0	10,219.6	11.4	36.3	88.30	9.8	774.5	335.2	289.7	45.48	7.371	
10,259.3	10,233.5	10,452.9	10,220.9	11.4	36.3	89.83	1.0	774.5	330.0	284.9	45.15	7.309	CC, ES, SF
10,300.0	10,274.1	10,457.8	10,221.5	11.5	36.3	90.67	-3.9	774.5	332.5	287.4	45.06	7.378	
10,400.0	10,374.1	10,467.1	10,222.5	11.6	36.3	92.28	-13.1	774.5	358.4	313.1	45.22	7.925	
10,500.0	10,474.1	10,475.0	10,223.2	11.7	36.3	93.64	-21.0	774.6	407.6	362.5	45.13	9.032	
10,600.0	10,574.1	10,475.0	10,223.2	11.8	36.3	93.64	-21.0	774.6	473.1	428.4	44.73	10.577	
10,700.0	10,674.1	10,482.9	10,223.9	11.9	36.3	95.01	-28.9	774.6	549.0	504.7	44.25	12.405	
10,800.0	10,774.1	10,486.1	10,224.1	12.0	36.3	95.56	-32.1	774.6	631.6	587.7	43.90	14.388	
10,900.0	10,874.1	10,488.8	10,224.2	12.2	36.3	96.01	-34.7	774.6	718.6	674.9	43.68	16.452	
11,000.0	10,974.1	10,491.0	10,224.3	12.3	36.3	96.38	-36.9	774.6	808.6	765.0	43.58	18.552	
11,100.0	11,074.1	10,500.0	10,224.7	12.4	36.3	97.92	-45.9	774.6	900.8	857.2	43.59	20.664	
11,200.0	11,174.1	10,500.0	10,224.7	12.5	36.3	97.92	-45.9	774.6	994.3	950.7	43.68	22.766	

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	3.0	85.25	67.1	807.7	810.6					
100.0	100.0	86.7	86.7	3.0	3.0	3.0	85.25	67.1	807.7	810.5	804.5	6.00	135.079		
200.0	200.0	186.7	186.7	3.0	3.0	3.0	85.25	67.1	807.7	810.5	804.5	6.00	135.021		
300.0	300.0	286.7	286.7	3.0	3.0	3.0	85.25	67.1	807.7	810.5	804.5	6.01	134.889		
400.0	400.0	386.7	386.7	3.0	3.0	3.0	85.25	67.1	807.7	810.5	804.5	6.02	134.682		
500.0	500.0	486.7	486.7	3.1	3.1	3.1	85.25	67.1	807.7	810.5	804.5	6.03	134.404		
600.0	600.0	586.7	586.7	3.1	3.1	3.1	85.25	67.1	807.7	810.5	804.5	6.05	134.054		
700.0	700.0	686.7	686.7	3.1	3.1	3.1	85.25	67.1	807.7	810.5	804.4	6.06	133.635		
800.0	800.0	786.7	786.7	3.2	3.1	3.1	85.25	67.1	807.7	810.5	804.4	6.09	133.149		
900.0	900.0	886.7	886.7	3.2	3.2	3.2	85.25	67.1	807.7	810.5	804.4	6.11	132.597		
1,000.0	1,000.0	986.7	986.7	3.2	3.2	3.2	85.25	67.1	807.7	810.5	804.4	6.14	131.983		
1,100.0	1,100.0	1,086.7	1,086.7	3.3	3.3	3.3	85.25	67.1	807.7	810.5	804.3	6.17	131.309		
1,200.0	1,200.0	1,186.7	1,186.7	3.4	3.3	3.3	85.25	67.1	807.7	810.5	804.3	6.21	130.578		
1,300.0	1,300.0	1,286.7	1,286.7	3.4	3.4	3.4	85.25	67.1	807.7	810.5	804.3	6.24	129.792		
1,400.0	1,400.0	1,386.7	1,386.7	3.5	3.5	3.5	85.25	67.1	807.7	810.5	804.2	6.29	128.956		
1,500.0	1,500.0	1,486.7	1,486.7	3.5	3.5	3.5	85.25	67.1	807.7	810.5	804.2	6.33	128.072		
1,600.0	1,600.0	1,586.7	1,586.7	3.6	3.6	3.6	85.25	67.1	807.7	810.5	804.1	6.37	127.144		
1,700.0	1,700.0	1,686.7	1,686.7	3.7	3.7	3.7	85.25	67.1	807.7	810.5	804.1	6.42	126.176		
1,800.0	1,800.0	1,786.7	1,786.7	3.8	3.8	3.8	85.25	67.1	807.7	810.5	804.0	6.48	125.170		
1,900.0	1,900.0	1,886.7	1,886.7	3.9	3.8	3.8	85.25	67.1	807.7	810.5	804.0	6.53	124.129		
2,000.0	2,000.0	1,986.7	1,986.7	3.9	3.9	3.9	85.25	67.1	807.7	810.5	803.9	6.59	123.058		
2,100.0	2,100.0	2,086.7	2,086.7	4.0	4.0	4.0	-4.77	67.1	807.7	808.8	802.1	6.65	121.639		
2,200.0	2,199.8	2,186.5	2,186.5	4.0	4.1	4.1	-4.81	67.1	807.7	803.5	796.8	6.72	119.583		
2,300.0	2,299.5	2,286.2	2,286.2	4.1	4.2	4.2	-4.87	67.1	807.7	794.9	788.1	6.80	116.966		
2,350.0	2,349.1	2,335.8	2,335.8	4.1	4.2	4.2	-4.92	67.1	807.7	789.2	782.4	6.84	115.457		
2,400.0	2,398.8	2,385.5	2,385.5	4.1	4.3	4.3	-4.96	67.1	807.7	783.1	776.3	6.88	113.881		
2,500.0	2,498.0	2,484.7	2,484.7	4.1	4.4	4.4	-5.03	67.1	807.7	771.0	764.0	6.96	110.721		
2,600.0	2,597.3	2,567.1	2,567.1	4.2	4.4	4.4	-5.08	67.0	808.5	759.8	752.8	7.05	107.781		
2,700.0	2,696.5	2,646.7	2,646.7	4.2	4.5	4.5	-5.08	66.3	811.4	751.2	744.0	7.14	105.189		
2,800.0	2,795.8	2,726.7	2,726.4	4.3	4.5	4.5	-5.02	65.1	816.4	745.2	738.0	7.24	102.958		
2,900.0	2,895.0	2,820.3	2,819.7	4.3	4.5	4.5	-4.90	63.3	824.4	741.3	733.9	7.35	100.882		
3,000.0	2,994.3	2,920.2	2,919.3	4.4	4.5	4.5	-4.77	61.3	832.9	737.5	730.0	7.47	98.751		
3,100.0	3,093.5	3,020.1	3,018.8	4.5	4.5	4.5	-4.64	59.4	841.5	733.7	726.1	7.59	96.612		
3,200.0	3,192.8	3,120.1	3,118.3	4.5	4.6	4.6	-4.51	57.4	850.0	729.9	722.2	7.73	94.475		
3,300.0	3,292.0	3,220.0	3,217.8	4.6	4.6	4.6	-4.38	55.4	858.6	726.1	718.3	7.86	92.346		
3,400.0	3,391.3	3,319.9	3,317.4	4.7	4.6	4.6	-4.25	53.4	867.1	722.3	714.3	8.01	90.234		
3,500.0	3,490.6	3,419.8	3,416.9	4.7	4.7	4.7	-4.11	51.5	875.7	718.6	710.4	8.15	88.143		
3,600.0	3,589.8	3,519.7	3,516.4	4.8	4.7	4.7	-3.97	49.5	884.2	714.8	706.5	8.30	86.079		
3,700.0	3,689.1	3,619.6	3,615.9	4.9	4.8	4.8	-3.83	47.5	892.8	711.0	702.6	8.46	84.046		
3,800.0	3,788.3	3,719.5	3,715.5	5.0	4.8	4.8	-3.70	45.5	901.3	707.3	698.6	8.62	82.048		
3,900.0	3,887.6	3,819.5	3,815.0	5.1	4.9	4.9	-3.55	43.6	909.9	703.5	694.7	8.78	80.088		
4,000.0	3,986.8	3,919.4	3,914.5	5.1	5.0	5.0	-3.41	41.6	918.5	699.8	690.8	8.95	78.168		
4,100.0	4,086.1	4,019.3	4,014.1	5.2	5.0	5.0	-3.27	39.6	927.0	696.0	686.9	9.12	76.290		
4,200.0	4,185.3	4,119.2	4,113.6	5.3	5.1	5.1	-3.12	37.7	935.6	692.3	683.0	9.30	74.455		
4,300.0	4,284.6	4,219.1	4,213.1	5.4	5.1	5.1	-2.97	35.7	944.1	688.5	679.0	9.48	72.665		
4,400.0	4,383.8	4,319.0	4,312.6	5.5	5.2	5.2	-2.82	33.7	952.7	684.8	675.1	9.66	70.919		
4,500.0	4,483.1	4,418.9	4,412.2	5.6	5.3	5.3	-2.67	31.7	961.2	681.0	671.2	9.84	69.218		
4,600.0	4,582.4	4,518.9	4,511.7	5.7	5.4	5.4	-2.52	29.8	969.8	677.3	667.3	10.03	67.562		
4,700.0	4,681.6	4,618.8	4,611.2	5.8	5.4	5.4	-2.37	27.8	978.3	673.6	663.4	10.21	65.951		
4,800.0	4,780.9	4,718.7	4,710.8	5.9	5.5	5.5	-2.21	25.8	986.9	669.9	659.5	10.40	64.384		
4,900.0	4,880.1	4,818.6	4,810.3	6.0	5.6	5.6	-2.05	23.8	995.4	666.2	655.6	10.60	62.861		
5,000.0	4,979.4	4,918.5	4,909.8	6.1	5.7	5.7	-1.89	21.9	1,004.0	662.5	651.7	10.79	61.381		

