

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	
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

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

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

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: SWNE / 2637 FNL / 2067 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.028294 / LONG: -103.695261 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2576 FNL / 2310 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.028457 / LONG: -103.696044 (TVD: 11633 feet, MD: 11750 feet)

BHL: NWNE / 50 FNL / 2310 FEL / TWSP: 26S / RANGE: 32E / SECTION: 17 / LAT: 32.050086 / LONG: -103.696053 (TVD: 11865 feet, MD: 19513 feet)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-45712	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code	5 Property Name ZIA HILLS 20 FED COM	6 Well Number 102H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3155.1'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	20	26-S	32-E		2637'	NORTH	2067'	EAST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	17	26-S	32-E		50'	NORTH	2010'	EAST	LEA

12 Dedicated Acres 13,383.53 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.

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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=739073.61 LAT.= 32.02829335° N
Y=374615.71 LONG.= -103.69526015° W
2637' FNL, 2067' FEL - SECTION 20

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=739128.93 LAT.= 32.02919049° N
Y=374942.41 LONG.= -103.69507541° W
2310' FNL, 2010' FEL - SECTION 20

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=739081.01 LAT.= 32.04995221° N
Y=382495.10 LONG.= -103.69508603° W
100' FNL, 2010' FEL - SECTION 17

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=739080.65 LAT.= 32.05008966° N
Y=382545.09 LONG.= -103.69508624° W
50' FNL, 2010' 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.

Stan Wagner 4/11/2022
Signature Date

Stan Wagner
Printed Name

E-mail Address

18 SURVEYOR CERTIFICATION

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

Date of Survey

Mark J. Murray
Signature and Seal of Professional Surveyor

MARK J. MURRAY
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
12177

3/18/2022

Certificate Number

ConocoPhillips - Zia Hills 20 Fed Com 102H

1. Geologic Formations

TVD of target	11,735' EOL	Pilot hole depth	NA
MD at TD:	19,390'	Deepest expected fresh water:	405'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1116	Water	
Top of Salt	1437	Salt	
Base of Salt	4102	Salt	
Lamar	4303	Salt Water	
Bell Canyon	4357	Salt Water	
Cherry Canyon	5250	Oil/Gas	
Brushy Canyon	6774	Oil/Gas	
Bone Spring	8329	Oil/Gas	
1st Bone Spring Sand	9321	Oil/Gas	
2nd Bone Spring Sand	9984	Oil/Gas	
3rd Bone Spring Carb	10380	Oil/Gas	
3rd Bone Spring Sand	11122	Oil/Gas	
Wolfcamp	11554	Oil/Gas	
Wolfcamp A	11765	Target - Oil/Gas	
Wolfcamp B	12090	Not Penetrated	Abnormal Press.

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1387	10.75"	45.5	J55	BTC	3.29	1.14	12.61	12.61
9.875"	0	8500	7.625"	29.7	L80	BTC	1.48	1.07	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	19,390	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 102H

	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 102H

3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	661	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	505	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	803	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 102H

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	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7630 psi at 11735' 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 #102H

OWB

PWP1

Anticollision Report

05 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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	4/4/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,259.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,259.0	19,390.9	PWP1 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Red Hills West - Field						
BUCK FEDERAL 20 2H - Original Hole - Original Hole	9,237.5	11,120.2	285.1	236.8	5.901	CC, ES
BUCK FEDERAL 20 2H - Original Hole - Original Hole	9,300.0	11,122.8	291.8	241.8	5.839	SF
BUCK FEDERAL 20 3H - Original Hole - Original Hole						Out of range
BUCK FEDERAL 20 6H - Original Hole - Original Hole	8,810.7	11,002.4	355.7	303.1	6.767	CC, ES, SF
ZIA HILLS 20 FED COM PROJECT						
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	2,000.0	2,000.0	32.9	26.3	4.994	CC, ES
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	19,339.6	19,605.2	452.8	330.0	3.689	SF
ZIA HILLS 20 FED COM #101H - OWB - PWP1	1,916.4	1,917.2	33.1	26.5	5.064	CC
ZIA HILLS 20 FED COM #101H - OWB - PWP1	2,000.0	2,000.8	33.1	26.5	5.027	ES
ZIA HILLS 20 FED COM #101H - OWB - PWP1	19,390.9	19,609.5	449.2	325.2	3.625	SF
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,390.9	19,636.8	840.0	716.5	6.800	CC, ES, SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #2H - OWB - AWP	9,242.1	11,270.5	210.4	161.9	4.335	CC, ES, SF
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	2,000.0	1,988.9	441.9	397.7	10.015	CC
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	2,100.0	2,088.9	443.6	397.4	9.599	ES
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	4,400.0	4,387.5	523.6	428.6	5.512	SF
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	1,638.6	1,638.2	136.0	126.3	14.064	CC, ES
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	8,500.0	8,495.2	254.0	217.3	6.916	SF
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	10,074.8	10,077.8	108.5	63.8	2.426	CC, ES
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	10,100.0	10,101.6	108.6	63.8	2.422	SF
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	10,074.8	10,077.8	108.5	63.8	2.426	CC, ES
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	10,100.0	10,101.6	108.6	63.8	2.422	SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	1,521.6	1,521.4	146.6	137.3	15.668	CC, ES
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	11,200.0	11,203.1	249.5	204.5	5.541	SF
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	7,052.9	7,090.8	89.7	54.8	2.573	CC, ES
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	7,100.0	7,137.3	90.0	55.0	2.569	SF
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	10,100.0	10,357.1	163.5	133.9	5.523	SF
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	10,218.2	10,405.2	120.3	101.1	6.250	CC, ES
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	10,221.1	10,380.4	750.8	706.7	17.016	CC, ES, SF
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	2,604.6	2,570.4	831.2	824.2	118.629	CC, ES
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	5,100.0	5,007.3	993.1	983.0	98.317	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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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						
Red Hills West - Field						
BUCK FEDERAL 20 2H - Original Hole - Original Hole	19,390.9	8,909.0				Out of Range @TD
BUCK FEDERAL 20 3H - Original Hole - Original Hole	19,390.9	8,874.0				Out of Range @TD
BUCK FEDERAL 20 6H - Original Hole - Original Hole	19,390.9	8,560.0				Out of Range @TD
ZIA HILLS 20 FED COM PROJECT						
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	19,390.9	19,608.0	455.4	333.3	3.731	
ZIA HILLS 20 FED COM #101H - OWB - PWP1	19,390.9	19,609.5	449.2	325.2	3.625	SF
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,390.9	19,636.8	840.0	716.5	6.800	CC, ES, SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #2H - OWB - AWP	19,390.9	8,924.8				Out of Range @TD
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	19,390.9	4,400.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	19,390.9	11,211.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	19,390.9	11,630.3				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	19,390.9	11,259.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	19,390.9	11,211.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	19,390.9	9,975.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	19,390.9	9,925.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	19,390.9	9,875.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	19,390.9	9,887.7				Out of Range @TD

Offset Design: Red Hills West - Field - BUCK FEDERAL 20 2H - Original Hole - Original Hole													Offset Site Error:	0.0 usft
Survey Program:		100-, 8166-, 9092-Offset				Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:		0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
8,300.0	8,298.5	11,085.2	9,225.5	10.9	39.5	83.10	104.5	341.4	979.2	947.4	31.72	30.873		
8,400.0	8,398.5	11,088.7	9,225.6	11.0	39.5	83.77	101.1	341.4	884.0	851.5	32.59	27.130		
8,500.0	8,498.5	11,092.1	9,225.7	11.1	39.6	84.47	97.6	341.4	790.1	756.5	33.63	23.496		
8,600.0	8,598.5	11,095.7	9,225.9	11.2	39.6	85.17	94.1	341.4	697.8	662.9	34.90	19.996		
8,700.0	8,698.5	11,099.3	9,226.0	11.3	39.7	85.90	90.4	341.4	608.0	571.5	36.48	16.666		
8,800.0	8,798.5	11,103.1	9,226.1	11.5	39.7	86.64	86.7	341.4	521.9	483.4	38.47	13.566		
8,900.0	8,898.5	11,106.8	9,226.3	11.6	39.8	87.40	82.9	341.4	441.5	400.6	40.92	10.791		
9,000.0	8,998.5	11,110.7	9,226.5	11.7	39.9	88.18	79.1	341.4	370.9	327.2	43.70	8.487		
9,100.0	9,098.5	11,114.7	9,226.6	11.9	39.9	88.97	75.1	341.4	316.4	270.3	46.17	6.854		
9,200.0	9,198.5	11,118.7	9,226.8	12.0	40.0	89.78	71.1	341.4	287.5	240.3	47.24	6.087		
9,237.5	9,235.9	11,120.2	9,226.8	12.0	40.0	90.09	69.6	341.4	285.1	236.8	48.30	5.901	CC, ES	
9,300.0	9,298.5	11,122.8	9,227.0	12.1	40.0	90.61	67.0	341.4	291.8	241.8	49.97	5.839	SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: Red Hills West - Field - BUCK FEDERAL 20 2H - Original Hole - Original Hole													Offset Site Error:	0.0 usft
Survey Program: 100-, 8166-, 9092- Reference													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,400.0	9,398.5	11,127.0	9,227.1	12.2	40.1	91.44	62.8	341.3	328.1	276.9	51.16	6.412		
9,500.0	9,498.5	11,131.1	9,227.3	12.4	40.2	92.27	58.7	341.3	387.4	336.8	50.54	7.665		
9,600.0	9,598.5	11,135.1	9,227.5	12.5	40.2	93.07	54.7	341.3	460.9	411.6	49.29	9.352		
9,700.0	9,698.5	11,139.1	9,227.6	12.6	40.3	93.86	50.8	341.3	543.0	494.9	48.10	11.288		
9,800.0	9,798.5	11,142.9	9,227.8	12.7	40.4	94.64	46.9	341.3	630.2	583.0	47.18	13.358		
9,900.0	9,898.5	11,146.8	9,227.9	12.9	40.4	95.40	43.1	341.3	720.7	674.2	46.52	15.493		
10,000.0	9,998.5	11,150.5	9,228.1	13.0	40.5	96.14	39.3	341.3	813.5	767.4	46.08	17.653		
10,100.0	10,098.5	11,154.2	9,228.2	13.1	40.5	96.87	35.6	341.3	907.7	861.9	45.82	19.812		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: Red Hills West - Field - BUCK FEDERAL 20 6H - Original Hole - Original Hole												Offset Site Error:	0.0 usft
Survey Program: 200-, 1132-Reference												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,900.0	7,898.5	10,971.4	8,815.0	10.4	46.0	-81.60	122.1	-296.7	977.1	941.0	36.16	27.024	
8,000.0	7,998.5	10,974.0	8,815.1	10.5	46.0	-82.02	119.5	-296.9	884.8	847.4	37.35	23.686	
8,100.0	8,098.5	10,976.7	8,815.2	10.6	46.1	-82.45	116.8	-297.1	794.3	755.5	38.77	20.484	
8,200.0	8,198.5	10,979.6	8,815.3	10.7	46.1	-82.92	113.9	-297.3	706.3	665.9	40.48	17.450	
8,300.0	8,298.5	10,982.7	8,815.4	10.9	46.2	-83.42	110.8	-297.5	622.0	579.5	42.52	14.629	
8,400.0	8,398.5	10,986.0	8,815.5	11.0	46.2	-83.95	107.5	-297.7	543.1	498.1	44.93	12.088	
8,500.0	8,498.5	10,989.6	8,815.6	11.1	46.3	-84.52	104.0	-298.0	472.1	424.5	47.61	9.916	
8,600.0	8,598.5	10,993.4	8,815.7	11.2	46.3	-85.14	100.2	-298.2	413.3	363.1	50.22	8.231	
8,700.0	8,698.5	10,997.5	8,815.9	11.3	46.4	-85.79	96.1	-298.5	372.5	320.4	52.04	7.158	
8,800.0	8,798.5	11,001.9	8,816.0	11.5	46.5	-86.50	91.7	-298.7	355.8	303.3	52.57	6.769	
8,810.7	8,809.1	11,002.4	8,816.0	11.5	46.5	-86.58	91.2	-298.8	355.7	303.1	52.56	6.767 CC, ES, SF	
8,900.0	8,898.5	11,006.7	8,816.2	11.6	46.5	-87.27	86.9	-299.0	366.7	314.5	52.19	7.026	
9,000.0	8,998.5	11,011.8	8,816.4	11.7	46.6	-88.11	81.8	-299.3	402.8	350.6	52.23	7.712	
9,100.0	9,098.5	11,017.5	8,816.7	11.9	46.7	-89.01	76.1	-299.6	458.3	407.1	51.21	8.949	
9,200.0	9,198.5	11,023.6	8,816.9	12.0	46.8	-90.00	70.0	-299.9	527.0	477.2	49.82	10.579	
9,300.0	9,298.5	11,030.4	8,817.2	12.1	46.9	-91.08	63.3	-300.2	604.5	556.0	48.51	12.461	
9,400.0	9,398.5	11,037.8	8,817.6	12.2	47.0	-92.27	55.8	-300.6	687.8	640.3	47.46	14.492	
9,500.0	9,498.5	11,046.1	8,818.0	12.4	47.2	-93.59	47.6	-300.9	774.9	728.3	46.68	16.602	
9,600.0	9,598.5	11,055.2	8,818.5	12.5	47.3	-95.04	38.4	-301.2	864.8	818.7	46.14	18.745	
9,700.0	9,698.5	11,054.2	8,818.4	12.6	47.3	-94.89	39.4	-301.2	956.8	911.1	45.66	20.955	

