

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: NESE / 2410 FSL / 701 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.027478 / LONG: -103.690856 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2371 FNL / 330 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.029033 / LONG: -103.689656 (TVD: 11792 feet, MD: 11900 feet)

BHL: NENE / 50 FNL / 330 FEL / TWSP: 26S / RANGE: 32E / SECTION: 17 / LAT: 32.050108 / LONG: -103.689664 (TVD: 11880 feet, MD: 19546 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 30-025-45721	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code	5 Property Name ZIA HILLS 20 FED COM	6 Well Number 112H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3142'

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
I	20	26-S	32-E		2410'	SOUTH	701'	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
A	17	26-S	32-E		50'	NORTH	330'	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' SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=740440.57 LAT.= 32.02748030° N Y=374328.03 LONG.= -103.69085487° W 2410' FSL, 701' FEL - SECTION 20 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=740808.89 LAT.= 32.02920173° N Y=374956.47 LONG.= -103.68965435° W 2310' FNL, 330' FEL - SECTION 20 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=740760.94 LAT.= 32.04996972° N Y=382511.44 LONG.= -103.68966379° W 100' FNL, 330' FEL - SECTION 17 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=740760.57 LAT.= 32.05010717° N Y=382561.44 LONG.= -103.68966400° W 50' FNL, 330' FEL - SECTION 17	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> 4/7/22 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. MARK J. MURRAY NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 12177 Date of Survey Signature and Seal of Professional Surveyor 3/18/2022 Certificate Number
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ConocoPhillips - Zia Hills 20 Fed Com 112H

1. Geologic Formations

TVD of target	11,732' EOL	Pilot hole depth	NA
MD at TD:	19,647'	Deepest expected fresh water:	405'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1068	Water	
Top of Salt	1401	Salt	
Base of Salt	4110	Salt	
Lamar	4308	Salt Water	
Bell Canyon	4364	Salt Water	
Cherry Canyon	5259	Oil/Gas	
Brushy Canyon	6796	Oil/Gas	
Bone Spring	8360	Oil/Gas	
1st Bone Spring Sand	9328	Oil/Gas	
2nd Bone Spring Sand	9988	Oil/Gas	
3rd Bone Spring Carb	10405	Oil/Gas	
3rd Bone Spring Sand	11122	Oil/Gas	
Wolfcamp	11553	Oil/Gas	
Wolfcamp A	11762	Target - Oil/Gas	
Wolfcamp B	12087	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	1351	10.75"	45.5	J55	BTC	3.38	1.14	12.95	12.95
9.875"	0	8500	7.625"	29.7	L80	BTC	1.48	1.07	2.71	2.85
8.750"	8500	11072	7.625"	29.7	P110	Wedge 513	1.42	1.51	2.86	1.72
6.75"	0	10872	5.5"	23	P110	TXP BTC	1.91	2.25	2.70	2.70
6.75"	10872	19,647	5.5"	23	P110	Wedge 441	1.91	2.25	2.70	2.45
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

The 5.5" 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 112H

	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 112H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	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	505	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	827	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)

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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 112H

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 112H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7630 psi at 11732' 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 #112H

OWB

PWP1

Anticollision Report

05 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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	11,275.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,275.0	19,647.7	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						
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FED COM #110H - OWB - PWP1	2,416.6	2,416.7	66.2	59.4	9.681	CC
ZIA HILLS 20 FED COM #110H - OWB - PWP1	2,500.0	2,500.0	66.2	59.3	9.602	ES
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,648.6	19,639.6	840.0	714.4	6.688	SF
ZIA HILLS 20 FED COM #111H - OWB - PWP1	2,500.0	2,500.2	33.2	26.3	4.819	CC, ES
ZIA HILLS 20 FED COM #111H - OWB - PWP1	19,648.6	19,919.4	450.1	321.8	3.508	SF
ZIA HILLS 20 FED COM #114H - OWB - PWP1	2,642.3	2,646.5	154.8	146.1	17.800	CC, ES
ZIA HILLS 20 FED COM #114H - OWB - PWP1	2,700.0	2,704.1	155.3	146.5	17.694	SF
ZIA HILLS 20 FED COM #115H - OWB - PWP1	2,500.0	2,499.3	144.6	135.9	16.616	CC
ZIA HILLS 20 FED COM #115H - OWB - PWP1	3,400.0	3,407.5	145.6	135.8	14.855	ES
ZIA HILLS 20 FED COM #115H - OWB - PWP1	11,275.8	11,282.9	181.9	156.5	7.184	SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #1H - OWB - AWP	9,280.8	11,780.2	95.9	36.9	1.625	Advise and Monitor, CC, I
BUCK 20 FEDERAL #5H - OWB - AWP	8,851.5	10,562.7	732.9	686.4	15.792	CC, ES
BUCK 20 FEDERAL #5H - OWB - AWP	8,900.0	10,563.8	734.5	687.9	15.766	SF
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,416.6	2,416.9	718.9	706.3	57.016	CC
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,500.0	2,500.0	718.9	706.0	55.587	ES
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,800.0	2,741.6	741.3	727.6	53.973	SF
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	2,500.0	2,499.2	690.5	683.1	92.776	CC, ES
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	2,600.0	2,580.0	693.0	685.5	92.194	SF
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	2,500.0	2,499.5	662.5	649.5	51.055	CC, ES
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	10,300.0	10,610.0	960.6	915.2	21.151	SF
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,143.0	10,203.9	251.2	229.8	11.708	CC, ES
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,300.0	10,278.2	283.7	257.2	10.685	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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,648.6	19,639.6	840.0	714.4	6.688	SF
ZIA HILLS 20 FED COM #111H - OWB - PWP1	19,648.6	19,919.4	450.1	321.8	3.508	SF
ZIA HILLS 20 FED COM #114H - OWB - PWP1	19,648.6	11,275.0				Out of Range @TD
ZIA HILLS 20 FED COM #115H - OWB - PWP1	19,648.6	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #1H - OWB - AWP	19,648.6	8,800.0				Out of Range @TD
BUCK 20 FEDERAL #5H - OWB - AWP	19,648.6	8,439.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	19,648.6	9,950.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	19,648.6	9,900.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	19,648.6	9,875.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	19,648.6	9,900.0				Out of Range @TD

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 Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Rule Assigned: Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
0.0	0.0	0.1	0.1	3.0	3.0	-90.86	-1.0	-66.2	66.2	60.2	6.00	11.036	
100.0	100.0	100.1	100.1	3.0	3.0	-90.86	-1.0	-66.2	66.2	60.2	6.00	11.031	
200.0	200.0	200.1	200.1	3.0	3.0	-90.86	-1.0	-66.2	66.2	60.2	6.01	11.020	
300.0	300.0	300.1	300.1	3.0	3.0	-90.86	-1.0	-66.2	66.2	60.2	6.02	11.003	
400.0	400.0	400.1	400.1	3.0	3.0	-90.86	-1.0	-66.2	66.2	60.2	6.03	10.980	
500.0	500.0	500.1	500.1	3.1	3.1	-90.86	-1.0	-66.2	66.2	60.2	6.05	10.952	
600.0	600.0	600.1	600.1	3.1	3.1	-90.86	-1.0	-66.2	66.2	60.2	6.07	10.918	
700.0	700.0	700.1	700.1	3.2	3.2	-90.86	-1.0	-66.2	66.2	60.1	6.09	10.878	
800.0	800.0	800.1	800.1	3.2	3.2	-90.86	-1.0	-66.2	66.2	60.1	6.11	10.834	
900.0	900.0	900.1	900.1	3.2	3.2	-90.86	-1.0	-66.2	66.2	60.1	6.14	10.784	
1,000.0	1,000.0	1,000.1	1,000.1	3.3	3.3	-90.86	-1.0	-66.2	66.2	60.0	6.17	10.729	
1,100.0	1,100.0	1,100.1	1,100.1	3.4	3.4	-90.86	-1.0	-66.2	66.2	60.0	6.21	10.670	
1,200.0	1,200.0	1,200.1	1,200.1	3.4	3.4	-90.86	-1.0	-66.2	66.2	60.0	6.24	10.607	
1,300.0	1,300.0	1,300.1	1,300.1	3.5	3.5	-90.86	-1.0	-66.2	66.2	59.9	6.28	10.539	
1,400.0	1,400.0	1,400.1	1,400.1	3.5	3.5	-90.86	-1.0	-66.2	66.2	59.9	6.33	10.468	
1,500.0	1,500.0	1,500.1	1,500.1	3.6	3.6	-90.86	-1.0	-66.2	66.2	59.8	6.37	10.393	
1,600.0	1,600.0	1,600.1	1,600.1	3.7	3.7	-90.86	-1.0	-66.2	66.2	59.8	6.42	10.315	
1,700.0	1,700.0	1,700.1	1,700.1	3.8	3.8	-90.86	-1.0	-66.2	66.2	59.7	6.47	10.234	
1,800.0	1,800.0	1,800.1	1,800.1										

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)				
1,900.0	1,900.0	1,900.1	1,900.1	3.9	3.9	-90.86	-1.0	-66.2	66.2	59.7	6.52	10.150		
2,000.0	2,000.0	2,000.1	2,000.1	3.9	3.9	-90.86	-1.0	-66.2	66.2	59.6	6.58	10.063		
2,100.0	2,100.0	2,100.1	2,100.1	4.0	4.0	-90.86	-1.0	-66.2	66.2	59.6	6.64	9.974		
2,200.0	2,200.0	2,200.1	2,200.1	4.1	4.1	-90.86	-1.0	-66.2	66.2	59.5	6.70	9.883		
2,300.0	2,300.0	2,300.1	2,300.1	4.2	4.2	-90.86	-1.0	-66.2	66.2	59.5	6.76	9.791		
2,400.0	2,400.0	2,400.1	2,400.1	4.3	4.3	-90.86	-1.0	-66.2	66.2	59.4	6.83	9.697		
2,416.6	2,416.6	2,416.7	2,416.7	4.3	4.3	-90.86	-1.0	-66.2	66.2	59.4	6.84	9.681 CC		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-90.86	-1.0	-66.2	66.2	59.3	6.90	9.602 ES		
2,600.0	2,600.0	2,597.9	2,597.8	4.5	4.5	-162.16	-0.5	-67.8	69.5	62.5	6.97	9.976		
2,700.0	2,699.8	2,695.0	2,694.8	4.5	4.5	-162.03	1.1	-72.5	79.3	72.2	7.04	11.261		
2,800.0	2,799.5	2,790.9	2,790.4	4.6	4.6	-161.87	3.7	-80.2	95.5	88.4	7.12	13.410		
2,900.0	2,898.9	2,888.7	2,887.6	4.6	4.6	-161.77	7.0	-89.9	115.2	108.0	7.22	15.969		
3,000.0	2,998.4	2,986.7	2,985.1	4.7	4.7	-161.70	10.2	-99.6	134.9	127.6	7.32	18.445		
3,100.0	3,097.8	3,084.7	3,082.6	4.8	4.7	-161.65	13.5	-109.3	154.6	147.2	7.42	20.835		
3,200.0	3,197.3	3,182.8	3,180.1	4.8	4.8	-161.61	16.7	-119.0	174.4	166.8	7.54	23.137		
3,300.0	3,296.7	3,280.8	3,277.6	4.9	4.9	-161.58	20.0	-128.7	194.1	186.4	7.66	25.349		
3,400.0	3,396.2	3,378.8	3,375.1	5.0	4.9	-161.55	23.3	-138.4	213.8	206.0	7.78	27.471		
3,500.0	3,495.6	3,476.9	3,472.6	5.0	5.0	-161.53	26.5	-148.2	233.5	225.6	7.91	29.503		
3,600.0	3,595.1	3,574.9	3,570.1	5.1	5.1	-161.51	29.8	-157.9	253.2	245.2	8.05	31.447		
3,700.0	3,694.5	3,673.0	3,667.6	5.2	5.2	-161.50	33.1	-167.6	272.9	264.7	8.20	33.304		
3,800.0	3,794.0	3,771.0	3,765.1	5.3	5.2	-161.49	36.3	-177.3	292.7	284.3	8.34	35.075		
3,900.0	3,893.4	3,869.0	3,862.6	5.4	5.3	-161.47	39.6	-187.0	312.4	303.9	8.50	36.765		
4,000.0	3,992.9	3,967.1	3,960.1	5.4	5.4	-161.46	42.8	-196.7	332.1	323.4	8.65	38.374		
4,100.0	4,092.3	4,065.1	4,057.6	5.5	5.5	-161.45	46.1	-206.4	351.8	343.0	8.82	39.906		
4,200.0	4,191.8	4,163.1	4,155.1	5.6	5.6	-161.45	49.4	-216.2	371.5	362.5	8.98	41.363		
4,300.0	4,291.2	4,261.2	4,252.6	5.7	5.7	-161.44	52.6	-225.9	391.2	382.1	9.15	42.750		
4,400.0	4,390.7	4,359.2	4,350.1	5.8	5.8	-161.43	55.9	-235.6	410.9	401.6	9.33	44.068		
4,500.0	4,490.1	4,457.3	4,447.6	5.9	5.9	-161.43	59.2	-245.3	430.7	421.2	9.50	45.321		
4,600.0	4,589.6	4,555.3	4,545.1	6.0	5.9	-161.42	62.4	-255.0	450.4	440.7	9.68	46.511		
4,700.0	4,689.0	4,653.3	4,642.6	6.1	6.0	-161.41	65.7	-264.7	470.1	460.2	9.87	47.643		
4,800.0	4,788.5	4,751.4	4,740.1	6.2	6.1	-161.41	68.9	-274.4	489.8	479.8	10.05	48.718		
4,900.0	4,887.9	4,849.4	4,837.6	6.3	6.2	-161.41	72.2	-284.2	509.5	499.3	10.24	49.741		
5,000.0	4,987.4	4,947.4	4,935.1	6.4	6.3	-161.40	75.5	-293.9	529.2	518.8	10.44	50.712		
5,100.0	5,086.9	5,045.5	5,032.6	6.5	6.4	-161.40	78.7	-303.6	549.0	538.3	10.63	51.636		
5,200.0	5,186.3	5,143.5	5,130.1	6.6	6.5	-161.39	82.0	-313.3	568.7	557.8	10.83	52.514		
5,300.0	5,285.8	5,241.6	5,227.6	6.7	6.6	-161.39	85.3	-323.0	588.4	577.4	11.03	53.348		
5,400.0	5,385.2	5,339.6	5,325.1	6.8	6.7	-161.39	88.5	-332.7	608.1	596.9	11.23	54.143		
5,500.0	5,484.7	5,437.6	5,422.6	6.9	6.8	-161.39	91.8	-342.5	627.8	616.4	11.44	54.898		
5,600.0	5,584.1	5,535.7	5,520.1	7.0	6.9	-161.38	95.0	-352.2	647.5	635.9	11.64	55.617		
5,700.0	5,683.6	5,633.7	5,617.6	7.1	7.0	-161.38	98.3	-361.9	667.3	655.4	11.85	56.302		
5,800.0	5,783.0	5,731.7	5,715.1	7.2	7.1	-161.38	101.6	-371.6	687.0	674.9	12.06	56.953		
5,900.0	5,882.5	5,829.8	5,812.6	7.3	7.3	-161.38	104.8	-381.3	706.7	694.4	12.27	57.574		
6,000.0	5,981.9	5,927.8	5,910.1	7.4	7.4	-161.37	108.1	-391.0	726.4	713.9	12.49	58.166		
6,100.0	6,081.4	6,025.9	6,007.6	7.5	7.5	-161.37	111.4	-400.7	746.1	733.4	12.70	58.729		
6,200.0	6,180.8	6,123.9	6,105.1	7.7	7.6	-161.37	114.6	-410.5	765.8	752.9	12.92	59.267		
6,300.0	6,280.3	6,221.9	6,202.6	7.8	7.7	-161.37	117.9	-420.2	785.5	772.4	13.14	59.780		
6,388.4	6,368.2	6,308.6	6,288.8	7.9	7.8	-161.37	120.8	-428.8	803.0	789.6	13.34	60.213		
6,400.0	6,379.7	6,320.0	6,300.1	7.9	7.8	-161.37	121.1	-429.9	805.2	791.9	13.36	60.268		
6,500.0	6,479.3	6,420.0	6,399.7	8.0	7.9	-161.41	124.5	-439.8	823.9	810.4	13.58	60.666		
6,600.0	6,579.0	6,534.5	6,513.6	8.1	8.0	-161.42	127.8	-449.8	839.9	826.1	13.80	60.772		
6,700.0	6,678.8	6,649.9	6,628.7	8.2	8.2	-161.42	130.5	-457.7	852.3	838.3	14.02	60.805		
6,800.0	6,778.7	6,765.9	6,744.6	8.3	8.3	-161.42	132.4	-463.4	861.2	846.9	14.24	60.477		

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)				
6,900.0	6,878.7	6,882.4	6,861.0	8.4	8.4	-161.42	133.6	-466.9	866.5	852.0	14.47	59.892		
6,988.4	6,967.1	6,985.6	6,964.2	8.5	8.5	-90.07	134.0	-468.2	868.2	853.6	14.62	59.390		
7,000.0	6,978.7	6,999.1	6,977.7	8.5	8.5	-90.07	134.0	-468.2	868.2	853.6	14.63	59.328		
7,100.0	7,078.7	7,100.2	7,078.8	8.6	8.6	-90.07	134.0	-468.2	868.2	853.5	14.73	58.945		
7,200.0	7,178.7	7,200.2	7,178.8	8.7	8.7	-90.07	134.0	-468.2	868.2	853.4	14.82	58.576		
7,300.0	7,278.7	7,300.2	7,278.8	8.8	8.8	-90.07	134.0	-468.2	868.2	853.3	14.92	58.208		
7,400.0	7,378.7	7,400.2	7,378.8	8.9	8.9	-90.07	134.0	-468.2	868.2	853.2	15.01	57.842		
7,500.0	7,478.7	7,500.2	7,478.8	9.0	9.0	-90.07	134.0	-468.2	868.2	853.1	15.11	57.478		
7,600.0	7,578.7	7,600.2	7,578.8	9.1	9.2	-90.07	134.0	-468.2	868.2	853.0	15.20	57.115		
7,700.0	7,678.7	7,700.2	7,678.8	9.3	9.3	-90.07	134.0	-468.2	868.2	852.9	15.30	56.755		
7,800.0	7,778.7	7,800.2	7,778.8	9.4	9.4	-90.07	134.0	-468.2	868.2	852.8	15.39	56.397		
7,900.0	7,878.7	7,900.2	7,878.8	9.5	9.5	-90.07	134.0	-468.2	868.2	852.7	15.49	56.041		
8,000.0	7,978.7	8,000.2	7,978.8	9.6	9.6	-90.07	134.0	-468.2	868.2	852.6	15.59	55.688		
8,100.0	8,078.7	8,100.2	8,078.8	9.7	9.7	-90.07	134.0	-468.2	868.2	852.5	15.69	55.336		
8,200.0	8,178.7	8,200.2	8,178.8	9.8	9.8	-90.07	134.0	-468.2	868.2	852.4	15.79	54.987		
8,300.0	8,278.7	8,300.2	8,278.8	9.9	9.9	-90.07	134.0	-468.2	868.2	852.3	15.89	54.640		
8,400.0	8,378.7	8,400.2	8,378.8	10.0	10.0	-90.07	134.0	-468.2	868.2	852.2	15.99	54.296		
8,500.0	8,478.7	8,500.2	8,478.8	10.1	10.1	-90.07	134.0	-468.2	868.2	852.1	16.09	53.953		
8,600.0	8,578.7	8,600.2	8,578.8	10.2	10.2	-90.07	134.0	-468.2	868.2	852.0	16.19	53.614		
8,700.0	8,678.7	8,700.2	8,678.8	10.3	10.3	-90.07	134.0	-468.2	868.2	851.9	16.30	53.276		
8,800.0	8,778.7	8,800.2	8,778.8	10.4	10.4	-90.07	134.0	-468.2	868.2	851.8	16.40	52.941		
8,900.0	8,878.7	8,900.2	8,878.8	10.6	10.6	-90.07	134.0	-468.2	868.2	851.7	16.50	52.609		
9,000.0	8,978.7	9,000.2	8,978.8	10.7	10.7	-90.07	134.0	-468.2	868.2	851.6	16.61	52.279		
9,100.0	9,078.7	9,100.2	9,078.8	10.8	10.8	-90.07	134.0	-468.2	868.2	851.5	16.71	51.952		
9,200.0	9,178.7	9,200.2	9,178.8	10.9	10.9	-90.07	134.0	-468.2	868.2	851.4	16.82	51.627		
9,300.0	9,278.7	9,300.2	9,278.8	11.0	11.0	-90.07	134.0	-468.2	868.2	851.3	16.92	51.304		
9,400.0	9,378.7	9,400.2	9,378.8	11.1	11.1	-90.07	134.0	-468.2	868.2	851.2	17.03	50.985		
9,500.0	9,478.7	9,500.2	9,478.8	11.2	11.2	-90.07	134.0	-468.2	868.2	851.1	17.14	50.667		
9,600.0	9,578.7	9,600.2	9,578.8	11.3	11.3	-90.07	134.0	-468.2	868.2	851.0	17.24	50.353		
9,700.0	9,678.7	9,700.2	9,678.8	11.5	11.5	-90.07	134.0	-468.2	868.2	850.9	17.35	50.040		
9,800.0	9,778.7	9,800.2	9,778.8	11.6	11.6	-90.07	134.0	-468.2	868.2	850.8	17.46	49.731		
9,900.0	9,878.7	9,900.2	9,878.8	11.7	11.7	-90.07	134.0	-468.2	868.2	850.6	17.57	49.424		
10,000.0	9,978.7	10,000.2	9,978.8	11.8	11.8	-90.07	134.0	-468.2	868.2	850.5	17.68	49.119		
10,100.0	10,078.7	10,100.2	10,078.8	11.9	11.9	-90.07	134.0	-468.2	868.2	850.4	17.78	48.817		
10,200.0	10,178.7	10,200.2	10,178.8	12.0	12.0	-90.07	134.0	-468.2	868.2	850.3	17.89	48.518		
10,300.0	10,278.7	10,300.2	10,278.8	12.1	12.1	-90.07	134.0	-468.2	868.2	850.2	18.00	48.221		
10,400.0	10,378.7	10,400.2	10,378.8	12.3	12.3	-90.07	134.0	-468.2	868.2	850.1	18.12	47.926		
10,500.0	10,478.7	10,500.2	10,478.8	12.4	12.4	-90.07	134.0	-468.2	868.2	850.0	18.23	47.635		
10,600.0	10,578.7	10,600.2	10,578.8	12.5	12.5	-90.07	134.0	-468.2	868.2	849.9	18.34	47.345		
10,700.0	10,678.7	10,700.2	10,678.8	12.6	12.6	-90.07	134.0	-468.2	868.2	849.8	18.45	47.059		
10,800.0	10,778.7	10,800.2	10,778.8	12.7	12.7	-90.07	134.0	-468.2	868.2	849.6	18.56	46.774		
10,900.0	10,878.7	10,900.2	10,878.8	12.8	12.8	-90.07	134.0	-468.2	868.2	849.5	18.67	46.492		
11,000.0	10,978.7	11,000.2	10,978.8	13.0	13.0	-90.07	134.0	-468.2	868.2	849.4	18.79	46.213		
11,100.0	11,078.7	11,100.2	11,078.8	13.1	13.1	-90.07	134.0	-468.2	868.2	849.3	18.90	45.936		
11,200.0	11,178.7	11,200.2	11,178.8	13.2	13.2	-90.07	134.0	-468.2	868.2	849.2	19.01	45.662		
11,275.8	11,254.5	11,275.9	11,254.5	13.3	13.2	-90.07	134.0	-468.2	868.2	849.1	19.08	45.510		
11,280.8	11,259.5	11,281.0	11,259.6	13.3	13.3	-86.47	134.0	-468.2	868.2	849.1	19.08	45.507		
11,300.0	11,278.7	11,300.0	11,278.6	13.3	13.3	-86.47	134.6	-468.2	868.2	849.1	19.08	45.494		
11,325.0	11,303.6	11,324.7	11,303.3	13.3	13.3	-86.48	136.5	-468.2	868.1	849.0	19.09	45.470		
11,350.0	11,328.4	11,349.5	11,327.8	13.3	13.3	-86.51	139.7	-468.2	867.9	848.8	19.10	45.438		
11,375.0	11,353.0	11,374.3	11,352.2	13.4	13.3	-86.54	144.1	-468.3	867.6	848.5	19.11	45.399		
11,400.0	11,377.3	11,399.0	11,376.3	13.4	13.4	-86.58	149.8	-468.3	867.3	848.2	19.12	45.351		