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,078.6	5,018.4	5,009.3	6.2	5.8	-1.73	19.9	1,012.6	658.8	647.8	10.99	59.943	
5,200.0	5,177.9	5,118.3	5,108.9	6.3	5.9	-1.57	17.9	1,021.1	655.1	643.9	11.19	58.546	
5,300.0	5,277.1	5,218.3	5,208.4	6.4	5.9	-1.40	15.9	1,029.7	651.4	640.0	11.39	57.190	
5,400.0	5,376.4	5,318.2	5,307.9	6.5	6.0	-1.24	14.0	1,038.2	647.7	636.1	11.59	55.874	
5,471.7	5,447.6	5,389.8	5,379.3	6.6	6.1	-1.12	12.6	1,044.4	645.0	633.3	11.74	54.953	
5,500.0	5,475.7	5,418.1	5,407.4	6.6	6.1	-1.07	12.0	1,046.8	644.1	632.3	11.80	54.601	
5,600.0	5,575.1	5,518.0	5,507.0	6.7	6.2	-0.89	10.0	1,055.3	641.8	629.8	12.00	53.474	
5,681.9	5,656.6	5,599.9	5,588.6	6.8	6.3	-0.75	8.4	1,062.3	641.2	629.0	12.17	52.681 CC	
5,700.0	5,674.7	5,618.0	5,606.6	6.9	6.3	-0.72	8.0	1,063.9	641.2	629.0	12.21	52.522 ES	
5,800.0	5,774.4	5,718.0	5,706.2	7.0	6.4	-0.54	6.1	1,072.5	642.4	630.0	12.42	51.736	
5,900.0	5,874.2	5,817.9	5,805.7	7.1	6.5	-0.36	4.1	1,081.0	645.3	632.7	12.63	51.110	
6,000.0	5,974.1	5,917.8	5,905.2	7.2	6.6	-0.19	2.1	1,089.6	650.0	637.2	12.84	50.636	
6,100.0	6,074.1	6,017.6	6,004.6	7.3	6.7	-0.01	0.2	1,098.1	656.5	643.4	13.05	50.306	
6,171.7	6,145.8	6,089.0	6,075.8	7.3	6.8	90.11	-1.3	1,104.2	662.2	649.0	13.18	50.251 SF	
6,200.0	6,174.1	6,117.2	6,103.9	7.3	6.8	90.16	-1.8	1,106.6	664.6	651.4	13.22	50.280	
6,300.0	6,274.1	6,216.8	6,203.1	7.4	6.9	90.32	-3.8	1,115.2	673.2	659.8	13.36	50.379	
6,400.0	6,374.1	6,316.4	6,302.3	7.5	7.0	90.48	-5.7	1,123.7	681.7	668.2	13.51	50.473	
6,500.0	6,474.1	6,416.1	6,401.6	7.6	7.1	90.64	-7.7	1,132.2	690.3	676.7	13.65	50.561	
6,600.0	6,574.1	6,515.7	6,500.8	7.7	7.2	90.80	-9.7	1,140.8	698.9	685.1	13.80	50.645	
6,700.0	6,674.1	6,615.3	6,600.0	7.8	7.3	90.95	-11.7	1,149.3	707.5	693.6	13.95	50.724	
6,800.0	6,774.1	6,714.9	6,699.2	7.9	7.4	91.09	-13.6	1,157.8	716.1	702.0	14.10	50.799	
6,900.0	6,874.1	6,814.5	6,798.5	8.0	7.5	91.24	-15.6	1,166.3	724.7	710.5	14.25	50.869	
7,000.0	6,974.1	6,914.1	6,897.7	8.0	7.6	91.38	-17.6	1,174.9	733.3	718.9	14.40	50.935	
7,100.0	7,074.1	7,013.7	6,996.9	8.1	7.7	91.51	-19.5	1,183.4	741.9	727.4	14.55	50.997	
7,200.0	7,174.1	7,113.3	7,096.1	8.2	7.8	91.65	-21.5	1,191.9	750.5	735.8	14.70	51.055	
7,300.0	7,274.1	7,213.0	7,195.4	8.3	8.0	91.78	-23.5	1,200.5	759.2	744.3	14.85	51.110	
7,400.0	7,374.1	7,312.6	7,294.6	8.4	8.1	91.90	-25.4	1,209.0	767.8	752.8	15.01	51.161	
7,500.0	7,474.1	7,412.2	7,393.8	8.5	8.2	92.03	-27.4	1,217.5	776.4	761.2	15.16	51.208	
7,600.0	7,574.1	7,511.8	7,493.1	8.6	8.3	92.15	-29.4	1,226.0	785.0	769.7	15.32	51.252	
7,700.0	7,674.1	7,611.4	7,592.3	8.7	8.4	92.27	-31.3	1,234.6	793.7	778.2	15.47	51.293	
7,800.0	7,774.1	7,711.0	7,691.5	8.8	8.5	92.39	-33.3	1,243.1	802.3	786.7	15.63	51.331	
7,900.0	7,874.1	7,810.6	7,790.7	8.9	8.6	92.50	-35.3	1,251.6	810.9	795.2	15.79	51.366	
8,000.0	7,974.1	7,910.3	7,890.0	9.0	8.7	92.61	-37.2	1,260.2	819.6	803.6	15.95	51.398	
8,100.0	8,074.1	8,009.9	7,989.2	9.1	8.8	92.72	-39.2	1,268.7	828.2	812.1	16.10	51.428	
8,200.0	8,174.1	8,109.5	8,088.4	9.2	9.0	92.83	-41.2	1,277.2	836.9	820.6	16.26	51.455	
8,300.0	8,274.1	8,209.1	8,187.7	9.3	9.1	92.94	-43.1	1,285.8	845.5	829.1	16.42	51.479	
8,400.0	8,374.1	8,308.7	8,286.9	9.4	9.2	93.04	-45.1	1,294.3	854.2	837.6	16.59	51.501	
8,500.0	8,474.1	8,408.3	8,386.1	9.5	9.3	93.14	-47.1	1,302.8	862.8	846.1	16.75	51.520	
8,600.0	8,574.1	8,507.9	8,485.3	9.6	9.4	93.24	-49.0	1,311.3	871.5	854.6	16.91	51.538	
8,700.0	8,674.1	8,607.5	8,584.6	9.7	9.5	93.33	-51.0	1,319.9	880.2	863.1	17.07	51.553	
8,800.0	8,774.1	8,707.2	8,683.8	9.8	9.7	93.43	-53.0	1,328.4	888.8	871.6	17.24	51.566	
8,900.0	8,874.1	8,806.8	8,783.0	9.9	9.8	93.52	-54.9	1,336.9	897.5	880.1	17.40	51.577	
9,000.0	8,974.1	8,906.4	8,882.3	10.1	9.9	93.61	-56.9	1,345.5	906.2	888.6	17.57	51.587	
9,100.0	9,074.1	9,006.0	8,981.5	10.2	10.0	93.70	-58.9	1,354.0	914.8	897.1	17.73	51.594	
9,200.0	9,174.1	9,105.6	9,080.7	10.3	10.1	93.79	-60.8	1,362.5	923.5	905.6	17.90	51.600	
9,300.0	9,274.1	9,205.2	9,179.9	10.4	10.2	93.88	-62.8	1,371.0	932.2	914.1	18.06	51.604	
9,400.0	9,374.1	9,304.8	9,279.2	10.5	10.4	93.96	-64.8	1,379.6	940.9	922.6	18.23	51.606	
9,500.0	9,474.1	9,404.4	9,378.4	10.6	10.5	94.05	-66.7	1,388.1	949.5	931.1	18.40	51.607	
9,600.0	9,574.1	9,504.1	9,477.6	10.7	10.6	94.13	-68.7	1,396.6	958.2	939.7	18.57	51.606	
9,700.0	9,674.1	9,603.7	9,576.8	10.8	10.7	94.21	-70.7	1,405.2	966.9	948.2	18.74	51.604	
9,800.0	9,774.1	9,703.3	9,676.1	10.9	10.8	94.29	-72.6	1,413.7	975.6	956.7	18.91	51.601	
9,900.0	9,874.1	9,800.0	9,772.4	11.0	11.0	94.36	-74.6	1,422.0	984.3	965.2	19.08	51.597	

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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.0	9,974.1	9,857.5	9,829.4	11.1	11.0	94.61	-79.4	1,427.9	995.4	976.1	19.24	51.743		