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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 #103H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11452-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)				
0.0	0.0	0.0	0.0	3.0	3.0	89.34	0.4	32.9	32.9					
100.0	100.0	100.0	100.0	3.0	3.0	89.34	0.4	32.9	32.9	26.9	6.00	5.477		
200.0	200.0	200.0	200.0	3.0	3.0	89.34	0.4	32.9	32.9	26.9	6.00	5.474		
300.0	300.0	300.0	300.0	3.0	3.0	89.34	0.4	32.9	32.9	26.9	6.01	5.469		
400.0	400.0	400.0	400.0	3.0	3.0	89.34	0.4	32.9	32.9	26.8	6.02	5.461		
500.0	500.0	500.0	500.0	3.1	3.1	89.34	0.4	32.9	32.9	26.8	6.03	5.449		
600.0	600.0	600.0	600.0	3.1	3.1	89.34	0.4	32.9	32.9	26.8	6.05	5.435		
700.0	700.0	700.0	700.0	3.1	3.1	89.34	0.4	32.9	32.9	26.8	6.07	5.418		
800.0	800.0	800.0	800.0	3.2	3.2	89.34	0.4	32.9	32.9	26.8	6.09	5.399		
900.0	900.0	900.0	900.0	3.2	3.2	89.34	0.4	32.9	32.9	26.8	6.11	5.377		
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	89.34	0.4	32.9	32.9	26.7	6.14	5.352		
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	89.34	0.4	32.9	32.9	26.7	6.17	5.325		
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	89.34	0.4	32.9	32.9	26.7	6.21	5.296		
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	89.34	0.4	32.9	32.9	26.6	6.24	5.264		
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	89.34	0.4	32.9	32.9	26.6	6.28	5.231		
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	89.34	0.4	32.9	32.9	26.5	6.33	5.195		
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	89.34	0.4	32.9	32.9	26.5	6.37	5.158		
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	89.34	0.4	32.9	32.9	26.4	6.42	5.119		
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	89.34	0.4	32.9	32.9	26.4	6.47	5.079		
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	89.34	0.4	32.9	32.9	26.3	6.52	5.037		
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	89.34	0.4	32.9	32.9	26.3	6.58	4.994 CC, ES		
2,100.0	2,100.0	2,098.8	2,098.8	4.0	4.0	52.83	0.4	34.6	33.5	26.9	6.64	5.049		
2,200.0	2,199.9	2,197.6	2,197.4	4.1	4.0	56.90	0.4	39.7	36.7	30.0	6.70	5.476		
2,300.0	2,299.9	2,296.0	2,295.4	4.2	4.1	59.58	0.4	48.1	43.4	36.6	6.75	6.422		
2,400.0	2,399.8	2,394.6	2,393.4	4.2	4.1	60.96	0.4	59.7	53.2	46.4	6.81	7.804		
2,500.0	2,499.7	2,494.1	2,492.1	4.3	4.1	61.83	0.4	71.8	63.5	56.6	6.88	9.228		
2,600.0	2,599.7	2,593.5	2,590.9	4.4	4.2	62.46	0.4	83.9	73.9	66.9	6.95	10.619		
2,700.0	2,699.6	2,693.0	2,689.6	4.5	4.2	62.93	0.4	96.0	84.2	77.2	7.03	11.976		
2,800.0	2,799.6	2,792.5	2,788.3	4.6	4.3	63.30	0.4	108.1	94.6	87.5	7.11	13.295		
2,900.0	2,899.5	2,891.9	2,887.0	4.7	4.3	63.60	0.4	120.3	104.9	97.7	7.20	14.576		
3,000.0	2,999.4	2,991.4	2,985.7	4.8	4.4	63.84	0.4	132.4	115.3	108.0	7.29	15.816		
3,100.0	3,099.4	3,090.8	3,084.4	4.9	4.4	64.04	0.4	144.5	125.6	118.3	7.38	17.016		
3,200.0	3,199.3	3,190.3	3,183.2	5.0	4.5	64.21	0.4	156.6	136.0	128.5	7.48	18.174		
3,300.0	3,299.2	3,289.8	3,281.9	5.1	4.6	64.36	0.4	168.7	146.4	138.8	7.59	19.291		
3,400.0	3,399.2	3,389.2	3,380.6	5.2	4.7	64.49	0.4	180.9	156.7	149.0	7.70	20.366		
3,500.0	3,499.1	3,488.7	3,479.3	5.3	4.7	64.60	0.4	193.0	167.1	159.3	7.81	21.400		
3,600.0	3,599.1	3,588.1	3,578.0	5.4	4.8	64.70	0.4	205.1	177.5	169.5	7.93	22.393		
3,700.0	3,699.0	3,687.6	3,676.8	5.5	4.9	64.79	0.4	217.2	187.8	179.8	8.05	23.346		
3,800.0	3,798.9	3,787.1	3,775.5	5.6	5.0	64.87	0.4	229.3	198.2	190.0	8.17	24.261		
3,900.0	3,898.9	3,886.5	3,874.2	5.7	5.0	64.94	0.4	241.5	208.6	200.3	8.30	25.137		
4,000.0	3,998.8	3,986.0	3,972.9	5.8	5.1	65.00	0.4	253.6	218.9	210.5	8.43	25.976		
4,100.0	4,098.8	4,085.4	4,071.6	5.9	5.2	65.06	0.4	265.7	229.3	220.8	8.56	26.779		
4,200.0	4,198.7	4,184.9	4,170.4	6.0	5.3	65.11	0.4	277.8	239.7	231.0	8.70	27.548		
4,300.0	4,298.6	4,284.4	4,269.1	6.1	5.4	65.16	0.4	290.0	250.1	241.2	8.84	28.284		
4,400.0	4,398.6	4,383.8	4,367.8	6.2	5.5	65.21	0.4	302.1	260.4	251.4	8.98	28.987		
4,500.0	4,498.5	4,483.3	4,466.5	6.3	5.6	65.25	0.4	314.2	270.8	261.7	9.13	29.660		
4,524.0	4,522.5	4,507.1	4,490.2	6.4	5.6	65.26	0.4	317.1	273.3	264.1	9.17	29.817		
4,600.0	4,598.5	4,582.7	4,565.2	6.4	5.7	65.27	0.4	326.3	281.4	272.1	9.28	30.317		
4,700.0	4,698.5	4,682.1	4,663.8	6.5	5.8	65.02	0.4	338.4	292.7	283.2	9.44	30.989		
4,724.0	4,722.5	4,705.9	4,687.5	6.6	5.8	103.73	0.4	341.3	295.5	286.0	9.48	31.157		
4,800.0	4,798.5	4,781.3	4,762.3	6.7	5.9	103.31	0.4	350.5	304.5	294.9	9.61	31.697		
4,900.0	4,898.5	4,880.6	4,860.9	6.8	6.0	102.80	0.4	362.6	316.4	306.6	9.77	32.385		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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 #103H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11452-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,998.5	4,979.8	4,959.4	6.9	6.1	102.33	0.4	374.7	328.3	318.3	9.93	33.048		
5,100.0	5,098.5	5,079.1	5,057.9	7.0	6.2	101.90	0.4	386.8	340.2	330.1	10.10	33.687		
5,200.0	5,198.5	5,178.3	5,156.4	7.1	6.3	101.49	0.4	398.9	352.1	341.9	10.27	34.302		
5,300.0	5,298.5	5,277.6	5,254.9	7.2	6.4	101.10	0.4	411.0	364.1	353.6	10.43	34.895		
5,400.0	5,398.5	5,376.9	5,353.4	7.3	6.5	100.75	0.4	423.1	376.1	365.4	10.60	35.468		
5,500.0	5,498.5	5,476.4	5,452.3	7.5	6.6	100.41	0.4	435.2	388.0	377.3	10.77	36.020		
5,600.0	5,598.5	5,583.0	5,558.2	7.6	6.7	100.10	0.4	447.1	399.0	388.1	10.94	36.487		
5,700.0	5,698.5	5,690.0	5,664.7	7.7	6.8	99.85	0.4	457.1	408.2	397.1	11.10	36.770		
5,800.0	5,798.5	5,797.3	5,771.7	7.8	7.0	99.66	0.4	465.1	415.6	404.3	11.27	36.875		
5,900.0	5,898.5	5,904.9	5,879.1	7.9	7.1	99.53	0.4	471.2	421.1	409.7	11.44	36.807		
6,000.0	5,998.5	6,012.7	5,986.8	8.0	7.2	99.44	0.4	475.2	424.8	413.1	11.61	36.572		
6,100.0	6,098.5	6,120.6	6,094.7	8.2	7.3	99.39	0.4	477.1	426.6	414.8	11.78	36.199		
6,200.0	6,198.5	6,224.3	6,198.5	8.3	7.4	99.39	0.4	477.4	426.8	414.9	11.90	35.873		
6,300.0	6,298.5	6,324.3	6,298.5	8.4	7.4	99.39	0.4	477.4	426.8	414.8	11.99	35.607		
6,400.0	6,398.5	6,424.3	6,398.5	8.5	7.5	99.39	0.4	477.4	426.8	414.7	12.08	35.342		
6,500.0	6,498.5	6,524.3	6,498.5	8.6	7.6	99.39	0.4	477.4	426.8	414.6	12.17	35.079		
6,600.0	6,598.5	6,624.3	6,598.5	8.8	7.7	99.39	0.4	477.4	426.8	414.5	12.26	34.816		
6,700.0	6,698.5	6,724.3	6,698.5	8.9	7.8	99.39	0.4	477.4	426.8	414.4	12.35	34.555		
6,800.0	6,798.5	6,824.3	6,798.5	9.0	7.9	99.39	0.4	477.4	426.8	414.3	12.44	34.295		
6,900.0	6,898.5	6,924.3	6,898.5	9.1	8.0	99.39	0.4	477.4	426.8	414.2	12.54	34.036		
7,000.0	6,998.5	7,024.3	6,998.5	9.2	8.1	99.39	0.4	477.4	426.8	414.1	12.63	33.779		
7,100.0	7,098.5	7,124.3	7,098.5	9.4	8.2	99.39	0.4	477.4	426.8	414.0	12.73	33.523		
7,200.0	7,198.5	7,224.3	7,198.5	9.5	8.3	99.39	0.4	477.4	426.8	413.9	12.83	33.269		
7,300.0	7,298.5	7,324.3	7,298.5	9.6	8.4	99.39	0.4	477.4	426.8	413.9	12.93	33.017		
7,400.0	7,398.5	7,424.3	7,398.5	9.7	8.4	99.39	0.4	477.4	426.8	413.8	13.02	32.766		
7,500.0	7,498.5	7,524.3	7,498.5	9.9	8.5	99.39	0.4	477.4	426.8	413.7	13.12	32.517		
7,600.0	7,598.5	7,624.3	7,598.5	10.0	8.6	99.39	0.4	477.4	426.8	413.6	13.23	32.270		
7,700.0	7,698.5	7,724.3	7,698.5	10.1	8.7	99.39	0.4	477.4	426.8	413.5	13.33	32.025		
7,800.0	7,798.5	7,824.3	7,798.5	10.2	8.8	99.39	0.4	477.4	426.8	413.3	13.43	31.782		
7,900.0	7,898.5	7,924.3	7,898.5	10.4	8.9	99.39	0.4	477.4	426.8	413.2	13.53	31.541		
8,000.0	7,998.5	8,024.3	7,998.5	10.5	9.0	99.39	0.4	477.4	426.8	413.1	13.63	31.301		
8,100.0	8,098.5	8,124.3	8,098.5	10.6	9.1	99.39	0.4	477.4	426.8	413.0	13.74	31.064		
8,200.0	8,198.5	8,224.3	8,198.5	10.7	9.2	99.39	0.4	477.4	426.8	412.9	13.84	30.829		
8,300.0	8,298.5	8,324.3	8,298.5	10.9	9.3	99.39	0.4	477.4	426.8	412.8	13.95	30.596		
8,400.0	8,398.5	8,424.3	8,398.5	11.0	9.4	99.39	0.4	477.4	426.8	412.7	14.06	30.365		
8,500.0	8,498.5	8,524.3	8,498.5	11.1	9.6	99.39	0.4	477.4	426.8	412.6	14.16	30.135		
8,600.0	8,598.5	8,624.3	8,598.5	11.2	9.7	99.39	0.4	477.4	426.8	412.5	14.27	29.909		
8,700.0	8,698.5	8,724.3	8,698.5	11.3	9.8	99.39	0.4	477.4	426.8	412.4	14.38	29.684		
8,800.0	8,798.5	8,824.3	8,798.5	11.5	9.9	99.39	0.4	477.4	426.8	412.3	14.49	29.461		
8,900.0	8,898.5	8,924.3	8,898.5	11.6	10.0	99.39	0.4	477.4	426.8	412.2	14.60	29.240		
9,000.0	8,998.5	9,024.3	8,998.5	11.7	10.1	99.39	0.4	477.4	426.8	412.1	14.71	29.022		
9,100.0	9,098.5	9,124.3	9,098.5	11.9	10.2	99.39	0.4	477.4	426.8	412.0	14.82	28.806		
9,200.0	9,198.5	9,224.3	9,198.5	12.0	10.3	99.39	0.4	477.4	426.8	411.9	14.93	28.592		
9,300.0	9,298.5	9,324.3	9,298.5	12.1	10.4	99.39	0.4	477.4	426.8	411.7	15.04	28.380		
9,400.0	9,398.5	9,424.3	9,398.5	12.2	10.5	99.39	0.4	477.4	426.8	411.6	15.15	28.170		
9,500.0	9,498.5	9,524.3	9,498.5	12.4	10.6	99.39	0.4	477.4	426.8	411.5	15.26	27.962		
9,600.0	9,598.5	9,624.3	9,598.5	12.5	10.7	99.39	0.4	477.4	426.8	411.4	15.38	27.756		
9,700.0	9,698.5	9,724.3	9,698.5	12.6	10.8	99.39	0.4	477.4	426.8	411.3	15.49	27.553		
9,800.0	9,798.5	9,824.3	9,798.5	12.7	10.9	99.39	0.4	477.4	426.8	411.2	15.60	27.351		
9,900.0	9,898.5	9,924.3	9,898.5	12.9	11.1	99.39	0.4	477.4	426.8	411.1	15.72	27.152		
10,000.0	9,998.5	10,024.3	9,998.5	13.0	11.2	99.39	0.4	477.4	426.8	410.9	15.83	26.955		
10,100.0	10,098.5	10,124.3	10,098.5	13.1	11.3	99.39	0.4	477.4	426.8	410.8	15.95	26.759		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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 #103H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11452-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	10,198.5	10,224.3	10,198.5	13.2	11.4	99.39	0.4	477.4	426.8	410.7	16.06	26.566		
10,300.0	10,298.5	10,324.3	10,298.5	13.4	11.5	99.39	0.4	477.4	426.8	410.6	16.18	26.375		
10,400.0	10,398.5	10,424.3	10,398.5	13.5	11.6	99.39	0.4	477.4	426.8	410.5	16.30	26.186		
10,500.0	10,498.5	10,524.3	10,498.5	13.6	11.7	99.39	0.4	477.4	426.8	410.4	16.41	25.999		
10,600.0	10,598.5	10,624.3	10,598.5	13.8	11.8	99.39	0.4	477.4	426.8	410.2	16.53	25.814		
10,700.0	10,698.5	10,724.3	10,698.5	13.9	12.0	99.39	0.4	477.4	426.8	410.1	16.65	25.631		
10,800.0	10,798.5	10,824.3	10,798.5	14.0	12.1	99.39	0.4	477.4	426.8	410.0	16.77	25.450		
10,900.0	10,898.5	10,924.3	10,898.5	14.1	12.2	99.39	0.4	477.4	426.8	409.9	16.89	25.271		
11,000.0	10,998.5	11,024.3	10,998.5	14.3	12.3	99.39	0.4	477.4	426.8	409.8	17.01	25.094		
11,100.0	11,098.5	11,124.3	11,098.5	14.4	12.4	99.39	0.4	477.4	426.8	409.7	17.13	24.919		
11,200.0	11,198.5	11,224.3	11,198.5	14.5	12.5	99.39	0.4	477.4	426.8	409.5	17.25	24.745		
11,259.0	11,257.5	11,283.4	11,257.5	14.6	12.6	99.39	0.4	477.4	426.8	409.5	17.30	24.665		
11,275.0	11,273.5	11,299.3	11,273.5	14.6	12.6	99.78	0.4	477.4	426.8	409.5	17.31	24.655		
11,300.0	11,298.4	11,324.3	11,298.4	14.6	12.6	99.94	0.4	477.4	427.1	409.8	17.32	24.657		
11,325.0	11,323.3	11,349.1	11,323.3	14.6	12.7	100.25	0.4	477.4	427.6	410.2	17.33	24.679		
11,350.0	11,347.9	11,373.8	11,347.9	14.6	12.7	100.69	0.4	477.4	428.3	411.0	17.33	24.722		
11,375.0	11,372.3	11,398.2	11,372.3	14.7	12.7	101.26	0.4	477.4	429.4	412.0	17.32	24.784		
11,400.0	11,396.4	11,422.3	11,396.4	14.7	12.7	101.93	0.4	477.4	430.8	413.4	17.32	24.870		
11,425.0	11,420.1	11,446.0	11,420.1	14.7	12.8	102.70	0.4	477.4	432.5	415.2	17.32	24.972		
11,450.0	11,443.4	11,474.3	11,448.4	14.8	12.8	103.73	0.9	477.4	434.6	417.3	17.33	25.082		
11,475.0	11,466.2	11,505.2	11,479.2	14.8	12.8	104.81	3.3	477.3	436.9	419.5	17.38	25.134		
11,500.0	11,488.4	11,536.9	11,510.6	14.8	12.8	105.87	7.8	477.3	439.2	421.7	17.50	25.099		
11,525.0	11,509.9	11,569.6	11,542.5	14.9	12.9	106.89	14.7	477.3	441.5	423.8	17.69	24.962		
11,550.0	11,530.8	11,603.1	11,574.8	14.9	12.9	107.86	24.0	477.2	443.8	425.8	17.96	24.708		
11,575.0	11,550.9	11,637.6	11,607.1	15.0	13.0	108.78	35.9	477.1	446.1	427.8	18.33	24.337		
11,600.0	11,570.2	11,673.0	11,639.4	15.0	13.0	109.65	50.5	477.0	448.3	429.5	18.80	23.852		
11,625.0	11,588.7	11,709.3	11,671.2	15.0	13.1	110.45	67.9	476.9	450.4	431.0	19.35	23.274		
11,650.0	11,606.2	11,746.5	11,702.4	15.1	13.1	111.18	88.1	476.8	452.3	432.3	19.99	22.627		
11,675.0	11,622.8	11,784.5	11,732.5	15.1	13.2	111.83	111.3	476.7	454.1	433.4	20.70	21.940		
11,700.0	11,638.4	11,823.2	11,761.2	15.1	13.2	112.39	137.3	476.5	455.6	434.2	21.45	21.243		
11,725.0	11,652.9	11,862.6	11,788.1	15.1	13.3	112.85	166.0	476.3	456.9	434.7	22.22	20.561		
11,750.0	11,666.4	11,902.5	11,812.8	15.2	13.3	113.20	197.3	476.1	457.9	434.9	22.99	19.919		
11,775.0	11,678.7	11,942.7	11,835.1	15.2	13.4	113.45	230.8	475.9	458.6	434.8	23.72	19.330		
11,800.0	11,689.9	11,983.3	11,854.6	15.2	13.4	113.58	266.3	475.7	458.9	434.5	24.40	18.807		
11,825.0	11,699.9	12,023.9	11,871.0	15.3	13.5	113.60	303.5	475.5	459.0	434.0	25.00	18.357		
11,850.0	11,708.7	12,064.5	11,884.2	15.3	13.5	113.50	341.9	475.2	458.7	433.2	25.51	17.982		
11,875.0	11,716.3	12,104.9	11,894.0	15.3	13.6	113.28	381.0	475.0	458.1	432.2	25.91	17.682		
11,900.0	11,722.6	12,144.9	11,900.5	15.3	13.6	112.96	420.5	474.7	457.2	431.0	26.19	17.454		
11,925.0	11,727.6	12,184.4	11,903.6	15.3	13.6	112.53	459.9	474.5	456.0	429.6	26.37	17.294		
11,950.0	11,731.3	12,215.8	11,904.0	15.3	13.6	112.16	491.2	474.3	454.6	428.3	26.36	17.249		
11,975.0	11,733.8	12,240.6	11,904.0	15.4	13.7	111.98	516.1	474.1	453.7	427.4	26.32	17.236		
12,000.0	11,734.9	12,265.6	11,904.0	15.4	13.7	111.90	541.1	474.0	453.3	426.9	26.37	17.190		
12,009.0	11,735.0	12,274.6	11,904.0	15.4	13.7	111.89	550.1	473.9	453.3	426.9	26.40	17.166		
12,100.0	11,735.0	12,365.6	11,904.0	15.4	13.7	111.89	641.1	473.3	453.3	426.4	26.85	16.883		
12,200.0	11,735.0	12,465.6	11,904.0	15.4	13.8	111.89	741.1	472.7	453.3	425.8	27.41	16.535		
12,300.0	11,735.0	12,565.6	11,904.0	15.4	13.9	111.89	841.1	472.1	453.2	425.2	28.05	16.160		
12,400.0	11,735.0	12,665.6	11,904.0	15.5	14.1	111.89	941.1	471.4	453.2	424.5	28.75	15.764		
12,500.0	11,735.0	12,765.6	11,904.0	15.5	14.3	111.89	1,041.1	470.8	453.2	423.7	29.52	15.354		
12,600.0	11,735.0	12,865.6	11,904.0	15.6	14.5	111.89	1,141.1	470.2	453.2	422.9	30.34	14.936		
12,700.0	11,735.0	12,965.6	11,904.0	15.6	14.8	111.89	1,241.1	469.5	453.2	422.0	31.22	14.516		
12,800.0	11,735.0	13,065.6	11,904.0	15.7	15.1	111.89	1,341.1	468.9	453.2	421.1	32.15	14.097		
12,900.0	11,735.0	13,165.6	11,904.0	15.8	15.5	111.89	1,441.0	468.3	453.2	420.1	33.12	13.683		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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 #103H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11452-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	11,735.0	13,265.6	11,904.0	15.9	15.9	111.90	1,541.0	467.7	453.2	419.1	34.14	13.276		
13,100.0	11,735.0	13,365.6	11,904.0	16.1	16.4	111.90	1,641.0	467.0	453.2	418.0	35.19	12.880		
13,200.0	11,735.0	13,465.6	11,904.0	16.4	17.0	111.90	1,741.0	466.4	453.2	416.9	36.27	12.494		
13,300.0	11,735.0	13,565.6	11,904.0	16.7	17.5	111.90	1,841.0	465.8	453.2	415.8	37.39	12.121		
13,400.0	11,735.0	13,665.6	11,904.0	17.2	18.1	111.90	1,941.0	465.1	453.2	414.6	38.53	11.760		
13,500.0	11,735.0	13,765.6	11,904.0	17.8	18.7	111.90	2,041.0	464.5	453.2	413.5	39.70	11.413		
13,600.0	11,735.0	13,865.6	11,904.0	18.4	19.4	111.90	2,141.0	463.9	453.2	412.3	40.90	11.080		
13,700.0	11,735.0	13,965.6	11,904.0	19.0	20.0	111.90	2,241.0	463.2	453.1	411.0	42.12	10.759		
13,800.0	11,735.0	14,065.6	11,904.0	19.7	20.7	111.90	2,341.0	462.6	453.1	409.8	43.35	10.452		
13,900.0	11,735.0	14,165.6	11,904.0	20.4	21.3	111.90	2,441.0	462.0	453.1	408.5	44.61	10.158		
14,000.0	11,735.0	14,265.6	11,904.0	21.0	22.0	111.90	2,541.0	461.4	453.1	407.2	45.88	9.876		
14,100.0	11,735.0	14,365.6	11,904.0	21.7	22.7	111.90	2,641.0	460.7	453.1	406.0	47.17	9.607		
14,200.0	11,735.0	14,465.6	11,904.0	22.4	23.3	111.90	2,741.0	460.1	453.1	404.6	48.47	9.348		
14,300.0	11,735.0	14,565.6	11,904.0	23.1	24.0	111.90	2,841.0	459.5	453.1	403.3	49.78	9.101		
14,400.0	11,735.0	14,665.6	11,904.0	23.8	24.7	111.90	2,941.0	458.8	453.1	402.0	51.11	8.865		
14,500.0	11,735.0	14,765.6	11,904.0	24.5	25.4	111.90	3,041.0	458.2	453.1	400.6	52.45	8.639		
14,600.0	11,735.0	14,865.6	11,904.0	25.2	26.1	111.90	3,141.0	457.6	453.1	399.3	53.80	8.422		
14,700.0	11,735.0	14,965.6	11,904.0	26.0	26.8	111.90	3,241.0	456.9	453.1	397.9	55.15	8.215		
14,800.0	11,735.0	15,065.6	11,904.0	26.7	27.5	111.90	3,341.0	456.3	453.1	396.6	56.52	8.016		
14,900.0	11,735.0	15,165.6	11,904.0	27.4	28.3	111.90	3,441.0	455.7	453.1	395.2	57.90	7.825		
15,000.0	11,735.0	15,265.6	11,904.0	28.1	29.0	111.90	3,541.0	455.1	453.1	393.8	59.28	7.643		
15,100.0	11,735.0	15,365.6	11,904.0	28.8	29.7	111.90	3,641.0	454.4	453.1	392.4	60.67	7.468		
15,200.0	11,735.0	15,465.6	11,904.0	29.6	30.4	111.90	3,741.0	453.8	453.0	391.0	62.07	7.300		
15,300.0	11,735.0	15,565.6	11,904.0	30.3	31.1	111.90	3,841.0	453.2	453.0	389.6	63.47	7.138		
15,400.0	11,735.0	15,665.6	11,904.0	31.0	31.9	111.90	3,941.0	452.5	453.0	388.2	64.88	6.983		
15,500.0	11,735.0	15,765.6	11,904.0	31.8	32.6	111.90	4,041.0	451.9	453.0	386.7	66.29	6.834		
15,600.0	11,735.0	15,865.6	11,904.0	32.5	33.3	111.90	4,141.0	451.3	453.0	385.3	67.71	6.691		
15,700.0	11,735.0	15,965.6	11,904.0	33.2	34.0	111.90	4,241.0	450.6	453.0	383.9	69.13	6.553		
15,800.0	11,735.0	16,065.6	11,904.0	34.0	34.8	111.90	4,341.0	450.0	453.0	382.4	70.56	6.420		
15,900.0	11,735.0	16,165.6	11,904.0	34.7	35.5	111.90	4,441.0	449.4	453.0	381.0	72.00	6.292		
16,000.0	11,735.0	16,265.6	11,904.0	35.4	36.2	111.91	4,541.0	448.8	453.0	379.6	73.43	6.169		
16,100.0	11,735.0	16,365.6	11,904.0	36.2	37.0	111.91	4,641.0	448.1	453.0	378.1	74.87	6.050		
16,200.0	11,735.0	16,465.6	11,904.0	36.9	37.7	111.91	4,741.0	447.5	453.0	376.7	76.32	5.936		
16,300.0	11,735.0	16,565.6	11,904.0	37.7	38.5	111.91	4,841.0	446.9	453.0	375.2	77.76	5.825		
16,400.0	11,735.0	16,665.6	11,904.0	38.4	39.2	111.91	4,941.0	446.2	453.0	373.8	79.21	5.718		
16,500.0	11,735.0	16,765.6	11,904.0	39.2	39.9	111.91	5,041.0	445.6	453.0	372.3	80.67	5.615		
16,600.0	11,735.0	16,865.6	11,904.0	39.9	40.7	111.91	5,141.0	445.0	453.0	370.8	82.12	5.515		
16,700.0	11,735.0	16,965.6	11,904.0	40.6	41.4	111.91	5,241.0	444.3	452.9	369.4	83.58	5.419		
16,800.0	11,735.0	17,065.6	11,904.0	41.4	42.2	111.91	5,341.0	443.7	452.9	367.9	85.04	5.326		
16,900.0	11,735.0	17,165.6	11,904.0	42.1	42.9	111.91	5,441.0	443.1	452.9	366.4	86.51	5.236		
17,000.0	11,735.0	17,265.6	11,904.0	42.9	43.6	111.91	5,541.0	442.5	452.9	365.0	87.97	5.148		
17,100.0	11,735.0	17,365.6	11,904.0	43.6	44.4	111.91	5,641.0	441.8	452.9	363.5	89.44	5.064		
17,200.0	11,735.0	17,465.6	11,904.0	44.4	45.1	111.91	5,741.0	441.2	452.9	362.0	90.91	4.982		
17,300.0	11,735.0	17,565.6	11,904.0	45.1	45.9	111.91	5,841.0	440.6	452.9	360.5	92.39	4.902		
17,400.0	11,735.0	17,665.6	11,904.0	45.9	46.6	111.91	5,941.0	439.9	452.9	359.0	93.86	4.825		
17,500.0	11,735.0	17,765.6	11,904.0	46.6	47.4	111.91	6,041.0	439.3	452.9	357.6	95.34	4.750		
17,600.0	11,735.0	17,865.6	11,904.0	47.4	48.1	111.91	6,141.0	438.7	452.9	356.1	96.82	4.678		
17,700.0	11,735.0	17,965.6	11,904.0	48.1	48.9	111.91	6,241.0	438.0	452.9	354.6	98.30	4.607		
17,800.0	11,735.0	18,065.6	11,904.0	48.9	49.6	111.91	6,341.0	437.4	452.9	353.1	99.78	4.539		
17,900.0	11,735.0	18,165.6	11,904.0	49.6	50.4	111.91	6,440.9	436.8	452.9	351.6	101.26	4.472		
18,000.0	11,735.0	18,265.6	11,904.0	50.4	51.1	111.91	6,540.9	436.2	452.9	350.1	102.74	4.408		
18,100.0	11,735.0	18,365.6	11,904.0	51.1	51.9	111.91	6,640.9	435.5	452.9	348.6	104.23	4.345		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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 #103H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11452-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,200.0	11,735.0	18,465.6	11,904.0	51.9	52.6	111.91	6,740.9	434.9	452.8	347.1	105.72	4.284	
18,300.0	11,735.0	18,565.6	11,904.0	52.6	53.4	111.91	6,840.9	434.3	452.8	345.6	107.20	4.224	
18,400.0	11,735.0	18,665.6	11,904.0	53.4	54.1	111.91	6,940.9	433.6	452.8	344.1	108.69	4.166	
18,500.0	11,735.0	18,765.6	11,904.0	54.2	54.9	111.91	7,040.9	433.0	452.8	342.6	110.18	4.110	
18,600.0	11,735.0	18,865.6	11,904.0	54.9	55.6	111.91	7,140.9	432.4	452.8	341.1	111.68	4.055	
18,700.0	11,735.0	18,965.6	11,904.0	55.7	56.4	111.91	7,240.9	431.7	452.8	339.6	113.17	4.001	
18,800.0	11,735.0	19,065.6	11,904.0	56.4	57.1	111.91	7,340.9	431.1	452.8	338.1	114.66	3.949	
18,900.0	11,735.0	19,165.6	11,904.0	57.2	57.9	111.92	7,440.9	430.5	452.8	336.6	116.16	3.898	
19,000.0	11,735.0	19,265.6	11,904.0	57.9	58.6	111.92	7,540.9	429.9	452.8	335.1	117.65	3.849	
19,100.0	11,735.0	19,365.6	11,904.0	58.7	59.4	111.92	7,640.9	429.2	452.8	333.6	119.15	3.800	
19,200.0	11,735.0	19,465.6	11,904.0	59.4	60.1	111.92	7,740.9	428.6	452.8	332.1	120.65	3.753	
19,300.0	11,735.0	19,565.6	11,904.0	60.2	60.9	111.92	7,840.9	428.0	452.8	330.6	122.14	3.707	
19,339.6	11,735.0	19,605.2	11,904.0	60.5	61.2	111.92	7,880.5	427.7	452.8	330.0	122.74	3.689 SF	
19,390.9	11,735.0	19,608.0	11,904.0	60.9	61.2	111.92	7,883.3	427.7	455.4	333.3	122.05	3.731	