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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:
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													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)			
11,425.0	11,401.3	11,423.8	11,400.0	13.4	13.4	-86.63	156.7	-468.4	866.9	847.8	19.14	45.295	
11,450.0	11,424.9	11,448.6	11,423.4	13.4	13.4	-86.69	164.9	-468.4	866.4	847.3	19.16	45.230	
11,475.0	11,448.0	11,473.3	11,446.4	13.5	13.5	-86.76	174.3	-468.5	865.9	846.7	19.18	45.156	
11,500.0	11,470.5	11,498.1	11,468.8	13.5	13.5	-86.84	184.8	-468.5	865.3	846.1	19.20	45.073	
11,525.0	11,492.5	11,522.9	11,490.6	13.5	13.5	-86.92	196.5	-468.6	864.6	845.4	19.22	44.980	
11,550.0	11,513.9	11,547.7	11,511.8	13.6	13.6	-87.02	209.3	-468.7	863.9	844.6	19.25	44.876	
11,575.0	11,534.5	11,572.5	11,532.4	13.6	13.6	-87.12	223.2	-468.8	863.1	843.8	19.28	44.762	
11,600.0	11,554.4	11,597.3	11,552.1	13.7	13.6	-87.23	238.1	-468.9	862.2	842.9	19.32	44.636	
11,625.0	11,573.4	11,622.0	11,571.1	13.7	13.7	-87.35	254.1	-469.0	861.3	842.0	19.36	44.498	
11,650.0	11,591.6	11,646.8	11,589.2	13.7	13.7	-87.48	271.0	-469.1	860.3	840.9	19.40	44.348	
11,675.0	11,608.8	11,671.6	11,606.5	13.8	13.7	-87.61	288.8	-469.2	859.3	839.9	19.45	44.186	
11,700.0	11,625.1	11,696.5	11,622.7	13.8	13.8	-87.75	307.6	-469.3	858.2	838.7	19.50	44.011	
11,725.0	11,640.3	11,721.3	11,638.0	13.8	13.8	-87.90	327.1	-469.4	857.1	837.6	19.56	43.822	
11,750.0	11,654.5	11,746.1	11,652.3	13.9	13.8	-88.05	347.4	-469.6	856.0	836.3	19.62	43.621	
11,775.0	11,667.6	11,770.9	11,665.5	13.9	13.9	-88.20	368.4	-469.7	854.8	835.1	19.69	43.406	
11,800.0	11,679.6	11,795.8	11,677.6	13.9	13.9	-88.37	390.1	-469.8	853.5	833.8	19.77	43.179	
11,825.0	11,690.4	11,820.6	11,688.5	13.9	13.9	-88.53	412.5	-470.0	852.3	832.4	19.85	42.938	
11,850.0	11,700.0	11,845.5	11,698.3	14.0	13.9	-88.70	435.3	-470.1	850.9	831.0	19.94	42.685	
11,875.0	11,708.3	11,870.3	11,706.8	14.0	14.0	-88.88	458.7	-470.3	849.6	829.6	20.03	42.420	
11,900.0	11,715.5	11,895.2	11,714.2	14.0	14.0	-89.06	482.4	-470.4	848.3	828.1	20.13	42.144	
11,925.0	11,721.4	11,920.1	11,720.3	14.0	14.0	-89.24	506.5	-470.6	846.9	826.7	20.23	41.856	
11,950.0	11,726.0	11,945.0	11,725.1	14.1	14.0	-89.42	531.0	-470.7	845.5	825.2	20.34	41.559	
11,975.0	11,729.3	11,969.9	11,728.7	14.1	14.1	-89.61	555.6	-470.9	844.1	823.6	20.46	41.254	
12,000.0	11,731.3	11,994.9	11,731.0	14.1	14.1	-89.80	580.5	-471.0	842.7	822.1	20.58	40.940	
12,025.8	11,732.0	12,020.6	11,731.9	14.1	14.1	-89.99	606.2	-471.2	841.2	820.5	20.72	40.610	
12,106.7	11,732.0	12,101.5	11,732.0	14.2	14.1	-89.99	687.0	-471.7	839.0	817.7	21.30	39.388	
12,106.9	11,732.0	12,101.7	11,732.0	14.2	14.1	-89.99	687.2	-471.7	839.0	817.7	21.30	39.385	
12,200.0	11,732.0	12,194.8	11,732.0	14.3	14.2	-89.99	780.3	-472.3	839.0	816.9	22.11	37.952	
12,300.0	11,732.0	12,294.8	11,732.0	14.4	14.2	-89.99	880.3	-473.0	839.0	816.1	22.87	36.690	
12,400.0	11,732.0	12,394.8	11,732.0	14.5	14.3	-89.99	980.3	-473.6	839.0	815.3	23.70	35.397	
12,500.0	11,732.0	12,494.8	11,732.0	14.6	14.5	-89.99	1,080.3	-474.2	839.0	814.4	24.61	34.099	
12,600.0	11,732.0	12,594.8	11,732.0	14.8	14.6	-89.99	1,180.3	-474.9	839.0	813.5	25.57	32.817	
12,700.0	11,732.0	12,694.8	11,732.0	15.0	14.8	-89.99	1,280.3	-475.5	839.0	812.5	26.58	31.565	
12,800.0	11,732.0	12,794.8	11,732.0	15.3	15.0	-89.99	1,380.3	-476.1	839.1	811.4	27.64	30.353	
12,900.0	11,732.0	12,894.8	11,732.0	15.6	15.3	-89.99	1,480.3	-476.8	839.1	810.3	28.75	29.188	
13,000.0	11,732.0	12,994.8	11,732.0	15.9	15.6	-89.99	1,580.3	-477.4	839.1	809.2	29.89	28.074	
13,100.0	11,732.0	13,094.8	11,732.0	16.4	16.1	-89.99	1,680.3	-478.0	839.1	808.0	31.06	27.014	
13,200.0	11,732.0	13,194.8	11,732.0	16.8	16.5	-89.99	1,780.3	-478.7	839.1	806.8	32.27	26.006	
13,300.0	11,732.0	13,294.8	11,732.0	17.3	17.0	-89.99	1,880.3	-479.3	839.1	805.6	33.50	25.052	
13,400.0	11,732.0	13,394.8	11,732.0	17.9	17.6	-89.99	1,980.3	-479.9	839.1	804.4	34.75	24.148	
13,500.0	11,732.0	13,494.8	11,732.0	18.5	18.2	-89.99	2,080.3	-480.6	839.2	803.1	36.02	23.294	
13,600.0	11,732.0	13,594.8	11,732.0	19.1	18.8	-89.99	2,180.3	-481.2	839.2	801.8	37.32	22.487	
13,700.0	11,732.0	13,694.8	11,732.0	19.7	19.4	-89.99	2,280.3	-481.8	839.2	800.6	38.63	21.725	
13,800.0	11,732.0	13,794.8	11,732.0	20.3	20.0	-89.99	2,380.3	-482.5	839.2	799.2	39.95	21.004	
13,900.0	11,732.0	13,894.8	11,732.0	20.9	20.7	-89.99	2,480.3	-483.1	839.2	797.9	41.29	20.323	
14,000.0	11,732.0	13,994.8	11,732.0	21.6	21.3	-89.99	2,580.3	-483.8	839.2	796.6	42.65	19.679	
14,100.0	11,732.0	14,094.8	11,732.0	22.3	22.0	-89.99	2,680.3	-484.4	839.2	795.2	44.01	19.069	
14,200.0	11,732.0	14,194.8	11,732.0	22.9	22.7	-89.99	2,780.3	-485.0	839.2	793.9	45.38	18.492	
14,300.0	11,732.0	14,294.8	11,732.0	23.6	23.4	-89.99	2,880.3	-485.7	839.3	792.5	46.77	17.945	
14,400.0	11,732.0	14,394.8	11,732.0	24.3	24.1	-89.99	2,980.3	-486.3	839.3	791.1	48.16	17.427	
14,500.0	11,732.0	14,494.8	11,732.0	25.0	24.8	-89.99	3,080.3	-486.9	839.3	789.7	49.56	16.935	
14,600.0	11,732.0	14,594.8	11,732.0	25.7	25.4	-89.99	3,180.3	-487.6	839.3	788.3	50.97	16.467	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)				
14,700.0	11,732.0	14,694.8	11,732.0	26.4	26.2	-89.99	3,280.3	-488.2	839.3	786.9	52.38	16.023		
14,800.0	11,732.0	14,794.8	11,732.0	27.1	26.9	-89.99	3,380.3	-488.8	839.3	785.5	53.80	15.600		
14,900.0	11,732.0	14,894.8	11,732.0	27.8	27.6	-89.99	3,480.3	-489.5	839.3	784.1	55.23	15.198		
15,000.0	11,732.0	14,994.8	11,732.0	28.5	28.3	-89.99	3,580.3	-490.1	839.4	782.7	56.66	14.814		
15,100.0	11,732.0	15,094.8	11,732.0	29.2	29.0	-89.99	3,680.3	-490.7	839.4	781.3	58.10	14.448		
15,200.0	11,732.0	15,194.8	11,732.0	29.9	29.7	-89.99	3,780.3	-491.4	839.4	779.8	59.54	14.099		
15,300.0	11,732.0	15,294.8	11,732.0	30.6	30.4	-89.99	3,880.3	-492.0	839.4	778.4	60.98	13.765		
15,400.0	11,732.0	15,394.8	11,732.0	31.3	31.2	-89.99	3,980.3	-492.6	839.4	777.0	62.43	13.446		
15,500.0	11,732.0	15,494.8	11,732.0	32.1	31.9	-89.99	4,080.3	-493.3	839.4	775.5	63.88	13.140		
15,600.0	11,732.0	15,594.8	11,732.0	32.8	32.6	-89.99	4,180.3	-493.9	839.4	774.1	65.34	12.848		
15,700.0	11,732.0	15,694.8	11,732.0	33.5	33.3	-89.99	4,280.3	-494.6	839.4	772.7	66.80	12.567		
15,800.0	11,732.0	15,794.8	11,732.0	34.2	34.1	-89.99	4,380.3	-495.2	839.5	771.2	68.26	12.298		
15,900.0	11,732.0	15,894.8	11,732.0	35.0	34.8	-89.99	4,480.3	-495.8	839.5	769.8	69.72	12.040		
16,000.0	11,732.0	15,994.8	11,732.0	35.7	35.5	-89.99	4,580.3	-496.5	839.5	768.3	71.19	11.792		
16,100.0	11,732.0	16,094.8	11,732.0	36.4	36.3	-89.99	4,680.3	-497.1	839.5	766.8	72.66	11.554		
16,200.0	11,732.0	16,194.8	11,732.0	37.2	37.0	-89.99	4,780.2	-497.7	839.5	765.4	74.13	11.325		
16,300.0	11,732.0	16,294.8	11,732.0	37.9	37.7	-89.99	4,880.2	-498.4	839.5	763.9	75.61	11.104		
16,400.0	11,732.0	16,394.8	11,732.0	38.6	38.5	-89.99	4,980.2	-499.0	839.5	762.5	77.08	10.891		
16,500.0	11,732.0	16,494.8	11,732.0	39.4	39.2	-89.99	5,080.2	-499.6	839.6	761.0	78.56	10.687		
16,600.0	11,732.0	16,594.8	11,732.0	40.1	40.0	-89.99	5,180.2	-500.3	839.6	759.5	80.04	10.489		
16,700.0	11,732.0	16,694.8	11,732.0	40.9	40.7	-89.99	5,280.2	-500.9	839.6	758.1	81.52	10.299		
16,800.0	11,732.0	16,794.8	11,732.0	41.6	41.4	-89.99	5,380.2	-501.5	839.6	756.6	83.01	10.115		
16,900.0	11,732.0	16,894.8	11,732.0	42.3	42.2	-89.99	5,480.2	-502.2	839.6	755.1	84.49	9.937		
17,000.0	11,732.0	16,994.8	11,732.0	43.1	42.9	-89.99	5,580.2	-502.8	839.6	753.6	85.98	9.766		
17,100.0	11,732.0	17,094.8	11,732.0	43.8	43.7	-89.99	5,680.2	-503.5	839.6	752.2	87.47	9.600		
17,200.0	11,732.0	17,194.8	11,732.0	44.6	44.4	-89.99	5,780.2	-504.1	839.7	750.7	88.95	9.439		
17,300.0	11,732.0	17,294.8	11,732.0	45.3	45.2	-89.99	5,880.2	-504.7	839.7	749.2	90.44	9.284		
17,400.0	11,732.0	17,394.8	11,732.0	46.0	45.9	-89.99	5,980.2	-505.4	839.7	747.7	91.94	9.133		
17,500.0	11,732.0	17,494.8	11,732.0	46.8	46.7	-89.99	6,080.2	-506.0	839.7	746.3	93.43	8.988		
17,600.0	11,732.0	17,594.8	11,732.0	47.5	47.4	-89.99	6,180.2	-506.6	839.7	744.8	94.92	8.846		
17,700.0	11,732.0	17,694.8	11,732.0	48.3	48.2	-89.99	6,280.2	-507.3	839.7	743.3	96.42	8.709		
17,800.0	11,732.0	17,794.8	11,732.0	49.0	48.9	-89.99	6,380.2	-507.9	839.7	741.8	97.91	8.576		
17,900.0	11,732.0	17,894.8	11,732.0	49.8	49.6	-89.99	6,480.2	-508.5	839.7	740.3	99.41	8.447		
18,000.0	11,732.0	17,994.8	11,732.0	50.5	50.4	-89.99	6,580.2	-509.2	839.8	738.9	100.91	8.322		
18,100.0	11,732.0	18,094.8	11,732.0	51.3	51.1	-89.99	6,680.2	-509.8	839.8	737.4	102.41	8.200		
18,200.0	11,732.0	18,194.8	11,732.0	52.0	51.9	-89.99	6,780.2	-510.4	839.8	735.9	103.91	8.082		
18,300.0	11,732.0	18,294.8	11,732.0	52.8	52.6	-89.99	6,880.2	-511.1	839.8	734.4	105.41	7.967		
18,400.0	11,732.0	18,394.8	11,732.0	53.5	53.4	-89.99	6,980.2	-511.7	839.8	732.9	106.91	7.856		
18,500.0	11,732.0	18,494.8	11,732.0	54.3	54.1	-89.99	7,080.2	-512.3	839.8	731.4	108.41	7.747		
18,600.0	11,732.0	18,594.8	11,732.0	55.0	54.9	-89.99	7,180.2	-513.0	839.8	729.9	109.91	7.641		
18,700.0	11,732.0	18,694.8	11,732.0	55.8	55.7	-89.99	7,280.2	-513.6	839.9	728.4	111.41	7.538		
18,800.0	11,732.0	18,794.8	11,732.0	56.5	56.4	-89.99	7,380.2	-514.3	839.9	727.0	112.92	7.438		
18,900.0	11,732.0	18,894.8	11,732.0	57.3	57.2	-89.99	7,480.2	-514.9	839.9	725.5	114.42	7.340		
19,000.0	11,732.0	18,994.8	11,732.0	58.0	57.9	-89.99	7,580.2	-515.5	839.9	724.0	115.93	7.245		
19,100.0	11,732.0	19,094.8	11,732.0	58.8	58.7	-89.99	7,680.2	-516.2	839.9	722.5	117.43	7.152		
19,200.0	11,732.0	19,194.8	11,732.0	59.5	59.4	-89.99	7,780.2	-516.8	839.9	721.0	118.94	7.062		
19,300.0	11,732.0	19,294.8	11,732.0	60.3	60.2	-89.99	7,880.2	-517.4	839.9	719.5	120.44	6.974		
19,400.0	11,732.0	19,394.8	11,732.0	61.0	60.9	-89.99	7,980.2	-518.1	840.0	718.0	121.95	6.888		
19,500.0	11,732.0	19,494.8	11,732.0	61.8	61.7	-89.99	8,080.2	-518.7	840.0	716.5	123.46	6.804		
19,600.0	11,732.0	19,594.8	11,732.0	62.5	62.4	-89.99	8,180.2	-519.3	840.0	715.0	124.97	6.722		
19,603.2	11,732.0	19,598.0	11,732.0	62.6	62.5	-89.99	8,183.4	-519.4	840.0	715.0	125.01	6.719		
19,647.7	11,732.0	19,639.6	11,732.0	62.9	62.7	-89.99	8,225.0	-519.6	840.0	714.4	125.59	6.688		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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		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			
19,648.6	11,732.0	19,639.6	11,732.0	62.9	62.7	-89.99	8,225.0	-519.6	840.0	714.4	125.60	6.688 SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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											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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.2	0.2	3.0	3.0	-91.31	-0.8	-33.2	33.2					
100.0	100.0	100.2	100.2	3.0	3.0	-91.31	-0.8	-33.2	33.2	27.2	6.00	5.540		
200.0	200.0	200.2	200.2	3.0	3.0	-91.31	-0.8	-33.2	33.2	27.2	6.00	5.537		
300.0	300.0	300.2	300.2	3.0	3.0	-91.31	-0.8	-33.2	33.2	27.2	6.01	5.532		
400.0	400.0	400.2	400.2	3.0	3.0	-91.31	-0.8	-33.2	33.2	27.2	6.02	5.523		
500.0	500.0	500.2	500.2	3.1	3.1	-91.31	-0.8	-33.2	33.2	27.2	6.03	5.512		
600.0	600.0	600.2	600.2	3.1	3.1	-91.31	-0.8	-33.2	33.2	27.2	6.05	5.497		
700.0	700.0	700.2	700.2	3.1	3.1	-91.31	-0.8	-33.2	33.2	27.2	6.07	5.480		
800.0	800.0	800.2	800.2	3.2	3.2	-91.31	-0.8	-33.2	33.2	27.2	6.09	5.460		
900.0	900.0	900.2	900.2	3.2	3.2	-91.31	-0.8	-33.2	33.2	27.1	6.11	5.438		
1,000.0	1,000.0	1,000.2	1,000.2	3.2	3.2	-91.31	-0.8	-33.2	33.2	27.1	6.14	5.413		
1,100.0	1,100.0	1,100.2	1,100.2	3.3	3.3	-91.31	-0.8	-33.2	33.2	27.1	6.17	5.386		
1,200.0	1,200.0	1,200.2	1,200.2	3.4	3.4	-91.31	-0.8	-33.2	33.2	27.0	6.21	5.356		
1,300.0	1,300.0	1,300.2	1,300.2	3.4	3.4	-91.31	-0.8	-33.2	33.2	27.0	6.24	5.324		
1,400.0	1,400.0	1,400.2	1,400.2	3.5	3.5	-91.31	-0.8	-33.2	33.2	27.0	6.28	5.290		
1,500.0	1,500.0	1,500.2	1,500.2	3.5	3.5	-91.31	-0.8	-33.2	33.2	26.9	6.33	5.254		
1,600.0	1,600.0	1,600.2	1,600.2	3.6	3.6	-91.31	-0.8	-33.2	33.2	26.9	6.37	5.217		
1,700.0	1,700.0	1,700.2	1,700.2	3.7	3.7	-91.31	-0.8	-33.2	33.2	26.8	6.42	5.177		
1,800.0	1,800.0	1,800.2	1,800.2	3.8	3.8	-91.31	-0.8	-33.2	33.2	26.8	6.47	5.137		
1,900.0	1,900.0	1,900.2	1,900.2	3.9	3.9	-91.31	-0.8	-33.2	33.2	26.7	6.52	5.094		
2,000.0	2,000.0	2,000.2	2,000.2	3.9	3.9	-91.31	-0.8	-33.2	33.2	26.7	6.58	5.051		
2,100.0	2,100.0	2,100.2	2,100.2	4.0	4.0	-91.31	-0.8	-33.2	33.2	26.6	6.64	5.006		
2,200.0	2,200.0	2,200.2	2,200.2	4.1	4.1	-91.31	-0.8	-33.2	33.2	26.5	6.70	4.961		
2,300.0	2,300.0	2,300.2	2,300.2	4.2	4.2	-91.31	-0.8	-33.2	33.2	26.5	6.76	4.914		
2,400.0	2,400.0	2,400.2	2,400.2	4.3	4.3	-91.31	-0.8	-33.2	33.2	26.4	6.83	4.867		
2,500.0	2,500.0	2,500.2	2,500.2	4.4	4.4	-91.31	-0.8	-33.2	33.2	26.3	6.90	4.819 CC, ES		
2,600.0	2,600.0	2,600.2	2,600.2	4.5	4.5	-163.50	-0.8	-33.2	34.9	27.9	6.97	5.008		
2,700.0	2,699.8	2,700.0	2,700.0	4.5	4.6	-165.61	-0.8	-33.2	40.0	32.9	7.06	5.656		
2,800.0	2,799.5	2,799.7	2,799.7	4.6	4.7	-168.14	-0.8	-33.2	48.4	41.3	7.18	6.748		
2,900.0	2,898.9	2,899.1	2,899.1	4.6	4.8	-170.23	-0.8	-33.2	58.7	51.4	7.31	8.034		
3,000.0	2,998.4	2,998.6	2,998.6	4.7	4.9	-171.71	-0.8	-33.2	69.0	61.6	7.44	9.278		
3,100.0	3,097.8	3,098.0	3,098.0	4.8	5.0	-172.79	-0.8	-33.2	79.4	71.8	7.58	10.480		
3,200.0	3,197.3	3,197.5	3,197.5	4.8	5.1	-173.63	-0.8	-33.2	89.8	82.1	7.71	11.639		
3,300.0	3,296.7	3,296.9	3,296.9	4.9	5.2	-174.29	-0.8	-33.2	100.2	92.3	7.85	12.756		
3,400.0	3,396.2	3,396.4	3,396.4	5.0	5.3	-174.83	-0.8	-33.2	110.6	102.6	7.99	13.832		
3,500.0	3,495.6	3,495.8	3,495.8	5.0	5.4	-175.28	-0.8	-33.2	121.0	112.9	8.14	14.867		
3,600.0	3,595.1	3,595.3	3,595.3	5.1	5.5	-175.65	-0.8	-33.2	131.4	123.1	8.28	15.863		
3,700.0	3,694.5	3,694.7	3,694.7	5.2	5.6	-175.97	-0.8	-33.2	141.8	133.4	8.43	16.820		
3,800.0	3,794.0	3,794.2	3,794.2	5.3	5.8	-176.25	-0.8	-33.2	152.3	143.7	8.58	17.741		
3,900.0	3,893.4	3,893.6	3,893.6	5.4	5.9	-176.49	-0.8	-33.2	162.7	154.0	8.74	18.626		
4,000.0	3,992.9	3,993.1	3,993.1	5.4	6.0	-176.70	-0.8	-33.2	173.1	164.2	8.89	19.476		
4,100.0	4,092.3	4,092.5	4,092.5	5.5	6.1	-176.89	-0.8	-33.2	183.6	174.5	9.05	20.293		
4,200.0	4,191.8	4,192.0	4,192.0	5.6	6.2	-177.06	-0.8	-33.2	194.0	184.8	9.20	21.079		
4,300.0	4,291.2	4,291.4	4,291.4	5.7	6.3	-177.21	-0.8	-33.2	204.5	195.1	9.36	21.834		
4,400.0	4,390.7	4,390.9	4,390.9	5.8	6.4	-177.34	-0.8	-33.2	214.9	205.4	9.53	22.559		
4,500.0	4,490.1	4,490.3	4,490.3	5.9	6.6	-177.47	-0.8	-33.2	225.3	215.6	9.69	23.257		
4,600.0	4,589.6	4,589.8	4,589.8	6.0	6.7	-177.58	-0.8	-33.2	235.8	225.9	9.85	23.927		
4,700.0	4,689.0	4,689.2	4,689.2	6.1	6.8	-177.68	-0.8	-33.2	246.2	236.2	10.02	24.572		
4,800.0	4,788.5	4,788.7	4,788.7	6.2	6.9	-177.78	-0.8	-33.2	256.7	246.5	10.19	25.193		
4,900.0	4,887.9	4,888.1	4,888.1	6.3	7.0	-177.86	-0.8	-33.2	267.1	256.8	10.36	25.790		
5,000.0	4,987.4	4,987.6	4,987.6	6.4	7.1	-177.94	-0.8	-33.2	277.6	267.0	10.53	26.364		
5,100.0	5,086.9	5,087.1	5,087.1	6.5	7.3	-178.02	-0.8	-33.2	288.0	277.3	10.70	26.917		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)				
5,200.0	5,186.3	5,186.5	5,186.5	6.6	7.4	-178.09	-0.8	-33.2	298.5	287.6	10.87	27.450		
5,300.0	5,285.8	5,286.0	5,286.0	6.7	7.5	-178.15	-0.8	-33.2	308.9	297.9	11.05	27.963		
5,400.0	5,385.2	5,385.4	5,385.4	6.8	7.6	-178.21	-0.8	-33.2	319.3	308.1	11.22	28.458		
5,500.0	5,484.7	5,484.9	5,484.9	6.9	7.7	-178.27	-0.8	-33.2	329.8	318.4	11.40	28.934		
5,600.0	5,584.1	5,584.3	5,584.3	7.0	7.9	-178.32	-0.8	-33.2	340.2	328.7	11.58	29.394		
5,700.0	5,683.6	5,683.8	5,683.8	7.1	8.0	-178.37	-0.8	-33.2	350.7	338.9	11.75	29.837		
5,800.0	5,783.0	5,783.2	5,783.2	7.2	8.1	-178.42	-0.8	-33.2	361.1	349.2	11.93	30.264		
5,900.0	5,882.5	5,882.7	5,882.7	7.3	8.2	-178.46	-0.8	-33.2	371.6	359.5	12.11	30.677		
6,000.0	5,981.9	5,982.1	5,982.1	7.4	8.4	-178.51	-0.8	-33.2	382.0	369.7	12.29	31.075		
6,100.0	6,081.4	6,081.6	6,081.6	7.5	8.5	-178.55	-0.8	-33.2	392.5	380.0	12.48	31.460		
6,200.0	6,180.8	6,181.0	6,181.0	7.7	8.6	-178.58	-0.8	-33.2	402.9	390.3	12.66	31.832		
6,300.0	6,280.3	6,280.5	6,280.5	7.8	8.7	-178.62	-0.8	-33.2	413.4	400.5	12.84	32.191		
6,388.4	6,368.2	6,368.4	6,368.4	7.9	8.8	-178.65	-0.8	-33.2	422.6	409.6	13.00	32.499		
6,400.0	6,379.7	6,379.9	6,379.9	7.9	8.8	-178.65	-0.8	-33.2	423.8	410.8	13.03	32.538		
6,500.0	6,479.3	6,479.5	6,479.5	8.0	9.0	-178.68	-0.8	-33.2	433.2	420.0	13.21	32.793		
6,600.0	6,579.0	6,579.2	6,579.2	8.1	9.1	-178.71	-0.8	-33.2	440.8	427.5	13.40	32.910		
6,700.0	6,678.8	6,679.0	6,679.0	8.2	9.2	-178.73	-0.8	-33.2	446.8	433.2	13.58	32.895		
6,800.0	6,778.7	6,778.9	6,778.9	8.3	9.3	-178.74	-0.8	-33.2	450.9	437.1	13.77	32.753		
6,900.0	6,878.7	6,878.9	6,878.9	8.4	9.5	-178.75	-0.8	-33.2	453.3	439.4	13.95	32.490		
6,988.4	6,967.1	6,967.3	6,967.3	8.5	9.6	-107.40	-0.8	-33.2	454.0	439.9	14.09	32.213		
7,000.0	6,978.7	6,978.9	6,978.9	8.5	9.6	-107.40	-0.8	-33.2	454.0	439.9	14.11	32.178		
7,100.0	7,078.7	7,078.9	7,078.9	8.6	9.7	-107.40	-0.8	-33.2	454.0	439.8	14.24	31.878		
7,200.0	7,178.7	7,178.9	7,178.9	8.7	9.8	-107.40	-0.8	-33.2	454.0	439.6	14.38	31.583		
7,300.0	7,278.7	7,278.9	7,278.9	8.8	10.0	-107.40	-0.8	-33.2	454.0	439.5	14.51	31.292		
7,400.0	7,378.7	7,378.9	7,378.9	8.9	10.1	-107.40	-0.8	-33.2	454.0	439.4	14.64	31.005		
7,500.0	7,478.7	7,478.9	7,478.9	9.0	10.2	-107.40	-0.8	-33.2	454.0	439.2	14.78	30.723		
7,600.0	7,578.7	7,578.9	7,578.9	9.1	10.4	-107.40	-0.8	-33.2	454.0	439.1	14.91	30.445		
7,700.0	7,678.7	7,678.9	7,678.9	9.3	10.5	-107.40	-0.8	-33.2	454.0	439.0	15.05	30.172		
7,800.0	7,778.7	7,778.9	7,778.9	9.4	10.6	-107.40	-0.8	-33.2	454.0	438.8	15.18	29.902		
7,900.0	7,878.7	7,878.9	7,878.9	9.5	10.7	-107.40	-0.8	-33.2	454.0	438.7	15.32	29.637		
8,000.0	7,978.7	7,978.9	7,978.9	9.6	10.9	-107.40	-0.8	-33.2	454.0	438.5	15.46	29.375		
8,100.0	8,078.7	8,078.9	8,078.9	9.7	11.0	-107.40	-0.8	-33.2	454.0	438.4	15.59	29.118		
8,200.0	8,178.7	8,178.9	8,178.9	9.8	11.1	-107.40	-0.8	-33.2	454.0	438.3	15.73	28.864		
8,300.0	8,278.7	8,278.9	8,278.9	9.9	11.2	-107.40	-0.8	-33.2	454.0	438.1	15.87	28.614		
8,400.0	8,378.7	8,378.9	8,378.9	10.0	11.4	-107.40	-0.8	-33.2	454.0	438.0	16.00	28.368		
8,500.0	8,478.7	8,478.9	8,478.9	10.1	11.5	-107.40	-0.8	-33.2	454.0	437.9	16.14	28.125		
8,600.0	8,578.7	8,578.9	8,578.9	10.2	11.6	-107.40	-0.8	-33.2	454.0	437.7	16.28	27.886		
8,700.0	8,678.7	8,678.9	8,678.9	10.3	11.7	-107.40	-0.8	-33.2	454.0	437.6	16.42	27.651		
8,800.0	8,778.7	8,778.9	8,778.9	10.4	11.9	-107.40	-0.8	-33.2	454.0	437.4	16.56	27.419		
8,900.0	8,878.7	8,878.9	8,878.9	10.6	12.0	-107.40	-0.8	-33.2	454.0	437.3	16.70	27.191		
9,000.0	8,978.7	8,978.9	8,978.9	10.7	12.1	-107.40	-0.8	-33.2	454.0	437.2	16.84	26.966		
9,100.0	9,078.7	9,078.9	9,078.9	10.8	12.3	-107.40	-0.8	-33.2	454.0	437.0	16.98	26.744		
9,200.0	9,178.7	9,178.9	9,178.9	10.9	12.4	-107.40	-0.8	-33.2	454.0	436.9	17.12	26.525		
9,300.0	9,278.7	9,278.9	9,278.9	11.0	12.5	-107.40	-0.8	-33.2	454.0	436.7	17.26	26.310		
9,400.0	9,378.7	9,378.9	9,378.9	11.1	12.6	-107.40	-0.8	-33.2	454.0	436.6	17.40	26.097		
9,500.0	9,478.7	9,478.9	9,478.9	11.2	12.8	-107.40	-0.8	-33.2	454.0	436.5	17.54	25.888		
9,600.0	9,578.7	9,578.9	9,578.9	11.3	12.9	-107.40	-0.8	-33.2	454.0	436.3	17.68	25.681		
9,700.0	9,678.7	9,678.9	9,678.9	11.5	13.0	-107.40	-0.8	-33.2	454.0	436.2	17.82	25.478		
9,800.0	9,778.7	9,778.9	9,778.9	11.6	13.2	-107.40	-0.8	-33.2	454.0	436.0	17.96	25.278		
9,900.0	9,878.7	9,878.9	9,878.9	11.7	13.3	-107.40	-0.8	-33.2	454.0	435.9	18.10	25.080		
10,000.0	9,978.7	9,978.9	9,978.9	11.8	13.4	-107.40	-0.8	-33.2	454.0	435.8	18.24	24.885		
10,100.0	10,078.7	10,078.9	10,078.9	11.9	13.5	-107.40	-0.8	-33.2	454.0	435.6	18.39	24.693		