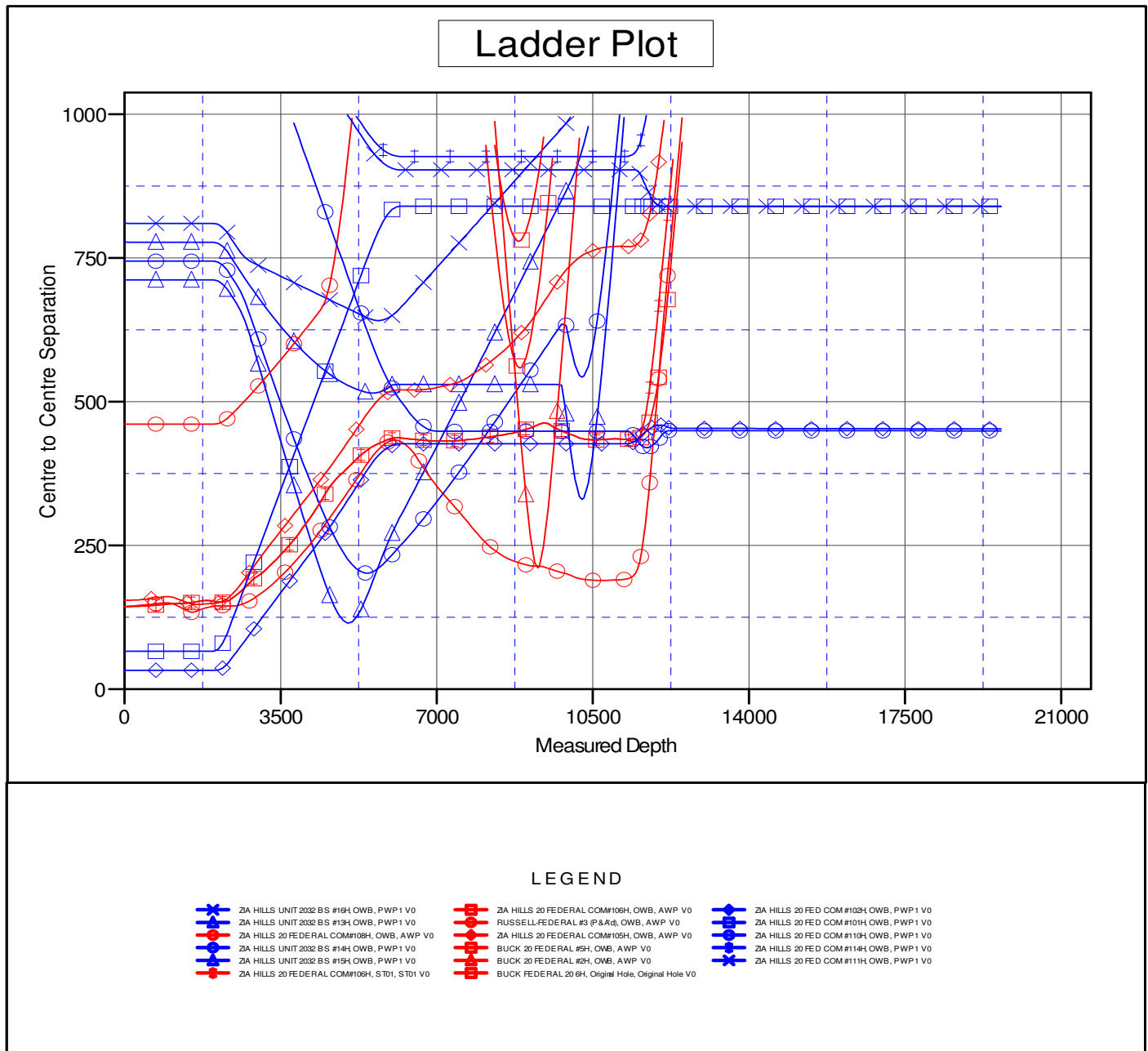
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=31' @ 3185.1usft (N 894)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #103H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.34°



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 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #103H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=31' @ 3185.1usft (N 894)

Offset Depths are relative to Offset Datum

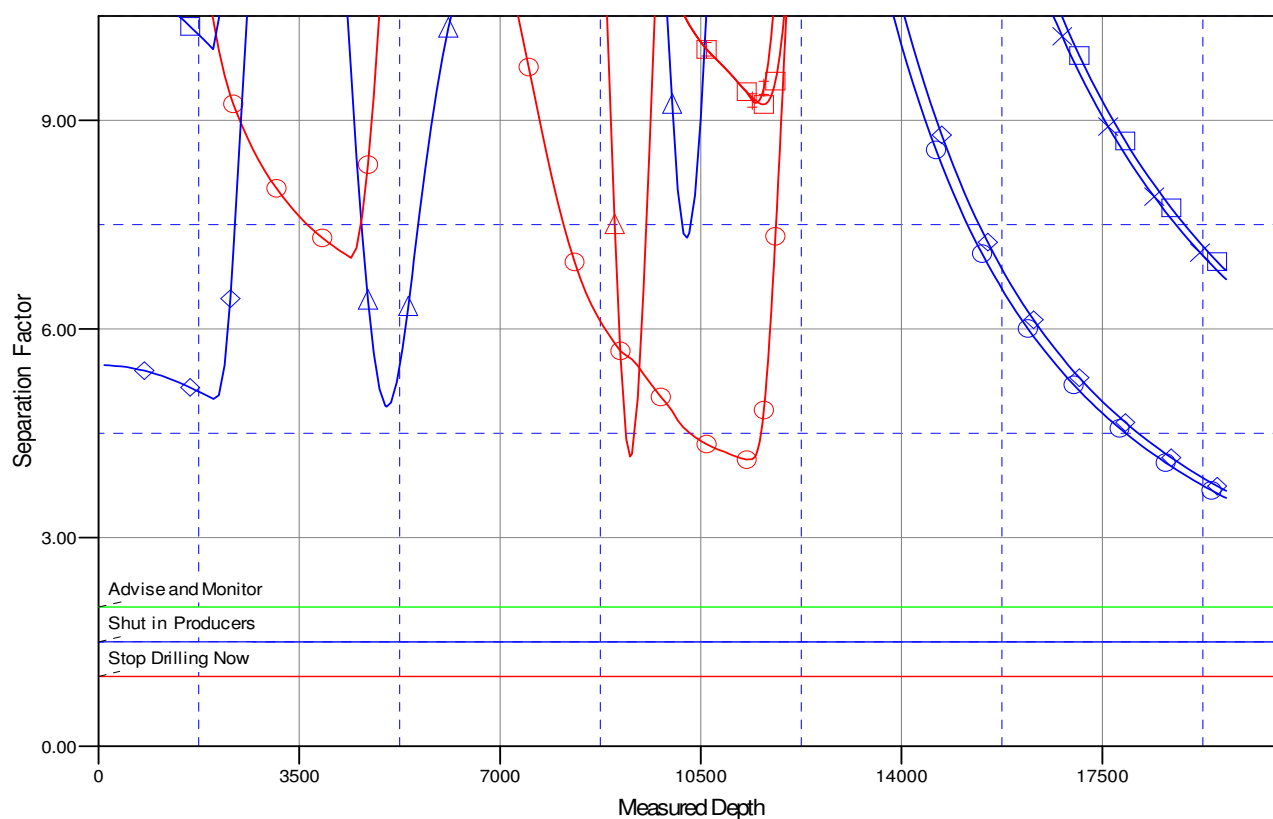
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #103H

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

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

ZIA HILLS UNIT 2032 BS #16H, OWB, PWP1 V0	ZIA HILLS 20 FEDERAL COM#106H, OWB, AWP V0	ZIA HILLS 20 FED COM#102H, OWB, PWP1 V0
ZIA HILLS UNIT 2032 BS #13H, OWB, PWP1 V0	RUSSELL FEDERAL #3 (P&Ad), OWB, AWP V0	ZIA HILLS 20 FED COM#101H, OWB, PWP1 V0
ZIA HILLS 20 FEDERAL COM#106H, OWB, AWP V0	ZIA HILLS 20 FEDERAL COM#105H, OWB, AWP V0	ZIA HILLS 20 FED COM#110H, OWB, PWP1 V0
ZIA HILLS UNIT 2032 BS #14H, OWB, PWP1 V0	BUCK 20 FEDERAL #5H, OWB, AWP V0	ZIA HILLS 20 FED COM#114H, OWB, PWP1 V0
ZIA HILLS UNIT 2032 BS #15H, OWB, PWP1 V0	BUCK 20 FEDERAL #2H, OWB, AWP V0	ZIA HILLS 20 FED COM#111H, OWB, PWP1 V0
ZIA HILLS 20 FEDERAL COM#106H, STD1, STD1 V0	BUCK FEDERAL 20 6H, Original Hole, Original Hole 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 20 FED COM PROJECT

ZIA HILLS 20 FED COM #103H

OWB

Plan: PWP1

Standard Survey Report

05 April, 2022

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #103H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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 20 FED COM PROJECT		
Site Position:		Northing:	377,211.94 usft
From:	Map	Easting:	699,941.21 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 7.543 N
		Longitude:	103° 41' 17.190 W
		Grid Convergence:	0.34 °

Well	ZIA HILLS 20 FED COM #103H		
Well Position	+N/-S	0.0 usft	Northing: 374,558.93 usft
	+E/-W	0.0 usft	Easting: 697,919.36 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 41.407 N
		Longitude:	103° 41' 40.860 W
		Ground Level:	3,154.1 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	2/17/2022	6.46	59.59	47,444.11502331