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (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	0.8	0.8	3.0	3.0	3.0	-90.42	-0.2	-33.1	33.1					
100.0	100.0	100.8	100.8	3.0	3.0	3.0	-90.42	-0.2	-33.1	33.1	27.1	6.00	5.513		
200.0	200.0	200.8	200.8	3.0	3.0	3.0	-90.42	-0.2	-33.1	33.1	27.1	6.00	5.511		
300.0	300.0	300.8	300.8	3.0	3.0	3.0	-90.42	-0.2	-33.1	33.1	27.1	6.01	5.505		
400.0	400.0	400.8	400.8	3.0	3.0	3.0	-90.42	-0.2	-33.1	33.1	27.1	6.02	5.497		
500.0	500.0	500.8	500.8	3.1	3.1	3.1	-90.42	-0.2	-33.1	33.1	27.1	6.03	5.485		
600.0	600.0	600.8	600.8	3.1	3.1	3.1	-90.42	-0.2	-33.1	33.1	27.0	6.05	5.471		
700.0	700.0	700.8	700.8	3.1	3.1	3.1	-90.42	-0.2	-33.1	33.1	27.0	6.07	5.454		
800.0	800.0	800.8	800.8	3.2	3.2	3.2	-90.42	-0.2	-33.1	33.1	27.0	6.09	5.435		
900.0	900.0	900.8	900.8	3.2	3.2	3.2	-90.42	-0.2	-33.1	33.1	27.0	6.11	5.412		
1,000.0	1,000.0	1,000.8	1,000.8	3.2	3.2	3.2	-90.42	-0.2	-33.1	33.1	26.9	6.14	5.387		
1,100.0	1,100.0	1,100.8	1,100.8	3.3	3.3	3.3	-90.42	-0.2	-33.1	33.1	26.9	6.17	5.360		
1,200.0	1,200.0	1,200.8	1,200.8	3.4	3.4	3.4	-90.42	-0.2	-33.1	33.1	26.9	6.21	5.331		
1,300.0	1,300.0	1,300.8	1,300.8	3.4	3.4	3.4	-90.42	-0.2	-33.1	33.1	26.8	6.24	5.299		
1,400.0	1,400.0	1,400.8	1,400.8	3.5	3.5	3.5	-90.42	-0.2	-33.1	33.1	26.8	6.28	5.265		
1,500.0	1,500.0	1,500.8	1,500.8	3.5	3.5	3.5	-90.42	-0.2	-33.1	33.1	26.8	6.33	5.230		
1,600.0	1,600.0	1,600.8	1,600.8	3.6	3.6	3.6	-90.42	-0.2	-33.1	33.1	26.7	6.37	5.192		
1,700.0	1,700.0	1,700.8	1,700.8	3.7	3.7	3.7	-90.42	-0.2	-33.1	33.1	26.7	6.42	5.153		
1,800.0	1,800.0	1,800.8	1,800.8	3.8	3.8	3.8	-90.42	-0.2	-33.1	33.1	26.6	6.47	5.112		
1,900.0	1,900.0	1,900.8	1,900.8	3.9	3.9	3.9	-90.42	-0.2	-33.1	33.1	26.6	6.52	5.071		
1,916.4	1,916.4	1,917.2	1,917.2	3.9	3.9	3.9	-90.42	-0.2	-33.1	33.1	26.5	6.53	5.064 CC		
2,000.0	2,000.0	2,000.8	2,000.8	3.9	3.9	3.9	-90.42	-0.2	-33.1	33.1	26.5	6.58	5.027 ES		
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	4.0	-131.14	-0.1	-34.8	36.0	29.3	6.64	5.415		
2,200.0	2,199.9	2,197.9	2,197.8	4.1	4.0	4.1	-133.86	0.2	-39.9	43.5	36.8	6.71	6.480		
2,300.0	2,299.9	2,296.5	2,296.0	4.2	4.1	4.2	-135.21	0.7	-48.0	54.0	47.2	6.78	7.967		
2,400.0	2,399.8	2,395.9	2,395.0	4.2	4.1	4.2	-136.05	1.2	-56.7	65.1	58.2	6.86	9.481		
2,500.0	2,499.7	2,495.3	2,494.0	4.3	4.1	4.3	-136.65	1.7	-65.3	76.2	69.2	6.95	10.951		
2,600.0	2,599.7	2,594.7	2,593.0	4.4	4.2	4.4	-137.09	2.2	-73.9	87.2	80.2	7.05	12.374		
2,700.0	2,699.6	2,694.0	2,692.0	4.5	4.2	4.5	-137.43	2.8	-82.6	98.3	91.2	7.15	13.749		
2,800.0	2,799.6	2,793.4	2,791.0	4.6	4.3	4.6	-137.71	3.3	-91.2	109.4	102.1	7.26	15.073		
2,900.0	2,899.5	2,892.8	2,890.0	4.7	4.4	4.7	-137.93	3.8	-99.9	120.5	113.1	7.37	16.347		
3,000.0	2,999.4	2,992.2	2,989.1	4.8	4.4	4.8	-138.12	4.3	-108.5	131.6	124.1	7.49	17.570		
3,100.0	3,099.4	3,091.6	3,088.1	4.9	4.5	4.9	-138.27	4.9	-117.2	142.6	135.0	7.61	18.741		
3,200.0	3,199.3	3,191.0	3,187.1	5.0	4.5	5.0	-138.41	5.4	-125.8	153.7	146.0	7.74	19.863		
3,300.0	3,299.2	3,290.3	3,286.1	5.1	4.6	5.1	-138.52	5.9	-134.5	164.8	156.9	7.87	20.934		
3,400.0	3,399.2	3,389.7	3,385.1	5.2	4.7	5.2	-138.63	6.4	-143.1	175.9	167.9	8.01	21.958		
3,500.0	3,499.1	3,489.1	3,484.1	5.3	4.8	5.3	-138.72	7.0	-151.8	187.0	178.8	8.15	22.934		
3,600.0	3,599.1	3,588.5	3,583.1	5.4	4.8	5.4	-138.79	7.5	-160.4	198.1	189.8	8.30	23.864		
3,700.0	3,699.0	3,687.9	3,682.1	5.5	4.9	5.5	-138.87	8.0	-169.1	209.2	200.7	8.45	24.750		
3,800.0	3,798.9	3,787.3	3,781.1	5.6	5.0	5.6	-138.93	8.5	-177.7	220.3	211.7	8.61	25.594		
3,900.0	3,898.9	3,886.6	3,880.1	5.7	5.1	5.7	-138.99	9.1	-186.3	231.4	222.6	8.76	26.397		
4,000.0	3,998.8	3,986.0	3,979.1	5.8	5.2	5.8	-139.04	9.6	-195.0	242.4	233.5	8.93	27.161		
4,100.0	4,098.8	4,085.4	4,078.1	5.9	5.2	5.9	-139.09	10.1	-203.6	253.5	244.4	9.09	27.888		
4,200.0	4,198.7	4,184.8	4,177.1	6.0	5.3	6.0	-139.13	10.6	-212.3	264.6	255.4	9.26	28.579		
4,300.0	4,298.6	4,284.2	4,276.1	6.1	5.4	6.1	-139.17	11.2	-220.9	275.7	266.3	9.43	29.236		
4,400.0	4,398.6	4,383.6	4,375.1	6.2	5.5	6.2	-139.21	11.7	-229.6	286.8	277.2	9.60	29.861		
4,500.0	4,498.5	4,482.9	4,474.1	6.3	5.6	6.3	-139.24	12.2	-238.2	297.9	288.1	9.78	30.456		
4,524.0	4,522.5	4,506.8	4,497.9	6.4	5.6	6.4	-139.25	12.3	-240.3	300.6	290.7	9.82	30.594		
4,600.0	4,598.5	4,582.4	4,573.2	6.4	5.7	6.4	-139.27	12.7	-246.9	308.6	298.7	9.96	30.986		
4,700.0	4,698.5	4,681.9	4,672.3	6.5	5.8	6.5	-139.10	13.3	-255.5	318.1	307.9	10.14	31.371		
4,724.0	4,722.5	4,705.8	4,696.1	6.6	5.8	6.6	-100.22	13.4	-257.6	320.1	309.9	10.18	31.455		
4,800.0	4,798.5	4,781.5	4,771.6	6.7	5.9	6.7	-99.95	13.8	-264.2	326.6	316.3	10.29	31.740		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	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	
4,900.0	4,898.5	4,881.1	4,870.8	6.8	6.0	-99.60	14.3	-272.9	335.0	324.6	10.44	32.102		
5,000.0	4,998.5	4,980.8	4,970.1	6.9	6.1	-99.27	14.8	-281.5	343.5	333.0	10.59	32.450		
5,100.0	5,098.5	5,080.4	5,069.3	7.0	6.2	-98.96	15.4	-290.2	352.1	341.3	10.74	32.783		
5,200.0	5,198.5	5,180.0	5,168.5	7.1	6.3	-98.66	15.9	-298.9	360.6	349.7	10.89	33.102		
5,300.0	5,298.5	5,279.6	5,267.8	7.2	6.4	-98.38	16.4	-307.5	369.1	358.0	11.05	33.409		
5,400.0	5,398.5	5,379.2	5,367.0	7.3	6.5	-98.11	16.9	-316.2	377.6	366.4	11.20	33.703		
5,500.0	5,498.5	5,478.9	5,466.3	7.5	6.6	-97.85	17.5	-324.9	386.2	374.8	11.36	33.986		
5,600.0	5,598.5	5,578.5	5,565.5	7.6	6.7	-97.60	18.0	-333.5	394.7	383.2	11.52	34.258		
5,700.0	5,698.5	5,679.3	5,665.9	7.7	6.8	-97.36	18.5	-342.3	403.3	391.6	11.68	34.518		
5,800.0	5,798.5	5,786.5	5,772.8	7.8	6.9	-97.15	19.0	-350.3	410.6	398.8	11.84	34.673		
5,900.0	5,898.5	5,893.9	5,880.1	7.9	7.1	-96.99	19.4	-356.3	416.1	404.1	12.01	34.657		
6,000.0	5,998.5	6,001.6	5,987.7	8.0	7.2	-96.89	19.6	-360.3	419.8	407.6	12.18	34.476		
6,100.0	6,098.5	6,109.4	6,095.4	8.2	7.3	-96.85	19.7	-362.3	421.7	409.3	12.35	34.143		
6,200.0	6,198.5	6,213.2	6,199.3	8.3	7.4	-96.84	19.8	-362.6	421.9	409.4	12.47	33.841		
6,300.0	6,298.5	6,313.2	6,299.3	8.4	7.5	-96.84	19.8	-362.6	421.9	409.3	12.56	33.586		
6,400.0	6,398.5	6,413.2	6,399.3	8.5	7.5	-96.84	19.8	-362.6	421.9	409.2	12.66	33.333		
6,500.0	6,498.5	6,513.2	6,499.3	8.6	7.6	-96.84	19.8	-362.6	421.9	409.1	12.75	33.082		
6,600.0	6,598.5	6,613.2	6,599.3	8.8	7.7	-96.84	19.8	-362.6	421.9	409.0	12.85	32.832		
6,700.0	6,698.5	6,713.2	6,699.3	8.9	7.8	-96.84	19.8	-362.6	421.9	408.9	12.95	32.585		
6,800.0	6,798.5	6,813.2	6,799.3	9.0	7.9	-96.84	19.8	-362.6	421.9	408.8	13.05	32.338		
6,900.0	6,898.5	6,913.2	6,899.3	9.1	8.0	-96.84	19.8	-362.6	421.9	408.7	13.15	32.094		
7,000.0	6,998.5	7,013.2	6,999.3	9.2	8.1	-96.84	19.8	-362.6	421.9	408.6	13.25	31.852		
7,100.0	7,098.5	7,113.2	7,099.3	9.4	8.2	-96.84	19.8	-362.6	421.9	408.5	13.35	31.611		
7,200.0	7,198.5	7,213.2	7,199.3	9.5	8.3	-96.84	19.8	-362.6	421.9	408.4	13.45	31.373		
7,300.0	7,298.5	7,313.2	7,299.3	9.6	8.4	-96.84	19.8	-362.6	421.9	408.3	13.55	31.136		
7,400.0	7,398.5	7,413.2	7,399.3	9.7	8.5	-96.84	19.8	-362.6	421.9	408.2	13.65	30.902		
7,500.0	7,498.5	7,513.2	7,499.3	9.9	8.6	-96.84	19.8	-362.6	421.9	408.1	13.76	30.669		
7,600.0	7,598.5	7,613.2	7,599.3	10.0	8.7	-96.84	19.8	-362.6	421.9	408.0	13.86	30.438		
7,700.0	7,698.5	7,713.2	7,699.3	10.1	8.8	-96.84	19.8	-362.6	421.9	407.9	13.97	30.210		
7,800.0	7,798.5	7,813.2	7,799.3	10.2	8.9	-96.84	19.8	-362.6	421.9	407.8	14.07	29.984		
7,900.0	7,898.5	7,913.2	7,899.3	10.4	9.0	-96.84	19.8	-362.6	421.9	407.7	14.18	29.759		
8,000.0	7,998.5	8,013.2	7,999.3	10.5	9.1	-96.84	19.8	-362.6	421.9	407.6	14.28	29.537		
8,100.0	8,098.5	8,113.2	8,099.3	10.6	9.2	-96.84	19.8	-362.6	421.9	407.5	14.39	29.317		
8,200.0	8,198.5	8,213.2	8,199.3	10.7	9.3	-96.84	19.8	-362.6	421.9	407.4	14.50	29.099		
8,300.0	8,298.5	8,313.2	8,299.3	10.9	9.4	-96.84	19.8	-362.6	421.9	407.3	14.61	28.883		
8,400.0	8,398.5	8,413.2	8,399.3	11.0	9.5	-96.84	19.8	-362.6	421.9	407.2	14.72	28.669		
8,500.0	8,498.5	8,513.2	8,499.3	11.1	9.6	-96.84	19.8	-362.6	421.9	407.1	14.83	28.457		
8,600.0	8,598.5	8,613.2	8,599.3	11.2	9.7	-96.84	19.8	-362.6	421.9	406.9	14.94	28.248		
8,700.0	8,698.5	8,713.2	8,699.3	11.3	9.8	-96.84	19.8	-362.6	421.9	406.8	15.05	28.040		
8,800.0	8,798.5	8,813.2	8,799.3	11.5	9.9	-96.84	19.8	-362.6	421.9	406.7	15.16	27.835		
8,900.0	8,898.5	8,913.2	8,899.3	11.6	10.0	-96.84	19.8	-362.6	421.9	406.6	15.27	27.631		
9,000.0	8,998.5	9,013.2	8,999.3	11.7	10.1	-96.84	19.8	-362.6	421.9	406.5	15.38	27.430		
9,100.0	9,098.5	9,113.2	9,099.3	11.9	10.2	-96.84	19.8	-362.6	421.9	406.4	15.49	27.231		
9,200.0	9,198.5	9,213.2	9,199.3	12.0	10.3	-96.84	19.8	-362.6	421.9	406.3	15.61	27.034		
9,300.0	9,298.5	9,313.2	9,299.3	12.1	10.4	-96.84	19.8	-362.6	421.9	406.2	15.72	26.839		
9,400.0	9,398.5	9,413.2	9,399.3	12.2	10.5	-96.84	19.8	-362.6	421.9	406.0	15.83	26.646		
9,500.0	9,498.5	9,513.2	9,499.3	12.4	10.6	-96.84	19.8	-362.6	421.9	405.9	15.95	26.455		
9,600.0	9,598.5	9,613.2	9,599.3	12.5	10.8	-96.84	19.8	-362.6	421.9	405.8	16.06	26.266		
9,700.0	9,698.5	9,713.2	9,699.3	12.6	10.9	-96.84	19.8	-362.6	421.9	405.7	16.18	26.079		
9,800.0	9,798.5	9,813.2	9,799.3	12.7	11.0	-96.84	19.8	-362.6	421.9	405.6	16.29	25.894		
9,900.0	9,898.5	9,913.2	9,899.3	12.9	11.1	-96.84	19.8	-362.6	421.9	405.5	16.41	25.711		
10,000.0	9,998.5	10,013.2	9,999.3	13.0	11.2	-96.84	19.8	-362.6	421.9	405.4	16.53	25.530		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	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	
10,100.0	10,098.5	10,113.2	10,099.3	13.1	11.3	-96.84	19.8	-362.6	421.9	405.2	16.64	25.351		
10,200.0	10,198.5	10,213.2	10,199.3	13.2	11.4	-96.84	19.8	-362.6	421.9	405.1	16.76	25.173		
10,300.0	10,298.5	10,313.2	10,299.3	13.4	11.5	-96.84	19.8	-362.6	421.9	405.0	16.88	24.998		
10,400.0	10,398.5	10,413.2	10,399.3	13.5	11.7	-96.84	19.8	-362.6	421.9	404.9	16.99	24.825		
10,500.0	10,498.5	10,513.2	10,499.3	13.6	11.8	-96.84	19.8	-362.6	421.9	404.8	17.11	24.653		
10,600.0	10,598.5	10,613.2	10,599.3	13.8	11.9	-96.84	19.8	-362.6	421.9	404.7	17.23	24.483		
10,700.0	10,698.5	10,713.2	10,699.3	13.9	12.0	-96.84	19.8	-362.6	421.9	404.5	17.35	24.316		
10,800.0	10,798.5	10,813.2	10,799.3	14.0	12.1	-96.84	19.8	-362.6	421.9	404.4	17.47	24.150		
10,900.0	10,898.5	10,913.2	10,899.3	14.1	12.2	-96.84	19.8	-362.6	421.9	404.3	17.59	23.985		
11,000.0	10,998.5	11,013.2	10,999.3	14.3	12.3	-96.84	19.8	-362.6	421.9	404.2	17.71	23.823		
11,100.0	11,098.5	11,113.2	11,099.3	14.4	12.5	-96.84	19.8	-362.6	421.9	404.1	17.83	23.662		
11,200.0	11,198.5	11,213.2	11,199.3	14.5	12.6	-96.84	19.8	-362.6	421.9	403.9	17.95	23.503		
11,259.0	11,257.5	11,272.2	11,258.3	14.6	12.6	-96.84	19.8	-362.6	421.9	403.9	18.01	23.428		
11,275.0	11,273.5	11,288.2	11,274.3	14.6	12.7	-96.51	19.8	-362.6	421.9	403.9	18.02	23.415		
11,300.0	11,298.4	11,313.1	11,299.2	14.6	12.7	-96.69	19.8	-362.6	422.1	404.0	18.04	23.397		
11,325.0	11,323.3	11,338.0	11,324.1	14.6	12.7	-97.03	19.8	-362.6	422.4	404.4	18.07	23.381		
11,350.0	11,347.9	11,362.6	11,348.7	14.6	12.8	-97.51	19.8	-362.6	422.9	404.8	18.10	23.368		
11,375.0	11,372.3	11,387.1	11,373.1	14.7	12.8	-98.12	19.8	-362.6	423.7	405.6	18.14	23.358		
11,400.0	11,396.4	11,411.2	11,397.2	14.7	12.8	-98.86	19.8	-362.6	424.7	406.5	18.19	23.353		
11,425.0	11,420.1	11,435.5	11,421.6	14.7	12.8	-99.72	19.8	-362.6	426.0	407.8	18.24	23.357		
11,450.0	11,443.4	11,463.9	11,449.9	14.8	12.8	-100.78	20.9	-362.6	427.6	409.3	18.31	23.357		
11,475.0	11,466.2	11,493.0	11,478.8	14.8	12.9	-101.81	23.7	-362.6	429.3	410.9	18.40	23.329		
11,500.0	11,488.4	11,522.7	11,508.2	14.8	12.9	-102.82	28.5	-362.6	431.0	412.5	18.53	23.263		
11,525.0	11,509.9	11,553.2	11,537.9	14.9	12.9	-103.80	35.2	-362.7	432.8	414.1	18.70	23.149		
11,550.0	11,530.8	11,584.4	11,567.8	14.9	13.0	-104.75	44.0	-362.7	434.7	415.8	18.92	22.978		
11,575.0	11,550.9	11,616.3	11,597.8	15.0	13.0	-105.66	55.1	-362.8	436.6	417.4	19.20	22.744		
11,600.0	11,570.2	11,649.0	11,627.6	15.0	13.1	-106.53	68.5	-362.9	438.5	419.0	19.53	22.447		
11,625.0	11,588.7	11,682.5	11,667.1	15.0	13.1	-107.35	84.2	-363.0	440.4	420.4	19.93	22.090		
11,650.0	11,606.2	11,716.7	11,686.1	15.1	13.1	-108.12	102.5	-363.1	442.1	421.7	20.39	21.681		
11,675.0	11,622.8	11,751.6	11,714.2	15.1	13.2	-108.82	123.1	-363.2	443.8	422.9	20.90	21.233		
11,700.0	11,638.4	11,787.2	11,741.2	15.1	13.2	-109.46	146.3	-363.4	445.4	424.0	21.46	20.759		
11,725.0	11,652.9	11,823.4	11,766.9	15.1	13.3	-110.03	171.8	-363.5	446.8	424.8	22.04	20.277		
11,750.0	11,666.4	11,860.2	11,790.9	15.2	13.3	-110.52	199.7	-363.7	448.1	425.4	22.63	19.802		
11,775.0	11,678.7	11,897.6	11,813.0	15.2	13.4	-110.92	229.8	-363.9	449.1	425.9	23.21	19.348		
11,800.0	11,689.9	11,935.3	11,832.9	15.2	13.4	-111.24	261.8	-364.1	449.9	426.2	23.77	18.927		
11,825.0	11,699.9	11,973.3	11,850.3	15.3	13.5	-111.46	295.6	-364.3	450.5	426.2	24.29	18.548		
11,850.0	11,708.7	12,011.5	11,865.1	15.3	13.5	-111.59	330.9	-364.5	450.9	426.1	24.75	18.218		
11,875.0	11,716.3	12,049.9	11,877.0	15.3	13.6	-111.62	367.3	-364.8	450.9	425.8	25.13	17.941		
11,900.0	11,722.6	12,088.2	11,885.9	15.3	13.6	-111.55	404.6	-365.0	450.8	425.3	25.44	17.720		
11,925.0	11,727.6	12,126.4	11,891.8	15.3	13.6	-111.39	442.3	-365.3	450.3	424.7	25.65	17.555		
11,950.0	11,731.3	12,164.3	11,894.7	15.3	13.6	-111.13	480.1	-365.5	449.7	423.9	25.78	17.444		
11,975.0	11,733.8	12,195.0	11,895.0	15.4	13.7	-110.89	510.8	-365.7	448.9	423.1	25.79	17.403		
12,000.0	11,734.9	12,220.0	11,895.0	15.4	13.7	-110.80	535.8	-365.8	448.5	422.6	25.84	17.355		
12,008.9	11,735.0	12,228.9	11,895.0	15.4	13.7	-110.79	544.7	-365.9	448.4	422.6	25.88	17.330		
12,009.0	11,735.0	12,229.0	11,895.0	15.4	13.7	-110.79	544.8	-365.9	448.4	422.6	25.88	17.330		
12,100.0	11,735.0	12,320.0	11,895.0	15.4	13.7	-110.79	635.8	-366.5	448.5	422.1	26.34	17.028		
12,200.0	11,735.0	12,420.0	11,895.0	15.4	13.8	-110.79	735.8	-367.1	448.5	421.5	26.94	16.648		
12,300.0	11,735.0	12,520.0	11,895.0	15.4	13.9	-110.79	835.8	-367.7	448.5	420.9	27.61	16.242		
12,400.0	11,735.0	12,620.0	11,895.0	15.5	14.0	-110.79	935.8	-368.4	448.5	420.1	28.35	15.817		
12,500.0	11,735.0	12,720.0	11,895.0	15.5	14.2	-110.79	1,035.8	-369.0	448.5	419.3	29.16	15.381		
12,600.0	11,735.0	12,820.0	11,895.0	15.6	14.4	-110.79	1,135.8	-369.6	448.5	418.5	30.02	14.940		
12,700.0	11,735.0	12,920.0	11,895.0	15.6	14.7	-110.79	1,235.7	-370.3	448.5	417.6	30.93	14.501		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,800.0	11,735.0	13,020.0	11,895.0	15.7	15.0	-110.79	1,335.7	-370.9	448.5	416.6	31.89	14.064		
12,900.0	11,735.0	13,120.0	11,895.0	15.8	15.4	-110.79	1,435.7	-371.5	448.5	415.6	32.90	13.635		
13,000.0	11,735.0	13,220.0	11,895.0	15.9	15.8	-110.79	1,535.7	-372.2	448.5	414.6	33.94	13.216		
13,100.0	11,735.0	13,320.0	11,895.0	16.1	16.3	-110.79	1,635.7	-372.8	448.6	413.5	35.02	12.809		
13,200.0	11,735.0	13,420.0	11,895.0	16.4	16.8	-110.79	1,735.7	-373.4	448.6	412.4	36.13	12.415		
13,300.0	11,735.0	13,520.0	11,895.0	16.7	17.4	-110.79	1,835.7	-374.1	448.6	411.3	37.27	12.034		
13,400.0	11,735.0	13,620.0	11,895.0	17.2	17.9	-110.79	1,935.7	-374.7	448.6	410.1	38.44	11.669		
13,500.0	11,735.0	13,720.0	11,895.0	17.8	18.6	-110.79	2,035.7	-375.3	448.6	409.0	39.64	11.317		
13,600.0	11,735.0	13,820.0	11,895.0	18.4	19.2	-110.79	2,135.7	-376.0	448.6	407.7	40.85	10.980		
13,700.0	11,735.0	13,920.0	11,895.0	19.0	19.8	-110.79	2,235.7	-376.6	448.6	406.5	42.09	10.658		
13,800.0	11,735.0	14,020.0	11,895.0	19.7	20.5	-110.79	2,335.7	-377.2	448.6	405.3	43.35	10.349		
13,900.0	11,735.0	14,120.0	11,895.0	20.4	21.1	-110.78	2,435.7	-377.9	448.6	404.0	44.62	10.054		
14,000.0	11,735.0	14,220.0	11,895.0	21.0	21.8	-110.78	2,535.7	-378.5	448.6	402.7	45.91	9.772		
14,100.0	11,735.0	14,320.0	11,895.0	21.7	22.5	-110.78	2,635.7	-379.1	448.6	401.4	47.22	9.502		
14,200.0	11,735.0	14,420.0	11,895.0	22.4	23.1	-110.78	2,735.7	-379.8	448.7	400.1	48.54	9.244		
14,300.0	11,735.0	14,520.0	11,895.0	23.1	23.8	-110.78	2,835.7	-380.4	448.7	398.8	49.87	8.998		
14,400.0	11,735.0	14,620.0	11,895.0	23.8	24.5	-110.78	2,935.7	-381.0	448.7	397.5	51.21	8.762		
14,500.0	11,735.0	14,720.0	11,895.0	24.5	25.2	-110.78	3,035.7	-381.7	448.7	396.1	52.56	8.537		
14,600.0	11,735.0	14,820.0	11,895.0	25.2	25.9	-110.78	3,135.7	-382.3	448.7	394.8	53.92	8.322		
14,700.0	11,735.0	14,920.0	11,895.0	26.0	26.6	-110.78	3,235.7	-382.9	448.7	393.4	55.29	8.115		
14,800.0	11,735.0	15,020.0	11,895.0	26.7	27.3	-110.78	3,335.7	-383.6	448.7	392.0	56.67	7.918		
14,900.0	11,735.0	15,120.0	11,895.0	27.4	28.1	-110.78	3,435.7	-384.2	448.7	390.7	58.06	7.729		
15,000.0	11,735.0	15,220.0	11,895.0	28.1	28.8	-110.78	3,535.7	-384.8	448.7	389.3	59.45	7.548		
15,100.0	11,735.0	15,320.0	11,895.0	28.8	29.5	-110.78	3,635.7	-385.5	448.7	387.9	60.85	7.374		
15,200.0	11,735.0	15,420.0	11,895.0	29.6	30.2	-110.78	3,735.7	-386.1	448.8	386.5	62.26	7.208		
15,300.0	11,735.0	15,520.0	11,895.0	30.3	30.9	-110.78	3,835.7	-386.7	448.8	385.1	63.67	7.048		
15,400.0	11,735.0	15,620.0	11,895.0	31.0	31.7	-110.78	3,935.7	-387.4	448.8	383.7	65.09	6.895		
15,500.0	11,735.0	15,720.0	11,895.0	31.8	32.4	-110.78	4,035.7	-388.0	448.8	382.3	66.51	6.747		
15,600.0	11,735.0	15,820.0	11,895.0	32.5	33.1	-110.78	4,135.7	-388.6	448.8	380.9	67.94	6.606		
15,700.0	11,735.0	15,920.0	11,895.0	33.2	33.8	-110.78	4,235.7	-389.3	448.8	379.4	69.37	6.469		
15,800.0	11,735.0	16,020.0	11,895.0	34.0	34.6	-110.78	4,335.7	-389.9	448.8	378.0	70.81	6.338		
15,900.0	11,735.0	16,120.0	11,895.0	34.7	35.3	-110.78	4,435.7	-390.5	448.8	376.6	72.25	6.212		
16,000.0	11,735.0	16,220.0	11,895.0	35.4	36.0	-110.77	4,535.7	-391.2	448.8	375.1	73.69	6.090		
16,100.0	11,735.0	16,320.0	11,895.0	36.2	36.8	-110.77	4,635.7	-391.8	448.8	373.7	75.14	5.973		
16,200.0	11,735.0	16,420.0	11,895.0	36.9	37.5	-110.77	4,735.7	-392.4	448.9	372.3	76.59	5.860		
16,300.0	11,735.0	16,520.0	11,895.0	37.7	38.3	-110.77	4,835.7	-393.1	448.9	370.8	78.05	5.751		
16,400.0	11,735.0	16,620.0	11,895.0	38.4	39.0	-110.77	4,935.7	-393.7	448.9	369.4	79.51	5.646		
16,500.0	11,735.0	16,720.0	11,895.0	39.2	39.7	-110.77	5,035.7	-394.3	448.9	367.9	80.97	5.544		
16,600.0	11,735.0	16,820.0	11,895.0	39.9	40.5	-110.77	5,135.7	-395.0	448.9	366.5	82.43	5.446		
16,700.0	11,735.0	16,920.0	11,895.0	40.6	41.2	-110.77	5,235.7	-395.6	448.9	365.0	83.89	5.351		
16,800.0	11,735.0	17,020.0	11,895.0	41.4	42.0	-110.77	5,335.7	-396.2	448.9	363.5	85.36	5.259		
16,900.0	11,735.0	17,120.0	11,895.0	42.1	42.7	-110.77	5,435.7	-396.9	448.9	362.1	86.83	5.170		
17,000.0	11,735.0	17,220.0	11,895.0	42.9	43.4	-110.77	5,535.7	-397.5	448.9	360.6	88.30	5.084		
17,100.0	11,735.0	17,320.0	11,895.0	43.6	44.2	-110.77	5,635.7	-398.1	448.9	359.2	89.78	5.000		
17,200.0	11,735.0	17,420.0	11,895.0	44.4	44.9	-110.77	5,735.7	-398.8	448.9	357.7	91.25	4.920		
17,300.0	11,735.0	17,520.0	11,895.0	45.1	45.7	-110.77	5,835.7	-399.4	449.0	356.2	92.73	4.841		
17,400.0	11,735.0	17,620.0	11,895.0	45.9	46.4	-110.77	5,935.7	-400.0	449.0	354.8	94.21	4.765		
17,500.0	11,735.0	17,720.0	11,895.0	46.6	47.2	-110.77	6,035.7	-400.7	449.0	353.3	95.69	4.692		
17,600.0	11,735.0	17,820.0	11,895.0	47.4	47.9	-110.77	6,135.7	-401.3	449.0	351.8	97.18	4.620		
17,700.0	11,735.0	17,920.0	11,895.0	48.1	48.7	-110.77	6,235.6	-401.9	449.0	350.3	98.66	4.551		
17,800.0	11,735.0	18,020.0	11,895.0	48.9	49.4	-110.77	6,335.6	-402.6	449.0	348.9	100.15	4.483		
17,900.0	11,735.0	18,120.0	11,895.0	49.6	50.2	-110.77	6,435.6	-403.2	449.0	347.4	101.64	4.418		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #101H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11431-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,000.0	11,735.0	18,220.0	11,895.0	50.4	50.9	-110.77	6,535.6	-403.8	449.0	345.9	103.12	4.354	
18,100.0	11,735.0	18,320.0	11,895.0	51.1	51.7	-110.77	6,635.6	-404.5	449.0	344.4	104.61	4.292	
18,200.0	11,735.0	18,420.0	11,895.0	51.9	52.4	-110.76	6,735.6	-405.1	449.0	342.9	106.11	4.232	
18,300.0	11,735.0	18,520.0	11,895.0	52.6	53.2	-110.76	6,835.6	-405.7	449.1	341.5	107.60	4.173	
18,400.0	11,735.0	18,620.0	11,895.0	53.4	53.9	-110.76	6,935.6	-406.4	449.1	340.0	109.09	4.116	
18,500.0	11,735.0	18,720.0	11,895.0	54.2	54.7	-110.76	7,035.6	-407.0	449.1	338.5	110.59	4.061	
18,600.0	11,735.0	18,820.0	11,895.0	54.9	55.4	-110.76	7,135.6	-407.6	449.1	337.0	112.08	4.007	
18,700.0	11,735.0	18,920.0	11,895.0	55.7	56.2	-110.76	7,235.6	-408.3	449.1	335.5	113.58	3.954	
18,800.0	11,735.0	19,020.0	11,895.0	56.4	56.9	-110.76	7,335.6	-408.9	449.1	334.0	115.08	3.903	
18,900.0	11,735.0	19,120.0	11,895.0	57.2	57.7	-110.76	7,435.6	-409.5	449.1	332.5	116.58	3.853	
19,000.0	11,735.0	19,220.0	11,895.0	57.9	58.4	-110.76	7,535.6	-410.2	449.1	331.0	118.08	3.804	
19,100.0	11,735.0	19,320.0	11,895.0	58.7	59.2	-110.76	7,635.6	-410.8	449.1	329.6	119.58	3.756	
19,200.0	11,735.0	19,420.0	11,895.0	59.4	59.9	-110.76	7,735.6	-411.4	449.1	328.1	121.08	3.710	
19,300.0	11,735.0	19,520.0	11,895.0	60.2	60.7	-110.76	7,835.6	-412.1	449.1	326.6	122.58	3.664	
19,308.2	11,735.0	19,528.2	11,895.0	60.3	60.8	-110.76	7,843.8	-412.1	449.1	326.4	122.70	3.660	
19,390.9	11,735.0	19,609.5	11,895.0	60.9	61.4	-110.76	7,925.1	-412.6	449.2	325.2	123.92	3.625 SF	