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)				
10,200.0	10,178.7	10,178.9	10,178.9	12.0	13.7	-107.40	-0.8	-33.2	454.0	435.5	18.53	24.503		
10,300.0	10,278.7	10,278.9	10,278.9	12.1	13.8	-107.40	-0.8	-33.2	454.0	435.3	18.67	24.316		
10,400.0	10,378.7	10,378.9	10,378.9	12.3	13.9	-107.40	-0.8	-33.2	454.0	435.2	18.81	24.132		
10,500.0	10,478.7	10,478.9	10,478.9	12.4	14.1	-107.40	-0.8	-33.2	454.0	435.0	18.96	23.950		
10,600.0	10,578.7	10,578.9	10,578.9	12.5	14.2	-107.40	-0.8	-33.2	454.0	434.9	19.10	23.771		
10,700.0	10,678.7	10,678.9	10,678.9	12.6	14.3	-107.40	-0.8	-33.2	454.0	434.8	19.24	23.594		
10,800.0	10,778.7	10,778.9	10,778.9	12.7	14.4	-107.40	-0.8	-33.2	454.0	434.6	19.39	23.420		
10,900.0	10,878.7	10,878.9	10,878.9	12.8	14.6	-107.40	-0.8	-33.2	454.0	434.5	19.53	23.248		
11,000.0	10,978.7	10,978.9	10,978.9	13.0	14.7	-107.40	-0.8	-33.2	454.0	434.3	19.67	23.078		
11,100.0	11,078.7	11,078.9	11,078.9	13.1	14.8	-107.40	-0.8	-33.2	454.0	434.2	19.82	22.910		
11,200.0	11,178.7	11,178.9	11,178.9	13.2	15.0	-107.40	-0.8	-33.2	454.0	434.0	19.96	22.745		
11,275.8	11,254.5	11,254.7	11,254.7	13.3	15.1	-107.40	-0.8	-33.2	454.0	433.9	20.05	22.638		
11,300.0	11,278.7	11,278.9	11,278.9	13.3	15.1	-103.86	-0.8	-33.2	454.1	434.1	20.09	22.607		
11,325.0	11,303.6	11,303.8	11,303.8	13.3	15.1	-104.04	-0.8	-33.2	454.6	434.5	20.15	22.558		
11,350.0	11,328.4	11,328.6	11,328.6	13.3	15.1	-104.33	-0.8	-33.2	455.4	435.2	20.24	22.495		
11,375.0	11,353.0	11,353.2	11,353.2	13.4	15.2	-104.74	-0.8	-33.2	456.6	436.2	20.36	22.420		
11,400.0	11,377.3	11,377.5	11,377.5	13.4	15.2	-105.25	-0.8	-33.2	458.1	437.6	20.51	22.333		
11,425.0	11,401.3	11,401.5	11,401.5	13.4	15.2	-105.83	-0.8	-33.2	460.1	439.4	20.69	22.237		
11,450.0	11,424.9	11,429.1	11,429.1	13.4	15.3	-106.64	-0.6	-33.2	462.5	441.6	20.89	22.134		
11,475.0	11,448.0	11,464.2	11,464.1	13.5	15.3	-107.70	1.6	-33.3	464.9	443.8	21.12	22.010		
11,500.0	11,470.5	11,500.5	11,500.0	13.5	15.3	-108.72	6.6	-33.5	467.3	445.9	21.40	21.840		
11,525.0	11,492.5	11,537.9	11,536.6	13.5	15.4	-109.68	14.6	-33.8	469.5	447.8	21.72	21.615		
11,550.0	11,513.9	11,576.4	11,573.4	13.6	15.4	-110.57	25.8	-34.2	471.5	449.4	22.10	21.333		
11,575.0	11,534.5	11,616.0	11,610.2	13.6	15.5	-111.39	40.3	-34.7	473.3	450.8	22.55	20.993		
11,600.0	11,554.4	11,656.6	11,646.6	13.7	15.5	-112.12	58.3	-35.3	474.8	451.8	23.05	20.604		
11,625.0	11,573.4	11,698.0	11,682.0	13.7	15.6	-112.74	79.8	-36.0	476.0	452.4	23.59	20.178		
11,650.0	11,591.6	11,740.1	11,715.9	13.7	15.7	-113.26	104.7	-36.9	476.9	452.7	24.17	19.734		
11,675.0	11,608.8	11,782.9	11,748.0	13.8	15.7	-113.66	133.0	-37.9	477.3	452.6	24.75	19.289		
11,700.0	11,625.1	11,826.0	11,777.6	13.8	15.8	-113.94	164.2	-39.0	477.4	452.1	25.31	18.863		
11,725.0	11,640.3	11,869.2	11,804.4	13.8	15.8	-114.08	198.1	-40.2	477.0	451.2	25.82	18.472		
11,750.0	11,654.5	11,912.4	11,827.9	13.9	15.9	-114.09	234.3	-41.4	476.2	449.9	26.27	18.128		
11,775.0	11,667.6	11,955.4	11,848.1	13.9	15.9	-113.98	272.2	-42.8	475.0	448.3	26.62	17.842		
11,800.0	11,679.6	11,997.9	11,864.5	13.9	16.0	-113.73	311.4	-44.1	473.3	446.5	26.87	17.619		
11,825.0	11,690.4	12,039.8	11,877.2	13.9	16.0	-113.37	351.3	-45.5	471.3	444.4	26.99	17.461		
11,850.0	11,700.0	12,080.9	11,886.3	14.0	16.0	-112.89	391.3	-46.9	469.0	442.0	27.00	17.370		
11,875.0	11,708.3	12,121.1	11,891.8	14.0	16.0	-112.30	431.1	-48.3	466.4	439.5	26.89	17.342		
11,900.0	11,715.5	12,160.2	11,893.9	14.0	16.0	-111.63	470.1	-49.7	463.5	436.8	26.67	17.376		
11,925.0	11,721.4	12,195.5	11,894.0	14.0	16.0	-111.07	505.4	-50.6	460.5	434.0	26.44	17.415		
11,950.0	11,726.0	12,223.6	11,894.0	14.1	16.1	-110.86	533.5	-50.8	457.5	431.2	26.32	17.383		
11,975.0	11,729.3	12,248.3	11,894.0	14.1	16.1	-110.82	558.2	-51.0	455.0	428.7	26.29	17.309		
12,000.0	11,731.3	12,273.2	11,894.0	14.1	16.1	-110.87	583.1	-51.2	453.0	426.6	26.33	17.202		
12,025.8	11,732.0	12,298.9	11,894.0	14.1	16.1	-111.04	608.9	-51.3	451.3	424.9	26.46	17.057		
12,106.7	11,732.0	12,379.8	11,894.0	14.2	16.1	-111.11	689.7	-51.8	449.2	422.1	27.10	16.576		
12,106.9	11,732.0	12,380.0	11,894.0	14.2	16.1	-111.11	689.9	-51.8	449.2	422.1	27.10	16.575		
12,200.0	11,732.0	12,473.1	11,894.0	14.3	16.1	-111.11	783.0	-52.4	449.2	421.4	27.80	16.159		
12,300.0	11,732.0	12,573.1	11,894.0	14.4	16.2	-111.11	883.0	-53.1	449.2	420.8	28.47	15.777		
12,400.0	11,732.0	12,673.1	11,894.0	14.5	16.2	-111.11	983.0	-53.7	449.2	420.0	29.21	15.378		
12,500.0	11,732.0	12,773.1	11,894.0	14.6	16.2	-111.11	1,083.0	-54.3	449.3	419.2	30.01	14.968		
12,600.0	11,732.0	12,873.1	11,894.0	14.8	16.3	-111.11	1,183.0	-55.0	449.3	418.4	30.87	14.554		
12,700.0	11,732.0	12,973.1	11,894.0	15.0	16.3	-111.11	1,283.0	-55.6	449.3	417.5	31.78	14.139		
12,800.0	11,732.0	13,073.1	11,894.0	15.3	16.3	-111.11	1,383.0	-56.2	449.3	416.6	32.73	13.728		
12,900.0	11,732.0	13,173.1	11,894.0	15.6	16.4	-111.11	1,483.0	-56.9	449.3	415.6	33.72	13.323		

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)				
13,000.0	11,732.0	13,273.1	11,894.0	15.9	16.4	-111.11	1,583.0	-57.5	449.3	414.6	34.76	12.926		
13,100.0	11,732.0	13,373.1	11,894.0	16.4	16.5	-111.11	1,683.0	-58.1	449.3	413.5	35.83	12.541		
13,200.0	11,732.0	13,473.1	11,894.0	16.8	16.6	-111.11	1,783.0	-58.8	449.3	412.4	36.93	12.166		
13,300.0	11,732.0	13,573.1	11,894.0	17.3	17.0	-111.10	1,883.0	-59.4	449.3	411.3	38.07	11.805		
13,400.0	11,732.0	13,673.1	11,894.0	17.9	17.6	-111.10	1,983.0	-60.0	449.4	410.1	39.23	11.456		
13,500.0	11,732.0	13,773.1	11,894.0	18.5	18.3	-111.10	2,083.0	-60.7	449.4	409.0	40.41	11.120		
13,600.0	11,732.0	13,873.1	11,894.0	19.1	19.0	-111.10	2,183.0	-61.3	449.4	407.8	41.62	10.798		
13,700.0	11,732.0	13,973.1	11,894.0	19.7	19.7	-111.10	2,283.0	-61.9	449.4	406.5	42.85	10.488		
13,800.0	11,732.0	14,073.1	11,894.0	20.3	20.4	-111.10	2,383.0	-62.6	449.4	405.3	44.10	10.192		
13,900.0	11,732.0	14,173.1	11,894.0	20.9	21.1	-111.10	2,483.0	-63.2	449.4	404.1	45.36	9.908		
14,000.0	11,732.0	14,273.1	11,894.0	21.6	21.8	-111.10	2,583.0	-63.8	449.4	402.8	46.64	9.636		
14,100.0	11,732.0	14,373.1	11,894.0	22.3	22.5	-111.10	2,683.0	-64.5	449.4	401.5	47.94	9.375		
14,200.0	11,732.0	14,473.1	11,894.0	22.9	23.2	-111.10	2,783.0	-65.1	449.5	400.2	49.25	9.126		
14,300.0	11,732.0	14,573.1	11,894.0	23.6	23.9	-111.10	2,883.0	-65.7	449.5	398.9	50.57	8.888		
14,400.0	11,732.0	14,673.1	11,894.0	24.3	24.6	-111.10	2,983.0	-66.4	449.5	397.6	51.90	8.660		
14,500.0	11,732.0	14,773.1	11,894.0	25.0	25.3	-111.10	3,083.0	-67.0	449.5	396.2	53.25	8.441		
14,600.0	11,732.0	14,873.1	11,894.0	25.7	26.0	-111.10	3,183.0	-67.6	449.5	394.9	54.60	8.232		
14,700.0	11,732.0	14,973.1	11,894.0	26.4	26.8	-111.10	3,283.0	-68.3	449.5	393.5	55.97	8.032		
14,800.0	11,732.0	15,073.1	11,894.0	27.1	27.5	-111.10	3,382.9	-68.9	449.5	392.2	57.34	7.840		
14,900.0	11,732.0	15,173.1	11,894.0	27.8	28.2	-111.10	3,482.9	-69.5	449.5	390.8	58.72	7.655		
15,000.0	11,732.0	15,273.1	11,894.0	28.5	28.9	-111.10	3,582.9	-70.2	449.5	389.4	60.11	7.479		
15,100.0	11,732.0	15,373.1	11,894.0	29.2	29.7	-111.09	3,682.9	-70.8	449.6	388.1	61.50	7.309		
15,200.0	11,732.0	15,473.1	11,894.0	29.9	30.4	-111.09	3,782.9	-71.4	449.6	386.7	62.90	7.147		
15,300.0	11,732.0	15,573.1	11,894.0	30.6	31.1	-111.09	3,882.9	-72.1	449.6	385.3	64.31	6.991		
15,400.0	11,732.0	15,673.1	11,894.0	31.3	31.9	-111.09	3,982.9	-72.7	449.6	383.9	65.72	6.840		
15,500.0	11,732.0	15,773.1	11,894.0	32.1	32.6	-111.09	4,082.9	-73.3	449.6	382.5	67.14	6.696		
15,600.0	11,732.0	15,873.1	11,894.0	32.8	33.3	-111.09	4,182.9	-74.0	449.6	381.0	68.57	6.557		
15,700.0	11,732.0	15,973.1	11,894.0	33.5	34.1	-111.09	4,282.9	-74.6	449.6	379.6	69.99	6.424		
15,800.0	11,732.0	16,073.1	11,894.0	34.2	34.8	-111.09	4,382.9	-75.3	449.6	378.2	71.43	6.295		
15,900.0	11,732.0	16,173.1	11,894.0	35.0	35.6	-111.09	4,482.9	-75.9	449.6	376.8	72.86	6.171		
16,000.0	11,732.0	16,273.1	11,894.0	35.7	36.3	-111.09	4,582.9	-76.5	449.7	375.4	74.30	6.052		
16,100.0	11,732.0	16,373.1	11,894.0	36.4	37.0	-111.09	4,682.9	-77.2	449.7	373.9	75.75	5.936		
16,200.0	11,732.0	16,473.1	11,894.0	37.2	37.8	-111.09	4,782.9	-77.8	449.7	372.5	77.19	5.825		
16,300.0	11,732.0	16,573.1	11,894.0	37.9	38.5	-111.09	4,882.9	-78.4	449.7	371.0	78.64	5.718		
16,400.0	11,732.0	16,673.1	11,894.0	38.6	39.3	-111.09	4,982.9	-79.1	449.7	369.6	80.10	5.614		
16,500.0	11,732.0	16,773.1	11,894.0	39.4	40.0	-111.09	5,082.9	-79.7	449.7	368.2	81.56	5.514		
16,600.0	11,732.0	16,873.1	11,894.0	40.1	40.8	-111.09	5,182.9	-80.3	449.7	366.7	83.01	5.417		
16,700.0	11,732.0	16,973.1	11,894.0	40.9	41.5	-111.09	5,282.9	-81.0	449.7	365.3	84.48	5.324		
16,800.0	11,732.0	17,073.1	11,894.0	41.6	42.3	-111.09	5,382.9	-81.6	449.7	363.8	85.94	5.233		
16,900.0	11,732.0	17,173.1	11,894.0	42.3	43.0	-111.08	5,482.9	-82.2	449.8	362.4	87.41	5.146		
17,000.0	11,732.0	17,273.1	11,894.0	43.1	43.8	-111.08	5,582.9	-82.9	449.8	360.9	88.88	5.061		
17,100.0	11,732.0	17,373.1	11,894.0	43.8	44.5	-111.08	5,682.9	-83.5	449.8	359.4	90.35	4.978		
17,200.0	11,732.0	17,473.1	11,894.0	44.6	45.3	-111.08	5,782.9	-84.1	449.8	358.0	91.82	4.899		
17,300.0	11,732.0	17,573.1	11,894.0	45.3	46.0	-111.08	5,882.9	-84.8	449.8	356.5	93.30	4.821		
17,400.0	11,732.0	17,673.1	11,894.0	46.0	46.8	-111.08	5,982.9	-85.4	449.8	355.0	94.77	4.746		
17,500.0	11,732.0	17,773.1	11,894.0	46.8	47.5	-111.08	6,082.9	-86.0	449.8	353.6	96.25	4.673		
17,600.0	11,732.0	17,873.1	11,894.0	47.5	48.3	-111.08	6,182.9	-86.7	449.8	352.1	97.73	4.603		
17,700.0	11,732.0	17,973.1	11,894.0	48.3	49.0	-111.08	6,282.9	-87.3	449.9	350.6	99.22	4.534		
17,800.0	11,732.0	18,073.1	11,894.0	49.0	49.8	-111.08	6,382.9	-87.9	449.9	349.2	100.70	4.467		
17,900.0	11,732.0	18,173.1	11,894.0	49.8	50.5	-111.08	6,482.9	-88.6	449.9	347.7	102.19	4.403		
18,000.0	11,732.0	18,273.1	11,894.0	50.5	51.3	-111.08	6,582.9	-89.2	449.9	346.2	103.67	4.340		
18,100.0	11,732.0	18,373.1	11,894.0	51.3	52.0	-111.08	6,682.9	-89.8	449.9	344.7	105.16	4.278		

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,200.0	11,732.0	18,473.1	11,894.0	52.0	52.8	-111.08	6,782.9	-90.5	449.9	343.3	106.65	4.219	
18,300.0	11,732.0	18,573.1	11,894.0	52.8	53.5	-111.08	6,882.9	-91.1	449.9	341.8	108.14	4.161	
18,400.0	11,732.0	18,673.1	11,894.0	53.5	54.3	-111.08	6,982.9	-91.7	449.9	340.3	109.63	4.104	
18,500.0	11,732.0	18,773.1	11,894.0	54.3	55.0	-111.08	7,082.9	-92.4	449.9	338.8	111.12	4.049	
18,600.0	11,732.0	18,873.1	11,894.0	55.0	55.8	-111.08	7,182.9	-93.0	450.0	337.3	112.62	3.995	
18,700.0	11,732.0	18,973.1	11,894.0	55.8	56.5	-111.07	7,282.9	-93.6	450.0	335.9	114.11	3.943	
18,800.0	11,732.0	19,073.1	11,894.0	56.5	57.3	-111.07	7,382.9	-94.3	450.0	334.4	115.61	3.892	
18,900.0	11,732.0	19,173.1	11,894.0	57.3	58.1	-111.07	7,482.9	-94.9	450.0	332.9	117.11	3.843	
19,000.0	11,732.0	19,273.1	11,894.0	58.0	58.8	-111.07	7,582.9	-95.5	450.0	331.4	118.60	3.794	
19,100.0	11,732.0	19,373.1	11,894.0	58.8	59.6	-111.07	7,682.9	-96.2	450.0	329.9	120.10	3.747	
19,200.0	11,732.0	19,473.1	11,894.0	59.5	60.3	-111.07	7,782.9	-96.8	450.0	328.4	121.60	3.701	
19,300.0	11,732.0	19,573.1	11,894.0	60.3	61.1	-111.07	7,882.9	-97.4	450.0	326.9	123.10	3.656	
19,400.0	11,732.0	19,673.1	11,894.0	61.0	61.8	-111.07	7,982.9	-98.1	450.0	325.4	124.60	3.612	
19,500.0	11,732.0	19,773.1	11,894.0	61.8	62.6	-111.07	8,082.9	-98.7	450.1	324.0	126.11	3.569	
19,600.0	11,732.0	19,873.1	11,894.0	62.5	63.3	-111.07	8,182.9	-99.3	450.1	322.5	127.61	3.527	
19,603.9	11,732.0	19,877.0	11,894.0	62.6	63.4	-111.07	8,186.8	-99.4	450.1	322.4	127.67	3.525	
19,647.7	11,732.0	19,919.4	11,894.0	62.9	63.7	-111.07	8,229.1	-99.6	450.1	321.8	128.30	3.508	
19,648.6	11,732.0	19,919.4	11,894.0	62.9	63.7	-111.07	8,229.1	-99.6	450.1	321.8	128.31	3.508 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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)	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	-155.06	-141.1	-65.6	155.6				
100.0	100.0	98.8	98.8	3.0	3.0	3.0	-155.06	-141.1	-65.6	155.6	149.6	6.00	25.937	
200.0	200.0	198.8	198.8	3.0	3.0	3.0	-155.06	-141.1	-65.6	155.6	149.6	6.01	25.901	
300.0	300.0	298.8	298.8	3.0	3.0	3.0	-155.06	-141.1	-65.6	155.6	149.6	6.03	25.821	
400.0	400.0	398.8	398.8	3.0	3.0	3.0	-155.06	-141.1	-65.6	155.6	149.6	6.06	25.700	
500.0	500.0	498.8	498.8	3.1	3.1	3.1	-155.06	-141.1	-65.6	155.6	149.5	6.09	25.538	
600.0	600.0	598.8	598.8	3.1	3.1	3.1	-155.06	-141.1	-65.6	155.6	149.5	6.14	25.339	
700.0	700.0	698.8	698.8	3.1	3.1	3.1	-155.06	-141.1	-65.6	155.6	149.4	6.20	25.104	
800.0	800.0	798.8	798.8	3.2	3.2	3.2	-155.06	-141.1	-65.6	155.6	149.4	6.27	24.838	
900.0	900.0	898.8	898.8	3.2	3.2	3.2	-155.06	-141.1	-65.6	155.6	149.3	6.34	24.542	
1,000.0	1,000.0	998.8	998.8	3.2	3.2	3.2	-155.06	-141.1	-65.6	155.6	149.2	6.43	24.222	
1,100.0	1,100.0	1,098.8	1,098.8	3.3	3.3	3.3	-155.06	-141.1	-65.6	155.6	149.1	6.52	23.879	
1,200.0	1,200.0	1,198.8	1,198.8	3.4	3.4	3.4	-155.06	-141.1	-65.6	155.6	149.0	6.62	23.518	
1,300.0	1,300.0	1,298.8	1,298.8	3.4	3.4	3.4	-155.06	-141.1	-65.6	155.6	148.9	6.73	23.142	
1,400.0	1,400.0	1,398.8	1,398.8	3.5	3.5	3.5	-155.06	-141.1	-65.6	155.6	148.8	6.84	22.754	
1,500.0	1,500.0	1,498.8	1,498.8	3.5	3.5	3.5	-155.06	-141.1	-65.6	155.6	148.7	6.96	22.356	
1,600.0	1,600.0	1,598.8	1,598.8	3.6	3.6	3.6	-155.06	-141.1	-65.6	155.6	148.5	7.09	21.952	
1,700.0	1,700.0	1,698.8	1,698.8	3.7	3.7	3.7	-155.06	-141.1	-65.6	155.6	148.4	7.22	21.545	
1,800.0	1,800.0	1,798.8	1,798.8	3.8	3.8	3.8	-155.06	-141.1	-65.6	155.6	148.3	7.36	21.135	
1,900.0	1,900.0	1,898.8	1,898.8	3.9	3.9	3.9	-155.06	-141.1	-65.6	155.6	148.1	7.51	20.726	
2,000.0	2,000.0	1,998.8	1,998.8	3.9	3.9	3.9	-155.06	-141.1	-65.6	155.6	148.0	7.66	20.318	
2,100.0	2,100.0	2,098.8	2,098.8	4.0	4.0	4.0	-155.06	-141.1	-65.6	155.6	147.8	7.82	19.914	
2,200.0	2,200.0	2,198.8	2,198.8	4.1	4.1	4.1	-155.06	-141.1	-65.6	155.6	147.7	7.98	19.514	
2,300.0	2,300.0	2,298.8	2,298.8	4.2	4.2	4.2	-155.06	-141.1	-65.6	155.6	147.5	8.14	19.121	
2,400.0	2,400.0	2,398.8	2,398.8	4.3	4.3	4.3	-155.06	-141.1	-65.6	155.6	147.3	8.31	18.733	
2,500.0	2,500.0	2,498.8	2,498.8	4.4	4.4	4.4	-155.06	-141.1	-65.6	155.6	147.2	8.48	18.353	
2,600.0	2,600.0	2,604.2	2,604.2	4.5	4.5	4.5	134.10	-139.4	-64.9	155.1	146.4	8.64	17.942	
2,642.3	2,642.3	2,646.5	2,646.5	4.5	4.5	4.5	134.60	-138.0	-64.3	154.8	146.1	8.70	17.800 CC, ES	
2,700.0	2,699.8	2,704.1	2,704.0	4.5	4.6	4.6	135.53	-136.2	-63.5	155.3	146.5	8.77	17.694 SF	
2,800.0	2,799.5	2,803.9	2,803.7	4.6	4.7	4.7	137.77	-133.0	-62.1	158.1	149.2	8.89	17.795	
2,900.0	2,898.9	2,903.5	2,903.3	4.6	4.8	4.8	140.37	-129.8	-60.7	162.6	153.6	8.99	18.089	
3,000.0	2,998.4	3,003.2	3,002.9	4.7	4.9	4.9	142.82	-126.6	-59.3	167.3	158.2	9.09	18.407	
3,100.0	3,097.8	3,102.8	3,102.5	4.8	5.0	5.0	145.13	-123.4	-57.9	172.4	163.2	9.20	18.744	
3,200.0	3,197.3	3,202.4	3,202.0	4.8	5.1	5.1	147.30	-120.3	-56.5	177.7	168.4	9.31	19.097	
3,300.0	3,296.7	3,302.1	3,301.6	4.9	5.2	5.2	149.35	-117.1	-55.1	183.3	173.9	9.42	19.462	
3,400.0	3,396.2	3,401.7	3,401.2	5.0	5.3	5.3	151.28	-113.9	-53.8	189.1	179.5	9.53	19.836	
3,500.0	3,495.6	3,501.3	3,500.8	5.0	5.4	5.4	153.09	-110.7	-52.4	195.0	185.4	9.65	20.217	
3,600.0	3,595.1	3,601.0	3,600.3	5.1	5.5	5.5	154.79	-107.5	-51.0	201.2	191.4	9.77	20.601	
3,700.0	3,694.5	3,700.6	3,699.9	5.2	5.6	5.6	156.38	-104.3	-49.6	207.5	197.7	9.89	20.987	
3,800.0	3,794.0	3,797.7	3,796.9	5.3	5.7	5.7	157.79	-101.7	-48.5	214.5	204.5	10.02	21.417	
3,900.0	3,893.4	3,893.9	3,893.2	5.4	5.8	5.8	158.91	-100.5	-47.9	223.0	212.9	10.15	21.967	
4,000.0	3,992.9	3,992.4	3,991.7	5.4	5.9	5.9	159.84	-100.4	-47.9	232.8	222.5	10.29	22.621	
4,100.0	4,092.3	4,091.9	4,091.1	5.5	6.0	6.0	160.69	-100.4	-47.9	242.6	232.2	10.43	23.268	
4,200.0	4,191.8	4,191.3	4,190.6	5.6	6.1	6.1	161.47	-100.4	-47.9	252.5	241.9	10.57	23.895	
4,300.0	4,291.2	4,290.8	4,290.0	5.7	6.2	6.2	162.20	-100.4	-47.9	262.5	251.7	10.71	24.504	
4,400.0	4,390.7	4,390.2	4,389.5	5.8	6.4	6.4	162.87	-100.4	-47.9	272.4	261.6	10.86	25.094	
4,500.0	4,490.1	4,489.7	4,488.9	5.9	6.5	6.5	163.49	-100.4	-47.9	282.4	271.4	11.00	25.666	
4,600.0	4,589.6	4,589.1	4,588.4	6.0	6.6	6.6	164.07	-100.4	-47.9	292.5	281.3	11.15	26.221	
4,700.0	4,689.0	4,688.6	4,687.8	6.1	6.7	6.7	164.62	-100.4	-47.9	302.6	291.2	11.31	26.757	
4,800.0	4,788.5	4,788.0	4,787.3	6.2	6.8	6.8	165.12	-100.4	-47.9	312.6	301.2	11.46	27.277	
4,900.0	4,887.9	4,887.5	4,886.7	6.3	6.9	6.9	165.60	-100.4	-47.9	322.8	311.1	11.62	27.780	
5,000.0	4,987.4	4,986.9	4,986.2	6.4	7.1	7.1	166.05	-100.4	-47.9	332.9	321.1	11.78	28.268	