Design	PWP1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	11,905.0	0.0	0.0	2.85

Survey Tool Program	Date	4/5/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	11,454.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,454.0	19,657.0	PWP1 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #103H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
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
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,100.0	2.00	90.00	2,100.0	0.0	1.7	0.1	2.00	2.00	0.00
2,200.0	4.00	90.00	2,199.8	0.0	7.0	0.3	2.00	2.00	0.00
2,300.0	6.00	90.00	2,299.5	0.0	15.7	0.8	2.00	2.00	0.00
2,350.0	7.00	90.00	2,349.1	0.0	21.4	1.1	2.00	2.00	0.00
Start 3121.7 hold at 2349.0 MD									
2,400.0	7.00	90.00	2,398.8	0.0	27.4	1.4	0.00	0.00	0.00
2,500.0	7.00	90.00	2,498.0	0.0	39.6	2.0	0.00	0.00	0.00
2,600.0	7.00	90.00	2,597.3	0.0	51.8	2.6	0.00	0.00	0.00
2,700.0	7.00	90.00	2,696.5	0.0	64.0	3.2	0.00	0.00	0.00
2,800.0	7.00	90.00	2,795.8	0.0	76.2	3.8	0.00	0.00	0.00
2,900.0	7.00	90.00	2,895.0	0.0	88.4	4.4	0.00	0.00	0.00
3,000.0	7.00	90.00	2,994.3	0.0	100.6	5.0	0.00	0.00	0.00
3,100.0	7.00	90.00	3,093.5	0.0	112.8	5.6	0.00	0.00	0.00
3,200.0	7.00	90.00	3,192.8	0.0	124.9	6.2	0.00	0.00	0.00
3,300.0	7.00	90.00	3,292.0	0.0	137.1	6.8	0.00	0.00	0.00
3,400.0	7.00	90.00	3,391.3	0.0	149.3	7.4	0.00	0.00	0.00
3,500.0	7.00	90.00	3,490.6	0.0	161.5	8.0	0.00	0.00	0.00
3,600.0	7.00	90.00	3,589.8	0.0	173.7	8.6	0.00	0.00	0.00
3,700.0	7.00	90.00	3,689.1	0.0	185.9	9.2	0.00	0.00	0.00
3,800.0	7.00	90.00	3,788.3	0.0	198.1	9.8	0.00	0.00	0.00
3,900.0	7.00	90.00	3,887.6	0.0	210.3	10.4	0.00	0.00	0.00
4,000.0	7.00	90.00	3,986.8	0.0	222.4	11.0	0.00	0.00	0.00
4,100.0	7.00	90.00	4,086.1	0.0	234.6	11.7	0.00	0.00	0.00
4,200.0	7.00	90.00	4,185.3	0.0	246.8	12.3	0.00	0.00	0.00
4,300.0	7.00	90.00	4,284.6	0.0	259.0	12.9	0.00	0.00	0.00
4,400.0	7.00	90.00	4,383.8	0.0	271.2	13.5	0.00	0.00	0.00
4,500.0	7.00	90.00	4,483.1	0.0	283.4	14.1	0.00	0.00	0.00
4,600.0	7.00	90.00	4,582.4	0.0	295.6	14.7	0.00	0.00	0.00
4,700.0	7.00	90.00	4,681.6	0.0	307.7	15.3	0.00	0.00	0.00
4,800.0	7.00	90.00	4,780.9	0.0	319.9	15.9	0.00	0.00	0.00
4,900.0	7.00	90.00	4,880.1	0.0	332.1	16.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #103H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)	
5,000.0	7.00	90.00	4,979.4	0.0	344.3	17.1	0.00	0.00	0.00	
5,100.0	7.00	90.00	5,078.6	0.0	356.5	17.7	0.00	0.00	0.00	
5,200.0	7.00	90.00	5,177.9	0.0	368.7	18.3	0.00	0.00	0.00	
5,300.0	7.00	90.00	5,277.1	0.0	380.9	18.9	0.00	0.00	0.00	
5,400.0	7.00	90.00	5,376.4	0.0	393.1	19.5	0.00	0.00	0.00	
5,471.7	7.00	90.00	5,447.6	0.0	401.8	20.0	0.00	0.00	0.00	
Start Drop -1.00										
5,500.0	6.72	90.00	5,475.7	0.0	405.2	20.1	1.00	-1.00	0.00	
5,600.0	5.72	90.00	5,575.1	0.0	416.0	20.7	1.00	-1.00	0.00	
5,700.0	4.72	90.00	5,674.7	0.0	425.1	21.1	1.00	-1.00	0.00	
5,800.0	3.72	90.00	5,774.4	0.0	432.4	21.5	1.00	-1.00	0.00	
5,900.0	2.72	90.00	5,874.2	0.0	438.1	21.8	1.00	-1.00	0.00	
6,000.0	1.72	90.00	5,974.1	0.0	441.9	21.9	1.00	-1.00	0.00	
6,100.0	0.72	90.00	6,074.1	0.0	444.1	22.1	1.00	-1.00	0.00	
6,171.7	0.00	0.00	6,145.8	0.0	444.5	22.1	1.00	-1.00	-125.53	
Start 5281.7 hold at 6170.7 MD										
6,200.0	0.00	0.00	6,174.1	0.0	444.5	22.1	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,274.1	0.0	444.5	22.1	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,374.1	0.0	444.5	22.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,474.1	0.0	444.5	22.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,574.1	0.0	444.5	22.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,674.1	0.0	444.5	22.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,774.1	0.0	444.5	22.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,874.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,974.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,074.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,174.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,274.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,374.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,474.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,574.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,674.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,774.1	0.0	444.5	22.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,874.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,974.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,074.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,174.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,274.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,374.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,474.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,574.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,674.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,774.1	0.0	444.5	22.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,874.1	0.0	444.5	22.1	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #103H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
9,000.0	0.00	0.00	8,974.1	0.0	444.5	22.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,074.1	0.0	444.5	22.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,174.1	0.0	444.5	22.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,274.1	0.0	444.5	22.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,374.1	0.0	444.5	22.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,474.1	0.0	444.5	22.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,574.1	0.0	444.5	22.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,674.1	0.0	444.5	22.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,774.1	0.0	444.5	22.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,874.1	0.0	444.5	22.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,974.1	0.0	444.5	22.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,074.1	0.0	444.5	22.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,174.1	0.0	444.5	22.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,274.1	0.0	444.5	22.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,374.1	0.0	444.5	22.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,474.1	0.0	444.5	22.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,574.1	0.0	444.5	22.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,674.1	0.0	444.5	22.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,774.1	0.0	444.5	22.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,874.1	0.0	444.5	22.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,974.1	0.0	444.5	22.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,074.1	0.0	444.5	22.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,174.1	0.0	444.5	22.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,274.1	0.0	444.5	22.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,374.1	0.0	444.5	22.1	0.00	0.00	0.00
11,452.4	0.00	0.00	11,426.5	0.0	444.5	22.1	0.00	0.00	0.00
11,453.4	0.12	359.64	11,427.5	0.0	444.5	22.1	12.00	12.00	0.00
Start DLS 12.00 TFO 359.64									
11,475.0	2.71	359.64	11,449.1	0.5	444.5	22.6	12.00	12.00	0.00
11,500.0	5.71	359.64	11,474.0	2.4	444.5	24.4	12.00	12.00	0.00
11,525.0	8.71	359.64	11,498.8	5.5	444.5	27.6	12.00	12.00	0.00
11,550.0	11.71	359.64	11,523.4	9.9	444.4	32.0	12.00	12.00	0.00
11,575.0	14.71	359.64	11,547.8	15.7	444.4	37.7	12.00	12.00	0.00
11,600.0	17.71	359.64	11,571.8	22.6	444.4	44.7	12.00	12.00	0.00
11,625.0	20.71	359.64	11,595.4	30.9	444.3	52.9	12.00	12.00	0.00
11,650.0	23.71	359.64	11,618.5	40.3	444.2	62.3	12.00	12.00	0.00
11,675.0	26.71	359.64	11,641.1	51.0	444.2	73.0	12.00	12.00	0.00
11,700.0	29.71	359.64	11,663.2	62.8	444.1	84.8	12.00	12.00	0.00
11,725.0	32.71	359.64	11,684.5	75.7	444.0	97.7	12.00	12.00	0.00
11,750.0	35.71	359.64	11,705.2	89.8	443.9	111.7	12.00	12.00	0.00
11,775.0	38.71	359.64	11,725.1	104.9	443.8	126.8	12.00	12.00	0.00
11,800.0	41.71	359.64	11,744.2	121.0	443.7	142.9	12.00	12.00	0.00