CC - Min centre to center distance or covergent 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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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)				
5,500.0	5,498.5	5,604.9	5,589.0	7.5	7.0	105.30	-190.3	1,007.9	992.0	980.8	11.22	88.449		
5,600.0	5,598.5	5,704.4	5,687.9	7.6	7.1	105.27	-187.0	998.0	981.6	970.2	11.38	86.252		
5,700.0	5,698.5	5,803.8	5,786.8	7.7	7.2	105.23	-183.7	988.2	971.1	959.6	11.55	84.109		
5,800.0	5,798.5	5,903.3	5,885.7	7.8	7.3	105.19	-180.4	978.3	960.7	949.0	11.71	82.018		
5,900.0	5,898.5	6,002.7	5,984.6	7.9	7.4	105.16	-177.1	968.5	950.2	938.4	11.88	79.979		
6,000.0	5,998.5	6,102.2	6,083.5	8.0	7.5	105.12	-173.8	958.6	939.8	927.8	12.05	77.990		
6,100.0	6,098.5	6,201.6	6,182.4	8.2	7.7	105.08	-170.5	948.8	929.4	917.2	12.22	76.049		
6,200.0	6,198.5	6,301.1	6,281.3	8.3	7.8	105.04	-167.2	938.9	918.9	906.6	12.39	74.157		
6,300.0	6,298.5	6,400.5	6,380.2	8.4	7.9	105.00	-163.9	929.1	908.5	895.9	12.56	72.310		
6,400.0	6,398.5	6,487.3	6,466.6	8.5	8.0	104.97	-161.1	921.0	898.7	886.0	12.71	70.737		
6,500.0	6,498.5	6,573.5	6,552.6	8.6	8.1	104.94	-158.9	914.2	890.5	877.6	12.85	69.306		
6,600.0	6,598.5	6,660.0	6,638.8	8.8	8.2	104.91	-157.0	908.7	883.7	870.7	12.99	68.002		
6,700.0	6,698.5	6,746.5	6,725.2	8.9	8.3	104.89	-155.5	904.3	878.4	865.2	13.15	66.819		
6,800.0	6,798.5	6,833.2	6,811.9	9.0	8.4	104.88	-154.5	901.2	874.6	861.3	13.30	65.754		
6,900.0	6,898.5	6,920.0	6,898.6	9.1	8.5	104.87	-153.9	899.3	872.4	858.9	13.46	64.828		
7,000.0	6,998.5	7,006.9	6,985.5	9.2	8.5	104.87	-153.7	898.7	871.6	858.0	13.60	64.098		
7,100.0	7,098.5	7,106.9	7,085.5	9.4	8.6	104.87	-153.7	898.7	871.6	857.9	13.72	63.529		
7,200.0	7,198.5	7,206.9	7,185.5	9.5	8.7	104.87	-153.7	898.7	871.6	857.8	13.84	62.967		
7,300.0	7,298.5	7,306.9	7,285.5	9.6	8.8	104.87	-153.7	898.7	871.6	857.6	13.97	62.413		
7,400.0	7,398.5	7,406.9	7,385.5	9.7	9.0	104.87	-153.7	898.7	871.6	857.5	14.09	61.865		
7,500.0	7,498.5	7,506.9	7,485.5	9.9	9.1	104.87	-153.7	898.7	871.6	857.4	14.21	61.325		
7,600.0	7,598.5	7,606.9	7,585.5	10.0	9.2	104.87	-153.7	898.7	871.6	857.3	14.34	60.792		
7,700.0	7,698.5	7,706.9	7,685.5	10.1	9.3	104.87	-153.7	898.7	871.6	857.1	14.46	60.266		
7,800.0	7,798.5	7,806.9	7,785.5	10.2	9.4	104.87	-153.7	898.7	871.6	857.0	14.59	59.747		
7,900.0	7,898.5	7,906.9	7,885.5	10.4	9.5	104.87	-153.7	898.7	871.6	856.9	14.71	59.235		
8,000.0	7,998.5	8,006.9	7,985.5	10.5	9.6	104.87	-153.7	898.7	871.6	856.8	14.84	58.730		
8,100.0	8,098.5	8,106.9	8,085.5	10.6	9.7	104.87	-153.7	898.7	871.6	856.6	14.97	58.231		
8,200.0	8,198.5	8,206.9	8,185.5	10.7	9.8	104.87	-153.7	898.7	871.6	856.5	15.10	57.740		
8,300.0	8,298.5	8,306.9	8,285.5	10.9	9.9	104.87	-153.7	898.7	871.6	856.4	15.22	57.254		
8,400.0	8,398.5	8,406.9	8,385.5	11.0	10.0	104.87	-153.7	898.7	871.6	856.3	15.35	56.775		
8,500.0	8,498.5	8,506.9	8,485.5	11.1	10.1	104.87	-153.7	898.7	871.6	856.1	15.48	56.303		
8,600.0	8,598.5	8,606.9	8,585.5	11.2	10.2	104.87	-153.7	898.7	871.6	856.0	15.61	55.837		
8,700.0	8,698.5	8,706.9	8,685.5	11.3	10.3	104.87	-153.7	898.7	871.6	855.9	15.74	55.377		
8,800.0	8,798.5	8,806.9	8,785.5	11.5	10.4	104.87	-153.7	898.7	871.6	855.7	15.87	54.924		
8,900.0	8,898.5	8,906.9	8,885.5	11.6	10.6	104.87	-153.7	898.7	871.6	855.6	16.00	54.476		
9,000.0	8,998.5	9,006.9	8,985.5	11.7	10.7	104.87	-153.7	898.7	871.6	855.5	16.13	54.034		
9,100.0	9,098.5	9,106.9	9,085.5	11.9	10.8	104.87	-153.7	898.7	871.6	855.3	16.26	53.599		
9,200.0	9,198.5	9,206.9	9,185.5	12.0	10.9	104.87	-153.7	898.7	871.6	855.2	16.39	53.169		
9,300.0	9,298.5	9,306.9	9,285.5	12.1	11.0	104.87	-153.7	898.7	871.6	855.1	16.52	52.745		
9,400.0	9,398.5	9,406.9	9,385.5	12.2	11.1	104.87	-153.7	898.7	871.6	854.9	16.66	52.327		
9,500.0	9,498.5	9,506.9	9,485.5	12.4	11.2	104.87	-153.7	898.7	871.6	854.8	16.79	51.914		
9,600.0	9,598.5	9,606.9	9,585.5	12.5	11.3	104.87	-153.7	898.7	871.6	854.7	16.92	51.507		
9,700.0	9,698.5	9,706.9	9,685.5	12.6	11.5	104.87	-153.7	898.7	871.6	854.5	17.06	51.105		
9,800.0	9,798.5	9,806.9	9,785.5	12.7	11.6	104.87	-153.7	898.7	871.6	854.4	17.19	50.708		
9,900.0	9,898.5	9,906.9	9,885.5	12.9	11.7	104.87	-153.7	898.7	871.6	854.3	17.32	50.317		
10,000.0	9,998.5	10,006.9	9,985.5	13.0	11.8	104.87	-153.7	898.7	871.6	854.1	17.46	49.931		
10,100.0	10,098.5	10,106.9	10,085.5	13.1	11.9	104.87	-153.7	898.7	871.6	854.0	17.59	49.550		
10,200.0	10,198.5	10,206.9	10,185.5	13.2	12.0	104.87	-153.7	898.7	871.6	853.9	17.73	49.174		
10,300.0	10,298.5	10,306.9	10,285.5	13.4	12.2	104.87	-153.7	898.7	871.6	853.7	17.86	48.803		
10,400.0	10,398.5	10,406.9	10,385.5	13.5	12.3	104.87	-153.7	898.7	871.6	853.6	17.99	48.436		
10,500.0	10,498.5	10,506.9	10,485.5	13.6	12.4	104.87	-153.7	898.7	871.6	853.5	18.13	48.075		
10,600.0	10,598.5	10,606.9	10,585.5	13.8	12.5	104.87	-153.7	898.7	871.6	853.3	18.27	47.718		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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)				
10,700.0	10,698.5	10,706.9	10,685.5	13.9	12.6	104.87	-153.7	898.7	871.6	853.2	18.40	47.366		
10,800.0	10,798.5	10,806.9	10,785.5	14.0	12.7	104.87	-153.7	898.7	871.6	853.1	18.54	47.019		
10,900.0	10,898.5	10,906.9	10,885.5	14.1	12.9	104.87	-153.7	898.7	871.6	852.9	18.67	46.675		
11,000.0	10,998.5	11,006.9	10,985.5	14.3	13.0	104.87	-153.7	898.7	871.6	852.8	18.81	46.337		
11,100.0	11,098.5	11,106.9	11,085.5	14.4	13.1	104.87	-153.7	898.7	871.6	852.7	18.95	46.002		
11,200.0	11,198.5	11,206.9	11,185.5	14.5	13.2	104.87	-153.7	898.7	871.6	852.5	19.08	45.677		
11,259.0	11,257.5	11,265.9	11,244.5	14.6	13.2	104.87	-153.7	898.7	871.6	852.5	19.13	45.559		
11,275.0	11,273.5	11,287.4	11,266.0	14.6	13.3	105.24	-153.5	898.7	871.7	852.5	19.14	45.531		
11,300.0	11,298.4	11,335.4	11,313.9	14.6	13.3	105.20	-150.0	898.7	871.6	852.4	19.21	45.382		
11,325.0	11,323.3	11,383.2	11,360.9	14.6	13.4	105.06	-141.7	898.6	871.1	851.8	19.31	45.118		
11,350.0	11,347.9	11,430.4	11,406.3	14.6	13.4	104.81	-128.9	898.6	870.4	851.0	19.44	44.768		
11,375.0	11,372.3	11,476.7	11,449.4	14.7	13.5	104.47	-112.1	898.5	869.4	849.8	19.60	44.367		
11,400.0	11,396.4	11,521.8	11,489.7	14.7	13.5	104.05	-91.7	898.3	868.2	848.4	19.75	43.950		
11,425.0	11,420.1	11,565.6	11,526.8	14.7	13.6	103.55	-68.4	898.2	866.7	846.8	19.90	43.551		
11,450.0	11,443.4	11,608.0	11,560.4	14.8	13.7	102.99	-42.8	898.0	865.1	845.1	20.03	43.196		
11,475.0	11,466.2	11,648.8	11,590.6	14.8	13.7	102.39	-15.3	897.8	863.3	843.2	20.12	42.902		
11,500.0	11,488.4	11,688.0	11,617.3	14.8	13.8	101.74	13.4	897.7	861.5	841.3	20.19	42.678		
11,525.0	11,509.9	11,725.7	11,640.7	14.9	13.8	101.08	43.0	897.5	859.5	839.3	20.21	42.526		
11,550.0	11,530.8	11,761.9	11,660.8	14.9	13.9	100.39	73.0	897.3	857.6	837.4	20.21	42.443		
11,575.0	11,550.9	11,796.5	11,677.9	15.0	13.9	99.69	103.2	897.1	855.7	835.5	20.17	42.421		
11,600.0	11,570.2	11,829.8	11,692.3	15.0	13.9	98.97	133.2	896.9	853.8	833.7	20.11	42.451		
11,625.0	11,588.7	11,861.8	11,704.0	15.0	14.0	98.26	162.9	896.7	851.9	831.9	20.04	42.515		
11,650.0	11,606.2	11,892.6	11,713.5	15.1	14.0	97.54	192.2	896.5	850.2	830.3	19.96	42.606		
11,675.0	11,622.8	11,922.2	11,720.7	15.1	14.0	96.82	220.9	896.3	848.6	828.7	19.87	42.706		
11,700.0	11,638.4	11,950.7	11,726.1	15.1	14.0	96.10	248.9	896.2	847.1	827.3	19.79	42.803		
11,725.0	11,652.9	11,978.3	11,729.6	15.1	14.1	95.38	276.3	896.0	845.8	826.0	19.72	42.882		
11,750.0	11,666.4	12,005.0	11,731.5	15.2	14.1	94.66	302.9	895.8	844.6	824.9	19.67	42.933		
11,775.0	11,678.7	12,030.1	11,732.0	15.2	14.1	93.97	328.0	895.7	843.6	823.9	19.64	42.948		
11,800.0	11,689.9	12,052.5	11,732.0	15.2	14.1	93.39	350.4	895.5	842.7	823.1	19.64	42.904		
11,825.0	11,699.9	12,075.4	11,732.0	15.3	14.1	92.84	373.3	895.4	842.1	822.5	19.68	42.802		
11,850.0	11,708.7	12,098.8	11,732.0	15.3	14.1	92.33	396.7	895.2	841.7	822.0	19.74	42.649		
11,875.0	11,716.3	12,122.6	11,732.0	15.3	14.1	91.88	420.5	895.1	841.4	821.6	19.83	42.431		
11,900.0	11,722.6	12,146.8	11,732.0	15.3	14.1	91.48	444.7	894.9	841.2	821.3	19.94	42.181		
11,925.0	11,727.6	12,171.3	11,732.0	15.3	14.2	91.16	469.2	894.8	841.1	821.0	20.07	41.907		
11,950.0	11,731.3	12,196.0	11,732.0	15.3	14.2	90.92	493.9	894.6	841.0	820.8	20.21	41.617		
11,975.0	11,733.8	12,220.9	11,732.0	15.4	14.2	90.76	518.8	894.4	841.0	820.6	20.36	41.298		
12,000.0	11,734.9	12,245.9	11,732.0	15.4	14.2	90.69	543.8	894.3	841.0	820.5	20.53	40.969		
12,009.0	11,735.0	12,254.9	11,732.0	15.4	14.2	90.68	552.8	894.2	841.0	820.4	20.59	40.849		
12,100.0	11,735.0	12,345.9	11,732.0	15.4	14.3	90.68	643.8	893.7	841.0	819.7	21.25	39.578		
12,200.0	11,735.0	12,445.9	11,732.0	15.4	14.4	90.68	743.8	893.0	841.0	818.9	22.07	38.108		
12,300.0	11,735.0	12,545.9	11,732.0	15.4	14.5	90.68	843.8	892.4	840.9	818.0	22.96	36.625		
12,400.0	11,735.0	12,645.9	11,732.0	15.5	14.7	90.68	943.8	891.7	840.9	817.0	23.92	35.157		
12,500.0	11,735.0	12,745.9	11,732.0	15.5	14.9	90.68	1,043.8	891.1	840.9	816.0	24.94	33.724		
12,600.0	11,735.0	12,845.9	11,732.0	15.6	15.2	90.68	1,143.7	890.5	840.9	814.9	26.00	32.341		
12,700.0	11,735.0	12,945.9	11,732.0	15.6	15.5	90.68	1,243.7	889.8	840.9	813.8	27.11	31.016		
12,800.0	11,735.0	13,045.9	11,732.0	15.7	15.9	90.68	1,343.7	889.2	840.9	812.6	28.26	29.753		
12,900.0	11,735.0	13,145.9	11,732.0	15.8	16.3	90.68	1,443.7	888.6	840.9	811.4	29.45	28.556		
13,000.0	11,735.0	13,245.9	11,732.0	15.9	16.8	90.68	1,543.7	887.9	840.9	810.2	30.66	27.425		
13,100.0	11,735.0	13,345.9	11,732.0	16.1	17.3	90.68	1,643.7	887.3	840.8	808.9	31.90	26.357		
13,200.0	11,735.0	13,445.9	11,732.0	16.4	17.9	90.68	1,743.7	886.7	840.8	807.7	33.17	25.351		
13,300.0	11,735.0	13,545.9	11,732.0	16.7	18.5	90.68	1,843.7	886.0	840.8	806.4	34.45	24.403		
13,400.0	11,735.0	13,645.9	11,732.0	17.2	19.1	90.68	1,943.7	885.4	840.8	805.0	35.76	23.512		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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)				
13,500.0	11,735.0	13,745.9	11,732.0	17.8	19.7	90.68	2,043.7	884.8	840.8	803.7	37.08	22.673		
13,600.0	11,735.0	13,845.9	11,732.0	18.4	20.4	90.68	2,143.7	884.1	840.8	802.4	38.42	21.883		
13,700.0	11,735.0	13,945.9	11,732.0	19.0	21.0	90.68	2,243.7	883.5	840.8	801.0	39.77	21.139		
13,800.0	11,735.0	14,045.9	11,732.0	19.7	21.7	90.68	2,343.7	882.9	840.8	799.6	41.14	20.438		
13,900.0	11,735.0	14,145.9	11,732.0	20.4	22.4	90.68	2,443.7	882.2	840.7	798.2	42.51	19.777		
14,000.0	11,735.0	14,245.9	11,732.0	21.0	23.0	90.68	2,543.7	881.6	840.7	796.8	43.90	19.152		
14,100.0	11,735.0	14,345.9	11,732.0	21.7	23.7	90.68	2,643.7	880.9	840.7	795.4	45.29	18.562		
14,200.0	11,735.0	14,445.9	11,732.0	22.4	24.4	90.68	2,743.7	880.3	840.7	794.0	46.69	18.005		
14,300.0	11,735.0	14,545.9	11,732.0	23.1	25.1	90.68	2,843.7	879.7	840.7	792.6	48.10	17.477		
14,400.0	11,735.0	14,645.9	11,732.0	23.8	25.8	90.68	2,943.7	879.0	840.7	791.2	49.52	16.976		
14,500.0	11,735.0	14,745.9	11,732.0	24.5	26.5	90.68	3,043.7	878.4	840.7	789.7	50.94	16.502		
14,600.0	11,735.0	14,845.9	11,732.0	25.2	27.2	90.68	3,143.7	877.8	840.7	788.3	52.37	16.051		
14,700.0	11,735.0	14,945.9	11,732.0	26.0	27.9	90.68	3,243.7	877.1	840.6	786.8	53.81	15.623		
14,800.0	11,735.0	15,045.9	11,732.0	26.7	28.6	90.68	3,343.7	876.5	840.6	785.4	55.25	15.216		
14,900.0	11,735.0	15,145.9	11,732.0	27.4	29.4	90.68	3,443.7	875.9	840.6	783.9	56.69	14.828		
15,000.0	11,735.0	15,245.9	11,732.0	28.1	30.1	90.68	3,543.7	875.2	840.6	782.5	58.14	14.458		
15,100.0	11,735.0	15,345.9	11,732.0	28.8	30.8	90.68	3,643.7	874.6	840.6	781.0	59.59	14.106		
15,200.0	11,735.0	15,445.9	11,732.0	29.6	31.5	90.68	3,743.7	874.0	840.6	779.5	61.05	13.769		
15,300.0	11,735.0	15,545.9	11,732.0	30.3	32.3	90.68	3,843.7	873.3	840.6	778.1	62.51	13.448		
15,400.0	11,735.0	15,645.9	11,732.0	31.0	33.0	90.68	3,943.7	872.7	840.6	776.6	63.97	13.140		
15,500.0	11,735.0	15,745.9	11,732.0	31.8	33.7	90.68	4,043.7	872.1	840.5	775.1	65.43	12.846		
15,600.0	11,735.0	15,845.9	11,732.0	32.5	34.4	90.68	4,143.7	871.4	840.5	773.6	66.90	12.563		
15,700.0	11,735.0	15,945.9	11,732.0	33.2	35.2	90.68	4,243.7	870.8	840.5	772.1	68.37	12.293		
15,800.0	11,735.0	16,045.9	11,732.0	34.0	35.9	90.68	4,343.7	870.1	840.5	770.7	69.85	12.034		
15,900.0	11,735.0	16,145.9	11,732.0	34.7	36.6	90.68	4,443.7	869.5	840.5	769.2	71.32	11.785		
16,000.0	11,735.0	16,245.9	11,732.0	35.4	37.4	90.68	4,543.7	868.9	840.5	767.7	72.80	11.545		
16,100.0	11,735.0	16,345.9	11,732.0	36.2	38.1	90.68	4,643.7	868.2	840.5	766.2	74.28	11.315		
16,200.0	11,735.0	16,445.9	11,732.0	36.9	38.9	90.68	4,743.7	867.6	840.4	764.7	75.76	11.094		
16,300.0	11,735.0	16,545.9	11,732.0	37.7	39.6	90.68	4,843.7	867.0	840.4	763.2	77.24	10.880		
16,400.0	11,735.0	16,645.9	11,732.0	38.4	40.3	90.68	4,943.7	866.3	840.4	761.7	78.73	10.675		
16,500.0	11,735.0	16,745.9	11,732.0	39.2	41.1	90.68	5,043.7	865.7	840.4	760.2	80.21	10.477		
16,600.0	11,735.0	16,845.9	11,732.0	39.9	41.8	90.68	5,143.7	865.1	840.4	758.7	81.70	10.286		
16,700.0	11,735.0	16,945.9	11,732.0	40.6	42.6	90.68	5,243.7	864.4	840.4	757.2	83.19	10.102		
16,800.0	11,735.0	17,045.9	11,732.0	41.4	43.3	90.68	5,343.7	863.8	840.4	755.7	84.68	9.924		
16,900.0	11,735.0	17,145.9	11,732.0	42.1	44.1	90.68	5,443.7	863.2	840.4	754.2	86.17	9.752		
17,000.0	11,735.0	17,245.9	11,732.0	42.9	44.8	90.68	5,543.7	862.5	840.3	752.7	87.67	9.586		
17,100.0	11,735.0	17,345.9	11,732.0	43.6	45.5	90.68	5,643.7	861.9	840.3	751.2	89.16	9.425		
17,200.0	11,735.0	17,445.9	11,732.0	44.4	46.3	90.68	5,743.7	861.2	840.3	749.7	90.66	9.269		
17,300.0	11,735.0	17,545.9	11,732.0	45.1	47.0	90.68	5,843.7	860.6	840.3	748.2	92.15	9.119		
17,400.0	11,735.0	17,645.9	11,732.0	45.9	47.8	90.68	5,943.7	860.0	840.3	746.6	93.65	8.973		
17,500.0	11,735.0	17,745.9	11,732.0	46.6	48.5	90.68	6,043.7	859.3	840.3	745.1	95.15	8.831		
17,600.0	11,735.0	17,845.9	11,732.0	47.4	49.3	90.68	6,143.6	858.7	840.3	743.6	96.65	8.694		
17,700.0	11,735.0	17,945.9	11,732.0	48.1	50.0	90.68	6,243.6	858.1	840.3	742.1	98.15	8.561		
17,800.0	11,735.0	18,045.9	11,732.0	48.9	50.8	90.68	6,343.6	857.4	840.2	740.6	99.65	8.432		
17,900.0	11,735.0	18,145.9	11,732.0	49.6	51.5	90.68	6,443.6	856.8	840.2	739.1	101.15	8.307		
18,000.0	11,735.0	18,245.9	11,732.0	50.4	52.3	90.68	6,543.6	856.2	840.2	737.6	102.65	8.185		
18,100.0	11,735.0	18,345.9	11,732.0	51.1	53.0	90.68	6,643.6	855.5	840.2	736.1	104.15	8.067		
18,200.0	11,735.0	18,445.9	11,732.0	51.9	53.8	90.68	6,743.6	854.9	840.2	734.5	105.66	7.952		
18,300.0	11,735.0	18,545.9	11,732.0	52.6	54.5	90.68	6,843.6	854.3	840.2	733.0	107.16	7.840		
18,400.0	11,735.0	18,645.9	11,732.0	53.4	55.3	90.68	6,943.6	853.6	840.2	731.5	108.67	7.732		
18,500.0	11,735.0	18,745.9	11,732.0	54.2	56.0	90.68	7,043.6	853.0	840.2	730.0	110.17	7.626		
18,600.0	11,735.0	18,845.9	11,732.0	54.9	56.8	90.68	7,143.6	852.4	840.1	728.5	111.68	7.523		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N-S (usft)	+E-W (usft)	(usft)	(usft)	(usft)	(usft)		
18,700.0	11,735.0	18,945.9	11,732.0	55.7	57.5	90.68	7,243.6	851.7	840.1	726.9	113.18	7.423		
18,800.0	11,735.0	19,045.9	11,732.0	56.4	58.3	90.68	7,343.6	851.1	840.1	725.4	114.69	7.325		
18,900.0	11,735.0	19,145.9	11,732.0	57.2	59.0	90.68	7,443.6	850.4	840.1	723.9	116.20	7.230		
19,000.0	11,735.0	19,245.9	11,732.0	57.9	59.8	90.68	7,543.6	849.8	840.1	722.4	117.71	7.137		
19,100.0	11,735.0	19,345.9	11,732.0	58.7	60.6	90.68	7,643.6	849.2	840.1	720.9	119.22	7.047		
19,200.0	11,735.0	19,445.9	11,732.0	59.4	61.3	90.68	7,743.6	848.5	840.1	719.3	120.73	6.959		
19,300.0	11,735.0	19,545.9	11,732.0	60.2	62.1	90.68	7,843.6	847.9	840.1	717.8	122.24	6.872		
19,390.9	11,735.0	19,636.8	11,732.0	60.9	62.7	90.68	7,934.5	847.3	840.0	716.5	123.54	6.800 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - BUCK 20 FEDERAL #2H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYRODATA-NS-GYRO-MS, 8166-MWD, 9092-MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,300.0	8,298.5	11,264.1	9,231.5	10.9	41.1	88.40	75.9	266.7	965.3	926.7	38.59	25.012		
8,400.0	8,398.5	11,265.4	9,231.5	11.0	41.2	88.76	74.6	266.7	868.0	828.9	39.08	22.209		
8,500.0	8,498.5	11,266.4	9,231.5	11.1	41.2	89.05	73.5	266.7	771.4	731.7	39.65	19.457		
8,600.0	8,598.5	11,267.3	9,231.5	11.2	41.2	89.29	72.6	266.7	675.7	635.4	40.32	16.761		
8,700.0	8,698.5	11,268.0	9,231.5	11.3	41.2	89.48	71.9	266.7	581.5	540.4	41.15	14.132		
8,800.0	8,798.5	11,268.6	9,231.5	11.5	41.2	89.65	71.3	266.7	489.6	447.4	42.24	11.592		
8,900.0	8,898.5	11,269.2	9,231.5	11.6	41.2	89.80	70.7	266.7	401.7	357.9	43.72	9.187		
9,000.0	8,998.5	11,269.6	9,231.5	11.7	41.2	89.92	70.3	266.7	320.8	275.1	45.69	7.020		
9,100.0	9,098.5	11,270.0	9,231.5	11.9	41.2	90.03	69.9	266.7	253.9	206.1	47.86	5.305		
9,200.0	9,198.5	11,270.4	9,231.5	12.0	41.2	90.13	69.5	266.7	214.6	165.9	48.68	4.408		
9,242.1	9,240.6	11,270.5	9,231.5	12.0	41.2	90.17	69.4	266.7	210.4	161.9	48.54	4.335 CC, ES, SF		
9,300.0	9,298.5	11,270.7	9,231.5	12.1	41.2	90.22	69.2	266.7	218.2	169.8	48.40	4.508		
9,400.0	9,398.5	11,271.0	9,231.5	12.2	41.2	90.30	68.9	266.7	263.0	215.7	47.32	5.559		
9,500.0	9,498.5	11,271.3	9,231.5	12.4	41.2	90.37	68.7	266.7	332.8	287.2	45.63	7.293		
9,600.0	9,598.5	11,271.5	9,231.5	12.5	41.2	90.43	68.4	266.7	415.1	370.7	44.40	9.349		
9,700.0	9,698.5	11,271.7	9,231.5	12.6	41.3	90.49	68.2	266.7	503.9	460.2	43.70	11.531		
9,800.0	9,798.5	11,271.9	9,231.5	12.7	41.3	90.54	68.0	266.7	596.2	552.9	43.36	13.752		
9,900.0	9,898.5	11,272.1	9,231.5	12.9	41.3	90.59	67.8	266.7	690.7	647.5	43.24	15.974		
10,000.0	9,998.5	11,272.3	9,231.5	13.0	41.3	90.63	67.7	266.7	786.5	743.3	43.26	18.181		
10,100.0	10,098.5	11,272.4	9,231.5	13.1	41.3	90.68	67.5	266.7	883.3	839.9	43.37	20.365		
10,200.0	10,198.5	11,272.5	9,231.5	13.2	41.3	90.71	67.4	266.7	980.7	937.2	43.54	22.522		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 4400-INC-ONLY														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	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)					
0.0	0.0	0.0	0.0	3.0	3.0	-146.54	-368.6	-243.6	442.0						
100.0	100.0	88.9	88.9	3.0	3.5	-146.54	-368.6	-243.6	441.9	435.4	6.50	67.992			
200.0	200.0	188.9	188.9	3.0	4.9	-146.54	-368.6	-243.6	441.9	434.0	7.86	56.186			
300.0	300.0	288.9	288.9	3.0	6.6	-146.54	-368.6	-243.6	441.9	432.3	9.58	46.100			
400.0	400.0	388.9	388.9	3.0	8.4	-146.54	-368.6	-243.6	441.9	430.4	11.45	38.592			
500.0	500.0	488.9	488.9	3.1	10.3	-146.54	-368.6	-243.6	441.9	428.5	13.38	33.016			
600.0	600.0	588.9	588.9	3.1	12.3	-146.54	-368.6	-243.6	441.9	426.5	15.36	28.775			
700.0	700.0	688.9	688.9	3.1	14.3	-146.54	-368.6	-243.6	441.9	424.5	17.35	25.463			
800.0	800.0	788.9	788.9	3.2	16.2	-146.54	-368.6	-243.6	441.9	422.5	19.37	22.815			
900.0	900.0	888.9	888.9	3.2	18.2	-146.54	-368.6	-243.6	441.9	420.5	21.39	20.653			
1,000.0	1,000.0	988.9	988.9	3.2	20.2	-146.54	-368.6	-243.6	441.9	418.4	23.43	18.857			
1,100.0	1,100.0	1,088.9	1,088.9	3.3	22.2	-146.54	-368.6	-243.6	441.9	416.4	25.48	17.343			
1,200.0	1,200.0	1,188.9	1,188.9	3.4	24.3	-146.54	-368.6	-243.6	441.9	414.3	27.53	16.050			
1,300.0	1,300.0	1,288.9	1,288.9	3.4	26.3	-146.54	-368.6	-243.6	441.9	412.3	29.59	14.934			
1,400.0	1,400.0	1,388.9	1,388.9	3.5	28.3	-146.54	-368.6	-243.6	441.9	410.2	31.65	13.960			
1,500.0	1,500.0	1,488.9	1,488.9	3.5	30.3	-146.54	-368.6	-243.6	441.9	408.1	33.72	13.104			
1,600.0	1,600.0	1,588.9	1,588.9	3.6	32.3	-146.54	-368.6	-243.6	441.9	406.1	35.79	12.345			
1,700.0	1,700.0	1,688.9	1,688.9	3.7	34.3	-146.54	-368.6	-243.6	441.9	404.0	37.87	11.668			
1,800.0	1,800.0	1,788.9	1,788.9	3.8	36.3	-146.54	-368.6	-243.6	441.9	401.9	39.95	11.060			
1,900.0	1,900.0	1,888.9	1,888.9	3.9	38.4	-146.54	-368.6	-243.6	441.9	399.8	42.03	10.512			
2,000.0	2,000.0	1,988.9	1,988.9	3.9	40.4	-146.54	-368.6	-243.6	441.9	397.7	44.12	10.015 CC			
2,100.0	2,100.0	2,088.9	2,088.9	4.0	42.4	174.67	-368.6	-243.6	443.6	397.4	46.21	9.599 ES			
2,200.0	2,199.9	2,188.8	2,188.8	4.1	44.4	174.71	-368.6	-243.6	447.1	398.8	48.31	9.253			
2,300.0	2,299.9	2,288.8	2,288.8	4.2	46.4	174.75	-368.6	-243.6	450.5	400.1	50.42	8.937			
2,400.0	2,399.8	2,388.7	2,388.7	4.2	48.4	174.79	-368.6	-243.6	454.0	401.5	52.52	8.645			
2,500.0	2,499.7	2,488.6	2,488.6	4.3	50.5	174.83	-368.6	-243.6	457.5	402.9	54.63	8.375			
2,600.0	2,599.7	2,588.6	2,588.6	4.4	52.5	174.87	-368.6	-243.6	461.0	404.2	56.74	8.125			
2,700.0	2,699.6	2,688.5	2,688.5	4.5	54.5	174.91	-368.6	-243.6	464.4	405.6	58.85	7.892			
2,800.0	2,799.6	2,788.5	2,788.5	4.6	56.5	174.95	-368.6	-243.6	467.9	407.0	60.96	7.676			
2,900.0	2,899.5	2,888.4	2,888.4	4.7	58.5	174.99	-368.6	-243.6	471.4	408.3	63.08	7.473			
3,000.0	2,999.4	2,988.3	2,988.3	4.8	60.6	175.02	-368.6	-243.6	474.9	409.7	65.20	7.284			
3,100.0	3,099.4	3,088.3	3,088.3	4.9	62.6	175.06	-368.6	-243.6	478.4	411.0	67.32	7.106			
3,200.0	3,199.3	3,188.2	3,188.2	5.0	64.6	175.09	-368.6	-243.6	481.8	412.4	69.44	6.939			
3,300.0	3,299.2	3,288.1	3,288.1	5.1	66.6	175.13	-368.6	-243.6	485.3	413.7	71.56	6.782			
3,400.0	3,399.2	3,388.1	3,388.1	5.2	68.6	175.16	-368.6	-243.6	488.8	415.1	73.68	6.634			
3,500.0	3,499.1	3,488.0	3,488.0	5.3	70.7	175.20	-368.6	-243.6	492.3	416.5	75.81	6.494			
3,600.0	3,599.1	3,588.0	3,588.0	5.4	72.7	175.23	-368.6	-243.6	495.7	417.8	77.94	6.361			
3,700.0	3,699.0	3,687.9	3,687.9	5.5	74.7	175.27	-368.6	-243.6	499.2	419.2	80.06	6.235			
3,800.0	3,798.9	3,787.8	3,787.8	5.6	76.7	175.30	-368.6	-243.6	502.7	420.5	82.19	6.116			
3,900.0	3,898.9	3,887.8	3,887.8	5.7	78.7	175.33	-368.6	-243.6	506.2	421.9	84.32	6.003			
4,000.0	3,998.8	3,987.7	3,987.7	5.8	80.8	175.36	-368.6	-243.6	509.7	423.2	86.45	5.895			
4,100.0	4,098.8	4,087.7	4,087.7	5.9	82.8	175.39	-368.6	-243.6	513.1	424.6	88.58	5.793			
4,200.0	4,198.7	4,187.6	4,187.6	6.0	84.8	175.43	-368.6	-243.6	516.6	425.9	90.72	5.695			
4,300.0	4,298.6	4,287.5	4,287.5	6.1	86.8	175.46	-368.6	-243.6	520.1	427.2	92.85	5.601			
4,400.0	4,398.6	4,387.5	4,387.5	6.2	88.9	175.49	-368.6	-243.6	523.6	428.6	94.98	5.512 SF			
4,500.0	4,498.5	4,487.4	4,487.4	6.3	90.9	175.52	-368.6	-243.6	527.1	430.0	97.10	5.427			
4,524.0	4,522.5	4,490.0	4,490.0	6.4	89.1	175.49	-368.6	-243.6	539.9	446.5	93.44	5.779			
4,600.0	4,598.5	4,490.0	4,490.0	6.4	89.1	175.51	-368.6	-243.6	562.8	472.5	90.39	6.227			
4,700.0	4,698.5	4,490.0	4,490.0	6.5	89.1	175.54	-368.6	-243.6	605.0	520.0	84.98	7.119			
4,724.0	4,722.5	4,490.0	4,490.0	6.6	89.1	-145.64	-368.6	-243.6	616.9	533.3	83.55	7.384			
4,800.0	4,798.5	4,490.0	4,490.0	6.7	89.1	-145.64	-368.6	-243.6	658.8	579.9	78.89	8.350			
4,900.0	4,898.5	4,490.0	4,490.0	6.8	89.1	-145.64	-368.6	-243.6	722.4	649.5	72.88	9.911			