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)				
5,100.0	5,086.9	5,086.4	5,085.7	6.5	7.2	166.47	-100.4	-47.9	343.1	331.1	11.94	28.739		
5,200.0	5,186.3	5,185.8	5,185.1	6.6	7.3	166.87	-100.4	-47.9	353.2	341.1	12.10	29.195		
5,300.0	5,285.8	5,285.3	5,284.6	6.7	7.4	167.24	-100.4	-47.9	363.4	351.2	12.26	29.637		
5,400.0	5,385.2	5,384.8	5,384.0	6.8	7.5	167.59	-100.4	-47.9	373.6	361.2	12.43	30.065		
5,500.0	5,484.7	5,484.2	5,483.5	6.9	7.7	167.93	-100.4	-47.9	383.8	371.2	12.59	30.479		
5,600.0	5,584.1	5,583.7	5,582.9	7.0	7.8	168.25	-100.4	-47.9	394.1	381.3	12.76	30.879		
5,700.0	5,683.6	5,683.1	5,682.4	7.1	7.9	168.55	-100.4	-47.9	404.3	391.4	12.93	31.267		
5,800.0	5,783.0	5,782.6	5,781.8	7.2	8.0	168.84	-100.4	-47.9	414.6	401.5	13.10	31.643		
5,900.0	5,882.5	5,882.0	5,881.3	7.3	8.1	169.11	-100.4	-47.9	424.8	411.6	13.27	32.007		
6,000.0	5,981.9	5,981.5	5,980.7	7.4	8.3	169.37	-100.4	-47.9	435.1	421.7	13.45	32.360		
6,100.0	6,081.4	6,080.9	6,080.2	7.5	8.4	169.62	-100.4	-47.9	445.4	431.8	13.62	32.701		
6,200.0	6,180.8	6,180.4	6,179.6	7.7	8.5	169.85	-100.4	-47.9	455.7	441.9	13.79	33.032		
6,300.0	6,280.3	6,279.8	6,279.1	7.8	8.6	170.08	-100.4	-47.9	466.0	452.0	13.97	33.353		
6,388.4	6,368.2	6,367.7	6,367.0	7.9	8.7	170.27	-100.4	-47.9	475.1	460.9	14.13	33.628		
6,400.0	6,379.7	6,379.3	6,378.5	7.9	8.7	170.30	-100.4	-47.9	476.3	462.1	14.15	33.663		
6,500.0	6,479.3	6,478.8	6,478.1	8.0	8.9	170.50	-100.4	-47.9	485.5	471.2	14.33	33.887		
6,600.0	6,579.0	6,578.5	6,577.8	8.1	9.0	170.66	-100.4	-47.9	493.0	478.5	14.51	33.978		
6,700.0	6,678.8	6,678.4	6,677.6	8.2	9.1	170.78	-100.4	-47.9	498.9	484.2	14.70	33.943		
6,800.0	6,778.7	6,778.3	6,777.5	8.3	9.2	170.86	-100.4	-47.9	503.0	488.1	14.89	33.787		
6,900.0	6,878.7	6,878.2	6,877.5	8.4	9.4	170.91	-100.4	-47.9	505.4	490.3	15.08	33.512		
6,988.4	6,967.1	6,966.6	6,965.9	8.5	9.5	-117.73	-100.4	-47.9	506.0	490.8	15.23	33.215		
7,000.0	6,978.7	6,978.2	6,977.5	8.5	9.5	-117.73	-100.4	-47.9	506.0	490.8	15.25	33.176		
7,100.0	7,078.7	7,078.2	7,077.5	8.6	9.6	-117.73	-100.4	-47.9	506.0	490.6	15.41	32.840		
7,200.0	7,178.7	7,178.2	7,177.5	8.7	9.7	-117.73	-100.4	-47.9	506.0	490.5	15.57	32.509		
7,300.0	7,278.7	7,278.2	7,277.5	8.8	9.9	-117.73	-100.4	-47.9	506.0	490.3	15.72	32.184		
7,400.0	7,378.7	7,378.2	7,377.5	8.9	10.0	-117.73	-100.4	-47.9	506.0	490.2	15.88	31.866		
7,500.0	7,478.7	7,478.2	7,477.5	9.0	10.1	-117.73	-100.4	-47.9	506.0	490.0	16.04	31.552		
7,600.0	7,578.7	7,578.2	7,577.5	9.1	10.2	-117.73	-100.4	-47.9	506.0	489.8	16.20	31.244		
7,700.0	7,678.7	7,678.2	7,677.5	9.3	10.4	-117.73	-100.4	-47.9	506.0	489.7	16.35	30.942		
7,800.0	7,778.7	7,778.2	7,777.5	9.4	10.5	-117.73	-100.4	-47.9	506.0	489.5	16.51	30.644		
7,900.0	7,878.7	7,878.2	7,877.5	9.5	10.6	-117.73	-100.4	-47.9	506.0	489.4	16.67	30.352		
8,000.0	7,978.7	7,978.2	7,977.5	9.6	10.7	-117.73	-100.4	-47.9	506.0	489.2	16.83	30.065		
8,100.0	8,078.7	8,078.2	8,077.5	9.7	10.9	-117.73	-100.4	-47.9	506.0	489.0	16.99	29.783		
8,200.0	8,178.7	8,178.2	8,177.5	9.8	11.0	-117.73	-100.4	-47.9	506.0	488.9	17.15	29.505		
8,300.0	8,278.7	8,278.2	8,277.5	9.9	11.1	-117.73	-100.4	-47.9	506.0	488.7	17.31	29.232		
8,400.0	8,378.7	8,378.2	8,377.5	10.0	11.3	-117.73	-100.4	-47.9	506.0	488.6	17.47	28.964		
8,500.0	8,478.7	8,478.2	8,477.5	10.1	11.4	-117.73	-100.4	-47.9	506.0	488.4	17.63	28.700		
8,600.0	8,578.7	8,578.2	8,577.5	10.2	11.5	-117.73	-100.4	-47.9	506.0	488.2	17.79	28.440		
8,700.0	8,678.7	8,678.2	8,677.5	10.3	11.6	-117.73	-100.4	-47.9	506.0	488.1	17.95	28.185		
8,800.0	8,778.7	8,778.2	8,777.5	10.4	11.8	-117.73	-100.4	-47.9	506.0	487.9	18.12	27.934		
8,900.0	8,878.7	8,878.2	8,877.5	10.6	11.9	-117.73	-100.4	-47.9	506.0	487.8	18.28	27.687		
9,000.0	8,978.7	8,978.2	8,977.5	10.7	12.0	-117.73	-100.4	-47.9	506.0	487.6	18.44	27.444		
9,100.0	9,078.7	9,078.2	9,077.5	10.8	12.1	-117.73	-100.4	-47.9	506.0	487.4	18.60	27.204		
9,200.0	9,178.7	9,178.2	9,177.5	10.9	12.3	-117.73	-100.4	-47.9	506.0	487.3	18.76	26.969		
9,300.0	9,278.7	9,278.2	9,277.5	11.0	12.4	-117.73	-100.4	-47.9	506.0	487.1	18.93	26.738		
9,400.0	9,378.7	9,378.2	9,377.5	11.1	12.5	-117.73	-100.4	-47.9	506.0	486.9	19.09	26.510		
9,500.0	9,478.7	9,478.2	9,477.5	11.2	12.7	-117.73	-100.4	-47.9	506.0	486.8	19.25	26.285		
9,600.0	9,578.7	9,578.2	9,577.5	11.3	12.8	-117.73	-100.4	-47.9	506.0	486.6	19.41	26.064		
9,700.0	9,678.7	9,678.2	9,677.5	11.5	12.9	-117.73	-100.4	-47.9	506.0	486.5	19.58	25.847		
9,800.0	9,778.7	9,778.2	9,777.5	11.6	13.0	-117.73	-100.4	-47.9	506.0	486.3	19.74	25.633		
9,900.0	9,878.7	9,878.2	9,877.5	11.7	13.2	-117.73	-100.4	-47.9	506.0	486.1	19.91	25.422		
10,000.0	9,978.7	9,978.2	9,977.5	11.8	13.3	-117.73	-100.4	-47.9	506.0	486.0	20.07	25.215		

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)		Rule Assigned: Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
+N/-S (usft)	+E/-W (usft)														
10,100.0	10,078.7	10,078.2	10,077.5	11.9	13.4	-117.73	-100.4	-47.9	506.0	485.8	20.23	25.010			
10,200.0	10,178.7	10,178.2	10,177.5	12.0	13.6	-117.73	-100.4	-47.9	506.0	485.6	20.40	24.809			
10,300.0	10,278.7	10,278.2	10,277.5	12.1	13.7	-117.73	-100.4	-47.9	506.0	485.5	20.56	24.611			
10,400.0	10,378.7	10,378.2	10,377.5	12.3	13.8	-117.73	-100.4	-47.9	506.0	485.3	20.73	24.415			
10,500.0	10,478.7	10,478.2	10,477.5	12.4	13.9	-117.73	-100.4	-47.9	506.0	485.1	20.89	24.223			
10,600.0	10,578.7	10,578.2	10,577.5	12.5	14.1	-117.73	-100.4	-47.9	506.0	485.0	21.06	24.033			
10,700.0	10,678.7	10,678.2	10,677.5	12.6	14.2	-117.73	-100.4	-47.9	506.0	484.8	21.22	23.846			
10,800.0	10,778.7	10,778.2	10,777.5	12.7	14.3	-117.73	-100.4	-47.9	506.0	484.6	21.39	23.662			
10,900.0	10,878.7	10,878.2	10,877.5	12.8	14.5	-117.73	-100.4	-47.9	506.0	484.5	21.55	23.481			
11,000.0	10,978.7	10,978.2	10,977.5	13.0	14.6	-117.73	-100.4	-47.9	506.0	484.3	21.72	23.302			
11,100.0	11,078.7	11,078.2	11,077.5	13.1	14.7	-117.73	-100.4	-47.9	506.0	484.2	21.85	23.155			
11,200.0	11,178.7	11,178.2	11,177.5	13.2	14.7	-117.73	-100.4	-47.9	506.0	484.1	21.96	23.042			
11,210.6	11,189.3	11,188.8	11,188.1	13.2	14.7	-117.73	-100.4	-47.9	506.0	484.1	21.97	23.033			
11,275.8	11,254.5	11,250.0	11,249.3	13.3	14.7	-117.73	-100.5	-47.9	506.1	484.0	22.02	22.980			
11,300.0	11,278.7	11,267.7	11,267.0	13.3	14.7	-114.16	-100.9	-47.9	506.6	484.6	22.06	22.966			
11,325.0	11,303.6	11,284.3	11,283.5	13.3	14.7	-114.23	-102.0	-47.9	508.1	486.0	22.16	22.933			
11,350.0	11,328.4	11,300.0	11,299.1	13.3	14.7	-114.31	-103.5	-47.9	510.6	488.3	22.31	22.883			
11,375.0	11,353.0	11,316.2	11,315.2	13.4	14.7	-114.43	-105.6	-47.9	514.1	491.6	22.52	22.825			
11,400.0	11,377.3	11,331.2	11,330.0	13.4	14.7	-114.52	-108.0	-47.9	518.6	495.8	22.79	22.756			
11,425.0	11,401.3	11,345.4	11,344.0	13.4	14.7	-114.56	-110.7	-47.9	524.1	501.0	23.10	22.683			
11,450.0	11,424.9	11,358.8	11,357.0	13.4	14.7	-114.53	-113.7	-47.8	530.7	507.2	23.47	22.613			
11,475.0	11,448.0	11,375.0	11,372.7	13.5	14.7	-114.64	-117.7	-47.8	538.4	514.6	23.83	22.598			
11,500.0	11,470.5	11,382.7	11,380.1	13.5	14.7	-114.13	-119.8	-47.8	547.2	522.9	24.32	22.504			
11,525.0	11,492.5	11,393.1	11,390.1	13.5	14.8	-113.70	-122.9	-47.8	557.2	532.4	24.79	22.478			
11,550.0	11,513.9	11,400.0	11,396.6	13.6	14.8	-112.88	-125.0	-47.8	568.2	542.9	25.32	22.441			
11,575.0	11,534.5	11,410.9	11,407.0	13.6	14.8	-112.26	-128.6	-47.8	580.3	554.6	25.78	22.514			
11,600.0	11,554.4	11,418.4	11,413.9	13.7	14.8	-111.20	-131.1	-47.7	593.5	567.2	26.28	22.585			
11,625.0	11,573.4	11,425.0	11,420.1	13.7	14.8	-109.90	-133.5	-47.7	607.6	580.8	26.77	22.698			
11,650.0	11,591.6	11,425.0	11,420.1	13.7	14.8	-107.74	-133.5	-47.7	622.7	595.4	27.36	22.757			
11,675.0	11,608.8	11,435.0	11,429.4	13.8	14.8	-106.41	-137.3	-47.7	638.6	610.9	27.72	23.040			
11,700.0	11,625.1	11,438.9	11,432.9	13.8	14.8	-104.22	-138.8	-47.7	655.3	627.1	28.16	23.274			
11,725.0	11,640.3	11,441.9	11,435.7	13.8	14.8	-101.73	-140.0	-47.7	672.7	644.1	28.57	23.550			
11,750.0	11,654.5	11,450.0	11,443.1	13.9	14.8	-99.61	-143.3	-47.7	690.8	662.0	28.83	23.963			
11,775.0	11,667.6	11,450.0	11,443.1	13.9	14.8	-96.31	-143.3	-47.7	709.4	680.2	29.21	24.289			
11,800.0	11,679.6	11,450.0	11,443.1	13.9	14.8	-92.80	-143.3	-47.7	728.4	698.9	29.54	24.661			
11,825.0	11,690.4	11,450.0	11,443.1	13.9	14.8	-89.09	-143.3	-47.7	747.8	718.0	29.82	25.077			
11,850.0	11,700.0	11,450.0	11,443.1	14.0	14.8	-85.24	-143.3	-47.7	767.6	737.5	30.06	25.534			
11,875.0	11,708.3	11,450.0	11,443.1	14.0	14.8	-81.28	-143.3	-47.7	787.5	757.3	30.26	26.028			
11,900.0	11,715.5	11,450.0	11,443.1	14.0	14.8	-77.28	-143.3	-47.7	807.7	777.3	30.41	26.556			
11,925.0	11,721.4	11,450.0	11,443.1	14.0	14.8	-73.28	-143.3	-47.7	827.9	797.4	30.53	27.116			
11,950.0	11,726.0	11,440.6	11,434.5	14.1	14.8	-68.35	-139.5	-47.7	848.1	817.3	30.78	27.550			
11,975.0	11,729.3	11,438.0	11,432.1	14.1	14.8	-64.33	-138.4	-47.7	868.2	837.4	30.87	28.122			
12,000.0	11,731.3	11,435.0	11,429.4	14.1	14.8	-60.48	-137.3	-47.7	888.3	857.4	30.94	28.711			
12,025.8	11,732.0	11,425.0	11,420.1	14.1	14.8	-56.18	-133.5	-47.7	908.9	877.8	31.09	29.232			
12,106.9	11,732.0	11,425.0	11,420.1	14.2	14.8	-53.52	-133.5	-47.7	975.2	944.3	30.99	31.471			

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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 #115H - OWB - PWP1														Offset Site Error:		0.0 usft
Survey Program: 0-Standard Keeper 104, 11453-MWD+IFR1+FDIR				Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error:		3.0 usft	
Reference	Offset	Reference	Offset	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)											
0.0	0.0	0.0	0.0	3.0	3.0	-166.98	-140.8	-32.6	144.6							
100.0	100.0	99.3	99.3	3.0	3.0	-166.98	-140.8	-32.6	144.6	138.6	6.00	24.091				
200.0	200.0	199.3	199.3	3.0	3.0	-166.98	-140.8	-32.6	144.6	138.6	6.01	24.054				
300.0	300.0	299.3	299.3	3.0	3.0	-166.98	-140.8	-32.6	144.6	138.5	6.03	23.972				
400.0	400.0	399.3	399.3	3.0	3.0	-166.98	-140.8	-32.6	144.6	138.5	6.06	23.848				
500.0	500.0	499.3	499.3	3.1	3.1	-166.98	-140.8	-32.6	144.6	138.5	6.10	23.682				
600.0	600.0	599.3	599.3	3.1	3.1	-166.98	-140.8	-32.6	144.6	138.4	6.16	23.479				
700.0	700.0	699.3	699.3	3.1	3.1	-166.98	-140.8	-32.6	144.6	138.3	6.22	23.240				
800.0	800.0	799.3	799.3	3.2	3.2	-166.98	-140.8	-32.6	144.6	138.3	6.29	22.970				
900.0	900.0	899.3	899.3	3.2	3.2	-166.98	-140.8	-32.6	144.6	138.2	6.38	22.671				
1,000.0	1,000.0	999.3	999.3	3.2	3.2	-166.98	-140.8	-32.6	144.6	138.1	6.47	22.348				
1,100.0	1,100.0	1,099.3	1,099.3	3.3	3.3	-166.98	-140.8	-32.6	144.6	138.0	6.57	22.004				
1,200.0	1,200.0	1,199.3	1,199.3	3.4	3.4	-166.98	-140.8	-32.6	144.6	137.9	6.68	21.643				
1,300.0	1,300.0	1,299.3	1,299.3	3.4	3.4	-166.98	-140.8	-32.6	144.6	137.8	6.80	21.268				
1,400.0	1,400.0	1,399.3	1,399.3	3.5	3.5	-166.98	-140.8	-32.6	144.6	137.6	6.92	20.883				
1,500.0	1,500.0	1,499.3	1,499.3	3.5	3.5	-166.98	-140.8	-32.6	144.6	137.5	7.06	20.490				
1,600.0	1,600.0	1,599.3	1,599.3	3.6	3.6	-166.98	-140.8	-32.6	144.6	137.4	7.19	20.093				
1,700.0	1,700.0	1,699.3	1,699.3	3.7	3.7	-166.98	-140.8	-32.6	144.6	137.2	7.34	19.693				
1,800.0	1,800.0	1,799.3	1,799.3	3.8	3.8	-166.98	-140.8	-32.6	144.6	137.1	7.49	19.293				
1,900.0	1,900.0	1,899.3	1,899.3	3.9	3.9	-166.98	-140.8	-32.6	144.6	136.9	7.65	18.895				
2,000.0	2,000.0	1,999.3	1,999.3	3.9	3.9	-166.98	-140.8	-32.6	144.6	136.8	7.81	18.500				
2,100.0	2,100.0	2,099.3	2,099.3	4.0	4.0	-166.98	-140.8	-32.6	144.6	136.6	7.98	18.110				
2,200.0	2,200.0	2,199.3	2,199.3	4.1	4.1	-166.98	-140.8	-32.6	144.6	136.4	8.16	17.726				
2,300.0	2,300.0	2,299.3	2,299.3	4.2	4.2	-166.98	-140.8	-32.6	144.6	136.2	8.33	17.349				
2,400.0	2,400.0	2,399.3	2,399.3	4.3	4.3	-166.98	-140.8	-32.6	144.6	136.0	8.51	16.978				
2,500.0	2,500.0	2,499.3	2,499.3	4.4	4.4	-166.98	-140.8	-32.6	144.6	135.9	8.70	16.616 CC				
2,600.0	2,600.0	2,601.5	2,601.5	4.5	4.5	121.62	-140.5	-30.8	144.7	135.9	8.86	16.343				
2,700.0	2,699.8	2,703.7	2,703.5	4.5	4.5	121.47	-139.3	-25.5	145.2	136.2	8.98	16.174				
2,800.0	2,799.5	2,805.9	2,805.3	4.6	4.6	121.21	-137.4	-16.6	146.0	136.9	9.10	16.044				
2,900.0	2,898.9	2,907.8	2,906.4	4.6	4.6	120.27	-134.7	-4.2	146.2	137.0	9.23	15.849				
3,000.0	2,998.4	3,007.8	3,005.4	4.7	4.7	118.81	-131.8	9.3	145.9	136.5	9.35	15.601				
3,100.0	3,097.8	3,107.7	3,104.4	4.8	4.7	117.34	-128.8	22.9	145.7	136.2	9.47	15.378				
3,200.0	3,197.3	3,207.6	3,203.3	4.8	4.8	115.87	-125.9	36.5	145.5	135.9	9.59	15.181				
3,288.2	3,285.0	3,295.7	3,290.6	4.9	4.8	114.57	-123.3	48.5	145.5	135.8	9.68	15.026				
3,300.0	3,296.7	3,307.5	3,302.3	4.9	4.8	114.40	-122.9	50.1	145.5	135.8	9.70	15.007				
3,400.0	3,396.2	3,407.5	3,401.2	5.0	4.9	112.93	-120.0	63.7	145.6	135.8	9.80	14.855 ES				
3,500.0	3,495.6	3,507.4	3,500.2	5.0	5.0	111.46	-117.0	77.3	145.7	135.8	9.90	14.724				
3,600.0	3,595.1	3,607.3	3,599.2	5.1	5.1	109.99	-114.1	90.9	146.0	136.0	9.99	14.614				
3,700.0	3,694.5	3,707.3	3,698.1	5.2	5.1	108.53	-111.1	104.5	146.3	136.2	10.08	14.522				
3,800.0	3,794.0	3,807.2	3,797.1	5.3	5.2	107.08	-108.2	118.1	146.8	136.6	10.16	14.448				
3,900.0	3,893.4	3,907.1	3,896.0	5.4	5.3	105.64	-105.3	131.7	147.3	137.1	10.24	14.391				
4,000.0	3,992.9	4,007.1	3,995.0	5.4	5.4	104.21	-102.3	145.3	147.9	137.6	10.31	14.348				
4,100.0	4,092.3	4,107.0	4,093.9	5.5	5.5	102.79	-99.4	158.9	148.6	138.3	10.38	14.320				
4,200.0	4,191.8	4,206.9	4,192.9	5.6	5.5	101.39	-96.4	172.4	149.4	139.0	10.45	14.305				
4,300.0	4,291.2	4,306.8	4,291.9	5.7	5.6	100.00	-93.5	186.0	150.3	139.8	10.51	14.302				
4,400.0	4,390.7	4,406.8	4,390.8	5.8	5.7	98.63	-90.5	199.6	151.3	140.8	10.58	14.309				
4,500.0	4,490.1	4,506.7	4,489.8	5.9	5.8	97.28	-87.6	213.2	152.4	141.8	10.64	14.326				
4,600.0	4,589.6	4,606.6	4,588.7	6.0	5.9	95.94	-84.6	226.8	153.6	142.9	10.70	14.350				
4,700.0	4,689.0	4,706.6	4,687.7	6.1	6.0	94.63	-81.7	240.4	154.8	144.0	10.76	14.382				
4,800.0	4,788.5	4,806.5	4,786.6	6.2	6.1	93.34	-78.7	254.0	156.1	145.3	10.83	14.419				
4,900.0	4,887.9	4,906.4	4,885.6	6.3	6.2	92.07	-75.8	267.6	157.5	146.6	10.89	14.461				
5,000.0	4,987.4	5,006.4	4,984.6	6.4	6.3	90.83	-72.8	281.2	159.0	148.0	10.96	14.506				