11,825.0	44.71	359.64	11,762.4	138.2	443.6	160.0	12.00	12.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #103H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)	
11,850.0	47.71	359.64	11,779.7	156.2	443.5	178.0	12.00	12.00	0.00	
11,875.0	50.71	359.64	11,796.1	175.1	443.4	196.9	12.00	12.00	0.00	
11,900.0	53.71	359.64	11,811.4	194.9	443.3	216.7	12.00	12.00	0.00	
11,925.0	56.71	359.64	11,825.6	215.4	443.1	237.2	12.00	12.00	0.00	
11,950.0	59.71	359.64	11,838.8	236.7	443.0	258.4	12.00	12.00	0.00	
11,975.0	62.71	359.64	11,850.8	258.6	442.9	280.3	12.00	12.00	0.00	
12,000.0	65.71	359.64	11,861.7	281.1	442.7	302.7	12.00	12.00	0.00	
12,025.0	68.71	359.64	11,871.4	304.1	442.6	325.7	12.00	12.00	0.00	
12,050.0	71.71	359.64	11,879.9	327.7	442.4	349.2	12.00	12.00	0.00	
12,075.0	74.71	359.64	11,887.1	351.6	442.3	373.1	12.00	12.00	0.00	
12,100.0	77.71	359.64	11,893.0	375.9	442.1	397.4	12.00	12.00	0.00	
12,125.0	80.71	359.64	11,897.7	400.4	442.0	421.9	12.00	12.00	0.00	
12,150.0	83.71	359.64	11,901.1	425.2	441.8	446.6	12.00	12.00	0.00	
12,175.0	86.71	359.64	11,903.2	450.1	441.7	471.5	12.00	12.00	0.00	
12,202.4	90.00	359.64	11,904.0	477.5	441.5	498.8	12.00	12.00	0.00	
12,203.4	90.00	359.64	11,904.0	478.5	441.5	499.8	0.00	0.00	0.00	
Start 7455.6 hold at 12202.4 MD										
12,300.0	90.00	359.64	11,904.0	575.1	440.9	596.3	0.00	0.00	0.00	
12,400.0	90.00	359.64	11,904.0	675.1	440.2	696.1	0.00	0.00	0.00	
12,500.0	90.00	359.64	11,904.0	775.1	439.6	795.9	0.00	0.00	0.00	
12,600.0	90.00	359.64	11,904.0	875.1	439.0	895.8	0.00	0.00	0.00	
12,700.0	90.00	359.64	11,904.0	975.1	438.4	995.6	0.00	0.00	0.00	
12,800.0	90.00	359.64	11,904.0	1,075.1	437.7	1,095.5	0.00	0.00	0.00	
12,900.0	90.00	359.64	11,904.0	1,175.1	437.1	1,195.3	0.00	0.00	0.00	
13,000.0	90.00	359.64	11,904.0	1,275.1	436.5	1,295.2	0.00	0.00	0.00	
13,100.0	90.00	359.64	11,904.0	1,375.1	435.8	1,395.0	0.00	0.00	0.00	
13,200.0	90.00	359.64	11,904.0	1,475.1	435.2	1,494.9	0.00	0.00	0.00	
13,300.0	90.00	359.64	11,904.0	1,575.1	434.6	1,594.7	0.00	0.00	0.00	
13,400.0	90.00	359.64	11,904.0	1,675.1	433.9	1,694.5	0.00	0.00	0.00	
13,500.0	90.00	359.64	11,904.0	1,775.1	433.3	1,794.4	0.00	0.00	0.00	
13,600.0	90.00	359.64	11,904.0	1,875.0	432.7	1,894.2	0.00	0.00	0.00	
13,700.0	90.00	359.64	11,904.0	1,975.0	432.0	1,994.1	0.00	0.00	0.00	
13,800.0	90.00	359.64	11,904.0	2,075.0	431.4	2,093.9	0.00	0.00	0.00	
13,900.0	90.00	359.64	11,904.0	2,175.0	430.8	2,193.8	0.00	0.00	0.00	
14,000.0	90.00	359.64	11,904.0	2,275.0	430.2	2,293.6	0.00	0.00	0.00	
14,100.0	90.00	359.64	11,904.0	2,375.0	429.5	2,393.4	0.00	0.00	0.00	
14,200.0	90.00	359.64	11,904.0	2,475.0	428.9	2,493.3	0.00	0.00	0.00	
14,300.0	90.00	359.64	11,904.0	2,575.0	428.3	2,593.1	0.00	0.00	0.00	
14,400.0	90.00	359.64	11,904.0	2,675.0	427.6	2,693.0	0.00	0.00	0.00	
14,500.0	90.00	359.64	11,904.0	2,775.0	427.0	2,792.8	0.00	0.00	0.00	
14,600.0	90.00	359.64	11,904.0	2,875.0	426.4	2,892.7	0.00	0.00	0.00	
14,700.0	90.00	359.64	11,904.0	2,975.0	425.7	2,992.5	0.00	0.00	0.00	
14,800.0	90.00	359.64	11,904.0	3,075.0	425.1	3,092.3	0.00	0.00	0.00	
14,900.0	90.00	359.64	11,904.0	3,175.0	424.5	3,192.2	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #103H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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)
15,000.0	90.00	359.64	11,904.0	3,275.0	423.8	3,292.0	0.00	0.00	0.00
15,100.0	90.00	359.64	11,904.0	3,375.0	423.2	3,391.9	0.00	0.00	0.00
15,200.0	90.00	359.64	11,904.0	3,475.0	422.6	3,491.7	0.00	0.00	0.00
15,300.0	90.00	359.64	11,904.0	3,575.0	422.0	3,591.6	0.00	0.00	0.00
15,400.0	90.00	359.64	11,904.0	3,675.0	421.3	3,691.4	0.00	0.00	0.00
15,500.0	90.00	359.64	11,904.0	3,775.0	420.7	3,791.2	0.00	0.00	0.00
15,600.0	90.00	359.64	11,904.0	3,875.0	420.1	3,891.1	0.00	0.00	0.00
15,700.0	90.00	359.64	11,904.0	3,975.0	419.4	3,990.9	0.00	0.00	0.00
15,800.0	90.00	359.64	11,904.0	4,075.0	418.8	4,090.8	0.00	0.00	0.00
15,900.0	90.00	359.64	11,904.0	4,175.0	418.2	4,190.6	0.00	0.00	0.00
16,000.0	90.00	359.64	11,904.0	4,275.0	417.5	4,290.5	0.00	0.00	0.00
16,100.0	90.00	359.64	11,904.0	4,375.0	416.9	4,390.3	0.00	0.00	0.00
16,200.0	90.00	359.64	11,904.0	4,475.0	416.3	4,490.1	0.00	0.00	0.00
16,300.0	90.00	359.64	11,904.0	4,575.0	415.7	4,590.0	0.00	0.00	0.00
16,400.0	90.00	359.64	11,904.0	4,675.0	415.0	4,689.8	0.00	0.00	0.00
16,500.0	90.00	359.64	11,904.0	4,775.0	414.4	4,789.7	0.00	0.00	0.00
16,600.0	90.00	359.64	11,904.0	4,875.0	413.8	4,889.5	0.00	0.00	0.00
16,700.0	90.00	359.64	11,904.0	4,975.0	413.1	4,989.4	0.00	0.00	0.00
16,800.0	90.00	359.64	11,904.0	5,075.0	412.5	5,089.2	0.00	0.00	0.00
16,900.0	90.00	359.64	11,904.0	5,175.0	411.9	5,189.1	0.00	0.00	0.00
17,000.0	90.00	359.64	11,904.0	5,275.0	411.2	5,288.9	0.00	0.00	0.00
17,100.0	90.00	359.64	11,904.0	5,375.0	410.6	5,388.7	0.00	0.00	0.00
17,200.0	90.00	359.64	11,904.0	5,475.0	410.0	5,488.6	0.00	0.00	0.00
17,300.0	90.00	359.64	11,904.0	5,575.0	409.3	5,588.4	0.00	0.00	0.00
17,400.0	90.00	359.64	11,904.0	5,675.0	408.7	5,688.3	0.00	0.00	0.00
17,500.0	90.00	359.64	11,904.0	5,775.0	408.1	5,788.1	0.00	0.00	0.00
17,600.0	90.00	359.64	11,904.0	5,875.0	407.5	5,888.0	0.00	0.00	0.00
17,700.0	90.00	359.64	11,904.0	5,975.0	406.8	5,987.8	0.00	0.00	0.00
17,800.0	90.00	359.64	11,904.0	6,075.0	406.2	6,087.6	0.00	0.00	0.00
17,900.0	90.00	359.64	11,904.0	6,175.0	405.6	6,187.5	0.00	0.00	0.00
18,000.0	90.00	359.64	11,904.0	6,275.0	404.9	6,287.3	0.00	0.00	0.00
18,100.0	90.00	359.64	11,904.0	6,375.0	404.3	6,387.2	0.00	0.00	0.00
18,200.0	90.00	359.64	11,904.0	6,475.0	403.7	6,487.0	0.00	0.00	0.00
18,300.0	90.00	359.64	11,904.0	6,575.0	403.0	6,586.9	0.00	0.00	0.00
18,400.0	90.00	359.64	11,904.0	6,675.0	402.4	6,686.7	0.00	0.00	0.00
18,500.0	90.00	359.64	11,904.0	6,775.0	401.8	6,786.5	0.00	0.00	0.00
18,600.0	90.00	359.64	11,904.0	6,874.9	401.2	6,886.4	0.00	0.00	0.00
18,700.0	90.00	359.64	11,904.0	6,974.9	400.5	6,986.2	0.00	0.00	0.00
18,800.0	90.00	359.64	11,904.0	7,074.9	399.9	7,086.1	0.00	0.00	0.00
18,900.0	90.00	359.64	11,904.0	7,174.9	399.3	7,185.9	0.00	0.00	0.00
19,000.0	90.00	359.64	11,904.0	7,274.9	398.6	7,285.8	0.00	0.00	0.00
19,100.0	90.00	359.64	11,904.0	7,374.9	398.0	7,385.6	0.00	0.00	0.00
19,200.0	90.00	359.64	11,904.0	7,474.9	397.4	7,485.4	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #103H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3185.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3185.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #103H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,300.0	90.00	359.64	11,904.0	7,574.9	396.7	7,585.3	0.00	0.00	0.00
19,400.0	90.00	359.64	11,904.0	7,674.9	396.1	7,685.1	0.00	0.00	0.00
19,500.0	90.00	359.64	11,904.0	7,774.9	395.5	7,785.0	0.00	0.00	0.00
19,600.0	90.00	359.64	11,904.0	7,874.9	394.8	7,884.8	0.00	0.00	0.00
19,658.0	90.00	359.64	11,904.0	7,932.9	394.5	7,942.7	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP(ZIA HILLS 20 FE	0.00	0.00	11,904.0	329.8	442.4	374,888.75	698,361.81	32° 1' 44.645 N	103° 41' 35.698 W
- plan misses target center by 22.3usft at 12059.0usft MD (11882.6 TVD, 336.3 N, 442.4 E)									
- Circle (radius 50.0)									
LTP(ZIA HILLS 20 FE	0.00	0.00	11,904.0	7,882.9	394.8	382,441.83	698,314.20	32° 2' 59.394 N	103° 41' 35.731 W
- plan misses target center by 8.0usft at 19600.0usft MD (11904.0 TVD, 7874.9 N, 394.8 E)									
- Point									
PBHL(ZIA HILLS 20 F	0.00	179.64	11,904.0	7,932.9	394.5	382,491.83	698,313.84	32° 2' 59.889 N	103° 41' 35.732 W
- plan hits target center									
- Rectangle (sides W100.0 H7,935.0 D20.0)									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2000	2000	0	0	Start Build 2.00
2350	2349	0	21	Start 3121.7 hold at 2349.0 MD
5472	5448	0	402	Start Drop -1.00
6172	6146	0	445	Start 5281.7 hold at 6170.7 MD
11,453	11,428	0	445	Start DLS 12.00 TFO 359.64
12,203	11,905	477	441	Start 7455.6 hold at 12202.4 MD
19,659	11,905	7933	394	TD at 19658.0