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:	4400-INC-ONLY												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor			
5,000.0	4,998.5	4,400.0	4,398.0	6.9	89.1	-145.64	-368.6	-243.6	793.5	726.2	67.35	11.782		
5,100.0	5,098.5	4,400.0	4,398.0	7.0	89.1	-145.64	-368.6	-243.6	870.4	807.9	62.45	13.938		
5,200.0	5,198.5	4,400.0	4,398.0	7.1	89.1	-145.64	-368.6	-243.6	951.6	893.4	58.18	16.355		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	3.0	-166.91	-140.2	-32.6	143.9				
100.0	100.0	99.2	99.2	3.0	3.0	3.0	-167.01	-140.2	-32.3	143.9	137.9	6.01	23.934	
200.0	200.0	198.8	198.8	3.0	3.1	3.0	-167.13	-140.5	-32.1	144.1	138.0	6.12	23.561	
300.0	300.0	298.6	298.6	3.0	3.3	3.0	-167.26	-141.0	-31.9	144.5	138.2	6.30	22.933	
400.0	400.0	398.4	398.4	3.0	3.5	3.0	-167.39	-141.6	-31.7	145.1	138.6	6.51	22.273	
500.0	500.0	498.0	498.0	3.1	3.7	3.0	-167.53	-142.4	-31.5	145.8	139.1	6.75	21.614	
600.0	600.0	597.7	597.6	3.1	3.9	3.0	-167.68	-143.4	-31.3	146.8	139.8	7.00	20.973	
700.0	700.0	697.4	697.3	3.1	4.2	3.0	-167.93	-144.8	-30.9	148.0	140.8	7.28	20.336	
800.0	800.0	797.0	797.0	3.2	4.5	3.0	-168.16	-146.3	-30.7	149.5	141.9	7.57	19.734	
900.0	900.0	897.7	897.7	3.2	4.7	3.0	-168.38	-147.8	-30.4	150.9	143.0	7.89	19.121	
1,000.0	1,000.0	1,000.2	1,000.1	3.2	5.0	3.0	-168.71	-148.3	-29.6	151.2	143.0	8.19	18.451	
1,100.0	1,100.0	1,103.5	1,103.4	3.3	5.3	3.0	-168.85	-146.7	-28.9	149.5	141.0	8.50	17.600	
1,200.0	1,200.0	1,204.1	1,203.9	3.4	5.5	3.0	-168.69	-143.5	-28.7	146.4	137.6	8.78	16.664	
1,300.0	1,300.0	1,303.8	1,303.7	3.4	5.8	3.0	-168.41	-140.3	-28.8	143.3	134.2	9.07	15.792	
1,400.0	1,400.0	1,403.6	1,403.4	3.5	5.9	3.0	-168.06	-137.2	-29.0	140.3	131.0	9.25	15.161	
1,500.0	1,500.0	1,503.0	1,502.7	3.5	6.0	3.0	-167.62	-134.3	-29.5	137.5	128.1	9.42	14.604	
1,600.0	1,600.0	1,600.2	1,599.9	3.6	6.1	3.0	-167.12	-132.7	-30.3	136.1	126.5	9.60	14.175	
1,638.6	1,638.6	1,638.2	1,637.9	3.6	6.1	3.0	-166.92	-132.5	-30.8	136.0	126.3	9.67	14.064 CC, ES	
1,700.0	1,700.0	1,698.9	1,698.6	3.7	6.2	3.0	-166.60	-132.5	-31.6	136.2	126.4	9.78	13.922	
1,800.0	1,800.0	1,799.3	1,799.0	3.8	6.3	3.0	-166.08	-132.6	-32.8	136.6	126.6	9.98	13.683	
1,900.0	1,900.0	1,899.5	1,899.2	3.9	6.4	3.0	-165.58	-132.3	-34.0	136.6	126.4	10.20	13.391	
2,000.0	2,000.0	1,999.3	1,999.0	3.9	6.6	3.0	-165.17	-132.3	-35.0	136.8	126.4	10.44	13.103	
2,100.0	2,100.0	2,099.3	2,099.0	4.0	6.7	3.0	156.71	-132.3	-36.0	138.7	128.0	10.69	12.971	
2,200.0	2,199.9	2,199.5	2,199.2	4.1	6.9	3.0	157.58	-132.2	-36.8	142.0	131.1	10.96	12.958	
2,300.0	2,299.9	2,299.7	2,299.3	4.2	7.1	3.0	158.24	-132.0	-37.1	145.2	133.9	11.26	12.894	
2,400.0	2,399.8	2,399.5	2,399.1	4.2	7.4	3.0	158.93	-131.8	-37.6	148.3	136.8	11.57	12.824	
2,500.0	2,499.7	2,497.9	2,497.6	4.3	7.6	3.0	159.56	-131.9	-38.1	151.9	140.0	11.86	12.805	
2,600.0	2,599.7	2,595.9	2,595.5	4.4	7.8	3.0	160.08	-133.3	-38.8	156.8	144.6	12.16	12.888	
2,700.0	2,699.6	2,695.6	2,695.2	4.5	8.0	3.0	160.48	-135.6	-39.5	162.4	150.0	12.49	13.007	
2,800.0	2,799.6	2,796.0	2,795.6	4.6	8.3	3.0	160.85	-137.6	-40.1	167.9	155.0	12.83	13.082	
2,900.0	2,899.5	2,896.4	2,896.0	4.7	8.5	3.0	161.23	-139.3	-40.7	172.9	159.8	13.18	13.119	
3,000.0	2,999.4	2,997.3	2,996.9	4.8	8.8	3.0	161.60	-140.6	-41.2	177.6	164.1	13.54	13.115	
3,100.0	3,099.4	3,098.0	3,097.5	4.9	9.1	3.0	161.97	-141.4	-41.6	181.8	167.8	13.91	13.067	
3,200.0	3,199.3	3,197.8	3,197.4	5.0	9.4	3.0	162.25	-142.0	-41.6	185.7	171.4	14.29	12.999	
3,300.0	3,299.2	3,298.6	3,298.2	5.1	9.7	3.0	162.40	-142.6	-41.2	189.5	174.8	14.67	12.912	
3,400.0	3,399.2	3,399.0	3,398.6	5.2	9.9	3.0	162.45	-143.0	-40.4	192.9	177.8	15.05	12.812	
3,500.0	3,499.1	3,499.2	3,498.8	5.3	10.2	3.0	162.52	-143.2	-39.6	196.0	180.6	15.43	12.704	
3,600.0	3,599.1	3,598.9	3,598.5	5.4	10.5	3.0	162.70	-143.2	-39.2	199.3	183.5	15.81	12.603	
3,700.0	3,699.0	3,698.9	3,698.5	5.5	10.7	3.0	162.86	-143.3	-38.7	202.5	186.3	16.20	12.500	
3,800.0	3,798.9	3,798.6	3,798.2	5.6	11.0	3.0	162.84	-143.7	-37.7	205.8	189.2	16.59	12.403	
3,900.0	3,898.9	3,898.0	3,897.5	5.7	11.3	3.0	162.68	-144.4	-36.2	209.3	192.3	17.00	12.309	
4,000.0	3,998.8	3,996.8	3,996.3	5.8	11.6	3.0	162.43	-145.6	-34.6	213.2	195.8	17.41	12.244	
4,100.0	4,098.8	4,097.0	4,096.5	5.9	11.9	3.0	162.05	-147.4	-32.6	217.4	199.6	17.83	12.192	
4,200.0	4,198.7	4,199.7	4,199.2	6.0	12.3	3.0	161.87	-148.2	-31.0	221.0	202.7	18.25	12.106	
4,300.0	4,298.6	4,299.9	4,299.3	6.1	12.6	3.0	161.98	-147.7	-30.1	223.4	204.8	18.66	11.977	
4,400.0	4,398.6	4,399.5	4,398.9	6.2	12.9	3.0	162.10	-147.5	-29.4	226.3	207.2	19.06	11.869	
4,500.0	4,498.5	4,500.0	4,499.5	6.3	13.2	3.0	162.19	-147.2	-28.5	229.0	209.5	19.48	11.758	
4,524.0	4,522.5	4,524.1	4,523.6	6.4	13.2	3.0	162.22	-147.0	-28.3	229.6	210.1	19.58	11.730	
4,600.0	4,598.5	4,600.0	4,599.5	6.4	13.5	3.0	162.31	-146.6	-27.8	231.1	211.2	19.89	11.617	
4,700.0	4,698.5	4,699.7	4,699.2	6.5	13.8	3.0	162.37	-146.1	-27.4	231.7	211.4	20.32	11.403	
4,724.0	4,722.5	4,723.5	4,722.9	6.6	13.8	3.0	-158.83	-145.9	-27.3	231.6	211.2	20.42	11.342	
4,800.0	4,798.5	4,798.8	4,798.3	6.7	14.1	3.0	-158.85	-145.7	-27.2	231.3	210.6	20.74	11.153	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,898.5	4,898.9	4,898.3	6.8	14.4	-158.87	-145.5	-27.0	231.1	209.9	21.17	10.918		
5,000.0	4,998.5	4,999.0	4,998.5	6.9	14.7	-158.89	-145.3	-26.8	230.8	209.2	21.60	10.689		
5,100.0	5,098.5	5,099.2	5,098.7	7.0	15.0	-158.92	-145.0	-26.6	230.5	208.4	22.03	10.462		
5,200.0	5,198.5	5,199.2	5,198.7	7.1	15.4	-158.90	-144.7	-26.5	230.1	207.6	22.47	10.240		
5,300.0	5,298.5	5,299.5	5,298.9	7.2	15.7	-158.88	-144.2	-26.5	229.6	206.7	22.92	10.020		
5,400.0	5,398.5	5,399.6	5,399.0	7.3	16.1	-158.88	-143.7	-26.3	229.1	205.7	23.36	9.808		
5,500.0	5,498.5	5,499.5	5,498.9	7.5	16.4	-158.91	-143.2	-25.9	228.5	204.7	23.80	9.603		
5,600.0	5,598.5	5,599.1	5,598.6	7.6	16.7	-158.92	-142.9	-25.7	228.1	203.9	24.24	9.410		
5,700.0	5,698.5	5,698.9	5,698.3	7.7	17.1	-158.94	-142.6	-25.6	227.8	203.1	24.69	9.228		
5,800.0	5,798.5	5,798.9	5,798.4	7.8	17.4	-158.97	-142.4	-25.4	227.6	202.5	25.13	9.057		
5,900.0	5,898.5	5,899.4	5,898.8	7.9	17.7	-159.06	-142.2	-24.9	227.2	201.7	25.57	8.887		
6,000.0	5,998.5	5,999.2	5,998.7	8.0	18.1	-159.16	-141.9	-24.4	226.8	200.8	26.01	8.717		
6,100.0	6,098.5	6,098.9	6,098.3	8.2	18.4	-159.24	-141.7	-24.0	226.4	200.0	26.46	8.558		
6,200.0	6,198.5	6,198.7	6,198.2	8.3	18.7	-159.28	-141.6	-23.8	226.2	199.3	26.91	8.409		
6,300.0	6,298.5	6,298.5	6,297.9	8.4	19.1	-159.30	-141.5	-23.6	226.1	198.8	27.35	8.267		
6,352.5	6,350.9	6,350.8	6,350.2	8.5	19.3	-159.31	-141.5	-23.6	226.1	198.5	27.59	8.196		
6,400.0	6,398.5	6,398.2	6,397.6	8.5	19.4	-159.31	-141.5	-23.6	226.1	198.3	27.80	8.133		
6,500.0	6,498.5	6,498.1	6,497.5	8.6	19.7	-159.29	-141.6	-23.7	226.2	197.9	28.25	8.008		
6,600.0	6,598.5	6,597.8	6,597.2	8.8	20.1	-159.26	-141.7	-23.9	226.4	197.7	28.69	7.891		
6,700.0	6,698.5	6,697.2	6,696.7	8.9	20.4	-159.22	-142.0	-24.1	226.7	197.6	29.13	7.784		
6,800.0	6,798.5	6,796.6	6,796.0	9.0	20.7	-159.11	-142.4	-24.7	227.3	197.7	29.57	7.687		
6,900.0	6,898.5	6,895.5	6,894.9	9.1	21.1	-158.90	-143.0	-25.9	228.4	198.4	30.01	7.610		
7,000.0	6,998.5	6,995.0	6,994.4	9.2	21.4	-158.62	-143.9	-27.4	229.7	199.3	30.45	7.544		
7,100.0	7,098.5	7,094.8	7,094.2	9.4	21.7	-158.34	-144.9	-29.1	231.3	200.4	30.90	7.485		
7,200.0	7,198.5	7,194.5	7,193.9	9.5	22.1	-158.08	-146.0	-30.6	232.8	201.5	31.34	7.429		
7,300.0	7,298.5	7,293.6	7,293.0	9.6	22.4	-157.89	-147.4	-32.0	234.7	202.9	31.79	7.383		
7,400.0	7,398.5	7,392.9	7,392.2	9.7	22.8	-157.67	-149.1	-33.7	236.9	204.7	32.23	7.350		
7,500.0	7,498.5	7,493.0	7,492.3	9.9	23.1	-157.27	-150.6	-36.1	239.2	206.6	32.68	7.321		
7,600.0	7,598.5	7,594.1	7,593.3	10.0	23.5	-156.48	-151.3	-40.0	241.4	208.2	33.13	7.286		
7,700.0	7,698.5	7,696.4	7,695.4	10.1	23.8	-155.13	-150.3	-45.8	242.8	209.3	33.57	7.233		
7,800.0	7,798.5	7,797.7	7,796.5	10.2	24.2	-153.65	-148.2	-51.8	243.5	209.5	34.00	7.162		
7,900.0	7,898.5	7,897.3	7,895.9	10.4	24.5	-152.13	-145.8	-57.8	244.1	209.7	34.42	7.093		
8,000.0	7,998.5	7,996.9	7,995.3	10.5	24.8	-150.56	-143.3	-64.1	245.0	210.2	34.82	7.036		
8,100.0	8,098.5	8,096.0	8,094.2	10.6	25.2	-149.01	-141.0	-70.5	246.2	211.0	35.22	6.989		
8,200.0	8,198.5	8,195.2	8,193.1	10.7	25.5	-147.43	-138.8	-77.1	247.8	212.2	35.61	6.958		
8,300.0	8,298.5	8,295.1	8,292.8	10.9	25.8	-145.83	-136.6	-83.9	249.7	213.7	36.00	6.937		
8,400.0	8,398.5	8,394.9	8,392.2	11.0	26.2	-144.11	-134.0	-91.3	251.8	215.5	36.37	6.924		
8,500.0	8,498.5	8,495.2	8,492.2	11.1	26.5	-142.16	-130.5	-99.5	254.0	217.3	36.73	6.916 SF		
8,600.0	8,598.5	8,594.1	8,590.7	11.2	26.8	-140.20	-126.9	-107.8	256.4	219.4	37.07	6.917		
8,700.0	8,698.5	8,692.5	8,688.5	11.3	27.2	-138.14	-123.3	-116.9	259.7	222.3	37.39	6.945		
8,800.0	8,798.5	8,792.1	8,787.7	11.5	27.5	-136.10	-119.6	-126.1	263.3	225.6	37.71	6.983		
8,900.0	8,898.5	8,890.2	8,885.3	11.6	27.9	-134.25	-116.5	-135.1	267.5	229.5	38.02	7.035		
9,000.0	8,998.5	8,986.4	8,981.0	11.7	28.2	-132.52	-114.0	-144.4	272.8	234.5	38.33	7.117		
9,100.0	9,098.5	9,082.5	9,076.5	11.9	28.5	-130.71	-112.0	-155.2	279.8	241.2	38.63	7.243		
9,200.0	9,198.5	9,180.4	9,173.6	12.0	28.9	-128.87	-110.0	-167.0	287.8	248.9	38.92	7.395		
9,300.0	9,298.5	9,279.8	9,272.3	12.1	29.2	-127.05	-107.9	-179.4	296.4	257.2	39.22	7.558		
9,400.0	9,398.5	9,382.5	9,374.1	12.2	29.6	-125.13	-104.8	-192.2	304.7	265.2	39.51	7.712		
9,500.0	9,498.5	9,482.6	9,473.3	12.4	29.9	-123.08	-100.0	-204.6	312.3	272.6	39.78	7.852		
9,600.0	9,598.5	9,582.1	9,571.8	12.5	30.3	-121.00	-94.4	-217.4	320.3	280.3	40.03	8.002		
9,700.0	9,698.5	9,686.4	9,675.1	12.6	30.6	-118.85	-87.9	-230.3	328.0	287.7	40.29	8.141		
9,800.0	9,798.5	9,788.7	9,776.5	12.7	31.0	-116.93	-81.2	-241.4	334.6	294.0	40.55	8.251		
9,900.0	9,898.5	9,888.6	9,875.9	12.9	31.4	-115.51	-76.6	-250.8	341.0	300.1	40.85	8.347		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,000.0	9,998.5	9,990.7	9,977.7	13.0	31.8	-114.55	-73.9	-258.8	347.0	305.8	41.20	8.424		
10,100.0	10,098.5	10,091.5	10,078.2	13.1	32.1	-113.79	-72.1	-266.0	352.8	311.2	41.56	8.489		
10,200.0	10,198.5	10,195.8	10,182.3	13.2	32.5	-113.15	-70.5	-272.3	357.8	315.8	41.93	8.533		
10,300.0	10,298.5	10,300.6	10,287.0	13.4	32.9	-112.65	-69.1	-277.0	361.3	319.0	42.31	8.541		
10,400.0	10,398.5	10,402.4	10,388.7	13.5	33.2	-112.31	-68.1	-280.3	363.9	321.2	42.70	8.523		
10,500.0	10,498.5	10,503.2	10,489.4	13.6	33.6	-111.95	-66.9	-283.4	366.4	323.3	43.09	8.502		
10,600.0	10,598.5	10,604.5	10,590.7	13.8	33.9	-111.61	-65.7	-286.2	368.5	325.0	43.48	8.474		
10,700.0	10,698.5	10,707.6	10,693.8	13.9	34.3	-111.40	-65.0	-288.2	370.0	326.1	43.89	8.431		
10,800.0	10,798.5	10,809.2	10,795.4	14.0	34.6	-111.35	-65.0	-289.1	370.8	326.5	44.31	8.369		
10,900.0	10,898.5	10,909.4	10,895.6	14.1	35.0	-111.35	-65.2	-289.6	371.4	326.7	44.73	8.303		
11,000.0	10,998.5	11,009.4	10,995.6	14.3	35.3	-111.38	-65.6	-290.1	372.0	326.8	45.16	8.237		
11,100.0	11,098.5	11,108.8	11,095.0	14.4	35.7	-111.56	-66.9	-290.3	372.6	327.0	45.60	8.172		
11,200.0	11,198.5	11,205.8	11,191.9	14.5	36.0	-112.20	-71.1	-289.5	373.5	327.4	46.08	8.106		
11,259.0	11,257.5	11,259.9	11,245.8	14.6	36.2	-112.92	-75.9	-288.8	374.9	328.5	46.38	8.082		
11,275.0	11,273.5	11,274.5	11,260.2	14.6	36.3	-112.77	-77.5	-288.6	375.5	329.0	46.46	8.080		
11,300.0	11,298.4	11,297.0	11,282.6	14.6	36.4	-113.20	-80.3	-288.3	377.0	330.3	46.62	8.085		
11,325.0	11,323.3	11,318.2	11,303.6	14.6	36.4	-113.71	-83.3	-288.0	379.2	332.4	46.81	8.101		
11,350.0	11,347.9	11,338.5	11,323.6	14.6	36.5	-114.27	-86.5	-287.7	382.3	335.3	47.02	8.131		
11,375.0	11,372.3	11,357.9	11,342.8	14.7	36.6	-114.86	-89.9	-287.5	386.3	339.0	47.25	8.176		
11,400.0	11,396.4	11,376.4	11,360.9	14.7	36.7	-115.42	-93.3	-287.4	391.3	343.8	47.50	8.238		
11,425.0	11,420.1	11,394.1	11,378.2	14.7	36.7	-115.95	-96.9	-287.3	397.3	349.6	47.77	8.317		
11,450.0	11,443.4	11,410.0	11,393.8	14.8	36.8	-116.34	-100.4	-287.3	404.5	356.4	48.06	8.417		
11,475.0	11,466.2	11,424.7	11,408.0	14.8	36.8	-116.58	-103.8	-287.4	412.8	364.5	48.35	8.538		
11,500.0	11,488.4	11,438.4	11,421.3	14.8	36.9	-116.67	-107.2	-287.5	422.4	373.7	48.66	8.680		
11,525.0	11,509.9	11,451.5	11,434.0	14.9	36.9	-116.62	-110.6	-287.7	433.1	384.1	48.96	8.846		
11,550.0	11,530.8	11,464.1	11,446.1	14.9	37.0	-116.42	-114.1	-287.9	445.0	395.8	49.27	9.033		
11,575.0	11,550.9	11,475.6	11,457.1	15.0	37.0	-115.99	-117.3	-288.1	458.1	408.5	49.57	9.241		
11,600.0	11,570.2	11,486.0	11,467.0	15.0	37.0	-115.28	-120.4	-288.2	472.2	422.4	49.85	9.472		
11,625.0	11,588.7	11,494.0	11,474.7	15.0	37.1	-114.14	-122.8	-288.3	487.4	437.3	50.13	9.723		
11,650.0	11,606.2	11,494.0	11,474.7	15.1	37.1	-111.76	-122.8	-288.3	503.7	453.3	50.38	9.998		
11,675.0	11,622.8	11,494.0	11,474.7	15.1	37.1	-109.06	-122.8	-288.3	521.0	470.4	50.61	10.294		
11,700.0	11,638.4	11,513.3	11,492.9	15.1	37.2	-108.75	-129.0	-288.7	538.7	487.8	50.89	10.585		
11,725.0	11,652.9	11,517.4	11,496.8	15.1	37.2	-106.11	-130.4	-288.7	557.4	506.3	51.11	10.907		
11,750.0	11,666.4	11,520.6	11,499.8	15.2	37.2	-103.02	-131.5	-288.8	576.8	525.5	51.30	11.243		
11,775.0	11,678.7	11,522.9	11,502.0	15.2	37.2	-99.48	-132.3	-288.8	596.7	545.3	51.48	11.592		
11,800.0	11,689.9	11,524.4	11,503.4	15.2	37.2	-95.50	-132.9	-288.9	617.2	565.5	51.64	11.951		
11,825.0	11,699.9	11,525.1	11,504.0	15.3	37.2	-91.11	-133.1	-288.9	638.0	586.2	51.78	12.321		
11,850.0	11,708.7	11,525.1	11,504.0	15.3	37.2	-86.36	-133.1	-288.9	659.1	607.2	51.91	12.698		
11,875.0	11,716.3	11,524.4	11,503.4	15.3	37.2	-81.36	-132.9	-288.9	680.5	628.5	52.02	13.081		
11,900.0	11,722.6	11,523.1	11,502.1	15.3	37.2	-76.20	-132.4	-288.8	702.0	649.8	52.12	13.469		
11,925.0	11,727.6	11,521.1	11,500.3	15.3	37.2	-71.01	-131.7	-288.8	723.5	671.3	52.20	13.860		
11,950.0	11,731.3	11,518.6	11,497.9	15.3	37.2	-65.91	-130.8	-288.8	745.1	692.8	52.27	14.254		
11,975.0	11,733.8	11,515.5	11,495.0	15.4	37.2	-61.02	-129.8	-288.7	766.5	714.2	52.33	14.648		
12,000.0	11,734.9	11,494.0	11,474.7	15.4	37.1	-54.47	-122.8	-288.3	788.3	736.0	52.29	15.075		
12,009.0	11,735.0	11,494.0	11,474.7	15.4	37.1	-53.11	-122.8	-288.3	795.9	743.6	52.31	15.215		
12,100.0	11,735.0	11,494.0	11,474.7	15.4	37.1	-53.11	-122.8	-288.3	873.6	821.1	52.49	16.643		
12,200.0	11,735.0	11,481.4	11,462.7	15.4	37.0	-51.84	-119.0	-288.1	961.7	909.0	52.63	18.271		