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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 #115H - OWB - PWP1													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 11453-MWD+IFR1+FDIR													0.0 usft
Rule Assigned:													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 +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,086.9	5,106.3	5,083.5	6.5	6.4	89.61	-69.9	294.8	160.5	149.5	11.03	14.555	
5,200.0	5,186.3	5,206.2	5,182.5	6.6	6.5	88.41	-67.0	308.4	162.1	151.0	11.10	14.604	
5,300.0	5,285.8	5,306.1	5,281.4	6.7	6.6	87.23	-64.0	322.0	163.8	152.6	11.18	14.655	
5,400.0	5,385.2	5,406.1	5,380.4	6.8	6.7	86.08	-61.1	335.6	165.6	154.3	11.26	14.705	
5,500.0	5,484.7	5,506.1	5,479.5	6.9	6.8	84.97	-58.1	349.1	167.4	156.0	11.35	14.753	
5,600.0	5,584.1	5,606.7	5,579.2	7.0	6.9	84.26	-55.4	361.6	169.0	157.6	11.45	14.755	
5,700.0	5,683.6	5,707.3	5,679.2	7.1	7.1	84.14	-53.1	372.4	170.3	158.7	11.60	14.685	
5,800.0	5,783.0	5,807.9	5,779.4	7.2	7.2	84.61	-51.1	381.5	171.2	159.4	11.77	14.547	
5,900.0	5,882.5	5,908.5	5,879.7	7.3	7.3	85.64	-49.5	388.9	171.8	159.8	11.97	14.349	
6,000.0	5,981.9	6,008.9	5,979.9	7.4	7.4	87.25	-48.3	394.5	172.1	159.9	12.20	14.109	
6,100.0	6,081.4	6,109.1	6,080.0	7.5	7.5	89.42	-47.4	398.4	172.4	159.9	12.46	13.836	
6,200.0	6,180.8	6,209.0	6,180.0	7.7	7.6	92.15	-47.0	400.6	172.7	160.0	12.76	13.535	
6,300.0	6,280.3	6,308.7	6,279.6	7.8	7.7	95.41	-46.8	401.1	173.4	160.3	13.14	13.204	
6,388.4	6,368.2	6,396.5	6,367.5	7.9	7.7	98.42	-46.8	401.1	174.6	161.1	13.50	12.928	
6,400.0	6,379.7	6,408.1	6,379.0	7.9	7.8	98.81	-46.8	401.1	174.7	161.2	13.55	12.895	
6,500.0	6,479.3	6,507.7	6,478.6	8.0	7.9	101.82	-46.8	401.1	176.4	162.5	13.95	12.652	
6,600.0	6,579.0	6,607.4	6,578.3	8.1	8.0	104.24	-46.8	401.1	178.2	163.9	14.30	12.461	
6,700.0	6,678.8	6,707.2	6,678.1	8.2	8.1	106.07	-46.8	401.1	179.7	165.1	14.60	12.307	
6,800.0	6,778.7	6,807.1	6,778.0	8.3	8.2	107.35	-46.8	401.1	180.9	166.0	14.86	12.173	
6,900.0	6,878.7	6,907.1	6,878.0	8.4	8.3	108.08	-46.8	401.1	181.6	166.6	15.08	12.041	
6,988.4	6,967.1	6,995.4	6,966.4	8.5	8.4	179.64	-46.8	401.1	181.9	166.6	15.27	11.909	
7,000.0	6,978.7	7,007.1	6,978.0	8.5	8.4	179.64	-46.8	401.1	181.9	166.6	15.30	11.890	
7,100.0	7,078.7	7,107.1	7,078.0	8.6	8.5	179.64	-46.8	401.1	181.9	166.3	15.51	11.724	
7,200.0	7,178.7	7,207.1	7,178.0	8.7	8.6	179.64	-46.8	401.1	181.9	166.1	15.73	11.562	
7,300.0	7,278.7	7,307.1	7,278.0	8.8	8.7	179.64	-46.8	401.1	181.9	165.9	15.95	11.403	
7,400.0	7,378.7	7,407.1	7,378.0	8.9	8.8	179.64	-46.8	401.1	181.9	165.7	16.17	11.248	
7,500.0	7,478.7	7,507.1	7,478.0	9.0	8.9	179.64	-46.8	401.1	181.9	165.5	16.39	11.095	
7,600.0	7,578.7	7,607.1	7,578.0	9.1	9.0	179.64	-46.8	401.1	181.9	165.2	16.61	10.947	
7,700.0	7,678.7	7,707.1	7,678.0	9.3	9.1	179.64	-46.8	401.1	181.9	165.0	16.84	10.801	
7,800.0	7,778.7	7,807.1	7,778.0	9.4	9.2	179.64	-46.8	401.1	181.9	164.8	17.06	10.658	
7,900.0	7,878.7	7,907.1	7,878.0	9.5	9.3	179.64	-46.8	401.1	181.9	164.6	17.29	10.519	
8,000.0	7,978.7	8,007.1	7,978.0	9.6	9.4	179.64	-46.8	401.1	181.9	164.3	17.52	10.382	
8,100.0	8,078.7	8,107.1	8,078.0	9.7	9.5	179.64	-46.8	401.1	181.9	164.1	17.74	10.249	
8,200.0	8,178.7	8,207.1	8,178.0	9.8	9.7	179.64	-46.8	401.1	181.9	163.9	17.97	10.118	
8,300.0	8,278.7	8,307.1	8,278.0	9.9	9.8	179.64	-46.8	401.1	181.9	163.7	18.20	9.990	
8,400.0	8,378.7	8,407.1	8,378.0	10.0	9.9	179.64	-46.8	401.1	181.9	163.4	18.43	9.865	
8,500.0	8,478.7	8,507.1	8,478.0	10.1	10.0	179.64	-46.8	401.1	181.9	163.2	18.67	9.742	
8,600.0	8,578.7	8,607.1	8,578.0	10.2	10.1	179.64	-46.8	401.1	181.9	163.0	18.90	9.622	
8,700.0	8,678.7	8,707.1	8,678.0	10.3	10.2	179.64	-46.8	401.1	181.9	162.7	19.13	9.505	
8,800.0	8,778.7	8,807.1	8,778.0	10.4	10.3	179.64	-46.8	401.1	181.9	162.5	19.37	9.390	
8,900.0	8,878.7	8,907.1	8,878.0	10.6	10.4	179.64	-46.8	401.1	181.9	162.3	19.60	9.277	
9,000.0	8,978.7	9,007.1	8,978.0	10.7	10.5	179.64	-46.8	401.1	181.9	162.0	19.84	9.167	
9,100.0	9,078.7	9,107.1	9,078.0	10.8	10.7	179.64	-46.8	401.1	181.9	161.8	20.07	9.059	
9,200.0	9,178.7	9,207.1	9,178.0	10.9	10.8	179.64	-46.8	401.1	181.9	161.5	20.31	8.953	
9,300.0	9,278.7	9,307.1	9,278.0	11.0	10.9	179.64	-46.8	401.1	181.9	161.3	20.55	8.850	
9,400.0	9,378.7	9,407.1	9,378.0	11.1	11.0	179.64	-46.8	401.1	181.9	161.1	20.79	8.748	
9,500.0	9,478.7	9,507.1	9,478.0	11.2	11.1	179.64	-46.8	401.1	181.9	160.8	21.03	8.649	
9,600.0	9,578.7	9,607.1	9,578.0	11.3	11.2	179.64	-46.8	401.1	181.9	160.6	21.27	8.551	
9,700.0	9,678.7	9,707.1	9,678.0	11.5	11.4	179.64	-46.8	401.1	181.9	160.3	21.51	8.456	
9,800.0	9,778.7	9,807.1	9,778.0	11.6	11.5	179.64	-46.8	401.1	181.9	160.1	21.75	8.362	
9,900.0	9,878.7	9,907.1	9,878.0	11.7	11.6	179.64	-46.8	401.1	181.9	159.9	21.99	8.270	
10,000.0	9,978.7	10,007.1	9,978.0	11.8	11.7	179.64	-46.8	401.1	181.9	159.6	22.23	8.180	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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 #115H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11453-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)				
10,100.0	10,078.7	10,107.1	10,078.0	11.9	11.8	179.64	-46.8	401.1	181.9	159.4	22.47	8.092		
10,200.0	10,178.7	10,207.1	10,178.0	12.0	11.9	179.64	-46.8	401.1	181.9	159.1	22.72	8.006		
10,300.0	10,278.7	10,307.1	10,278.0	12.1	12.1	179.64	-46.8	401.1	181.9	158.9	22.96	7.921		
10,400.0	10,378.7	10,407.1	10,378.0	12.3	12.2	179.64	-46.8	401.1	181.9	158.7	23.20	7.838		
10,500.0	10,478.7	10,507.1	10,478.0	12.4	12.3	179.64	-46.8	401.1	181.9	158.4	23.45	7.756		
10,600.0	10,578.7	10,607.1	10,578.0	12.5	12.4	179.64	-46.8	401.1	181.9	158.2	23.69	7.676		
10,700.0	10,678.7	10,707.1	10,678.0	12.6	12.5	179.64	-46.8	401.1	181.9	157.9	23.94	7.598		
10,800.0	10,778.7	10,807.1	10,778.0	12.7	12.6	179.64	-46.8	401.1	181.9	157.7	24.18	7.520		
10,900.0	10,878.7	10,907.1	10,878.0	12.8	12.8	179.64	-46.8	401.1	181.9	157.4	24.43	7.445		
11,000.0	10,978.7	11,007.1	10,978.0	13.0	12.9	179.64	-46.8	401.1	181.9	157.2	24.67	7.371		
11,100.0	11,078.7	11,107.1	11,078.0	13.1	13.0	179.64	-46.8	401.1	181.9	156.9	24.92	7.298		
11,200.0	11,178.7	11,207.1	11,178.0	13.2	13.1	179.64	-46.8	401.1	181.9	156.7	25.17	7.226		
11,275.8	11,254.5	11,282.9	11,253.8	13.3	13.2	179.64	-46.8	401.1	181.9	156.5	25.31	7.184 SF		
11,300.0	11,278.7	11,307.1	11,278.0	13.3	13.2	-176.77	-46.8	401.1	182.5	157.1	25.35	7.197		
11,325.0	11,303.6	11,332.0	11,302.9	13.3	13.3	-176.79	-46.8	401.1	184.4	159.0	25.42	7.255		
11,350.0	11,328.4	11,356.8	11,327.7	13.3	13.3	-176.82	-46.8	401.1	187.6	162.1	25.48	7.364		
11,375.0	11,353.0	11,381.4	11,352.3	13.4	13.3	-176.87	-46.8	401.1	192.1	166.6	25.54	7.523		
11,400.0	11,377.3	11,405.7	11,376.6	13.4	13.4	-176.92	-46.8	401.1	197.9	172.3	25.59	7.732		
11,425.0	11,401.3	11,429.7	11,400.6	13.4	13.4	-176.98	-46.8	401.1	204.9	179.3	25.64	7.994		
11,450.0	11,424.9	11,453.2	11,424.2	13.4	13.4	-177.04	-46.8	401.1	213.2	187.6	25.68	8.303		
11,475.0	11,448.0	11,469.1	11,440.0	13.5	13.4	-177.06	-47.1	401.1	223.1	197.4	25.73	8.672		
11,500.0	11,470.5	11,484.0	11,454.9	13.5	13.4	-177.06	-47.8	401.1	234.9	209.1	25.85	9.089		
11,525.0	11,492.5	11,500.0	11,470.8	13.5	13.4	-177.04	-49.1	401.0	248.5	222.5	25.97	9.567		
11,550.0	11,513.9	11,510.9	11,481.7	13.6	13.4	-176.99	-50.3	401.0	263.7	237.5	26.22	10.055		
11,575.0	11,534.5	11,525.0	11,495.7	13.6	13.4	-176.93	-52.2	400.9	280.4	254.0	26.39	10.624		
11,600.0	11,554.4	11,533.5	11,504.1	13.7	13.4	-176.81	-53.5	400.8	298.5	271.7	26.71	11.172		
11,625.0	11,573.4	11,543.2	11,513.6	13.7	13.4	-176.67	-55.2	400.7	317.7	290.8	26.97	11.781		
11,650.0	11,591.6	11,550.0	11,520.3	13.7	13.4	-176.47	-56.5	400.7	338.1	310.8	27.29	12.391		
11,675.0	11,608.8	11,559.3	11,529.4	13.8	13.4	-176.25	-58.5	400.6	359.4	332.0	27.47	13.086		
11,700.0	11,625.1	11,565.8	11,535.7	13.8	13.4	-175.93	-60.0	400.5	381.6	353.9	27.70	13.778		
11,725.0	11,640.3	11,575.0	11,544.6	13.8	13.4	-175.57	-62.2	400.4	404.5	376.7	27.78	14.562		
11,750.0	11,654.5	11,575.0	11,544.6	13.9	13.4	-174.90	-62.2	400.4	427.9	399.8	28.12	15.217		
11,775.0	11,667.6	11,575.0	11,544.6	13.9	13.4	-173.90	-62.2	400.4	451.9	423.5	28.41	15.908		
11,800.0	11,679.6	11,582.7	11,552.1	13.9	13.4	-172.76	-64.2	400.3	476.2	447.8	28.38	16.779		
11,825.0	11,690.4	11,584.9	11,554.2	13.9	13.4	-170.46	-64.8	400.3	500.8	472.3	28.49	17.580		
11,850.0	11,700.0	11,586.3	11,555.5	14.0	13.4	-165.55	-65.2	400.2	525.6	497.0	28.57	18.398		
11,875.0	11,708.3	11,587.1	11,556.3	14.0	13.4	-148.90	-65.4	400.2	550.5	521.9	28.62	19.232		
11,900.0	11,715.5	11,587.2	11,556.4	14.0	13.4	-54.33	-65.4	400.2	575.5	546.8	28.66	20.082		
11,925.0	11,721.4	11,586.8	11,556.0	14.0	13.4	-17.11	-65.3	400.2	600.5	571.8	28.67	20.945		
11,950.0	11,726.0	11,585.8	11,555.0	14.1	13.4	-9.57	-65.0	400.3	625.4	596.7	28.66	21.820		
11,975.0	11,729.3	11,584.3	11,553.5	14.1	13.4	-6.50	-64.6	400.3	650.1	621.5	28.63	22.706		
12,000.0	11,731.3	11,575.0	11,544.6	14.1	13.4	-4.55	-62.2	400.4	674.7	646.0	28.76	23.464		
12,025.8	11,732.0	11,575.0	11,544.6	14.1	13.4	-3.68	-62.2	400.4	699.7	671.1	28.63	24.444		
12,106.9	11,732.0	11,575.0	11,544.6	14.2	13.4	8.67	-62.2	400.4	778.2	749.9	28.28	27.518		
12,200.0	11,732.0	11,563.6	11,533.6	14.3	13.4	8.24	-59.5	400.5	868.6	840.4	28.20	30.806		
12,300.0	11,732.0	11,550.0	11,520.3	14.4	13.4	7.77	-56.5	400.7	966.2	938.0	28.17	34.303		

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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 #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYRODATA-NS-GYRO-MS, 8329-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,300.0	8,278.7	11,812.6	9,242.4	9.9	51.1	-107.71	104.2	303.6	984.9	943.0	41.96	23.473	
8,400.0	8,378.7	11,809.1	9,242.5	10.0	51.1	-105.83	107.7	303.7	885.5	843.3	42.25	20.957	
8,500.0	8,478.7	11,805.7	9,242.7	10.1	51.0	-103.92	111.1	303.7	786.2	743.7	42.57	18.468	
8,600.0	8,578.7	11,802.3	9,242.8	10.2	51.0	-102.01	114.5	303.8	687.2	644.2	42.93	16.007	
8,700.0	8,678.7	11,798.9	9,242.9	10.3	50.9	-100.09	117.9	303.8	588.3	545.0	43.34	13.574	
8,800.0	8,778.7	11,795.6	9,243.0	10.4	50.9	-98.17	121.2	303.9	490.0	446.1	43.87	11.169	
8,900.0	8,878.7	11,792.3	9,243.1	10.6	50.8	-96.25	124.5	303.9	392.5	347.9	44.62	8.796	
9,000.0	8,978.7	11,789.1	9,243.2	10.7	50.8	-94.33	127.7	304.0	296.6	250.7	45.88	6.463	
9,100.0	9,078.7	11,785.9	9,243.3	10.8	50.7	-92.43	130.9	304.0	204.5	156.0	48.51	4.217	
9,200.0	9,178.7	11,782.7	9,243.4	10.9	50.7	-90.54	134.1	304.1	125.3	70.8	54.56	2.298	
9,280.8	9,259.5	11,780.2	9,243.5	11.0	50.6	-89.02	136.6	304.1	95.9	36.9	59.01	1.625	Advise and Monitor, CC, ES, SF
9,300.0	9,278.7	11,779.6	9,243.5	11.0	50.6	-88.66	137.2	304.1	97.8	38.8	59.00	1.657	Advise and Monitor
9,400.0	9,378.7	11,776.5	9,243.6	11.1	50.6	-86.81	140.3	304.2	153.0	99.9	53.03	2.884	
9,500.0	9,478.7	11,773.4	9,243.7	11.2	50.5	-84.99	143.4	304.2	239.2	190.2	48.95	4.886	
9,600.0	9,578.7	11,770.4	9,243.8	11.3	50.5	-83.19	146.4	304.3	333.2	285.7	47.45	7.022	
9,700.0	9,678.7	11,767.4	9,243.9	11.5	50.4	-81.42	149.4	304.3	429.9	383.0	46.90	9.166	
9,800.0	9,778.7	11,764.4	9,244.0	11.6	50.4	-79.69	152.4	304.4	527.8	481.0	46.74	11.291	
9,900.0	9,878.7	11,761.5	9,244.0	11.7	50.3	-77.99	155.3	304.5	626.3	579.5	46.77	13.391	
10,000.0	9,978.7	11,758.6	9,244.1	11.8	50.3	-76.33	158.2	304.5	725.3	678.4	46.90	15.465	
10,100.0	10,078.7	11,755.7	9,244.2	11.9	50.2	-74.71	161.1	304.6	824.4	777.4	47.08	17.512	
10,200.0	10,178.7	11,752.9	9,244.3	12.0	50.2	-73.13	163.9	304.6	923.8	876.5	47.30	19.532	

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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)						
8,200.0	8,178.7	10,545.4	8,828.7	9.8	38.0	-87.86	162.3	-332.6	980.4	938.2	42.23	23.213		
8,300.0	8,278.7	10,548.3	8,828.8	9.9	38.0	-88.10	159.4	-332.6	917.1	874.0	43.05	21.300		
8,400.0	8,378.7	10,551.2	8,828.9	10.0	38.1	-88.32	156.5	-332.6	860.7	816.8	43.86	19.625		
8,500.0	8,478.7	10,553.9	8,829.0	10.1	38.1	-88.53	153.8	-332.7	812.7	768.1	44.60	18.224		
8,600.0	8,578.7	10,556.5	8,829.0	10.2	38.1	-88.74	151.2	-332.7	774.8	729.5	45.24	17.127		
8,700.0	8,678.7	10,559.1	8,829.1	10.3	38.2	-88.93	148.6	-332.7	748.3	702.6	45.77	16.351		
8,800.0	8,778.7	10,561.5	8,829.1	10.4	38.2	-89.12	146.2	-332.8	734.7	688.5	46.20	15.900		
8,851.5	8,830.2	10,562.7	8,829.2	10.5	38.2	-89.22	145.0	-332.8	732.9	686.4	46.41	15.792 CC, ES		
8,900.0	8,878.7	10,563.8	8,829.2	10.6	38.2	-89.31	143.9	-332.8	734.5	687.9	46.59	15.766 SF		
9,000.0	8,978.7	10,566.1	8,829.2	10.7	38.3	-89.48	141.6	-332.8	747.7	700.8	46.91	15.940		
9,100.0	9,078.7	10,568.3	8,829.3	10.8	38.3	-89.65	139.4	-332.9	773.8	726.7	47.14	16.416		
9,200.0	9,178.7	10,570.4	8,829.3	10.9	38.3	-89.82	137.3	-332.9	811.5	764.2	47.24	17.178		
9,300.0	9,278.7	10,572.4	8,829.4	11.0	38.4	-89.98	135.3	-332.9	859.2	811.9	47.22	18.195		
9,400.0	9,378.7	10,576.0	8,829.5	11.1	38.4	-90.26	131.7	-333.0	915.3	868.2	47.14	19.419		
9,500.0	9,478.7	10,576.4	8,829.5	11.2	38.4	-90.29	131.3	-333.0	978.5	931.5	46.97	20.834		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.3	0.3	3.0	3.0	-60.43	354.7	-625.3	718.9				
100.0	100.0	100.3	100.3	3.0	3.0	-60.43	354.7	-625.3	718.9	712.9	6.00	119.765	
200.0	200.0	200.3	200.3	3.0	3.0	-60.43	354.7	-625.3	718.9	712.9	6.04	118.993	
300.0	300.0	300.3	300.3	3.0	3.1	-60.43	354.7	-625.3	718.9	712.8	6.12	117.388	
400.0	400.0	400.3	400.3	3.0	3.2	-60.43	354.7	-625.3	718.9	712.7	6.25	115.070	
500.0	500.0	500.3	500.3	3.1	3.4	-60.43	354.7	-625.3	718.9	712.5	6.41	112.195	
600.0	600.0	600.3	600.3	3.1	3.6	-60.43	354.7	-625.3	718.9	712.3	6.60	108.921	
700.0	700.0	700.3	700.3	3.1	3.8	-60.43	354.7	-625.3	718.9	712.1	6.82	105.397	
800.0	800.0	800.3	800.3	3.2	4.0	-60.43	354.7	-625.3	718.9	711.9	7.07	101.745	
900.0	900.0	900.3	900.3	3.2	4.2	-60.43	354.7	-625.3	718.9	711.6	7.33	98.060	
1,000.0	1,000.0	1,000.3	1,000.3	3.2	4.5	-60.43	354.7	-625.3	718.9	711.3	7.61	94.414	
1,100.0	1,100.0	1,100.3	1,100.3	3.3	4.8	-60.43	354.7	-625.3	718.9	711.0	7.91	90.856	
1,200.0	1,200.0	1,200.3	1,200.3	3.4	5.1	-60.43	354.7	-625.3	718.9	710.7	8.22	87.419	
1,300.0	1,300.0	1,300.3	1,300.3	3.4	5.4	-60.43	354.7	-625.3	718.9	710.4	8.55	84.122	
1,400.0	1,400.0	1,400.3	1,400.3	3.5	5.7	-60.43	354.7	-625.3	718.9	710.1	8.88	80.975	
1,500.0	1,500.0	1,500.3	1,500.3	3.5	6.0	-60.43	354.7	-625.3	718.9	709.7	9.22	77.983	
1,600.0	1,600.0	1,600.3	1,600.3	3.6	6.3	-60.43	354.7	-625.3	718.9	709.4	9.57	75.145	
1,700.0	1,700.0	1,700.3	1,700.3	3.7	6.6	-60.43	354.7	-625.3	718.9	709.0	9.92	72.457	
1,800.0	1,800.0	1,800.3	1,800.3	3.8	6.9	-60.43	354.7	-625.3	718.9	708.7	10.28	69.915	
1,900.0	1,900.0	1,900.3	1,900.3	3.9	7.2	-60.43	354.7	-625.3	718.9	708.3	10.65	67.510	
2,000.0	2,000.0	2,000.3	2,000.3	3.9	7.6	-60.43	354.7	-625.3	718.9	707.9	11.02	65.237	
2,100.0	2,100.0	2,100.3	2,100.3	4.0	7.9	-60.43	354.7	-625.3	718.9	707.6	11.40	63.088	
2,200.0	2,200.0	2,200.3	2,200.3	4.1	8.2	-60.43	354.7	-625.3	718.9	707.2	11.78	61.055	
2,300.0	2,300.0	2,300.3	2,300.3	4.2	8.6	-60.43	354.7	-625.3	718.9	706.8	12.16	59.131	
2,400.0	2,400.0	2,400.3	2,400.3	4.3	8.9	-60.43	354.7	-625.3	718.9	706.4	12.55	57.309	
2,416.6	2,416.6	2,416.9	2,416.9	4.3	9.0	-60.43	354.7	-625.3	718.9	706.3	12.61	57.016 CC	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-60.43	354.7	-625.3	718.9	706.0	12.93	55.587 ES	
2,600.0	2,600.0	2,581.3	2,581.3	4.5	9.5	-131.86	354.9	-626.5	721.4	708.2	13.23	54.539	
2,700.0	2,699.8	2,661.9	2,661.8	4.5	9.8	-132.10	355.4	-629.9	728.9	715.4	13.49	54.049	
2,800.0	2,799.5	2,741.6	2,741.3	4.6	10.0	-132.48	356.1	-635.4	741.3	727.6	13.74	53.973 SF	
2,900.0	2,898.9	2,820.3	2,819.6	4.6	10.3	-133.15	357.2	-643.1	757.6	743.6	13.98	54.195	
3,000.0	2,998.4	2,900.0	2,898.7	4.7	10.6	-133.87	358.5	-653.0	776.6	762.4	14.23	54.572	
3,100.0	3,097.8	2,982.2	2,980.0	4.8	10.8	-134.62	360.2	-665.2	798.1	783.6	14.50	55.048	
3,200.0	3,197.3	3,079.0	3,075.6	4.8	11.2	-135.48	362.2	-680.2	820.2	805.4	14.84	55.262	
3,300.0	3,296.7	3,175.8	3,171.2	4.9	11.5	-136.29	364.3	-695.1	842.6	827.4	15.20	55.448	
3,400.0	3,396.2	3,272.6	3,266.8	5.0	11.8	-137.06	366.3	-710.0	865.1	849.5	15.56	55.608	
3,500.0	3,495.6	3,369.4	3,362.4	5.0	12.2	-137.79	368.3	-724.9	887.7	871.8	15.92	55.745	
3,600.0	3,595.1	3,466.2	3,458.0	5.1	12.5	-138.49	370.4	-739.8	910.5	894.2	16.30	55.861	
3,700.0	3,694.5	3,563.0	3,553.7	5.2	12.8	-139.15	372.4	-754.8	933.4	916.7	16.68	55.956	
3,800.0	3,794.0	3,659.7	3,649.3	5.3	13.2	-139.78	374.4	-769.7	956.4	939.3	17.07	56.033	
3,900.0	3,893.4	3,756.5	3,744.9	5.4	13.5	-140.38	376.5	-784.6	979.5	962.0	17.46	56.094	