Checked By: _____	Approved By: _____	Date: _____
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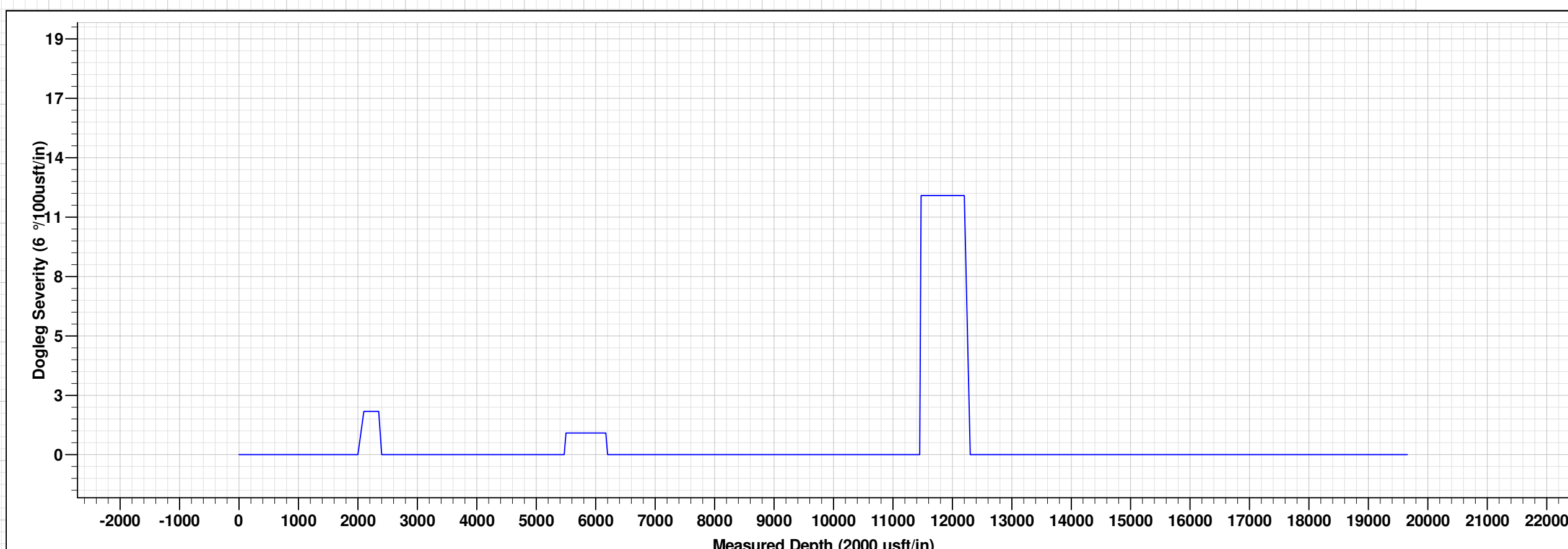
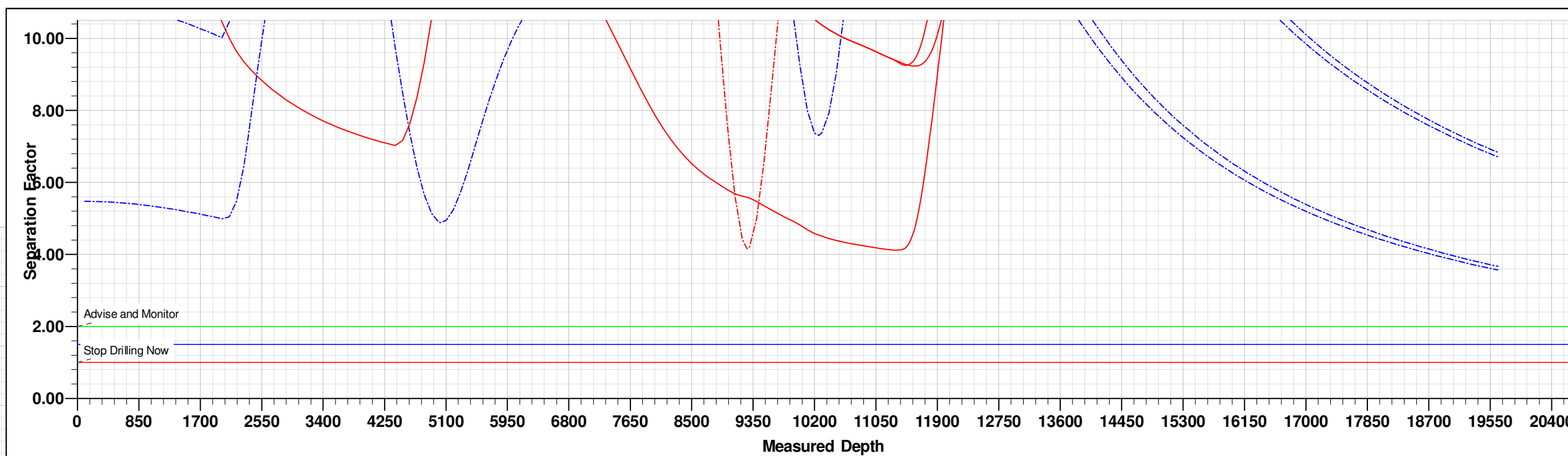
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS 20 FED COM PROJECT
Well: ZIA HILLS 20 FED COM #103H
Wellbore: OWB
Design: PWP1
GL: 3154.1
KB=31' @ 3185.1usft (N 894)

WELL DETAILS: ZIA HILLS 20 FED COM #103H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374558.93	697919.36	32° 1' 41.407 N	103° 41' 40.860 W

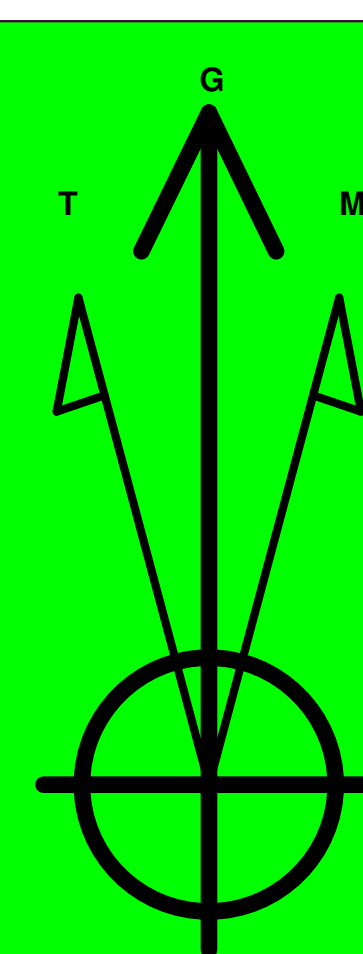
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP(ZIA HILLS 20 FED COM #103H)	11904.0	329.8	442.5	374888.75	698361.81	32° 1' 44.645 N	103° 41' 35.698 W
LTP(ZIA HILLS 20 FED COM #103H)	11904.0	7882.9	394.8	382441.83	698314.20	32° 2' 59.394 N	103° 41' 35.731 W
PBHL(ZIA HILLS 20 FED COM #103H)	11904.0	7932.9	394.5	382491.83	698313.84	32° 2' 59.889 N	103° 41' 35.732 W