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:	92- VES GyroFlex, 1311-MWD+IFR1+MS							Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance	Between	Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.0	0.0	3.0	3.0	179.82	-139.9	0.4	139.9					
100.0	100.0	99.5	99.5	3.0	3.0	179.86	-139.9	0.3	139.9	133.9	6.00	23.309		
122.8	122.8	122.3	122.3	3.0	3.0	179.88	-139.9	0.3	139.9	133.9	6.00	23.305		
200.0	200.0	199.4	199.4	3.0	3.0	179.98	-139.9	0.0	139.9	133.9	6.01	23.289		
300.0	300.0	299.3	299.3	3.0	3.0	-179.86	-140.0	-0.3	140.0	134.0	6.02	23.256		
400.0	400.0	399.1	399.1	3.0	3.0	-179.70	-140.2	-0.7	140.2	134.2	6.04	23.206		
500.0	500.0	498.9	498.9	3.1	3.1	-179.55	-140.6	-1.1	140.6	134.5	6.08	23.135		
600.0	600.0	598.7	598.7	3.1	3.1	-179.45	-141.1	-1.4	141.1	135.0	6.12	23.046		
700.0	700.0	698.6	698.6	3.1	3.1	-179.39	-141.7	-1.5	141.7	135.5	6.18	22.923		
800.0	800.0	798.5	798.5	3.2	3.2	-179.36	-142.4	-1.6	142.4	136.1	6.25	22.766		
900.0	900.0	898.5	898.5	3.2	3.2	-179.43	-143.1	-1.4	143.1	136.8	6.34	22.579		
1,000.0	1,000.0	998.6	998.6	3.2	3.2	-179.53	-143.8	-1.2	143.8	137.3	6.43	22.355		
1,100.0	1,100.0	1,098.7	1,098.7	3.3	3.3	-179.68	-144.3	-0.8	144.4	137.8	6.53	22.099		
1,200.0	1,200.0	1,198.8	1,198.8	3.4	3.3	-179.85	-144.9	-0.4	144.9	138.3	6.63	21.848		
1,300.0	1,300.0	1,299.1	1,299.1	3.4	3.4	-179.88	-145.3	-0.3	145.3	138.6	6.74	21.572		
1,400.0	1,400.0	1,398.8	1,398.8	3.5	3.6	-179.79	-145.7	-0.5	145.7	138.8	6.86	21.238		
1,500.0	1,500.0	1,497.9	1,497.9	3.5	3.8	-179.68	-146.4	-0.8	146.4	139.4	7.02	20.857		
1,600.0	1,600.0	1,597.7	1,597.6	3.6	4.0	-179.65	-147.6	-0.9	147.6	140.4	7.24	20.382		
1,700.0	1,700.0	1,697.5	1,697.5	3.7	4.2	-179.69	-148.9	-0.8	149.0	141.5	7.51	19.837		
1,800.0	1,800.0	1,798.1	1,798.0	3.8	4.4	-179.76	-150.3	-0.6	150.3	142.5	7.80	19.264		
1,900.0	1,900.0	1,901.2	1,901.2	3.9	4.6	-179.63	-150.1	-1.0	150.1	142.0	8.12	18.481		
2,000.0	2,000.0	2,002.4	2,002.3	3.9	4.9	-179.30	-148.4	-1.8	148.4	139.9	8.52	17.427		
2,067.6	2,067.6	2,070.0	2,069.9	4.0	5.1	142.24	-147.1	-2.2	147.8	139.0	8.75	16.891		
2,100.0	2,100.0	2,102.2	2,102.1	4.0	5.2	142.52	-146.5	-2.3	148.0	139.1	8.86	16.692		
2,200.0	2,199.9	2,201.7	2,201.6	4.1	5.4	143.56	-144.9	-2.9	149.1	139.9	9.22	16.171		
2,300.0	2,299.9	2,300.9	2,300.8	4.2	5.7	144.68	-143.6	-3.7	150.7	141.1	9.60	15.694		
2,400.0	2,399.8	2,399.9	2,399.8	4.2	5.9	145.79	-142.9	-4.7	153.0	143.0	9.98	15.321		
2,500.0	2,499.7	2,499.4	2,499.3	4.3	6.2	146.93	-142.7	-5.8	155.7	145.3	10.37	15.017		
2,600.0	2,599.7	2,599.5	2,599.4	4.4	6.5	148.03	-142.5	-6.9	158.6	147.8	10.75	14.747		
2,700.0	2,699.6	2,699.5	2,699.3	4.5	6.7	149.05	-142.2	-7.9	161.4	150.3	11.15	14.476		
2,800.0	2,799.6	2,799.3	2,799.1	4.6	7.0	149.98	-142.0	-8.8	164.3	152.8	11.55	14.228		
2,900.0	2,899.5	2,900.9	2,900.7	4.7	7.4	150.47	-141.6	-8.3	166.9	154.9	12.06	13.840		
3,000.0	2,999.4	3,002.1	3,001.9	4.8	8.0	149.96	-140.7	-4.9	168.5	155.9	12.65	13.317		
3,100.0	3,099.4	3,101.3	3,101.0	4.9	8.4	149.42	-139.7	-1.4	170.0	157.0	13.03	13.048		
3,200.0	3,199.3	3,200.5	3,200.2	5.0	8.7	149.49	-138.9	0.3	172.0	158.6	13.40	12.836		
3,300.0	3,299.2	3,301.1	3,300.8	5.1	9.0	149.63	-138.1	1.8	174.0	160.2	13.78	12.627		
3,400.0	3,399.2	3,401.4	3,401.0	5.2	9.3	149.65	-137.0	3.7	175.7	161.5	14.16	12.402		
3,500.0	3,499.1	3,500.5	3,500.1	5.3	9.6	149.77	-136.2	5.2	177.7	163.1	14.55	12.208		
3,600.0	3,599.1	3,600.2	3,599.8	5.4	9.9	149.97	-135.6	6.4	179.9	164.9	14.95	12.033		
3,700.0	3,699.0	3,699.6	3,699.3	5.5	10.2	150.17	-135.3	7.6	182.4	167.0	15.35	11.881		
3,800.0	3,798.9	3,799.3	3,798.9	5.6	10.6	150.22	-135.1	9.2	185.0	169.3	15.76	11.742		
3,900.0	3,898.9	3,898.8	3,898.4	5.7	10.9	150.64	-135.1	9.6	188.0	171.8	16.17	11.626		
4,000.0	3,998.8	3,998.0	3,997.6	5.8	11.2	151.20	-135.2	9.4	191.1	174.5	16.58	11.526		
4,100.0	4,098.8	4,096.9	4,096.5	5.9	11.5	151.54	-135.9	9.8	194.9	177.9	17.02	11.452		
4,200.0	4,198.7	4,197.5	4,197.1	6.0	11.8	151.85	-136.9	10.2	198.8	181.4	17.46	11.391		
4,300.0	4,298.6	4,298.3	4,297.9	6.1	12.1	152.60	-137.0	9.2	202.2	184.3	17.89	11.301		
4,400.0	4,398.6	4,397.9	4,397.5	6.2	12.5	153.59	-136.8	7.2	205.5	187.1	18.33	11.210		
4,500.0	4,498.5	4,498.1	4,497.7	6.3	12.8	154.59	-136.6	5.1	208.9	190.1	18.77	11.132		
4,524.0	4,522.5	4,522.5	4,522.1	6.4	12.9	154.83	-136.5	4.6	209.7	190.8	18.87	11.110		
4,600.0	4,598.5	4,602.8	4,602.4	6.4	13.1	155.35	-135.4	3.9	210.8	191.6	19.23	10.966		
4,700.0	4,698.5	4,705.8	4,705.3	6.5	13.5	155.48	-132.6	4.7	209.2	189.5	19.68	10.628		
4,724.0	4,722.5	4,730.8	4,730.3	6.6	13.6	-165.74	-131.7	5.0	208.3	188.5	19.79	10.525		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
+N/-S (usft)	+E/-W (usft)													
4,800.0	4,798.5	4,809.7	4,809.1	6.7	13.8	-165.90	-128.2	6.5	204.7	184.5	20.15	10.161		
4,900.0	4,898.5	4,911.9	4,911.1	6.8	14.2	-166.17	-122.4	8.9	198.5	177.9	20.60	9.636		
5,000.0	4,998.5	5,011.5	5,010.5	6.9	14.5	-166.46	-116.2	11.5	191.9	170.9	21.05	9.117		
5,100.0	5,098.5	5,110.7	5,109.4	7.0	14.8	-166.74	-110.3	13.8	185.6	164.1	21.50	8.632		
5,200.0	5,198.5	5,211.0	5,209.6	7.1	15.2	-167.05	-104.5	16.2	179.5	157.5	21.95	8.175		
5,300.0	5,298.5	5,313.6	5,311.8	7.2	15.5	-167.65	-97.7	19.6	172.3	149.9	22.40	7.689		
5,400.0	5,398.5	5,414.8	5,412.6	7.3	15.8	-168.56	-89.6	24.0	163.5	140.7	22.86	7.154		
5,500.0	5,498.5	5,514.4	5,511.8	7.5	16.2	-169.56	-81.4	28.4	154.6	131.2	23.31	6.632		
5,600.0	5,598.5	5,613.8	5,610.8	7.6	16.5	-170.61	-73.2	32.6	145.7	121.9	23.75	6.132		
5,700.0	5,698.5	5,711.0	5,707.6	7.7	16.9	-171.70	-65.7	36.5	137.4	113.2	24.22	5.675		
5,800.0	5,798.5	5,807.0	5,803.4	7.8	17.2	-172.70	-60.6	39.6	131.8	107.1	24.71	5.335		
5,900.0	5,898.5	5,903.5	5,899.9	7.9	17.6	-173.25	-58.1	41.1	129.0	103.8	25.19	5.123		
6,000.0	5,998.5	6,002.0	5,998.3	8.0	18.0	-173.72	-57.5	42.3	128.3	102.7	25.64	5.005		
6,100.0	6,098.5	6,101.9	6,098.2	8.2	18.3	-174.19	-57.5	43.3	128.1	102.1	26.08	4.913		
6,200.0	6,198.5	6,201.8	6,198.2	8.3	18.7	-174.64	-57.4	44.3	127.9	101.4	26.53	4.822		
6,300.0	6,298.5	6,301.7	6,298.0	8.4	19.0	-175.03	-57.4	45.2	127.8	100.9	26.99	4.737		
6,354.9	6,353.4	6,356.5	6,352.9	8.5	19.2	-175.23	-57.4	45.7	127.8	100.6	27.24	4.693		
6,400.0	6,398.5	6,401.6	6,397.9	8.5	19.3	-175.41	-57.4	46.1	127.8	100.4	27.44	4.658		
6,500.0	6,498.5	6,501.5	6,497.9	8.6	19.7	-175.77	-57.5	46.9	127.9	100.0	27.90	4.584		
6,600.0	6,598.5	6,601.5	6,597.9	8.8	20.0	-176.14	-57.7	47.7	128.0	99.6	28.36	4.512		
6,700.0	6,698.5	6,701.5	6,697.9	8.9	20.3	-176.48	-57.8	48.4	128.0	99.2	28.82	4.442		
6,800.0	6,798.5	6,801.5	6,797.9	9.0	20.7	-176.75	-57.9	49.0	128.1	98.8	29.28	4.374		
6,900.0	6,898.5	6,901.4	6,897.7	9.1	21.0	-176.90	-58.0	49.4	128.2	98.5	29.75	4.310		
7,000.0	6,998.5	7,001.2	6,997.6	9.2	21.3	-176.98	-58.3	49.5	128.5	98.2	30.22	4.251		
7,100.0	7,098.5	7,101.1	7,097.4	9.4	21.6	-177.04	-58.7	49.6	128.9	98.2	30.68	4.200		
7,200.0	7,198.5	7,201.0	7,197.3	9.5	22.0	-177.03	-59.1	49.6	129.3	98.2	31.14	4.152		
7,300.0	7,298.5	7,300.8	7,297.1	9.6	22.3	-177.00	-59.7	49.5	129.9	98.3	31.60	4.110		
7,400.0	7,398.5	7,400.7	7,397.0	9.7	22.7	-176.94	-60.4	49.3	130.6	98.5	32.06	4.072		
7,500.0	7,498.5	7,500.7	7,497.0	9.9	23.0	-176.76	-61.0	48.9	131.3	98.7	32.52	4.036		
7,600.0	7,598.5	7,600.7	7,597.1	10.0	23.3	-176.55	-61.7	48.4	132.0	99.0	32.98	4.001		
7,700.0	7,698.5	7,700.8	7,697.1	10.1	23.7	-176.23	-62.3	47.6	132.6	99.2	33.45	3.965		
7,800.0	7,798.5	7,800.6	7,796.9	10.2	24.0	-175.91	-63.0	46.8	133.3	99.4	33.91	3.931		
7,900.0	7,898.5	7,900.8	7,897.1	10.4	24.4	-175.58	-63.6	46.0	134.0	99.7	34.38	3.899		
8,000.0	7,998.5	8,000.6	7,996.9	10.5	24.7	-175.23	-64.2	45.1	134.7	99.9	34.84	3.867		
8,100.0	8,098.5	8,100.7	8,097.0	10.6	25.0	-174.84	-64.9	44.1	135.5	100.2	35.31	3.836		
8,200.0	8,198.5	8,200.6	8,196.9	10.7	25.4	-174.44	-65.6	43.1	136.2	100.4	35.78	3.807		
8,300.0	8,298.5	8,300.5	8,296.8	10.9	25.7	-174.01	-66.3	42.0	137.0	100.8	36.25	3.780		
8,400.0	8,398.5	8,400.3	8,396.6	11.0	26.1	-173.55	-67.1	40.8	137.9	101.2	36.71	3.757		
8,500.0	8,498.5	8,500.3	8,496.5	11.1	26.4	-173.08	-67.9	39.6	138.9	101.8	37.18	3.737		
8,600.0	8,598.5	8,600.3	8,596.6	11.2	26.8	-172.62	-68.8	38.3	140.0	102.3	37.65	3.718		
8,700.0	8,698.5	8,700.3	8,696.6	11.3	27.1	-172.20	-69.6	37.2	140.9	102.8	38.12	3.696		
8,800.0	8,798.5	8,799.4	8,795.6	11.5	27.5	-171.39	-70.5	35.0	142.1	103.5	38.59	3.683		
8,900.0	8,898.5	8,900.3	8,896.5	11.6	27.8	-170.49	-71.9	32.5	143.9	104.9	39.07	3.684		
9,000.0	8,998.5	9,004.3	9,000.4	11.7	28.2	-169.51	-71.2	30.2	143.6	104.0	39.59	3.627		
9,100.0	9,098.5	9,104.8	9,100.9	11.9	28.5	-168.09	-68.2	27.2	141.3	101.2	40.10	3.523		
9,200.0	9,198.5	9,203.3	9,199.2	12.0	28.8	-166.42	-65.9	23.5	139.8	99.2	40.57	3.445		
9,300.0	9,298.5	9,303.1	9,298.9	12.1	29.2	-164.81	-64.2	19.9	139.1	98.1	41.03	3.390		
9,400.0	9,398.5	9,405.7	9,401.6	12.2	29.5	-163.88	-62.2	18.1	137.6	96.1	41.51	3.316		
9,500.0	9,498.5	9,510.0	9,505.7	12.4	30.0	-164.29	-58.2	20.2	133.4	91.4	42.00	3.177		
9,600.0	9,598.5	9,610.0	9,605.5	12.5	30.4	-165.41	-53.2	24.2	127.5	85.1	42.49	3.002		
9,700.0	9,698.5	9,709.1	9,704.4	12.6	30.7	-166.44	-48.3	27.8	121.9	78.9	42.96	2.838		
9,800.0	9,798.5	9,807.9	9,803.1	12.7	31.1	-167.50	-44.2	31.0	117.1	73.7	43.43	2.696		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		92- VES GyroFlex, 1311-MWD+IFR1+MS <th colspan="4">Rule Assigned:</th> <th>Offset Well Error:</th> <td>3.0 usft</td>					Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.0	9,898.5	9,907.2	9,902.3	12.9	31.4	-168.53	-40.6	33.9	113.0	69.1	43.90	2.574		
10,000.0	9,998.5	10,005.7	10,000.8	13.0	31.8	-169.36	-37.6	36.1	109.5	65.1	44.37	2.468		
10,074.8	10,073.3	10,077.8	10,072.8	13.1	32.0	-170.30	-36.9	38.0	108.5	63.8	44.72	2.426 CC, ES		
10,100.0	10,098.5	10,101.6	10,096.6	13.1	32.1	-170.73	-37.2	38.8	108.6	63.8	44.87	2.422 SF		
10,200.0	10,198.5	10,198.0	10,192.8	13.2	32.4	-172.92	-41.2	42.5	112.1	66.7	45.44	2.468		
10,300.0	10,298.5	10,298.0	10,292.7	13.4	32.8	-174.27	-46.0	44.7	116.7	70.7	45.98	2.538		
10,400.0	10,398.5	10,398.2	10,392.7	13.5	33.1	-175.16	-50.7	46.1	121.2	74.8	46.45	2.610		
10,500.0	10,498.5	10,498.7	10,493.2	13.6	33.5	-175.78	-54.8	47.1	125.2	78.3	46.91	2.670		
10,600.0	10,598.5	10,599.3	10,593.6	13.8	33.8	-176.13	-58.5	47.6	128.9	81.5	47.38	2.720		
10,700.0	10,698.5	10,699.7	10,694.0	13.9	34.2	-176.21	-61.6	47.6	132.0	84.1	47.85	2.758		
10,800.0	10,798.5	10,800.4	10,794.7	14.0	34.5	-176.20	-64.4	47.4	134.7	86.4	48.33	2.788		
10,900.0	10,898.5	10,901.5	10,895.8	14.1	34.9	-176.14	-66.5	47.1	136.8	88.0	48.80	2.803		
11,000.0	10,998.5	11,003.0	10,997.3	14.3	35.2	-176.22	-67.6	47.2	137.9	88.6	49.28	2.797		
11,100.0	11,098.5	11,103.4	11,097.7	14.4	35.6	-176.39	-67.9	47.6	138.2	88.4	49.76	2.777		
11,200.0	11,198.5	11,202.9	11,197.2	14.5	35.9	-176.51	-68.2	47.9	138.5	88.3	50.23	2.758		
11,259.0	11,257.5	11,261.8	11,256.1	14.6	36.1	-176.56	-68.6	48.0	138.9	88.4	50.47	2.751		
11,275.0	11,273.5	11,277.7	11,272.0	14.6	36.2	-176.21	-68.7	48.0	139.2	88.7	50.53	2.756		
11,300.0	11,298.4	11,302.6	11,296.8	14.6	36.2	-176.26	-68.9	48.0	140.9	90.3	50.63	2.783		
11,325.0	11,323.3	11,327.3	11,321.6	14.6	36.3	-176.32	-69.1	48.0	143.9	93.1	50.75	2.835		
11,350.0	11,347.9	11,351.9	11,346.1	14.6	36.4	-176.40	-69.3	48.1	148.2	97.3	50.86	2.913		
11,375.0	11,372.3	11,376.2	11,370.4	14.7	36.5	-176.50	-69.5	48.1	153.8	102.8	50.98	3.016		
11,400.0	11,396.4	11,400.1	11,394.4	14.7	36.6	-176.61	-69.7	48.1	160.6	109.5	51.09	3.144		
11,425.0	11,420.1	11,423.7	11,418.0	14.7	36.7	-176.72	-70.0	48.1	168.7	117.5	51.20	3.295		
11,450.0	11,443.4	11,446.8	11,441.0	14.8	36.7	-176.83	-70.2	48.1	178.1	126.8	51.31	3.470		
11,475.0	11,466.2	11,469.3	11,463.6	14.8	36.8	-176.93	-70.5	48.1	188.6	137.2	51.42	3.668		
11,500.0	11,488.4	11,491.3	11,485.6	14.8	36.9	-177.04	-70.7	48.2	200.4	148.9	51.53	3.889		
11,525.0	11,509.9	11,512.6	11,506.9	14.9	37.0	-177.13	-71.0	48.2	213.3	161.6	51.64	4.130		
11,550.0	11,530.8	11,533.3	11,527.5	14.9	37.0	-177.21	-71.2	48.2	227.3	175.5	51.74	4.393		
11,575.0	11,550.9	11,553.1	11,547.4	15.0	37.1	-177.28	-71.4	48.2	242.4	190.5	51.84	4.675		
11,600.0	11,570.2	11,572.2	11,566.4	15.0	37.2	-177.33	-71.7	48.2	258.5	206.5	51.94	4.976		
11,625.0	11,588.7	11,590.3	11,584.6	15.0	37.2	-177.37	-71.9	48.2	275.6	223.5	52.04	5.295		
11,650.0	11,606.2	11,607.5	11,601.8	15.1	37.3	-177.39	-72.1	48.2	293.6	241.4	52.13	5.632		
11,675.0	11,622.8	11,623.8	11,618.1	15.1	37.4	-177.40	-72.4	48.2	312.5	260.3	52.22	5.984		
11,700.0	11,638.4	11,639.0	11,633.3	15.1	37.4	-177.38	-72.6	48.2	332.2	279.9	52.30	6.352		
11,725.0	11,652.9	11,653.2	11,647.4	15.1	37.5	-177.34	-72.8	48.2	352.8	300.4	52.38	6.735		
11,750.0	11,666.4	11,666.3	11,660.5	15.2	37.5	-177.27	-73.0	48.2	374.0	321.5	52.45	7.130		
11,775.0	11,678.7	11,678.2	11,672.5	15.2	37.5	-177.16	-73.1	48.2	395.9	343.4	52.52	7.538		
11,800.0	11,689.9	11,689.1	11,683.3	15.2	37.6	-177.01	-73.3	48.2	418.4	365.8	52.58	7.957		
11,825.0	11,699.9	11,698.7	11,693.0	15.3	37.6	-176.79	-73.4	48.2	441.5	388.8	52.64	8.387		
11,850.0	11,708.7	11,707.1	11,701.4	15.3	37.6	-176.47	-73.6	48.2	465.0	412.3	52.69	8.825		
11,875.0	11,716.3	11,714.3	11,708.5	15.3	37.7	-176.01	-73.7	48.2	488.9	436.2	52.73	9.272		
11,900.0	11,722.6	11,720.2	11,714.5	15.3	37.7	-175.29	-73.7	48.2	513.2	460.4	52.77	9.726		
11,925.0	11,727.6	11,724.8	11,719.1	15.3	37.7	-174.07	-73.8	48.2	537.8	485.0	52.80	10.185		
11,950.0	11,731.3	11,728.2	11,722.4	15.3	37.7	-171.65	-73.9	48.2	562.5	509.7	52.82	10.650		
11,975.0	11,733.8	11,730.2	11,724.5	15.4	37.7	-164.84	-73.9	48.2	587.4	534.6	52.84	11.118		
12,000.0	11,734.9	11,731.0	11,725.2	15.4	37.7	-105.28	-73.9	48.2	612.4	559.6	52.85	11.589		
12,009.0	11,735.0	11,730.9	11,725.2	15.4	37.7	-44.03	-73.9	48.2	621.5	568.6	52.85	11.759		
12,100.0	11,735.0	11,729.6	11,723.8	15.4	37.7	-40.16	-73.9	48.2	712.4	659.5	52.86	13.477		
12,200.0	11,735.0	11,728.1	11,722.4	15.4	37.7	-36.52	-73.9	48.2	812.4	759.5	52.88	15.362		
12,300.0	11,735.0	11,726.6	11,720.9	15.4	37.7	-33.42	-73.8	48.2	912.4	859.5	52.90	17.246		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS, 11259-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	3.0	179.82	-139.9	0.4	139.9				
100.0	100.0	99.5	99.5	3.0	3.0	3.0	179.86	-139.9	0.3	139.9	133.9	6.00	23.309	
122.8	122.8	122.3	122.3	3.0	3.0	3.0	179.88	-139.9	0.3	139.9	133.9	6.00	23.305	
200.0	200.0	199.4	199.4	3.0	3.0	3.0	179.98	-139.9	0.0	139.9	133.9	6.01	23.289	
300.0	300.0	299.3	299.3	3.0	3.0	3.0	-179.86	-140.0	-0.3	140.0	134.0	6.02	23.256	
400.0	400.0	399.1	399.1	3.0	3.0	3.0	-179.70	-140.2	-0.7	140.2	134.2	6.04	23.206	
500.0	500.0	498.9	498.9	3.1	3.1	3.1	-179.55	-140.6	-1.1	140.6	134.5	6.08	23.135	
600.0	600.0	598.7	598.7	3.1	3.1	3.1	-179.45	-141.1	-1.4	141.1	135.0	6.12	23.046	
700.0	700.0	698.6	698.6	3.1	3.1	3.1	-179.39	-141.7	-1.5	141.7	135.5	6.18	22.923	
800.0	800.0	798.5	798.5	3.2	3.2	3.2	-179.36	-142.4	-1.6	142.4	136.1	6.25	22.766	
900.0	900.0	898.5	898.5	3.2	3.2	3.2	-179.43	-143.1	-1.4	143.1	136.8	6.34	22.579	
1,000.0	1,000.0	998.6	998.6	3.2	3.2	3.2	-179.53	-143.8	-1.2	143.8	137.3	6.43	22.355	
1,100.0	1,100.0	1,098.7	1,098.7	3.3	3.3	3.3	-179.68	-144.3	-0.8	144.4	137.8	6.53	22.099	
1,200.0	1,200.0	1,198.8	1,198.8	3.4	3.3	3.4	-179.85	-144.9	-0.4	144.9	138.3	6.63	21.848	
1,300.0	1,300.0	1,299.1	1,299.1	3.4	3.4	3.4	-179.88	-145.3	-0.3	145.3	138.6	6.74	21.572	
1,400.0	1,400.0	1,398.8	1,398.8	3.5	3.6	3.5	-179.79	-145.7	-0.5	145.7	138.8	6.86	21.238	
1,500.0	1,500.0	1,497.9	1,497.9	3.5	3.8	3.5	-179.68	-146.4	-0.8	146.4	139.4	7.02	20.857	
1,600.0	1,600.0	1,597.7	1,597.6	3.6	4.0	3.6	-179.65	-147.6	-0.9	147.6	140.4	7.24	20.382	
1,700.0	1,700.0	1,697.5	1,697.5	3.7	4.2	3.7	-179.69	-148.9	-0.8	149.0	141.5	7.51	19.837	
1,800.0	1,800.0	1,798.1	1,798.0	3.8	4.4	3.8	-179.76	-150.3	-0.6	150.3	142.5	7.80	19.264	
1,900.0	1,900.0	1,901.2	1,901.2	3.9	4.6	3.9	-179.63	-150.1	-1.0	150.1	142.0	8.12	18.481	
2,000.0	2,000.0	2,002.4	2,002.3	3.9	4.9	3.9	-179.30	-148.4	-1.8	148.4	139.9	8.52	17.427	
2,067.6	2,067.6	2,070.0	2,069.9	4.0	5.1	4.0	142.24	-147.1	-2.2	147.8	139.0	8.75	16.891	
2,100.0	2,100.0	2,102.2	2,102.1	4.0	5.2	4.0	142.52	-146.5	-2.3	148.0	139.1	8.86	16.692	
2,200.0	2,199.9	2,201.7	2,201.6	4.1	5.4	4.1	143.56	-144.9	-2.9	149.1	139.9	9.22	16.171	
2,300.0	2,299.9	2,300.9	2,300.8	4.2	5.7	4.2	144.68	-143.6	-3.7	150.7	141.1	9.60	15.694	
2,400.0	2,399.8	2,399.9	2,399.8	4.2	5.9	4.2	145.79	-142.9	-4.7	153.0	143.0	9.98	15.321	
2,500.0	2,499.7	2,499.4	2,499.3	4.3	6.2	4.3	146.93	-142.7	-5.8	155.7	145.3	10.37	15.017	
2,600.0	2,599.7	2,599.5	2,599.4	4.4	6.5	4.4	148.03	-142.5	-6.9	158.6	147.8	10.75	14.747	
2,700.0	2,699.6	2,699.5	2,699.3	4.5	6.7	4.5	149.05	-142.2	-7.9	161.4	150.3	11.15	14.476	
2,800.0	2,799.6	2,799.3	2,799.1	4.6	7.0	4.6	149.98	-142.0	-8.8	164.3	152.8	11.55	14.228	
2,900.0	2,899.5	2,900.9	2,900.7	4.7	7.4	4.7	150.47	-141.6	-8.3	166.9	154.9	12.06	13.840	
3,000.0	2,999.4	3,002.1	3,001.9	4.8	8.0	4.8	149.96	-140.7	-4.9	168.5	155.9	12.65	13.317	
3,100.0	3,099.4	3,101.3	3,101.0	4.9	8.4	4.9	149.42	-139.7	-1.4	170.0	157.0	13.03	13.048	
3,200.0	3,199.3	3,200.5	3,200.2	5.0	8.7	5.0	149.49	-138.9	0.3	172.0	158.6	13.40	12.836	
3,300.0	3,299.2	3,301.1	3,300.8	5.1	9.0	5.1	149.63	-138.1	1.8	174.0	160.2	13.78	12.627	
3,400.0	3,399.2	3,401.4	3,401.0	5.2	9.3	5.2	149.65	-137.0	3.7	175.7	161.5	14.16	12.402	
3,500.0	3,499.1	3,500.5	3,500.1	5.3	9.6	5.3	149.77	-136.2	5.2	177.7	163.1	14.55	12.208	
3,600.0	3,599.1	3,600.2	3,599.8	5.4	9.9	5.4	149.97	-135.6	6.4	179.9	164.9	14.95	12.033	
3,700.0	3,699.0	3,699.6	3,699.3	5.5	10.2	5.5	150.17	-135.3	7.6	182.4	167.0	15.35	11.881	
3,800.0	3,798.9	3,799.3	3,798.9	5.6	10.6	5.6	150.22	-135.1	9.2	185.0	169.3	15.76	11.742	
3,900.0	3,898.9	3,898.8	3,898.4	5.7	10.9	5.7	150.64	-135.1	9.6	188.0	171.8	16.17	11.626	
4,000.0	3,998.8	3,998.0	3,997.6	5.8	11.2	5.8	151.20	-135.2	9.4	191.1	174.5	16.58	11.526	
4,100.0	4,098.8	4,096.9	4,096.5	5.9	11.5	5.9	151.54	-135.9	9.8	194.9	177.9	17.02	11.452	
4,200.0	4,198.7	4,197.5	4,197.1	6.0	11.8	6.0	151.85	-136.9	10.2	198.8	181.4	17.46	11.391	
4,300.0	4,298.6	4,298.3	4,297.9	6.1	12.1	6.1	152.60	-137.0	9.2	202.2	184.3	17.89	11.301	
4,400.0	4,398.6	4,397.9	4,397.5	6.2	12.5	6.2	153.59	-136.8	7.2	205.5	187.1	18.33	11.210	
4,500.0	4,498.5	4,498.1	4,497.7	6.3	12.8	6.3	154.59	-136.6	5.1	208.9	190.1	18.77	11.132	
4,524.0	4,522.5	4,522.5	4,522.1	6.4	12.9	6.4	154.83	-136.5	4.6	209.7	190.8	18.87	11.110	
4,600.0	4,598.5	4,602.8	4,602.4	6.4	13.1	6.4	155.35	-135.4	3.9	210.8	191.6	19.23	10.966	
4,700.0	4,698.5	4,705.8	4,705.3	6.5	13.5	6.5	155.48	-132.6	4.7	209.2	189.5	19.68	10.628	
4,724.0	4,722.5	4,730.8	4,730.3	6.6	13.6	6.6	-165.74	-131.7	5.0	208.3	188.5	19.79	10.525	