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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						Rule Assigned:		Offset Well Error:		3.0 usft			
Reference	Offset	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	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			
0.0	0.0	0.0	0.0	3.0	3.0	-59.07	354.9	-592.3	690.5						
100.0	100.0	99.2	99.2	3.0	3.0	-59.07	354.9	-592.3	690.5	684.5	6.00	115.076			
200.0	200.0	199.2	199.2	3.0	3.0	-59.07	354.9	-592.3	690.5	684.5	6.00	114.987			
300.0	300.0	299.2	299.2	3.0	3.0	-59.07	354.9	-592.3	690.5	684.5	6.02	114.795			
400.0	400.0	399.2	399.2	3.0	3.0	-59.07	354.9	-592.3	690.5	684.5	6.03	114.500			
500.0	500.0	499.2	499.2	3.1	3.1	-59.07	354.9	-592.3	690.5	684.4	6.05	114.106			
600.0	600.0	599.2	599.2	3.1	3.1	-59.07	354.9	-592.3	690.5	684.4	6.08	113.615			
700.0	700.0	699.2	699.2	3.1	3.1	-59.07	354.9	-592.3	690.5	684.4	6.11	113.031			
800.0	800.0	799.2	799.2	3.2	3.2	-59.07	354.9	-592.3	690.5	684.3	6.15	112.359			
900.0	900.0	899.2	899.2	3.2	3.2	-59.07	354.9	-592.3	690.5	684.3	6.19	111.603			
1,000.0	1,000.0	999.2	999.2	3.2	3.2	-59.07	354.9	-592.3	690.5	684.3	6.23	110.768			
1,100.0	1,100.0	1,099.2	1,099.2	3.3	3.3	-59.07	354.9	-592.3	690.5	684.2	6.29	109.861			
1,200.0	1,200.0	1,199.2	1,199.2	3.4	3.4	-59.07	354.9	-592.3	690.5	684.2	6.34	108.887			
1,300.0	1,300.0	1,299.2	1,299.2	3.4	3.4	-59.07	354.9	-592.3	690.5	684.1	6.40	107.853			
1,400.0	1,400.0	1,399.2	1,399.2	3.5	3.5	-59.07	354.9	-592.3	690.5	684.0	6.47	106.764			
1,500.0	1,500.0	1,499.2	1,499.2	3.5	3.5	-59.07	354.9	-592.3	690.5	684.0	6.54	105.626			
1,600.0	1,600.0	1,599.2	1,599.2	3.6	3.6	-59.07	354.9	-592.3	690.5	683.9	6.61	104.446			
1,700.0	1,700.0	1,699.2	1,699.2	3.7	3.7	-59.07	354.9	-592.3	690.5	683.8	6.69	103.228			
1,800.0	1,800.0	1,799.2	1,799.2	3.8	3.8	-59.07	354.9	-592.3	690.5	683.7	6.77	101.980			
1,900.0	1,900.0	1,899.2	1,899.2	3.9	3.9	-59.07	354.9	-592.3	690.5	683.6	6.86	100.706			
2,000.0	2,000.0	1,999.2	1,999.2	3.9	3.9	-59.07	354.9	-592.3	690.5	683.5	6.95	99.410			
2,100.0	2,100.0	2,099.2	2,099.2	4.0	4.0	-59.07	354.9	-592.3	690.5	683.5	7.04	98.099			
2,200.0	2,200.0	2,199.2	2,199.2	4.1	4.1	-59.07	354.9	-592.3	690.5	683.4	7.13	96.776			
2,300.0	2,300.0	2,299.2	2,299.2	4.2	4.2	-59.07	354.9	-592.3	690.5	683.3	7.23	95.445			
2,400.0	2,400.0	2,399.2	2,399.2	4.3	4.3	-59.07	354.9	-592.3	690.5	683.2	7.34	94.111			
2,500.0	2,500.0	2,499.2	2,499.2	4.4	4.4	-59.07	354.9	-592.3	690.5	683.1	7.44	92.776	CC, ES		
2,600.0	2,600.0	2,580.0	2,580.0	4.5	4.5	-130.49	355.3	-593.4	693.0	685.5	7.52	92.194	SF		
2,700.0	2,699.8	2,660.3	2,660.2	4.5	4.5	-130.67	356.6	-596.4	700.6	693.0	7.57	92.540			
2,800.0	2,799.5	2,739.7	2,739.4	4.6	4.6	-130.96	358.8	-601.5	713.2	705.6	7.62	93.562			
2,900.0	2,898.9	2,818.3	2,817.6	4.6	4.6	-131.53	361.9	-608.5	729.7	722.1	7.68	95.075			
3,000.0	2,998.4	2,909.0	2,907.7	4.7	4.7	-132.17	366.1	-618.5	748.5	740.8	7.75	96.644			
3,100.0	3,097.8	3,006.8	3,004.8	4.8	4.7	-132.83	370.8	-629.3	767.6	759.7	7.83	98.051			
3,200.0	3,197.3	3,104.6	3,101.8	4.8	4.8	-133.46	375.5	-640.1	786.7	778.8	7.92	99.357			
3,300.0	3,296.7	3,202.4	3,198.9	4.9	4.9	-134.06	380.1	-650.9	806.0	797.9	8.01	100.562			
3,400.0	3,396.2	3,300.1	3,296.0	5.0	4.9	-134.63	384.8	-661.8	825.3	817.1	8.12	101.669			
3,500.0	3,495.6	3,397.9	3,393.1	5.0	5.0	-135.17	389.5	-672.6	844.7	836.4	8.23	102.678			
3,600.0	3,595.1	3,495.7	3,490.1	5.1	5.1	-135.69	394.1	-683.4	864.1	855.8	8.34	103.594			
3,700.0	3,694.5	3,593.5	3,587.2	5.2	5.2	-136.19	398.8	-694.2	883.6	875.2	8.46	104.419			
3,800.0	3,794.0	3,691.3	3,684.3	5.3	5.2	-136.67	403.5	-705.1	903.2	894.6	8.59	105.158			
3,900.0	3,893.4	3,789.1	3,781.4	5.4	5.3	-137.13	408.2	-715.9	922.9	914.1	8.72	105.814			
4,000.0	3,992.9	3,886.9	3,878.5	5.4	5.4	-137.56	412.8	-726.7	942.6	933.7	8.86	106.393			
4,100.0	4,092.3	3,984.7	3,975.5	5.5	5.5	-137.98	417.5	-737.5	962.3	953.3	9.00	106.898			
4,200.0	4,191.8	4,082.5	4,072.6	5.6	5.6	-138.39	422.2	-748.4	982.1	973.0	9.15	107.334			

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	3.0	3.0	-57.59	355.0	-559.3	662.5						
100.0	100.0	99.5	99.5	3.0	3.0	-57.59	355.0	-559.3	662.5	656.5	6.00	110.359			
200.0	200.0	199.5	199.5	3.0	3.0	-57.59	355.0	-559.3	662.5	656.4	6.04	109.652			
300.0	300.0	299.5	299.5	3.0	3.1	-57.59	355.0	-559.3	662.5	656.4	6.12	108.173			
400.0	400.0	399.5	399.5	3.0	3.2	-57.59	355.0	-559.3	662.5	656.2	6.25	106.033			
500.0	500.0	499.5	499.5	3.1	3.4	-57.59	355.0	-559.3	662.5	656.1	6.41	103.376			
600.0	600.0	599.5	599.5	3.1	3.6	-57.59	355.0	-559.3	662.5	655.9	6.60	100.351			
700.0	700.0	699.5	699.5	3.1	3.8	-57.59	355.0	-559.3	662.5	655.7	6.82	97.092			
800.0	800.0	799.5	799.5	3.2	4.0	-57.59	355.0	-559.3	662.5	655.4	7.07	93.714			
900.0	900.0	899.5	899.5	3.2	4.2	-57.59	355.0	-559.3	662.5	655.1	7.34	90.307			
1,000.0	1,000.0	999.5	999.5	3.2	4.5	-57.59	355.0	-559.3	662.5	654.9	7.62	86.935			
1,100.0	1,100.0	1,099.5	1,099.5	3.3	4.8	-57.59	355.0	-559.3	662.5	654.6	7.92	83.645			
1,200.0	1,200.0	1,199.5	1,199.5	3.4	5.1	-57.59	355.0	-559.3	662.5	654.2	8.23	80.466			
1,300.0	1,300.0	1,299.5	1,299.5	3.4	5.3	-57.59	355.0	-559.3	662.5	653.9	8.56	77.418			
1,400.0	1,400.0	1,399.5	1,399.5	3.5	5.6	-57.59	355.0	-559.3	662.5	653.6	8.89	74.509			
1,500.0	1,500.0	1,499.5	1,499.5	3.5	6.0	-57.59	355.0	-559.3	662.5	653.2	9.23	71.743			
1,600.0	1,600.0	1,599.5	1,599.5	3.6	6.3	-57.59	355.0	-559.3	662.5	652.9	9.58	69.120			
1,700.0	1,700.0	1,699.5	1,699.5	3.7	6.6	-57.59	355.0	-559.3	662.5	652.5	9.94	66.637			
1,800.0	1,800.0	1,799.5	1,799.5	3.8	6.9	-57.59	355.0	-559.3	662.5	652.2	10.30	64.287			
1,900.0	1,900.0	1,899.5	1,899.5	3.9	7.2	-57.59	355.0	-559.3	662.5	651.8	10.67	62.066			
2,000.0	2,000.0	1,999.5	1,999.5	3.9	7.6	-57.59	355.0	-559.3	662.5	651.4	11.05	59.967			
2,100.0	2,100.0	2,099.5	2,099.5	4.0	7.9	-57.59	355.0	-559.3	662.5	651.1	11.43	57.982			
2,200.0	2,200.0	2,199.5	2,199.5	4.1	8.2	-57.59	355.0	-559.3	662.5	650.7	11.81	56.105			
2,300.0	2,300.0	2,299.5	2,299.5	4.2	8.6	-57.59	355.0	-559.3	662.5	650.3	12.19	54.329			
2,400.0	2,400.0	2,399.5	2,399.5	4.3	8.9	-57.59	355.0	-559.3	662.5	649.9	12.58	52.648			
2,500.0	2,500.0	2,499.5	2,499.5	4.4	9.2	-57.59	355.0	-559.3	662.5	649.5	12.98	51.055 CC, ES			
2,600.0	2,600.0	2,588.4	2,588.4	4.5	9.5	-128.92	356.4	-559.3	664.4	651.1	13.31	49.932			
2,700.0	2,699.8	2,677.1	2,677.0	4.5	9.8	-128.84	360.5	-559.3	670.2	656.6	13.61	49.240			
2,800.0	2,799.5	2,765.4	2,765.1	4.6	10.1	-128.71	367.3	-559.4	679.8	665.9	13.91	48.858			
2,900.0	2,898.9	2,860.3	2,859.4	4.6	10.5	-128.67	377.0	-559.4	691.9	677.6	14.25	48.559			
3,000.0	2,998.4	2,959.5	2,958.1	4.7	10.8	-128.62	387.4	-559.4	704.1	689.5	14.61	48.206			
3,100.0	3,097.8	3,058.8	3,056.8	4.8	11.1	-128.57	397.8	-559.5	716.3	701.3	14.97	47.857			
3,200.0	3,197.3	3,158.0	3,155.5	4.8	11.5	-128.52	408.2	-559.5	728.5	713.1	15.33	47.513			
3,300.0	3,296.7	3,257.3	3,254.2	4.9	11.8	-128.48	418.5	-559.6	740.6	724.9	15.70	47.172			
3,400.0	3,396.2	3,356.5	3,352.9	5.0	12.2	-128.43	428.9	-559.6	752.8	736.8	16.07	46.837			
3,500.0	3,495.6	3,455.8	3,451.6	5.0	12.5	-128.39	439.3	-559.7	765.0	748.6	16.45	46.506			
3,600.0	3,595.1	3,555.0	3,550.3	5.1	12.9	-128.34	449.7	-559.7	777.2	760.4	16.83	46.180			
3,700.0	3,694.5	3,654.3	3,649.1	5.2	13.2	-128.30	460.0	-559.8	789.4	772.2	17.21	45.860			
3,800.0	3,794.0	3,753.5	3,747.8	5.3	13.6	-128.26	470.4	-559.8	801.6	784.0	17.60	45.544			
3,900.0	3,893.4	3,852.8	3,846.5	5.4	13.9	-128.22	480.8	-559.9	813.8	795.8	17.99	45.235			
4,000.0	3,992.9	3,952.0	3,945.2	5.4	14.3	-128.18	491.2	-559.9	826.0	807.6	18.38	44.930			
4,100.0	4,092.3	4,051.3	4,043.9	5.5	14.6	-128.15	501.5	-559.9	838.2	819.4	18.78	44.631			
4,200.0	4,191.8	4,150.5	4,142.6	5.6	15.0	-128.11	511.9	-560.0	850.4	831.2	19.18	44.338			
4,300.0	4,291.2	4,249.8	4,241.3	5.7	15.3	-128.08	522.3	-560.0	862.6	843.0	19.58	44.050			
4,400.0	4,390.7	4,349.0	4,340.0	5.8	15.7	-128.04	532.7	-560.1	874.8	854.8	19.99	43.767			
4,500.0	4,490.1	4,448.3	4,438.7	5.9	16.0	-128.01	543.0	-560.1	887.0	866.6	20.39	43.490			
4,600.0	4,589.6	4,547.6	4,537.4	6.0	16.4	-127.98	553.4	-560.2	899.2	878.4	20.81	43.218			
4,700.0	4,689.0	4,646.8	4,636.1	6.1	16.7	-127.95	563.8	-560.2	911.4	890.2	21.22	42.952			
4,800.0	4,788.5	4,746.1	4,734.8	6.2	17.1	-127.92	574.2	-560.3	923.6	901.9	21.63	42.690			
4,900.0	4,887.9	4,845.3	4,833.6	6.3	17.4	-127.89	584.5	-560.3	935.8	913.7	22.05	42.434			
5,000.0	4,987.4	4,944.6	4,932.3	6.4	17.8	-127.86	594.9	-560.4	948.0	925.5	22.47	42.183			
5,100.0	5,086.9	5,043.8	5,031.0	6.5	18.1	-127.83	605.3	-560.4	960.2	937.3	22.90	41.937			

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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		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 (usft)		
5,200.0	5,186.3	5,143.1	5,129.7	6.6	18.5	-127.80	615.7	-560.4	972.4	949.0	23.32	41.696	
5,300.0	5,285.8	5,242.3	5,228.4	6.7	18.8	-127.78	626.0	-560.5	984.6	960.8	23.75	41.460	
5,400.0	5,385.2	5,341.6	5,327.1	6.8	19.2	-127.75	636.4	-560.5	996.8	972.6	24.18	41.229	
10,000.0	9,978.7	10,610.0	10,225.0	11.8	36.3	-90.17	132.1	-559.1	990.3	945.3	45.06	21.978	
10,100.0	10,078.7	10,610.0	10,225.0	11.9	36.3	-90.17	132.1	-559.1	970.3	925.1	45.14	21.494	
10,200.0	10,178.7	10,610.0	10,225.0	12.0	36.3	-90.17	132.1	-559.1	960.2	915.0	45.24	21.226	
10,246.8	10,225.5	10,610.0	10,225.0	12.1	36.3	-90.17	132.1	-559.1	959.1	913.8	45.31	21.167	
10,300.0	10,278.7	10,610.0	10,225.0	12.1	36.3	-90.17	132.1	-559.1	960.6	915.2	45.42	21.151 SF	
10,400.0	10,378.7	10,610.0	10,225.0	12.3	36.3	-90.17	132.1	-559.1	971.3	925.6	45.68	21.262	
10,500.0	10,478.7	10,610.0	10,225.0	12.4	36.3	-90.17	132.1	-559.1	992.0	946.0	45.99	21.567	

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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													0.0 usft
Rule Assigned:													Offset Well Error:
Warning													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	
0.0	0.0	0.0	0.0	3.0	3.0	-55.99	355.2	-526.4	635.0				
100.0	100.0	98.8	98.8	3.0	3.0	-55.99	355.2	-526.4	635.0	629.0	6.00	105.827	
200.0	200.0	198.8	198.8	3.0	3.0	-55.99	355.2	-526.4	635.0	629.0	6.01	105.739	
300.0	300.0	298.8	298.8	3.0	3.0	-55.99	355.2	-526.4	635.0	629.0	6.02	105.550	
400.0	400.0	398.8	398.8	3.0	3.0	-55.99	355.2	-526.4	635.0	629.0	6.03	105.259	
500.0	500.0	498.8	498.8	3.1	3.1	-55.99	355.2	-526.4	635.0	628.9	6.06	104.870	
600.0	600.0	598.8	598.8	3.1	3.1	-55.99	355.2	-526.4	635.0	628.9	6.08	104.386	
700.0	700.0	698.8	698.8	3.1	3.1	-55.99	355.2	-526.4	635.0	628.9	6.12	103.811	
800.0	800.0	798.8	798.8	3.2	3.2	-55.99	355.2	-526.4	635.0	628.8	6.16	103.150	
900.0	900.0	898.8	898.8	3.2	3.2	-55.99	355.2	-526.4	635.0	628.8	6.20	102.407	
1,000.0	1,000.0	998.8	998.8	3.2	3.2	-55.99	355.2	-526.4	635.0	628.7	6.25	101.589	
1,100.0	1,100.0	1,098.8	1,098.8	3.3	3.3	-55.99	355.2	-526.4	635.0	628.7	6.31	100.701	
1,200.0	1,200.0	1,198.8	1,198.8	3.4	3.4	-55.99	355.2	-526.4	635.0	628.6	6.37	99.749	
1,300.0	1,300.0	1,298.8	1,298.8	3.4	3.4	-55.99	355.2	-526.4	635.0	628.6	6.43	98.740	
1,400.0	1,400.0	1,398.8	1,398.8	3.5	3.5	-55.99	355.2	-526.4	635.0	628.5	6.50	97.679	
1,500.0	1,500.0	1,498.8	1,498.8	3.5	3.5	-55.99	355.2	-526.4	635.0	628.4	6.58	96.573	
1,600.0	1,600.0	1,598.8	1,598.8	3.6	3.6	-55.99	355.2	-526.4	635.0	628.3	6.65	95.428	
1,700.0	1,700.0	1,698.8	1,698.8	3.7	3.7	-55.99	355.2	-526.4	635.0	628.3	6.74	94.250	
1,800.0	1,800.0	1,798.8	1,798.8	3.8	3.8	-55.99	355.2	-526.4	635.0	628.2	6.82	93.044	
1,900.0	1,900.0	1,898.8	1,898.8	3.9	3.9	-55.99	355.2	-526.4	635.0	628.1	6.92	91.815	
2,000.0	2,000.0	1,998.8	1,998.8	3.9	3.9	-55.99	355.2	-526.4	635.0	628.0	7.01	90.570	
2,100.0	2,100.0	2,098.8	2,098.8	4.0	4.0	-55.99	355.2	-526.4	635.0	627.9	7.11	89.311	
2,200.0	2,200.0	2,198.8	2,198.8	4.1	4.1	-55.99	355.2	-526.4	635.0	627.8	7.21	88.044	
2,300.0	2,300.0	2,298.8	2,298.8	4.2	4.2	-55.99	355.2	-526.4	635.0	627.7	7.32	86.772	
2,400.0	2,400.0	2,398.8	2,398.8	4.3	4.3	-55.99	355.2	-526.4	635.0	627.6	7.43	85.499	
2,500.0	2,500.0	2,498.8	2,498.8	4.4	4.4	-55.99	355.2	-526.4	635.0	627.5	7.54	84.229	
2,600.0	2,600.0	2,624.6	2,624.5	4.5	4.5	-127.42	354.6	-523.7	634.1	626.5	7.59	83.518	
2,700.0	2,699.8	2,750.5	2,750.2	4.5	4.5	-127.68	352.7	-515.7	631.1	623.5	7.58	83.227	
2,800.0	2,799.5	2,850.7	2,850.0	4.6	4.5	-128.07	350.8	-507.1	628.2	620.7	7.59	82.817	
2,900.0	2,898.9	2,950.5	2,949.4	4.6	4.5	-128.54	348.8	-498.6	626.5	618.9	7.59	82.521	
3,000.0	2,998.4	3,050.4	3,048.9	4.7	4.6	-129.02	346.8	-490.0	624.7	617.1	7.61	82.142	
3,100.0	3,097.8	3,150.2	3,148.4	4.8	4.6	-129.50	344.8	-481.5	623.0	615.4	7.63	81.680	
3,200.0	3,197.3	3,250.1	3,247.8	4.8	4.6	-129.98	342.9	-472.9	621.4	613.7	7.66	81.137	
3,300.0	3,296.7	3,349.9	3,347.3	4.9	4.7	-130.46	340.9	-464.4	619.8	612.1	7.70	80.515	
3,400.0	3,396.2	3,449.8	3,446.8	5.0	4.7	-130.95	338.9	-455.8	618.2	610.5	7.75	79.815	
3,500.0	3,495.6	3,549.6	3,546.2	5.0	4.8	-131.44	337.0	-447.3	616.7	608.9	7.80	79.042	
3,600.0	3,595.1	3,649.5	3,645.7	5.1	4.8	-131.93	335.0	-438.7	615.2	607.4	7.87	78.199	
3,700.0	3,694.5	3,749.3	3,745.1	5.2	4.9	-132.42	333.0	-430.2	613.8	605.9	7.94	77.292	
3,800.0	3,794.0	3,849.2	3,844.6	5.3	4.9	-132.92	331.0	-421.6	612.4	604.4	8.02	76.325	
3,900.0	3,893.4	3,949.0	3,944.1	5.4	5.0	-133.41	329.1	-413.1	611.1	603.0	8.12	75.306	
4,000.0	3,992.9	4,048.9	4,043.5	5.4	5.0	-133.91	327.1	-404.5	609.8	601.6	8.21	74.239	
4,100.0	4,092.3	4,148.7	4,143.0	5.5	5.1	-134.42	325.1	-396.0	608.6	600.3	8.32	73.130	
4,200.0	4,191.8	4,248.6	4,242.5	5.6	5.2	-134.92	323.1	-387.4	607.4	599.0	8.44	71.987	
4,300.0	4,291.2	4,348.4	4,341.9	5.7	5.2	-135.43	321.2	-378.9	606.3	597.7	8.56	70.815	
4,400.0	4,390.7	4,448.3	4,441.4	5.8	5.3	-135.93	319.2	-370.3	605.2	596.5	8.69	69.621	
4,500.0	4,490.1	4,548.1	4,540.9	5.9	5.4	-136.44	317.2	-361.8	604.1	595.3	8.83	68.409	
4,600.0	4,589.6	4,648.0	4,640.3	6.0	5.5	-136.95	315.3	-353.2	603.1	594.1	8.98	67.187	
4,700.0	4,689.0	4,747.8	4,739.8	6.1	5.5	-137.47	313.3	-344.7	602.2	593.0	9.13	65.958	
4,800.0	4,788.5	4,847.7	4,839.2	6.2	5.6	-137.98	311.3	-336.1	601.3	592.0	9.29	64.727	
4,900.0	4,887.9	4,947.5	4,938.7	6.3	5.7	-138.50	309.3	-327.6	600.4	591.0	9.46	63.500	
5,000.0	4,987.4	5,047.4	5,038.2	6.4	5.8	-139.01	307.4	-319.0	599.6	590.0	9.63	62.279	
5,100.0	5,086.9	5,147.2	5,137.6	6.5	5.9	-139.53	305.4	-310.5	598.9	589.0	9.81	61.069	

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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													0.0 usft
Rule Assigned:													Offset Well Error:
Warning													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 +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,186.3	5,247.1	5,237.1	6.6	6.0	-140.05	303.4	-301.9	598.1	588.2	9.99	59.872	
5,300.0	5,285.8	5,346.9	5,336.6	6.7	6.1	-140.57	301.5	-293.4	597.5	587.3	10.18	58.691	
5,400.0	5,385.2	5,446.8	5,436.0	6.8	6.2	-141.10	299.5	-284.8	596.9	586.5	10.38	57.529	
5,500.0	5,484.7	5,546.6	5,535.5	6.9	6.2	-141.62	297.5	-276.3	596.3	585.7	10.58	56.388	
5,600.0	5,584.1	5,646.5	5,634.9	7.0	6.3	-142.14	295.5	-267.7	595.8	585.0	10.78	55.269	
5,700.0	5,683.6	5,746.3	5,734.4	7.1	6.4	-142.67	293.6	-259.2	595.4	584.4	10.99	54.173	
5,800.0	5,783.0	5,846.2	5,833.9	7.2	6.5	-143.19	291.6	-250.6	594.9	583.7	11.20	53.102	
5,900.0	5,882.5	5,946.0	5,933.3	7.3	6.6	-143.72	289.6	-242.1	594.6	583.2	11.42	52.056	
6,000.0	5,981.9	6,045.9	6,032.8	7.4	6.7	-144.25	287.6	-233.5	594.3	582.6	11.64	51.037	
6,100.0	6,081.4	6,145.7	6,132.3	7.5	6.8	-144.78	285.7	-225.0	594.0	582.2	11.87	50.044	
6,200.0	6,180.8	6,245.6	6,231.7	7.7	6.9	-145.30	283.7	-216.4	593.8	581.7	12.10	49.078	
6,300.0	6,280.3	6,345.4	6,331.2	7.8	7.0	-145.83	281.7	-207.9	593.7	581.3	12.33	48.138	
6,388.4	6,368.2	6,433.6	6,419.1	7.9	7.1	-146.30	280.0	-200.3	593.6	581.0	12.54	47.330	
6,400.0	6,379.7	6,445.3	6,430.7	7.9	7.1	-146.36	279.8	-199.3	593.6	581.0	12.57	47.225	
6,500.0	6,479.3	6,545.1	6,530.1	8.0	7.2	-146.83	277.8	-190.8	592.6	579.8	12.80	46.284	
6,600.0	6,579.0	6,645.0	6,629.6	8.1	7.3	-147.20	275.8	-182.2	590.2	577.2	13.03	45.283	
6,700.0	6,678.8	6,744.9	6,729.1	8.2	7.4	-147.47	273.8	-173.7	586.4	573.1	13.26	44.230	
6,800.0	6,778.7	6,844.7	6,828.6	8.3	7.6	-147.65	271.9	-165.1	581.1	567.6	13.47	43.126	
6,900.0	6,878.7	6,944.5	6,928.0	8.4	7.7	-147.73	269.9	-156.6	574.4	560.7	13.69	41.961	
6,988.4	6,967.1	7,032.6	7,015.7	8.5	7.8	-76.37	268.2	-149.1	567.2	553.3	13.85	40.961	
7,000.0	6,978.7	7,044.2	7,027.2	8.5	7.8	-76.37	267.9	-148.1	566.1	552.3	13.86	40.836	
7,100.0	7,078.7	7,143.8	7,126.5	8.6	7.9	-76.36	266.0	-139.5	557.4	543.3	14.01	39.775	
7,200.0	7,178.7	7,243.4	7,225.7	8.7	8.0	-76.35	264.0	-131.0	548.6	534.4	14.16	38.732	
7,300.0	7,278.7	7,343.0	7,324.9	8.8	8.1	-76.34	262.0	-122.5	539.8	525.5	14.31	37.709	
7,400.0	7,378.7	7,442.6	7,424.2	8.9	8.2	-76.32	260.1	-113.9	531.0	516.5	14.47	36.704	
7,500.0	7,478.7	7,542.2	7,523.4	9.0	8.3	-76.31	258.1	-105.4	522.2	507.6	14.62	35.718	
7,600.0	7,578.7	7,641.8	7,622.6	9.1	8.4	-76.30	256.1	-96.9	513.4	498.6	14.77	34.750	
7,700.0	7,678.7	7,741.5	7,721.8	9.3	8.5	-76.29	254.2	-88.4	504.6	489.7	14.93	33.799	
7,800.0	7,778.7	7,841.1	7,821.1	9.4	8.7	-76.28	252.2	-79.8	495.8	480.8	15.09	32.866	
7,900.0	7,878.7	7,940.7	7,920.3	9.5	8.8	-76.26	250.2	-71.3	487.1	471.8	15.24	31.950	
8,000.0	7,978.7	8,040.3	8,019.5	9.6	8.9	-76.25	248.2	-62.8	478.3	462.9	15.40	31.051	
8,100.0	8,078.7	8,139.9	8,118.7	9.7	9.0	-76.23	246.3	-54.2	469.5	453.9	15.56	30.168	
8,200.0	8,178.7	8,239.5	8,218.0	9.8	9.1	-76.22	244.3	-45.7	460.7	445.0	15.72	29.302	
8,300.0	8,278.7	8,339.1	8,317.2	9.9	9.2	-76.20	242.3	-37.2	451.9	436.0	15.88	28.451	
8,400.0	8,378.7	8,438.8	8,416.4	10.0	9.3	-76.19	240.4	-28.7	443.1	427.1	16.05	27.617	
8,500.0	8,478.7	8,538.4	8,515.7	10.1	9.5	-76.17	238.4	-20.1	434.3	418.1	16.21	26.797	
8,600.0	8,578.7	8,638.0	8,614.9	10.2	9.6	-76.15	236.4	-11.6	425.6	409.2	16.37	25.993	
8,700.0	8,678.7	8,737.6	8,714.1	10.3	9.7	-76.14	234.5	-3.1	416.8	400.2	16.54	25.203	
8,800.0	8,778.7	8,837.2	8,813.3	10.4	9.8	-76.12	232.5	5.5	408.0	391.3	16.70	24.428	
8,900.0	8,878.7	8,936.8	8,912.6	10.6	9.9	-76.10	230.5	14.0	399.2	382.3	16.87	23.667	
9,000.0	8,978.7	9,036.4	9,011.8	10.7	10.0	-76.08	228.6	22.5	390.4	373.4	17.03	22.920	
9,100.0	9,078.7	9,136.0	9,111.0	10.8	10.2	-76.06	226.6	31.0	381.6	364.4	17.20	22.186	
9,200.0	9,178.7	9,235.7	9,210.3	10.9	10.3	-76.03	224.6	39.6	372.8	355.5	17.37	21.466	
9,300.0	9,278.7	9,335.3	9,309.5	11.0	10.4	-76.01	222.7	48.1	364.1	346.5	17.54	20.759	
9,400.0	9,378.7	9,434.9	9,408.7	11.1	10.5	-75.99	220.7	56.6	355.3	337.6	17.71	20.064	
9,500.0	9,478.7	9,534.5	9,507.9	11.2	10.6	-75.96	218.7	65.2	346.5	328.6	17.88	19.382	
9,600.0	9,578.7	9,634.1	9,607.2	11.3	10.8	-75.93	216.8	73.7	337.7	319.7	18.05	18.712	
9,700.0	9,678.7	9,733.7	9,706.4	11.5	10.9	-75.90	214.8	82.2	328.9	310.7	18.22	18.055	
9,800.0	9,778.7	9,851.7	9,823.7	11.6	11.0	-76.36	209.5	93.2	319.1	300.5	18.57	17.186	
9,900.0	9,878.7	9,988.8	9,953.7	11.7	11.0	-82.35	173.4	114.2	298.3	278.4	19.93	14.969	
10,000.0	9,978.7	10,096.9	10,045.0	11.8	11.1	-93.15	120.5	136.9	272.0	251.2	20.80	13.074	
10,100.0	10,078.7	10,176.7	10,102.9	11.9	11.2	-105.08	69.4	156.5	253.4	232.4	21.03	12.052	