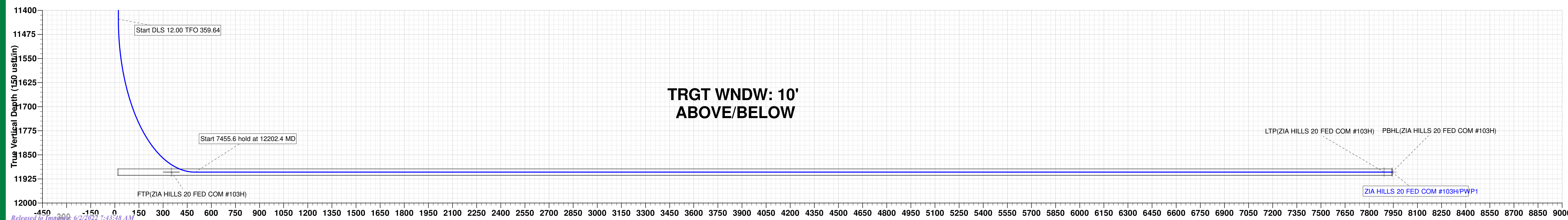
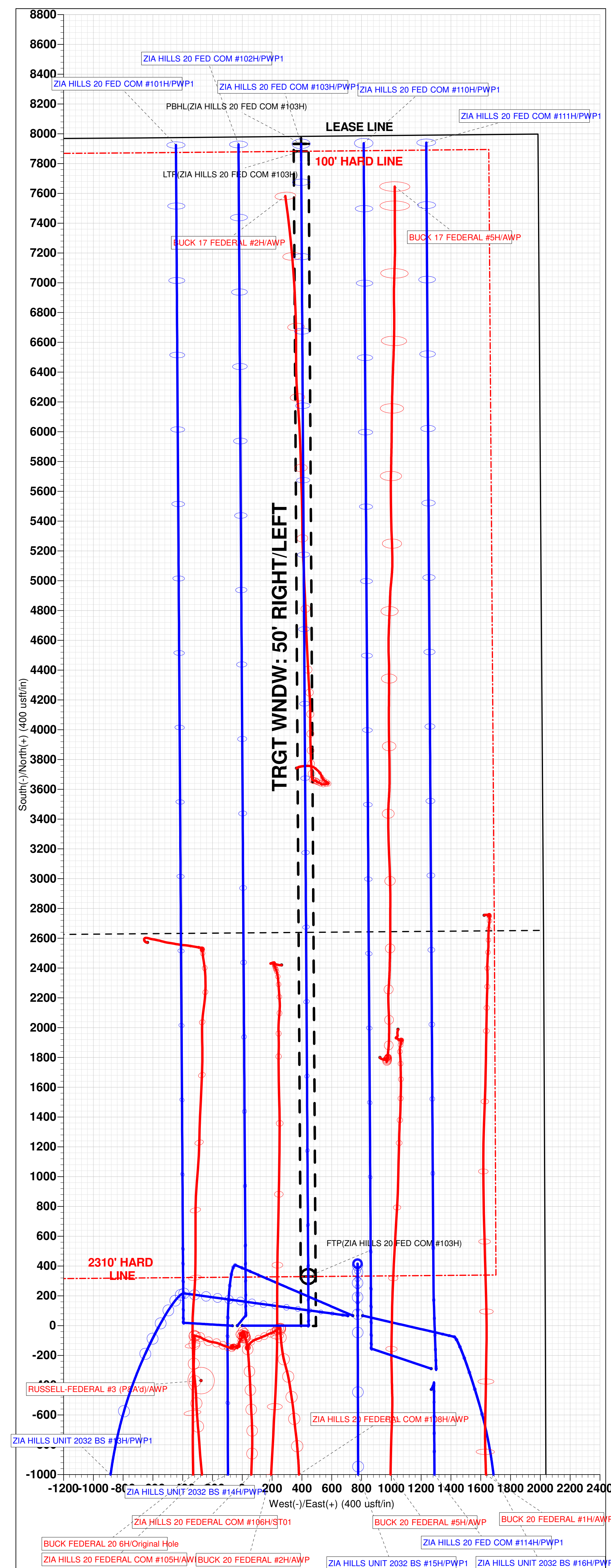
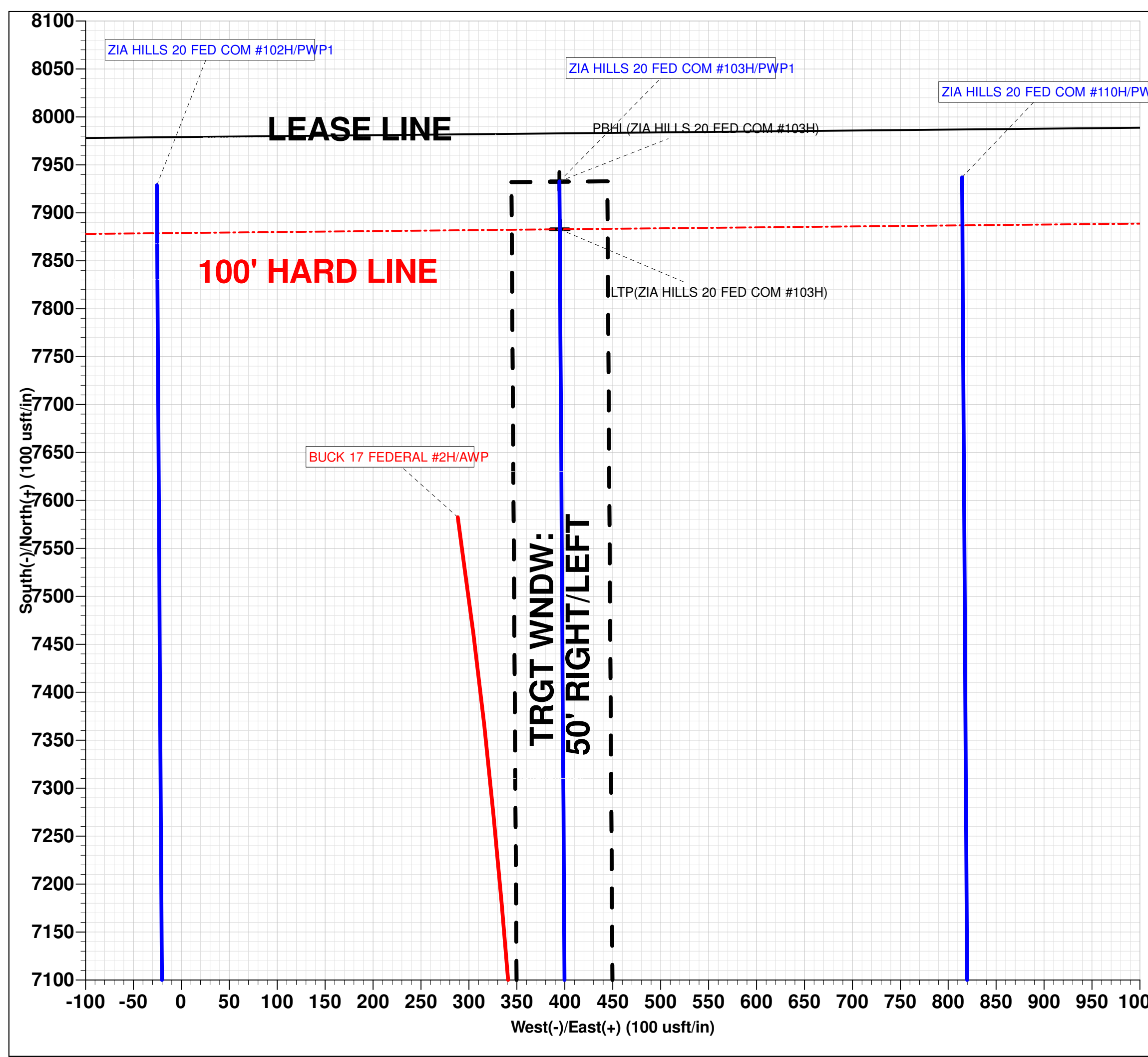
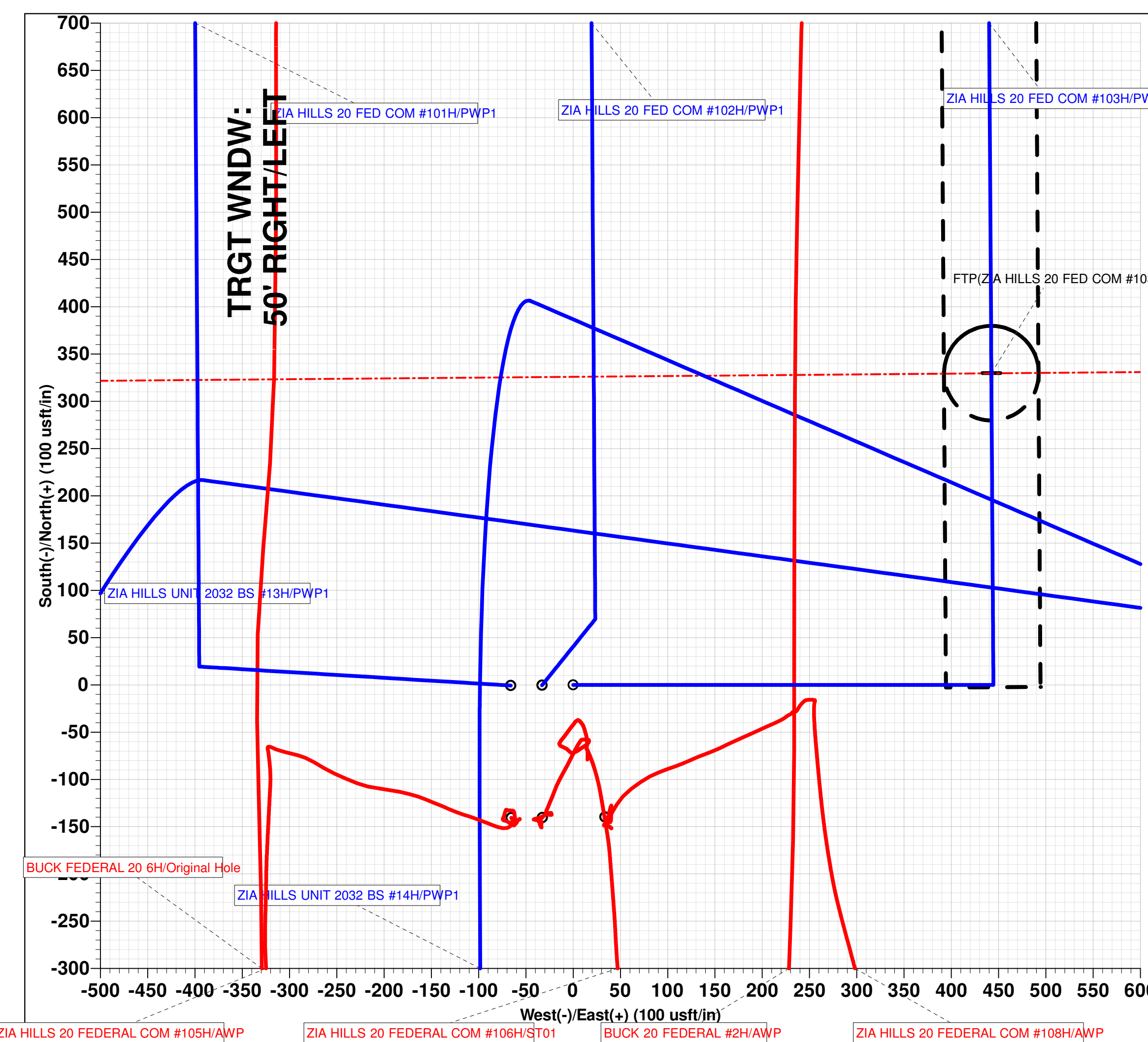
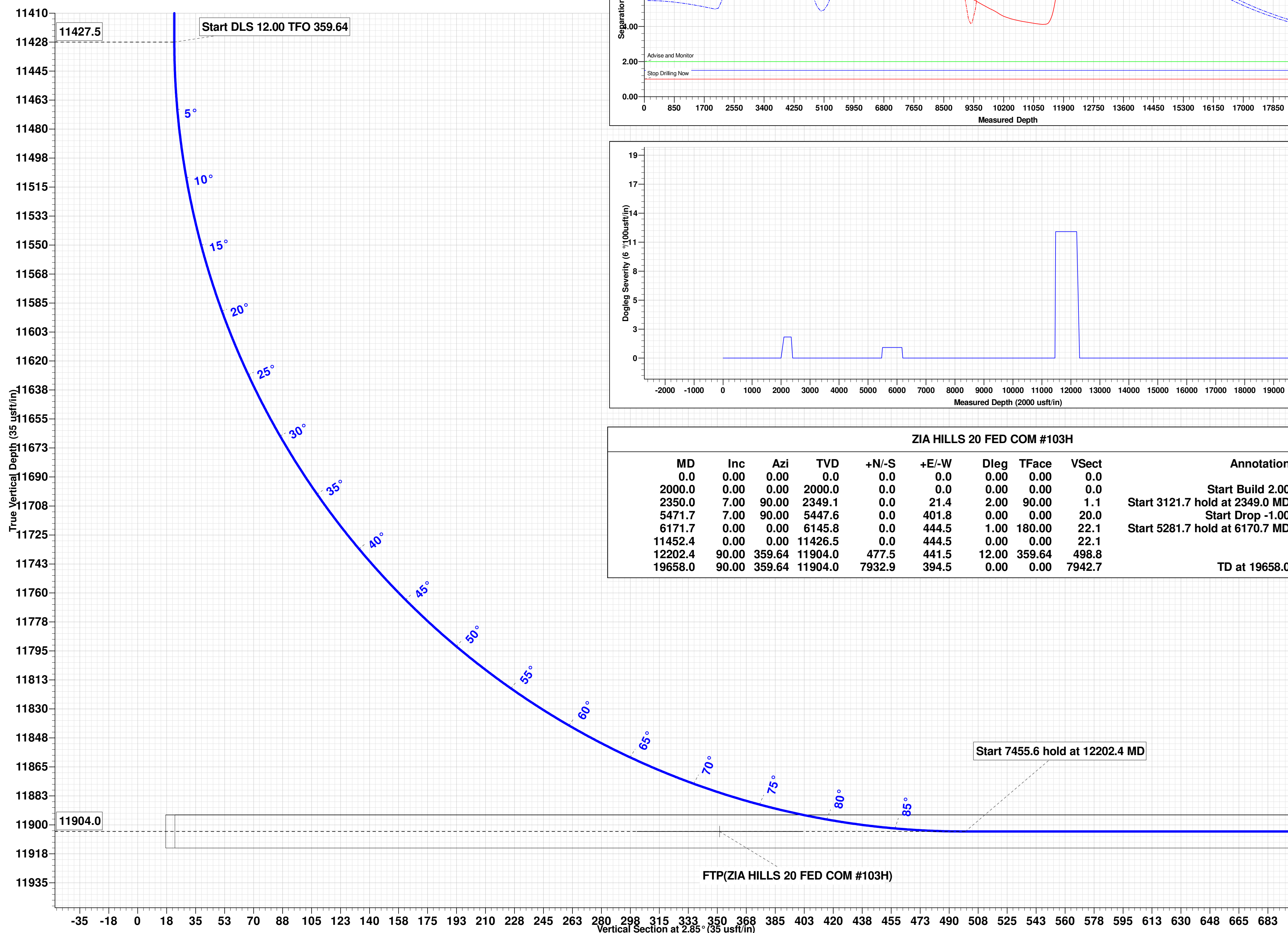
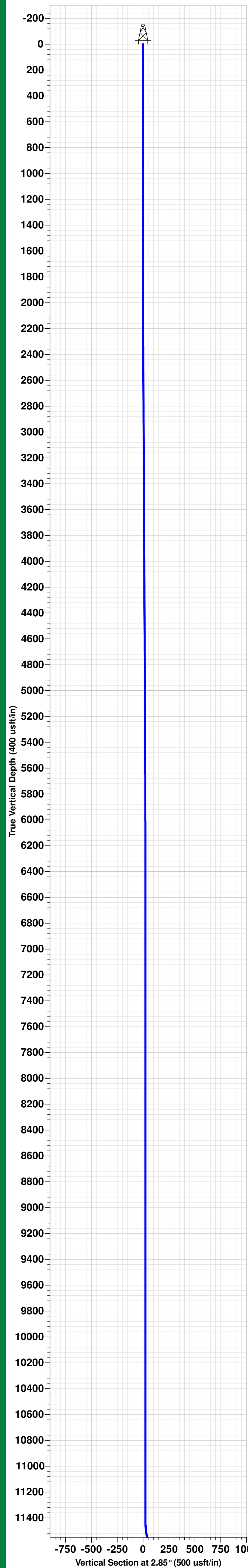
ZIA HILLS 20 FED COM #103H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2350.0	7.00	90.00	2349.1	0.0	21.4	2.00	90.00	1.1	Start 3121.7 hold at 2349.0 MD
5471.7	7.00	90.00	5447.6	0.0	401.8	0.00	0.00	20.0	Start Drop -1.00
6171.7	0.00	0.00	6145.8	0.0	444.5	1.00	180.00	22.1	
11452.4	0.00	0.00	11426.5	0.0	444.5	0.00	0.00	22.1	
12202.4	90.00	359.64	11904.0	477.5	441.5	12.00	359.64	498.8	
19658.0	90.00	359.64	11904.0	7932.9	394.5	0.00	0.00	7942.7	TD at 19658.0



Azimuths to Grid North
True North: -0.34°
Magnetic North: 6.13°

Magnetic Field
Strength: 47444.1nT
Dip Angle: 59.59°
Date: 2/17/2022
Model: BGGM2021



TRGT WNDW: 10°
ABOVE/BELOW

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 110909

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 110909
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	PREVIOUS COA'S APPLY	6/2/2022