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS, 11259-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,798.5	4,809.7	4,809.1	6.7	13.8	-165.90		-128.2	6.5	204.7	184.5	20.15	10.161	
4,900.0	4,898.5	4,911.9	4,911.1	6.8	14.2	-166.17		-122.4	8.9	198.5	177.9	20.60	9.636	
5,000.0	4,998.5	5,011.5	5,010.5	6.9	14.5	-166.46		-116.2	11.5	191.9	170.9	21.05	9.117	
5,100.0	5,098.5	5,110.7	5,109.4	7.0	14.8	-166.74		-110.3	13.8	185.6	164.1	21.50	8.632	
5,200.0	5,198.5	5,211.0	5,209.6	7.1	15.2	-167.05		-104.5	16.2	179.5	157.5	21.95	8.175	
5,300.0	5,298.5	5,313.6	5,311.8	7.2	15.5	-167.65		-97.7	19.6	172.3	149.9	22.40	7.689	
5,400.0	5,398.5	5,414.8	5,412.6	7.3	15.8	-168.56		-89.6	24.0	163.5	140.7	22.86	7.154	
5,500.0	5,498.5	5,514.4	5,511.8	7.5	16.2	-169.56		-81.4	28.4	154.6	131.2	23.31	6.632	
5,600.0	5,598.5	5,613.8	5,610.8	7.6	16.5	-170.61		-73.2	32.6	145.7	121.9	23.75	6.132	
5,700.0	5,698.5	5,711.0	5,707.6	7.7	16.9	-171.70		-65.7	36.5	137.4	113.2	24.22	5.675	
5,800.0	5,798.5	5,807.0	5,803.4	7.8	17.2	-172.70		-60.6	39.6	131.8	107.1	24.71	5.335	
5,900.0	5,898.5	5,903.5	5,899.9	7.9	17.6	-173.25		-58.1	41.1	129.0	103.8	25.19	5.123	
6,000.0	5,998.5	6,002.0	5,998.3	8.0	18.0	-173.72		-57.5	42.3	128.3	102.7	25.64	5.005	
6,100.0	6,098.5	6,101.9	6,098.2	8.2	18.3	-174.19		-57.5	43.3	128.1	102.1	26.08	4.913	
6,200.0	6,198.5	6,201.8	6,198.2	8.3	18.7	-174.64		-57.4	44.3	127.9	101.4	26.53	4.822	
6,300.0	6,298.5	6,301.7	6,298.0	8.4	19.0	-175.03		-57.4	45.2	127.8	100.9	26.99	4.737	
6,354.9	6,353.4	6,356.5	6,352.9	8.5	19.2	-175.23		-57.4	45.7	127.8	100.6	27.24	4.693	
6,400.0	6,398.5	6,401.6	6,397.9	8.5	19.3	-175.41		-57.4	46.1	127.8	100.4	27.44	4.658	
6,500.0	6,498.5	6,501.5	6,497.9	8.6	19.7	-175.77		-57.5	46.9	127.9	100.0	27.90	4.584	
6,600.0	6,598.5	6,601.5	6,597.9	8.8	20.0	-176.14		-57.7	47.7	128.0	99.6	28.36	4.512	
6,700.0	6,698.5	6,701.5	6,697.9	8.9	20.3	-176.48		-57.8	48.4	128.0	99.2	28.82	4.442	
6,800.0	6,798.5	6,801.5	6,797.9	9.0	20.7	-176.75		-57.9	49.0	128.1	98.8	29.28	4.374	
6,900.0	6,898.5	6,901.4	6,897.7	9.1	21.0	-176.90		-58.0	49.4	128.2	98.5	29.75	4.310	
7,000.0	6,998.5	7,001.2	6,997.6	9.2	21.3	-176.98		-58.3	49.5	128.5	98.2	30.22	4.251	
7,100.0	7,098.5	7,101.1	7,097.4	9.4	21.6	-177.04		-58.7	49.6	128.9	98.2	30.68	4.200	
7,200.0	7,198.5	7,201.0	7,197.3	9.5	22.0	-177.03		-59.1	49.6	129.3	98.2	31.14	4.152	
7,300.0	7,298.5	7,300.8	7,297.1	9.6	22.3	-177.00		-59.7	49.5	129.9	98.3	31.60	4.110	
7,400.0	7,398.5	7,400.7	7,397.0	9.7	22.7	-176.94		-60.4	49.3	130.6	98.5	32.06	4.072	
7,500.0	7,498.5	7,500.7	7,497.0	9.9	23.0	-176.76		-61.0	48.9	131.3	98.7	32.52	4.036	
7,600.0	7,598.5	7,600.7	7,597.1	10.0	23.3	-176.55		-61.7	48.4	132.0	99.0	32.98	4.001	
7,700.0	7,698.5	7,700.8	7,697.1	10.1	23.7	-176.23		-62.3	47.6	132.6	99.2	33.45	3.965	
7,800.0	7,798.5	7,800.6	7,796.9	10.2	24.0	-175.91		-63.0	46.8	133.3	99.4	33.91	3.931	
7,900.0	7,898.5	7,900.8	7,897.1	10.4	24.4	-175.58		-63.6	46.0	134.0	99.7	34.38	3.899	
8,000.0	7,998.5	8,000.6	7,996.9	10.5	24.7	-175.23		-64.2	45.1	134.7	99.9	34.84	3.867	
8,100.0	8,098.5	8,100.7	8,097.0	10.6	25.0	-174.84		-64.9	44.1	135.5	100.2	35.31	3.836	
8,200.0	8,198.5	8,200.6	8,196.9	10.7	25.4	-174.44		-65.6	43.1	136.2	100.4	35.78	3.807	
8,300.0	8,298.5	8,300.5	8,296.8	10.9	25.7	-174.01		-66.3	42.0	137.0	100.8	36.25	3.780	
8,400.0	8,398.5	8,400.3	8,396.6	11.0	26.1	-173.55		-67.1	40.8	137.9	101.2	36.71	3.757	
8,500.0	8,498.5	8,500.3	8,496.5	11.1	26.4	-173.08		-67.9	39.6	138.9	101.8	37.18	3.737	
8,600.0	8,598.5	8,600.3	8,596.6	11.2	26.8	-172.62		-68.8	38.3	140.0	102.3	37.65	3.718	
8,700.0	8,698.5	8,700.3	8,696.6	11.3	27.1	-172.20		-69.6	37.2	140.9	102.8	38.12	3.696	
8,800.0	8,798.5	8,799.4	8,795.6	11.5	27.5	-171.39		-70.5	35.0	142.1	103.5	38.59	3.683	
8,900.0	8,898.5	8,900.3	8,896.5	11.6	27.8	-170.49		-71.9	32.5	143.9	104.9	39.07	3.684	
9,000.0	8,998.5	9,004.3	9,000.4	11.7	28.2	-169.51		-71.2	30.2	143.6	104.0	39.59	3.627	
9,100.0	9,098.5	9,104.8	9,100.9	11.9	28.5	-168.09		-68.2	27.2	141.3	101.2	40.10	3.523	
9,200.0	9,198.5	9,203.3	9,199.2	12.0	28.8	-166.42		-65.9	23.5	139.8	99.2	40.57	3.445	
9,300.0	9,298.5	9,303.1	9,298.9	12.1	29.2	-164.81		-64.2	19.9	139.1	98.1	41.03	3.390	
9,400.0	9,398.5	9,405.7	9,401.6	12.2	29.5	-163.88		-62.2	18.1	137.6	96.1	41.51	3.316	
9,500.0	9,498.5	9,510.0	9,505.7	12.4	30.0	-164.29		-58.2	20.2	133.4	91.4	42.00	3.177	
9,600.0	9,598.5	9,610.0	9,605.5	12.5	30.4	-165.41		-53.2	24.2	127.5	85.1	42.49	3.002	
9,700.0	9,698.5	9,709.1	9,704.4	12.6	30.7	-166.44		-48.3	27.8	121.9	78.9	42.96	2.838	
9,800.0	9,798.5	9,807.9	9,803.1	12.7	31.1	-167.50		-44.2	31.0	117.1	73.7	43.43	2.696	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS, 11259-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,900.0	9,898.5	9,907.2	9,902.3	12.9	31.4	-168.53		-40.6	33.9	113.0	69.1	43.90	2.574	
10,000.0	9,998.5	10,005.7	10,000.8	13.0	31.8	-169.36		-37.6	36.1	109.5	65.1	44.37	2.468	
10,074.8	10,073.3	10,077.8	10,072.8	13.1	32.0	-170.30		-36.9	38.0	108.5	63.8	44.72	2.426 CC, ES	
10,100.0	10,098.5	10,101.6	10,096.6	13.1	32.1	-170.73		-37.2	38.8	108.6	63.8	44.87	2.422 SF	
10,200.0	10,198.5	10,198.0	10,192.8	13.2	32.4	-172.92		-41.2	42.5	112.1	66.7	45.44	2.468	
10,300.0	10,298.5	10,298.0	10,292.7	13.4	32.8	-174.27		-46.0	44.7	116.7	70.7	45.98	2.538	
10,400.0	10,398.5	10,398.2	10,392.7	13.5	33.1	-175.16		-50.7	46.1	121.2	74.8	46.45	2.610	
10,500.0	10,498.5	10,498.7	10,493.2	13.6	33.5	-175.78		-54.8	47.1	125.2	78.3	46.91	2.670	
10,600.0	10,598.5	10,599.3	10,593.6	13.8	33.8	-176.13		-58.5	47.6	128.9	81.5	47.38	2.720	
10,700.0	10,698.5	10,699.7	10,694.0	13.9	34.2	-176.21		-61.6	47.6	132.0	84.1	47.85	2.758	
10,800.0	10,798.5	10,800.4	10,794.7	14.0	34.5	-176.20		-64.4	47.4	134.7	86.4	48.33	2.788	
10,900.0	10,898.5	10,901.5	10,895.8	14.1	34.9	-176.14		-66.5	47.1	136.8	88.0	48.80	2.803	
11,000.0	10,998.5	11,003.0	10,997.3	14.3	35.2	-176.22		-67.6	47.2	137.9	88.6	49.28	2.797	
11,100.0	11,098.5	11,103.4	11,097.7	14.4	35.6	-176.39		-67.9	47.6	138.2	88.4	49.76	2.777	
11,200.0	11,198.5	11,200.0	11,194.3	14.5	35.9	-176.51		-68.2	47.9	138.5	88.3	50.22	2.759	
11,259.0	11,257.5	11,251.7	11,245.9	14.6	36.0	-176.94		-70.5	48.8	141.1	90.7	50.36	2.802	
11,275.0	11,273.5	11,264.8	11,258.9	14.6	36.0	-176.81		-71.6	49.3	142.8	92.4	50.38	2.834	
11,300.0	11,298.4	11,285.0	11,278.9	14.6	36.0	-177.24		-74.0	50.3	147.1	96.7	50.43	2.917	
11,325.0	11,323.3	11,307.0	11,300.7	14.6	36.0	-177.82		-77.2	51.6	153.4	103.0	50.49	3.039	
11,350.0	11,347.9	11,322.8	11,316.2	14.6	36.0	-178.27		-80.1	52.7	161.8	111.2	50.55	3.201	
11,375.0	11,372.3	11,340.0	11,332.9	14.7	36.1	-178.78		-83.7	54.0	172.2	121.5	50.61	3.401	
11,400.0	11,396.4	11,354.0	11,346.5	14.7	36.1	-179.19		-87.0	55.1	184.4	133.8	50.68	3.639	
11,425.0	11,420.1	11,372.2	11,364.0	14.7	36.1	-179.72		-91.9	56.5	198.4	147.6	50.76	3.909	
11,450.0	11,443.4	11,387.0	11,378.2	14.8	36.2	-179.86		-96.2	57.7	213.9	163.1	50.83	4.208	
11,475.0	11,466.2	11,401.0	11,391.4	14.8	36.2	-179.48		-100.5	58.8	230.8	179.9	50.91	4.534	
11,500.0	11,488.4	11,415.0	11,404.6	14.8	36.2	-179.12		-105.1	59.9	249.0	198.0	50.97	4.885	
11,525.0	11,509.9	11,428.2	11,417.0	14.9	36.2	-178.80		-109.6	60.9	268.2	217.2	51.04	5.255	
11,550.0	11,530.8	11,440.3	11,428.2	14.9	36.2	-178.51		-113.7	61.7	288.4	237.3	51.11	5.643	
11,575.0	11,550.9	11,448.0	11,435.4	15.0	36.2	-178.27		-116.5	62.2	309.5	258.3	51.17	6.048	
11,600.0	11,570.2	11,458.0	11,444.7	15.0	36.2	-177.97		-120.1	62.8	331.4	280.1	51.24	6.467	
11,625.0	11,588.7	11,464.4	11,450.6	15.0	36.3	-177.65		-122.6	63.2	354.0	302.7	51.31	6.899	
11,650.0	11,606.2	11,469.8	11,455.6	15.1	36.3	-177.26		-124.7	63.6	377.3	325.9	51.38	7.344	
11,675.0	11,622.8	11,474.2	11,459.6	15.1	36.3	-176.74		-126.5	63.9	401.1	349.6	51.44	7.797	
11,700.0	11,638.4	11,477.7	11,462.8	15.1	36.3	-175.99		-127.9	64.1	425.3	373.8	51.50	8.258	
11,725.0	11,652.9	11,480.3	11,465.2	15.1	36.3	-174.78		-129.0	64.3	449.8	398.2	51.55	8.725	
11,750.0	11,666.4	11,482.2	11,466.9	15.2	36.3	-172.44		-129.7	64.4	474.6	422.9	51.61	9.195	
11,775.0	11,678.7	11,483.3	11,467.8	15.2	36.3	-165.83		-130.2	64.5	499.5	447.8	51.66	9.669	
11,800.0	11,689.9	11,483.6	11,468.2	15.2	36.3	-99.53		-130.3	64.5	524.4	472.7	51.70	10.143	
11,825.0	11,699.9	11,483.3	11,467.9	15.3	36.3	-14.38		-130.2	64.5	549.4	497.7	51.75	10.617	
11,850.0	11,708.7	11,482.5	11,467.1	15.3	36.3	-6.86		-129.9	64.5	574.4	522.6	51.79	11.091	
11,875.0	11,716.3	11,481.0	11,465.8	15.3	36.3	-4.36		-129.2	64.4	599.2	547.3	51.82	11.561	
11,900.0	11,722.6	11,479.0	11,464.0	15.3	36.3	-3.11		-128.4	64.2	623.8	571.9	51.86	12.029	
11,925.0	11,727.6	11,476.5	11,461.7	15.3	36.3	-2.36		-127.4	64.0	648.2	596.3	51.89	12.492	
11,950.0	11,731.3	11,473.6	11,459.0	15.3	36.3	-1.87		-126.2	63.8	672.3	620.3	51.91	12.950	
11,975.0	11,733.8	11,470.2	11,456.0	15.4	36.3	-1.51		-124.9	63.6	696.0	644.1	51.93	13.403	
12,000.0	11,734.9	11,466.5	11,452.5	15.4	36.3	-1.24		-123.4	63.4	719.4	667.5	51.95	13.848	
12,009.0	11,735.0	11,465.0	11,451.2	15.4	36.3	-1.16		-122.8	63.3	727.8	675.8	51.95	14.008	
12,100.0	11,735.0	11,448.0	11,435.4	15.4	36.2	-0.90		-116.5	62.2	812.0	760.0	52.01	15.612	
12,200.0	11,735.0	11,431.8	11,420.4	15.4	36.2	-0.68		-110.8	61.1	905.5	853.4	52.09	17.385	
12,300.0	11,735.0	11,412.7	11,402.4	15.4	36.2	-0.41		-104.3	59.8	999.6	947.4	52.16	19.164	