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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:											
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)						
10,143.0	10,121.7	10,203.9	10,120.4	12.0	11.2	-109.82	49.8	163.7	251.2	229.8	21.46	11.708	CC, ES	
10,200.0	10,178.7	10,234.9	10,139.0	12.0	11.2	-115.47	26.4	172.0	255.5	232.7	22.75	11.229		
10,300.0	10,278.7	10,278.2	10,162.1	12.1	11.3	-123.53	-8.1	183.9	283.7	257.2	26.55	10.685	SF	
10,400.0	10,378.7	10,311.1	10,177.4	12.3	11.4	-129.54	-35.7	193.2	334.6	304.2	30.42	10.997		
10,500.0	10,478.7	10,336.7	10,187.9	12.4	11.4	-134.04	-57.9	200.6	401.1	367.7	33.35	12.026		
10,600.0	10,578.7	10,357.1	10,195.3	12.5	11.5	-137.45	-75.9	206.4	477.5	442.1	35.42	13.481		
10,700.0	10,678.7	10,375.0	10,201.2	12.6	11.5	-140.32	-92.0	211.6	560.2	523.3	36.89	15.186		
10,800.0	10,778.7	10,387.3	10,204.9	12.7	11.5	-142.20	-103.3	215.2	647.1	609.1	38.05	17.008		
10,900.0	10,878.7	10,400.0	10,208.4	12.8	11.6	-144.06	-114.9	218.9	736.8	697.9	38.94	18.922		
11,000.0	10,978.7	10,408.6	10,210.6	13.0	11.6	-145.28	-122.8	221.4	828.6	788.9	39.71	20.864		
11,100.0	11,078.7	10,425.0	10,214.3	13.1	11.6	-147.51	-138.1	226.1	921.9	881.6	40.31	22.869		

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

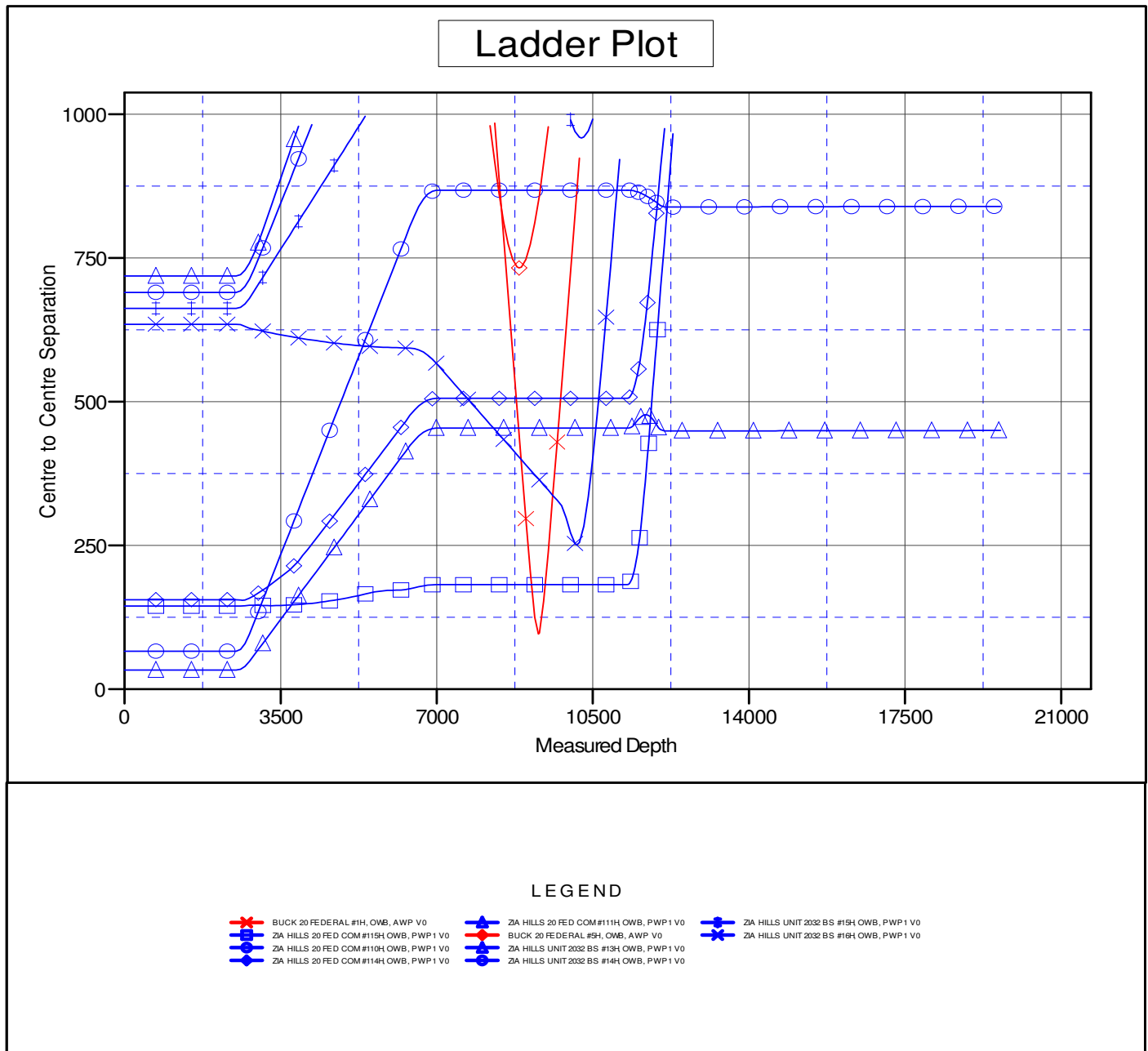
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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' @ 3173.0usft (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 #112H
 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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #112H	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' @ 3173.0usft (N 894)

Offset Depths are relative to Offset Datum

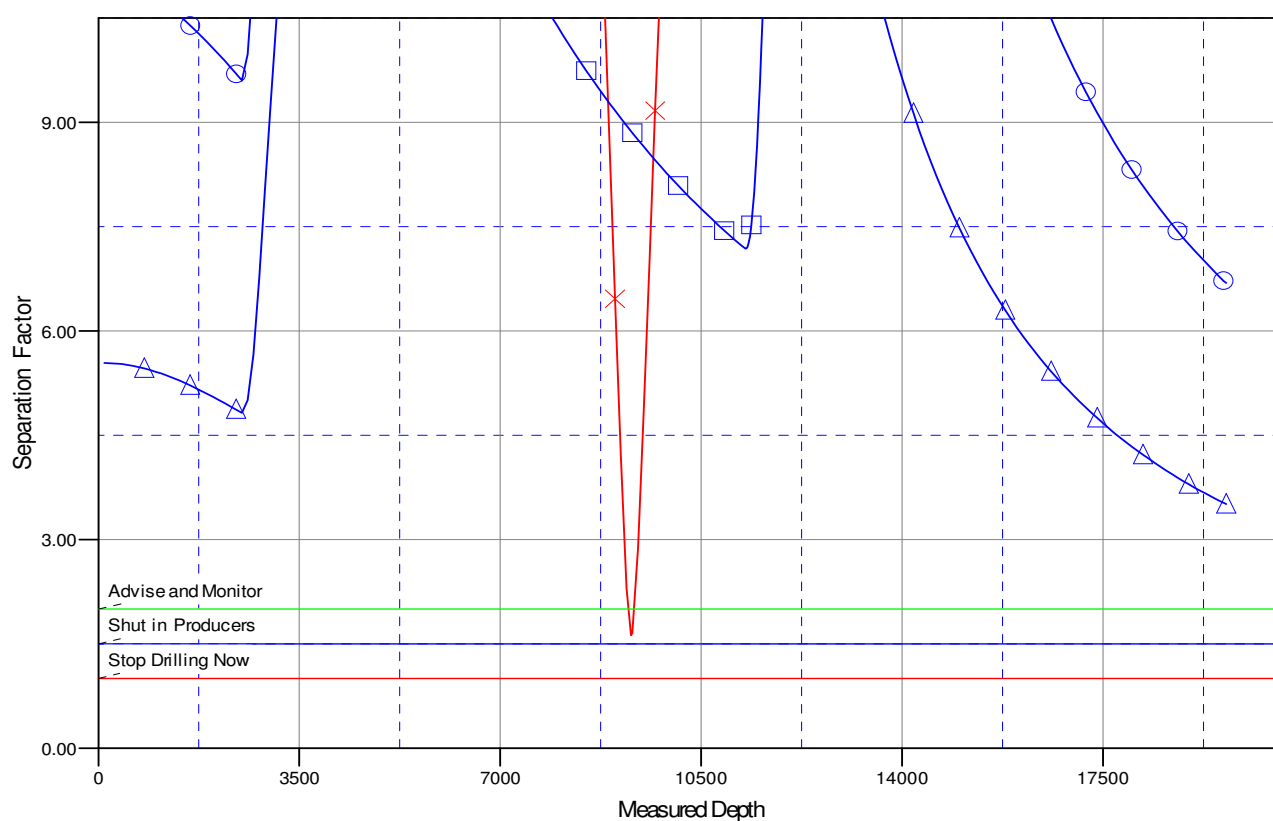
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #112H

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

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

BUCK 20 FEDERAL #1H, OWB, AWP V0	ZIA HILLS 20 FED COM #111H OWB, PWP1 V0	ZIA HILLS UNIT 2032 BS #19H OWB, PWP1 V0
ZIA HILLS 20 FED COM #110H OWB, PWP1 V0	BUCK 20 FEDERAL #5H, OWB, AWP V0	ZIA HILLS UNIT 2032 BS #16H OWB, PWP1 V0
ZIA HILLS 20 FED COM #110H OWB, PWP1 V0	ZIA HILLS UNIT 2032 BS #13H OWB, PWP1 V0	
ZIA HILLS 20 FED COM #114H OWB, PWP1 V0	ZIA HILLS UNIT 2032 BS #14H OWB, PWP1 V0	

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS 20 FED COM PROJECT

ZIA HILLS 20 FED COM #112H

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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Well:	ZIA HILLS 20 FED COM #112H	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	Latitude:	32° 2' 7.543 N
From:	Map	Easting:	699,941.21 usft	Longitude:	103° 41' 17.190 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.34 °

Well	ZIA HILLS 20 FED COM #112H					
Well Position	+N/-S	0.0 usft	Northing:	374,270.88 usft	Latitude:	32° 1' 38.478 N
	+E/-W	0.0 usft	Easting:	699,253.43 usft	Longitude:	103° 41' 25.383 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,142.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	2/17/2022	6.46	59.59	47,443.00921330

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 (°)	
	0.0	0.0	0.0	2.23	

Survey Tool Program	Date	4/5/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,275.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,275.0	19,647.7	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 #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Well:	ZIA HILLS 20 FED COM #112H	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
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	71.35	2,600.0	0.6	1.7	0.6	2.00	2.00	0.00
2,700.0	4.00	71.35	2,699.8	2.2	6.6	2.5	2.00	2.00	0.00
2,800.0	6.00	71.35	2,799.5	5.0	14.9	5.6	2.00	2.00	0.00
Start 3588.4 hold at 2800.0 MD									
2,900.0	6.00	71.35	2,898.9	8.4	24.8	9.3	0.00	0.00	0.00
3,000.0	6.00	71.35	2,998.4	11.7	34.7	13.0	0.00	0.00	0.00
3,100.0	6.00	71.35	3,097.8	15.0	44.6	16.8	0.00	0.00	0.00
3,200.0	6.00	71.35	3,197.3	18.4	54.5	20.5	0.00	0.00	0.00
3,300.0	6.00	71.35	3,296.7	21.7	64.4	24.2	0.00	0.00	0.00
3,400.0	6.00	71.35	3,396.2	25.1	74.3	27.9	0.00	0.00	0.00
3,500.0	6.00	71.35	3,495.6	28.4	84.2	31.7	0.00	0.00	0.00
3,600.0	6.00	71.35	3,595.1	31.8	94.1	35.4	0.00	0.00	0.00
3,700.0	6.00	71.35	3,694.5	35.1	104.0	39.1	0.00	0.00	0.00
3,800.0	6.00	71.35	3,794.0	38.4	113.9	42.8	0.00	0.00	0.00
3,900.0	6.00	71.35	3,893.4	41.8	123.8	46.6	0.00	0.00	0.00
4,000.0	6.00	71.35	3,992.9	45.1	133.7	50.3	0.00	0.00	0.00
4,100.0	6.00	71.35	4,092.3	48.5	143.6	54.0	0.00	0.00	0.00
4,200.0	6.00	71.35	4,191.8	51.8	153.5	57.7	0.00	0.00	0.00
4,300.0	6.00	71.35	4,291.2	55.2	163.4	61.5	0.00	0.00	0.00
4,400.0	6.00	71.35	4,390.7	58.5	173.3	65.2	0.00	0.00	0.00
4,500.0	6.00	71.35	4,490.1	61.8	183.2	68.9	0.00	0.00	0.00
4,600.0	6.00	71.35	4,589.6	65.2	193.1	72.6	0.00	0.00	0.00
4,700.0	6.00	71.35	4,689.0	68.5	203.0	76.4	0.00	0.00	0.00
4,800.0	6.00	71.35	4,788.5	71.9	212.9	80.1	0.00	0.00	0.00
4,900.0	6.00	71.35	4,887.9	75.2	222.9	83.8	0.00	0.00	0.00
5,000.0	6.00	71.35	4,987.4	78.6	232.8	87.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Well:	ZIA HILLS 20 FED COM #112H	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)
5,100.0	6.00	71.35	5,086.9	81.9	242.7	91.3	0.00	0.00	0.00
5,200.0	6.00	71.35	5,186.3	85.2	252.6	95.0	0.00	0.00	0.00
5,300.0	6.00	71.35	5,285.8	88.6	262.5	98.7	0.00	0.00	0.00
5,400.0	6.00	71.35	5,385.2	91.9	272.4	102.4	0.00	0.00	0.00
5,500.0	6.00	71.35	5,484.7	95.3	282.3	106.2	0.00	0.00	0.00
5,600.0	6.00	71.35	5,584.1	98.6	292.2	109.9	0.00	0.00	0.00
5,700.0	6.00	71.35	5,683.6	102.0	302.1	113.6	0.00	0.00	0.00
5,800.0	6.00	71.35	5,783.0	105.3	312.0	117.3	0.00	0.00	0.00
5,900.0	6.00	71.35	5,882.5	108.6	321.9	121.1	0.00	0.00	0.00
6,000.0	6.00	71.35	5,981.9	112.0	331.8	124.8	0.00	0.00	0.00
6,100.0	6.00	71.35	6,081.4	115.3	341.7	128.5	0.00	0.00	0.00
6,200.0	6.00	71.35	6,180.8	118.7	351.6	132.2	0.00	0.00	0.00
6,300.0	6.00	71.35	6,280.3	122.0	361.5	136.0	0.00	0.00	0.00
6,388.4	6.00	71.35	6,368.2	125.0	370.3	139.3	0.00	0.00	0.00
Start Drop -1.00									
6,400.0	5.88	71.35	6,379.7	125.3	371.4	139.7	1.00	-1.00	0.00
6,500.0	4.88	71.35	6,479.3	128.3	380.3	143.0	1.00	-1.00	0.00
6,600.0	3.88	71.35	6,579.0	130.8	387.5	145.8	1.00	-1.00	0.00
6,700.0	2.88	71.35	6,678.8	132.7	393.1	147.9	1.00	-1.00	0.00
6,800.0	1.88	71.35	6,778.7	134.0	397.1	149.3	1.00	-1.00	0.00
6,900.0	0.88	71.35	6,878.7	134.8	399.4	150.2	1.00	-1.00	0.00
6,988.4	0.00	0.00	6,967.1	135.0	400.0	150.4	1.00	-1.00	0.00
Start 4287.4 hold at 6988.4 MD									
7,000.0	0.00	0.00	6,978.7	135.0	400.0	150.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,078.7	135.0	400.0	150.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,178.7	135.0	400.0	150.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,278.7	135.0	400.0	150.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,378.7	135.0	400.0	150.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,478.7	135.0	400.0	150.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,578.7	135.0	400.0	150.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,678.7	135.0	400.0	150.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,778.7	135.0	400.0	150.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,878.7	135.0	400.0	150.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,978.7	135.0	400.0	150.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,078.7	135.0	400.0	150.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,178.7	135.0	400.0	150.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,278.7	135.0	400.0	150.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,378.7	135.0	400.0	150.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,478.7	135.0	400.0	150.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,578.7	135.0	400.0	150.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,678.7	135.0	400.0	150.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,778.7	135.0	400.0	150.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,878.7	135.0	400.0	150.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,978.7	135.0	400.0	150.4	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Well:	ZIA HILLS 20 FED COM #112H	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)
9,100.0	0.00	0.00	9,078.7	135.0	400.0	150.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,178.7	135.0	400.0	150.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,278.7	135.0	400.0	150.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,378.7	135.0	400.0	150.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,478.7	135.0	400.0	150.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,578.7	135.0	400.0	150.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,678.7	135.0	400.0	150.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,778.7	135.0	400.0	150.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,878.7	135.0	400.0	150.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,978.7	135.0	400.0	150.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,078.7	135.0	400.0	150.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,178.7	135.0	400.0	150.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,278.7	135.0	400.0	150.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,378.7	135.0	400.0	150.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,478.7	135.0	400.0	150.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,578.7	135.0	400.0	150.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,678.7	135.0	400.0	150.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,778.7	135.0	400.0	150.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,878.7	135.0	400.0	150.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,978.7	135.0	400.0	150.4	0.00	0.00	0.00
11,100.0	0.00	0.00	11,078.7	135.0	400.0	150.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,178.7	135.0	400.0	150.4	0.00	0.00	0.00
11,275.8	0.00	0.00	11,254.5	135.0	400.0	150.4	0.00	0.00	0.00
Start Build 12.00									
11,300.0	2.90	356.40	11,278.7	135.6	400.0	151.1	12.00	12.00	0.00
11,400.0	14.90	356.40	11,377.3	151.0	399.0	166.4	12.00	12.00	0.00
11,500.0	26.90	356.40	11,470.5	186.6	396.8	201.9	12.00	12.00	0.00
11,600.0	38.90	356.40	11,554.4	240.7	393.4	255.8	12.00	12.00	0.00
11,700.0	50.90	356.40	11,625.1	311.0	388.9	325.9	12.00	12.00	0.00
11,800.0	62.90	356.40	11,679.6	394.5	383.7	409.1	12.00	12.00	0.00
11,900.0	74.90	356.40	11,715.5	487.4	377.8	501.7	12.00	12.00	0.00
12,000.0	86.90	356.40	11,731.3	585.8	371.6	599.8	12.00	12.00	0.00
12,025.8	90.00	356.40	11,732.0	611.5	370.0	625.4	12.00	12.00	0.00
Start DLS 4.00 TFO 90.00									
12,100.0	90.00	359.37	11,732.0	685.7	367.3	699.4	4.00	0.00	4.00
12,106.9	90.00	359.64	11,732.0	692.6	367.2	706.3	4.00	0.00	4.00
Start 7540.8 hold at 12106.9 MD									
12,200.0	90.00	359.64	11,732.0	785.7	366.6	799.3	0.00	0.00	0.00
12,300.0	90.00	359.64	11,732.0	885.7	366.0	899.2	0.00	0.00	0.00
12,400.0	90.00	359.64	11,732.0	985.7	365.4	999.1	0.00	0.00	0.00
12,500.0	90.00	359.64	11,732.0	1,085.7	364.8	1,099.0	0.00	0.00	0.00
12,600.0	90.00	359.64	11,732.0	1,185.7	364.2	1,198.9	0.00	0.00	0.00
12,700.0	90.00	359.64	11,732.0	1,285.7	363.5	1,298.8	0.00	0.00	0.00
12,800.0	90.00	359.64	11,732.0	1,385.6	362.9	1,398.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Well:	ZIA HILLS 20 FED COM #112H	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)
12,900.0	90.00	359.64	11,732.0	1,485.6	362.3	1,498.6	0.00	0.00	0.00
13,000.0	90.00	359.64	11,732.0	1,585.6	361.7	1,598.5	0.00	0.00	0.00
13,100.0	90.00	359.64	11,732.0	1,685.6	361.0	1,698.4	0.00	0.00	0.00
13,200.0	90.00	359.64	11,732.0	1,785.6	360.4	1,798.3	0.00	0.00	0.00
13,300.0	90.00	359.64	11,732.0	1,885.6	359.8	1,898.2	0.00	0.00	0.00
13,400.0	90.00	359.64	11,732.0	1,985.6	359.2	1,998.1	0.00	0.00	0.00
13,500.0	90.00	359.64	11,732.0	2,085.6	358.6	2,098.0	0.00	0.00	0.00
13,600.0	90.00	359.64	11,732.0	2,185.6	357.9	2,197.9	0.00	0.00	0.00
13,700.0	90.00	359.64	11,732.0	2,285.6	357.3	2,297.8	0.00	0.00	0.00
13,800.0	90.00	359.64	11,732.0	2,385.6	356.7	2,397.7	0.00	0.00	0.00
13,900.0	90.00	359.64	11,732.0	2,485.6	356.1	2,497.6	0.00	0.00	0.00
14,000.0	90.00	359.64	11,732.0	2,585.6	355.4	2,597.5	0.00	0.00	0.00
14,100.0	90.00	359.64	11,732.0	2,685.6	354.8	2,697.4	0.00	0.00	0.00
14,200.0	90.00	359.64	11,732.0	2,785.6	354.2	2,797.3	0.00	0.00	0.00
14,300.0	90.00	359.64	11,732.0	2,885.6	353.6	2,897.2	0.00	0.00	0.00
14,400.0	90.00	359.64	11,732.0	2,985.6	353.0	2,997.1	0.00	0.00	0.00
14,500.0	90.00	359.64	11,732.0	3,085.6	352.3	3,097.0	0.00	0.00	0.00
14,600.0	90.00	359.64	11,732.0	3,185.6	351.7	3,196.9	0.00	0.00	0.00
14,700.0	90.00	359.64	11,732.0	3,285.6	351.1	3,296.8	0.00	0.00	0.00
14,800.0	90.00	359.64	11,732.0	3,385.6	350.5	3,396.7	0.00	0.00	0.00
14,900.0	90.00	359.64	11,732.0	3,485.6	349.9	3,496.6	0.00	0.00	0.00
15,000.0	90.00	359.64	11,732.0	3,585.6	349.2	3,596.5	0.00	0.00	0.00
15,100.0	90.00	359.64	11,732.0	3,685.6	348.6	3,696.4	0.00	0.00	0.00
15,200.0	90.00	359.64	11,732.0	3,785.6	348.0	3,796.3	0.00	0.00	0.00
15,300.0	90.00	359.64	11,732.0	3,885.6	347.4	3,896.2	0.00	0.00	0.00
15,400.0	90.00	359.64	11,732.0	3,985.6	346.7	3,996.1	0.00	0.00	0.00
15,500.0	90.00	359.64	11,732.0	4,085.6	346.1	4,096.0	0.00	0.00	0.00
15,600.0	90.00	359.64	11,732.0	4,185.6	345.5	4,195.9	0.00	0.00	0.00
15,700.0	90.00	359.64	11,732.0	4,285.6	344.9	4,295.8	0.00	0.00	0.00
15,800.0	90.00	359.64	11,732.0	4,385.6	344.3	4,395.7	0.00	0.00	0.00
15,900.0	90.00	359.64	11,732.0	4,485.6	343.6	4,495.6	0.00	0.00	0.00
16,000.0	90.00	359.64	11,732.0	4,585.6	343.0	4,595.5	0.00	0.00	0.00
16,100.0	90.00	359.64	11,732.0	4,685.6	342.4	4,695.4	0.00	0.00	0.00
16,200.0	90.00	359.64	11,732.0	4,785.6	341.8	4,795.3	0.00	0.00	0.00
16,300.0	90.00	359.64	11,732.0	4,885.6	341.1	4,895.2	0.00	0.00	0.00
16,400.0	90.00	359.64	11,732.0	4,985.6	340.5	4,995.0	0.00	0.00	0.00
16,500.0	90.00	359.64	11,732.0	5,085.6	339.9	5,094.9	0.00	0.00	0.00
16,600.0	90.00	359.64	11,732.0	5,185.6	339.3	5,194.8	0.00	0.00	0.00
16,700.0	90.00	359.64	11,732.0	5,285.6	338.7	5,294.7	0.00	0.00	0.00
16,800.0	90.00	359.64	11,732.0	5,385.6	338.0	5,394.6	0.00	0.00	0.00
16,900.0	90.00	359.64	11,732.0	5,485.6	337.4	5,494.5	0.00	0.00	0.00
17,000.0	90.00	359.64	11,732.0	5,585.6	336.8	5,594.4	0.00	0.00	0.00
17,100.0	90.00	359.64	11,732.0	5,685.6	336.2	5,694.3	0.00	0.00	0.00

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Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Well:	ZIA HILLS 20 FED COM #112H	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)
17,200.0	90.00	359.64	11,732.0	5,785.6	335.6	5,794.2	0.00	0.00	0.00
17,300.0	90.00	359.64	11,732.0	5,885.6	334.9	5,894.1	0.00	0.00	0.00
17,400.0	90.00	359.64	11,732.0	5,985.6	334.3	5,994.0	0.00	0.00	0.00
17,500.0	90.00	359.64	11,732.0	6,085.6	333.7	6,093.9	0.00	0.00	0.00
17,600.0	90.00	359.64	11,732.0	6,185.6	333.1	6,193.8	0.00	0.00	0.00
17,700.0	90.00	359.64	11,732.0	6,285.6	332.4	6,293.7	0.00	0.00	0.00
17,800.0	90.00	359.64	11,732.0	6,385.6	331.8	6,393.6	0.00	0.00	0.00
17,900.0	90.00	359.64	11,732.0	6,485.5	331.2	6,493.5	0.00	0.00	0.00
18,000.0	90.00	359.64	11,732.0	6,585.5	330.6	6,593.4	0.00	0.00	0.00
18,100.0	90.00	359.64	11,732.0	6,685.5	330.0	6,693.3	0.00	0.00	0.00
18,200.0	90.00	359.64	11,732.0	6,785.5	329.3	6,793.2	0.00	0.00	0.00
18,300.0	90.00	359.64	11,732.0	6,885.5	328.7	6,893.1	0.00	0.00	0.00
18,400.0	90.00	359.64	11,732.0	6,985.5	328.1	6,993.0	0.00	0.00	0.00
18,500.0	90.00	359.64	11,732.0	7,085.5	327.5	7,092.9	0.00	0.00	0.00
18,600.0	90.00	359.64	11,732.0	7,185.5	326.8	7,192.8	0.00	0.00	0.00
18,700.0	90.00	359.64	11,732.0	7,285.5	326.2	7,292.7	0.00	0.00	0.00
18,800.0	90.00	359.64	11,732.0	7,385.5	325.6	7,392.6	0.00	0.00	0.00
18,900.0	90.00	359.64	11,732.0	7,485.5	325.0	7,492.5	0.00	0.00	0.00
19,000.0	90.00	359.64	11,732.0	7,585.5	324.4	7,592.4	0.00	0.00	0.00
19,100.0	90.00	359.64	11,732.0	7,685.5	323.7	7,692.3	0.00	0.00	0.00
19,200.0	90.00	359.64	11,732.0	7,785.5	323.1	7,792.2	0.00	0.00	0.00
19,300.0	90.00	359.64	11,732.0	7,885.5	322.5	7,892.1	0.00	0.00	0.00
19,400.0	90.00	359.64	11,732.0	7,985.5	321.9	7,992.0	0.00	0.00	0.00
19,500.0	90.00	359.64	11,732.0	8,085.5	321.2	8,091.9	0.00	0.00	0.00
19,600.0	90.00	359.64	11,732.0	8,185.5	320.6	8,191.8	0.00	0.00	0.00
19,647.7	90.00	359.64	11,732.0	8,233.2	320.3	8,239.4	0.00	0.00	0.00
TD at 19647.7									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP(ZIA HILLS 20 FE - hit/miss target - Shape - Point	0.00	0.00	11,732.0	8,183.2	320.7	382,454.09	699,574.12	32° 2' 59.441 N	103° 41' 21.091 W
FTP(ZIA HILLS 20 FE - plan misses target center by 0.7usft at 12042.8usft MD (11732.0 TVD, 628.4 N, 369.1 E) - Circle (radius 50.0)	0.00	0.00	11,732.0	628.4	368.3	374,899.30	699,621.76	32° 1' 44.675 N	103° 41' 21.061 W
PBHL(ZIA HILLS 20 F - plan hits target center - Rectangle (sides W100.0 H8,100.0 D20.0)	0.00	179.64	11,732.0	8,233.2	320.3	382,504.09	699,573.76	32° 2' 59.936 N	103° 41' 21.092 W

ConocoPhillips
Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #112H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.0usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.0usft (N 894)
Well:	ZIA HILLS 20 FED COM #112H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2800	2799	5	15	Start 3588.4 hold at 2800.0 MD
6388	6368	125	370	Start Drop -1.00
6988	6967	135	400	Start 4287.4 hold at 6988.4 MD
11,276	11,255	135	400	Start Build 12.00
12,026	11,732	612	370	Start DLS 4.00 TFO 90.00
12,107	11,732	693	367	Start 7540.8 hold at 12106.9 MD
19,648	11,732	8233	320	TD at 19647.7

Checked By: _____	Approved By: _____	Date: _____
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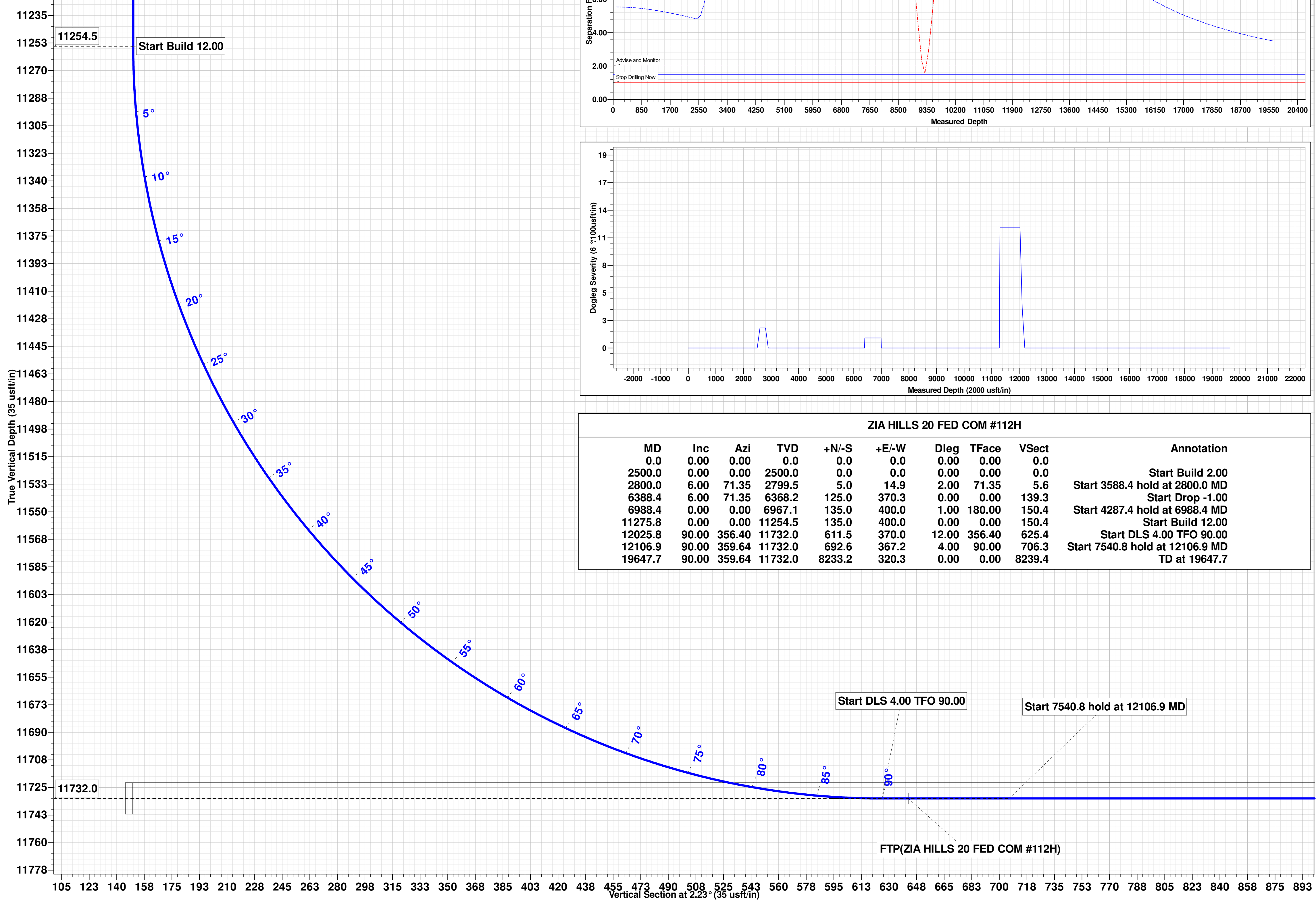
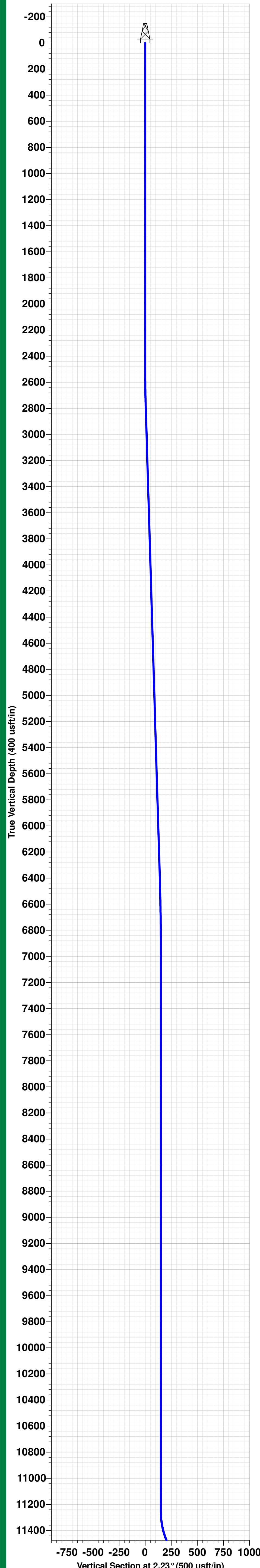
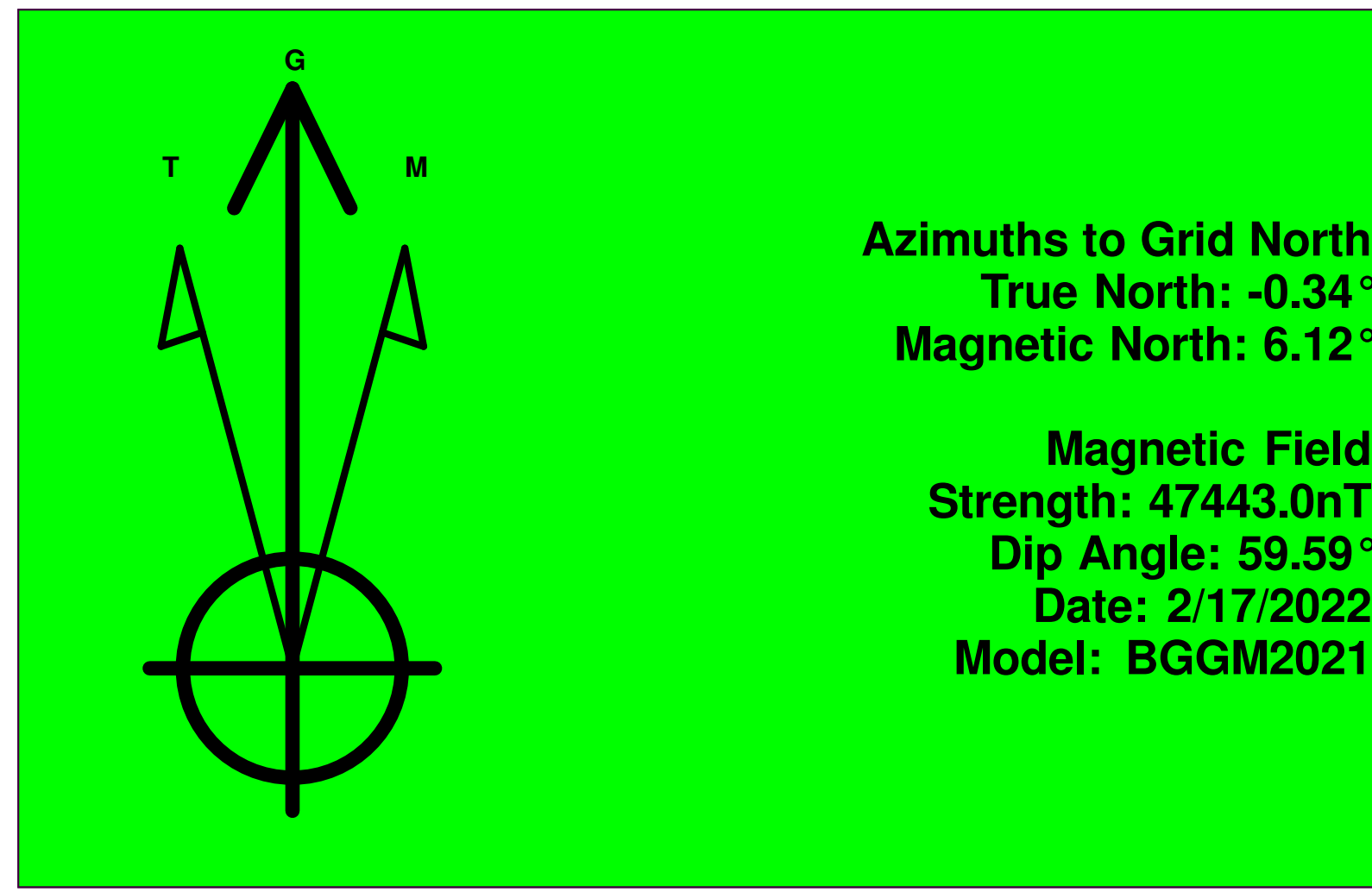
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS 20 FED COM #112H
Well: ZIA HILLS 20 FED COM #112H
Wellbore: OWB
Design: PWP1
GL: 3142.0
KB=31' @ 3173.0usft (N 894)

WELL DETAILS: ZIA HILLS 20 FED COM #112H

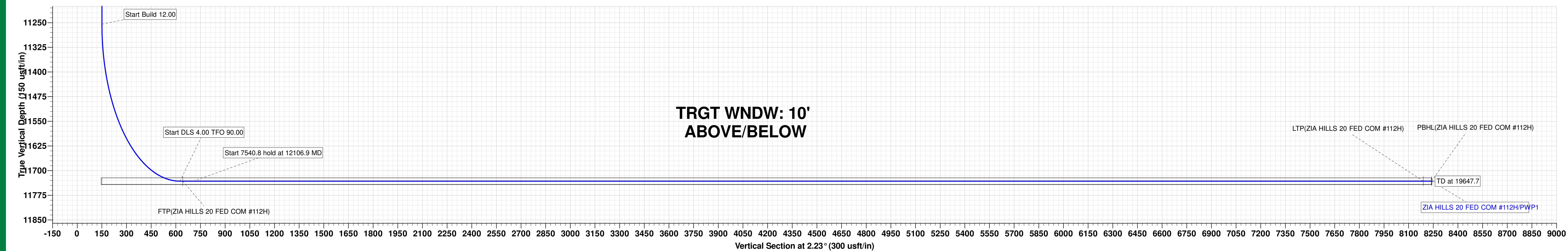
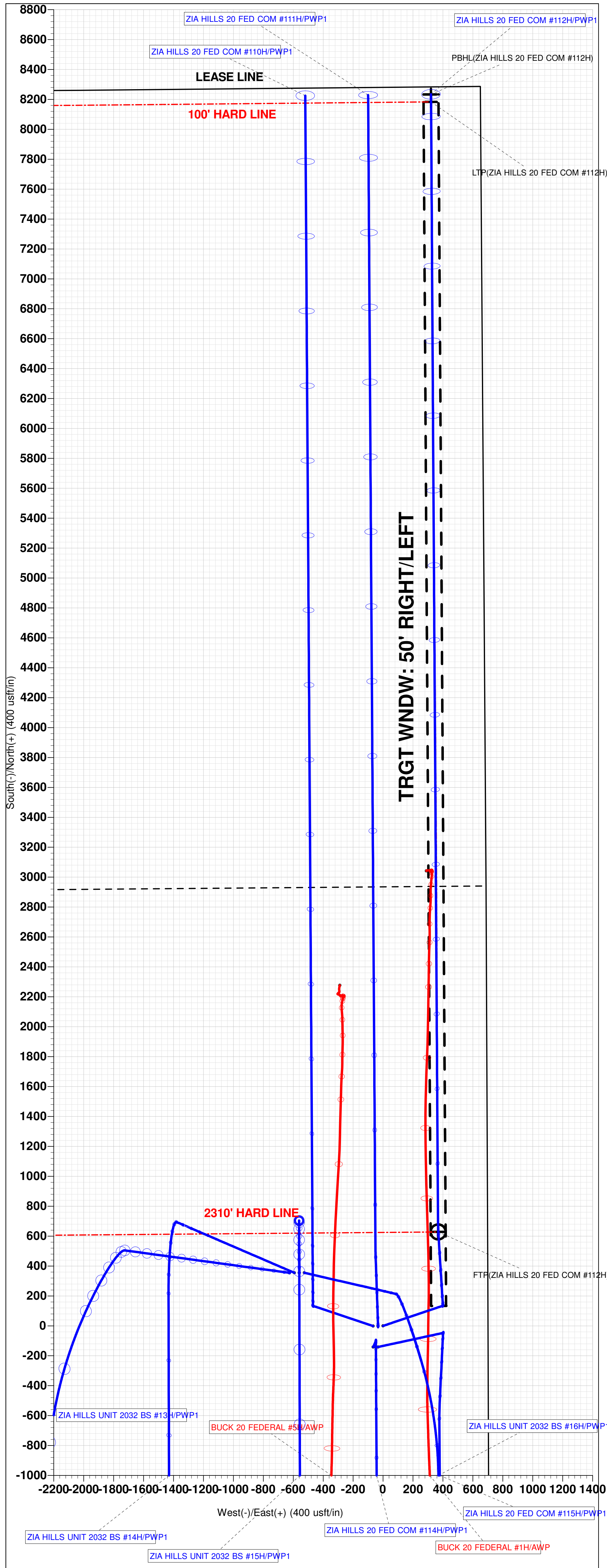
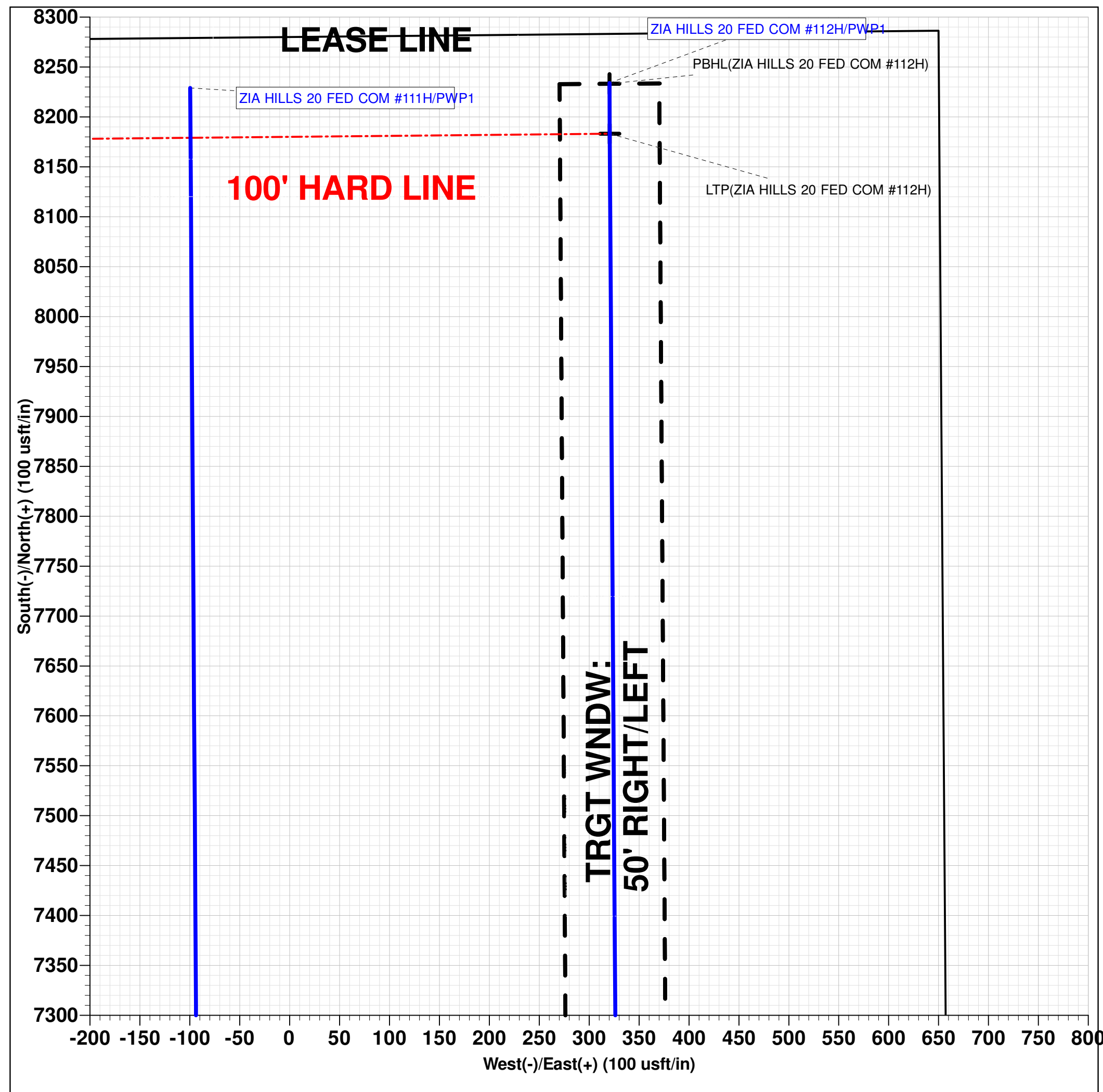
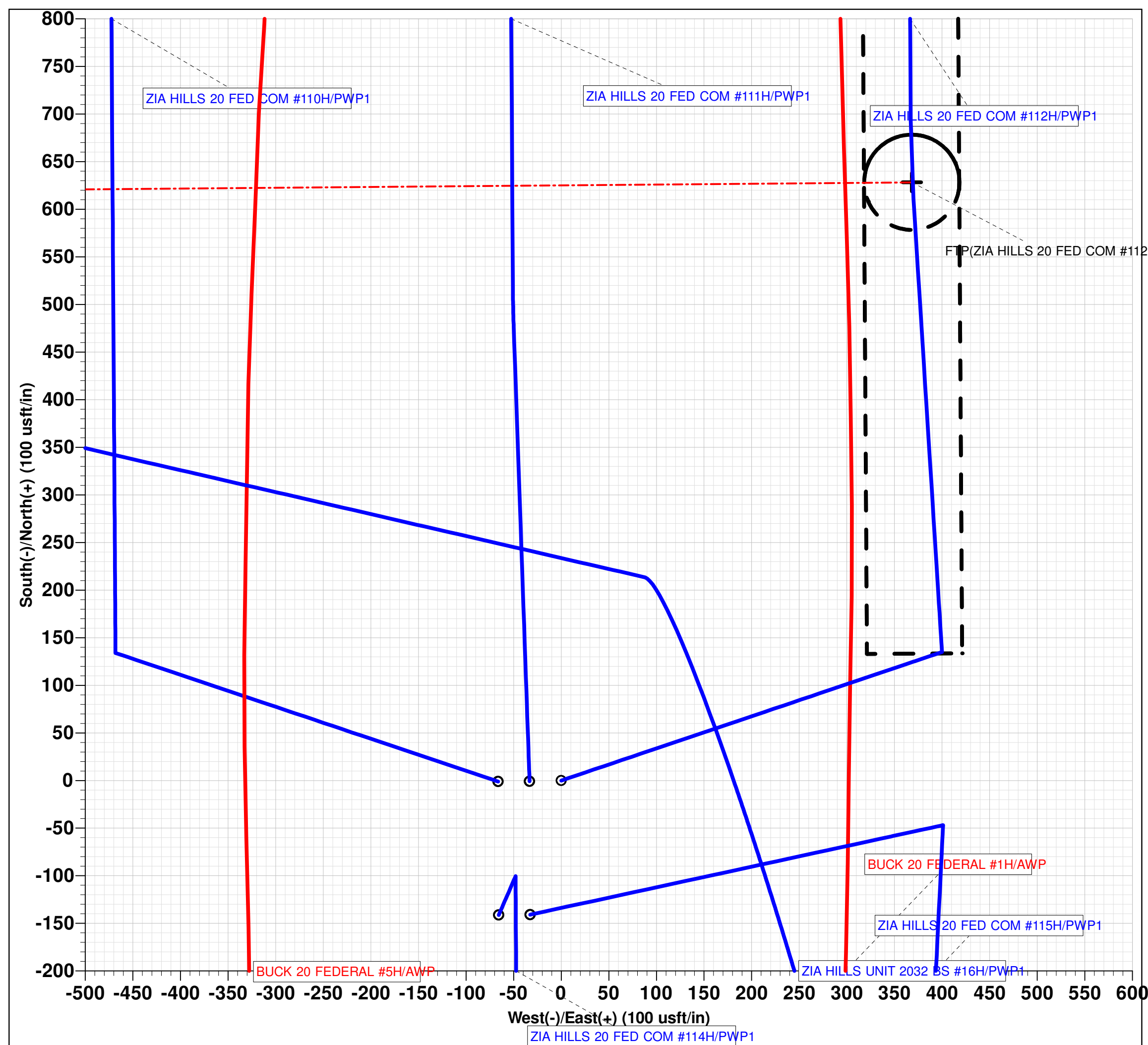
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374270.88	699253.43	32° 1' 38.478 N	103° 41' 25.383 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP(ZIA HILLS 20 FED COM #112H)	11732.0	628.4	368.3	374899.30	699621.76	32° 1' 44.675 N	103° 41' 21.061 W
LTP(ZIA HILLS 20 FED COM #112H)	11732.0	8183.2	320.7	382454.09	699574.12	32° 2' 59.441 N	103° 41' 21.091 W
PBHL(ZIA HILLS 20 FED COM #112H)	11732.0	8233.2	320.3	382504.09	699573.76	32° 2' 59.936 N	103° 41' 21.092 W



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	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2800.0	6.00	71.35	2799.5	5.0	14.9	2.00	71.35	5.6	Start 3588.4 hold at 2800.0 MD
6388.4	6.00	71.35	6388.2	125.0	370.3	0.00	0.00	139.3	Start Drop -1.00
6988.4	0.00	0.00	6987.1	135.0	400.0	1.00	180.00	150.4	Start 4287.4 hold at 6988.4 MD
11275.8	0.00	0.00	11254.5	135.0	400.0	0.00	0.00	150.4	Start Build 12.00
12025.8	90.00	356.40	11732.0	611.5	370.0	12.00	356.40	625.4	Start DLS 4.00 TFO 90.00
12106.9	90.00	359.64	11732.0	692.6	367.2	4.00	90.00	706.3	Start 7540.8 hold at 12106.9 MD
19647.7	90.00	359.64	11732.0	8233.2	320.3	0.00	0.00	8239.4	TD at 19647.7



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
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
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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 110906

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 110906
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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