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	3.0	154.49	-139.3	66.5	154.3				
100.0	100.0	98.5	98.5	3.0	3.0	3.0	154.43	-139.7	66.8	154.9	148.9	6.02	25.744	
200.0	200.0	198.2	198.2	3.0	3.1	3.0	154.34	-140.2	67.4	155.6	149.5	6.12	25.428	
300.0	300.0	298.1	298.1	3.0	3.3	3.0	154.32	-141.0	67.8	156.5	150.2	6.27	24.961	
400.0	400.0	398.5	398.5	3.0	3.5	3.0	154.31	-141.8	68.2	157.3	150.9	6.45	24.398	
500.0	500.0	498.6	498.5	3.1	3.7	3.0	154.27	-142.2	68.5	157.9	151.2	6.67	23.688	
600.0	600.0	598.2	598.1	3.1	4.0	3.0	154.25	-142.8	68.9	158.6	151.7	6.91	22.963	
700.0	700.0	698.0	697.9	3.1	4.2	3.0	154.21	-143.6	69.4	159.5	152.4	7.17	22.252	
800.0	800.0	797.9	797.9	3.2	4.5	3.0	154.15	-144.5	70.0	160.5	153.1	7.46	21.521	
900.0	900.0	898.3	898.3	3.2	4.8	3.0	153.93	-145.0	70.9	161.4	153.6	7.78	20.753	
1,000.0	1,000.0	999.9	999.8	3.2	5.0	3.0	153.48	-144.8	72.2	161.8	153.7	8.10	19.975	
1,100.0	1,100.0	1,104.4	1,104.3	3.3	5.3	3.0	152.87	-142.4	73.0	160.1	151.7	8.40	19.045	
1,200.0	1,200.0	1,205.1	1,205.0	3.4	5.6	3.0	152.19	-138.6	73.1	156.8	148.2	8.61	18.212	
1,300.0	1,300.0	1,305.7	1,305.4	3.4	5.8	3.0	151.42	-134.3	73.2	153.1	144.3	8.79	17.408	
1,400.0	1,400.0	1,405.7	1,405.4	3.5	6.0	3.0	150.47	-129.6	73.4	149.1	140.2	8.89	16.776	
1,500.0	1,500.0	1,501.1	1,500.7	3.5	6.1	3.0	150.04	-127.1	73.3	146.7	137.5	9.18	15.976	
1,521.6	1,521.6	1,521.4	1,521.1	3.6	6.1	3.0	150.09	-127.1	73.1	146.6	137.3	9.36	15.668	CC, ES
1,600.0	1,600.0	1,595.8	1,595.4	3.6	6.7	3.0	150.63	-128.7	72.5	147.8	138.0	9.77	15.121	
1,700.0	1,700.0	1,696.0	1,695.6	3.7	7.4	3.0	151.55	-132.3	71.7	150.5	140.5	10.00	15.049	
1,800.0	1,800.0	1,797.1	1,796.6	3.8	7.5	3.0	152.23	-135.1	71.2	152.8	142.6	10.17	15.024	
1,900.0	1,900.0	1,897.7	1,897.2	3.9	7.7	3.0	152.79	-137.3	70.6	154.4	144.1	10.35	14.913	
2,000.0	2,000.0	1,998.0	1,997.4	3.9	7.8	3.0	153.22	-139.1	70.2	155.8	145.2	10.56	14.753	
2,100.0	2,100.0	2,098.2	2,097.7	4.0	8.0	3.0	115.34	-140.7	69.8	157.8	147.0	10.77	14.650	
2,200.0	2,199.9	2,198.6	2,198.0	4.1	8.2	3.0	116.74	-141.9	69.6	160.3	149.4	10.99	14.594	
2,300.0	2,299.9	2,298.7	2,298.1	4.2	8.3	3.0	118.02	-142.9	69.4	162.8	151.5	11.22	14.504	
2,400.0	2,399.8	2,398.7	2,398.1	4.2	8.5	3.0	119.34	-143.9	69.1	165.2	153.7	11.48	14.397	
2,500.0	2,499.7	2,498.7	2,498.1	4.3	8.8	3.0	120.76	-144.9	68.3	167.7	155.9	11.75	14.276	
2,600.0	2,599.7	2,599.0	2,598.4	4.4	9.0	3.0	122.09	-145.8	67.6	170.1	158.0	12.03	14.133	
2,700.0	2,699.6	2,699.6	2,698.9	4.5	9.2	3.0	123.45	-146.4	66.6	172.2	159.9	12.34	13.955	
2,800.0	2,799.6	2,799.0	2,798.3	4.6	9.4	3.0	124.66	-146.8	65.9	174.4	161.7	12.66	13.776	
2,900.0	2,899.5	2,898.9	2,898.3	4.7	9.7	3.0	125.73	-147.3	65.7	176.8	163.9	12.98	13.623	
3,000.0	2,999.4	2,998.3	2,997.7	4.8	9.9	3.0	126.73	-147.9	65.5	179.4	166.1	13.31	13.476	
3,100.0	3,099.4	3,099.2	3,098.5	4.9	10.2	3.0	127.64	-148.4	65.5	182.0	168.3	13.67	13.312	
3,200.0	3,199.3	3,199.2	3,198.5	5.0	10.4	3.0	128.39	-148.5	65.9	184.3	170.3	14.04	13.129	
3,300.0	3,299.2	3,299.7	3,299.1	5.1	10.6	3.0	129.06	-148.3	66.5	186.5	172.1	14.40	12.951	
3,400.0	3,399.2	3,399.1	3,398.5	5.2	10.9	3.0	129.72	-148.2	67.0	188.7	173.9	14.76	12.780	
3,500.0	3,499.1	3,498.9	3,498.2	5.3	11.1	3.0	130.40	-148.3	67.4	191.1	175.9	15.15	12.615	
3,600.0	3,599.1	3,598.8	3,598.2	5.4	11.4	3.0	131.08	-148.4	67.8	193.6	178.0	15.54	12.455	
3,700.0	3,699.0	3,698.6	3,698.0	5.5	11.7	3.0	131.71	-148.5	68.3	196.1	180.1	15.94	12.300	
3,800.0	3,798.9	3,798.0	3,797.4	5.6	11.9	3.0	132.19	-148.8	69.3	198.8	182.5	16.34	12.170	
3,900.0	3,898.9	3,897.6	3,897.0	5.7	12.2	3.0	132.63	-149.2	70.4	201.8	185.0	16.74	12.052	
4,000.0	3,998.8	3,996.4	3,995.8	5.8	12.5	3.0	133.04	-150.0	71.6	205.1	187.9	17.15	11.957	
4,100.0	4,098.8	4,097.0	4,096.3	5.9	12.8	3.0	133.39	-151.1	73.1	208.8	191.2	17.57	11.885	
4,200.0	4,198.7	4,200.4	4,199.7	6.0	13.1	3.0	133.98	-151.3	73.5	211.4	193.4	17.99	11.751	
4,300.0	4,298.6	4,300.6	4,299.9	6.1	13.4	3.0	134.86	-150.3	72.7	212.8	194.4	18.45	11.535	
4,400.0	4,398.6	4,399.4	4,398.7	6.2	13.7	3.0	135.69	-149.9	71.9	214.7	195.9	18.89	11.370	
4,500.0	4,498.5	4,498.8	4,498.1	6.3	14.0	3.0	136.43	-149.8	71.5	217.1	197.8	19.31	11.245	
4,524.0	4,522.5	4,522.8	4,522.1	6.4	14.0	3.0	136.62	-149.8	71.4	217.7	198.3	19.41	11.216	
4,600.0	4,598.5	4,599.4	4,598.7	6.4	14.2	3.0	137.08	-149.6	71.1	219.1	199.4	19.74	11.104	
4,700.0	4,698.5	4,699.5	4,698.8	6.5	14.5	3.0	137.40	-149.3	70.8	219.7	199.6	20.16	10.900	
4,724.0	4,722.5	4,723.4	4,722.7	6.6	14.6	3.0	176.25	-149.2	70.7	219.7	199.4	20.26	10.842	
4,800.0	4,798.5	4,799.0	4,798.3	6.7	14.8	3.0	176.35	-149.1	70.3	219.5	198.9	20.60	10.657	

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (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
4,900.0	4,898.5	4,899.0	4,898.3	6.8	15.1	176.49		-148.9	69.7	219.3	198.3	21.04	10.425	
4,937.9	4,936.4	4,936.6	4,935.9	6.8	15.2	176.53		-148.9	69.6	219.3	198.1	21.20	10.344	
5,000.0	4,998.5	4,998.3	4,997.6	6.9	15.4	176.58		-149.0	69.4	219.4	197.9	21.47	10.218	
5,100.0	5,098.5	5,098.2	5,097.5	7.0	15.8	176.67		-149.2	69.1	219.6	197.7	21.90	10.025	
5,200.0	5,198.5	5,198.3	5,197.6	7.1	16.1	176.70		-149.4	68.9	219.8	197.4	22.34	9.838	
5,300.0	5,298.5	5,298.4	5,297.7	7.2	16.4	176.75		-149.5	68.8	219.9	197.1	22.78	9.654	
5,400.0	5,398.5	5,398.5	5,397.8	7.3	16.7	176.78		-149.6	68.7	220.0	196.8	23.22	9.475	
5,500.0	5,498.5	5,498.5	5,497.8	7.5	17.0	176.82		-149.7	68.5	220.0	196.4	23.66	9.300	
5,600.0	5,598.5	5,598.6	5,597.9	7.6	17.4	176.86		-149.7	68.4	220.1	196.0	24.11	9.130	
5,700.0	5,698.5	5,698.6	5,697.9	7.7	17.7	176.90		-149.8	68.2	220.1	195.6	24.55	8.965	
5,800.0	5,798.5	5,799.0	5,798.3	7.8	18.0	176.95		-149.8	68.0	220.1	195.1	25.01	8.802	
5,900.0	5,898.5	5,900.1	5,899.4	7.9	18.3	176.97		-149.4	67.9	219.7	194.3	25.46	8.631	
6,000.0	5,998.5	6,002.9	6,002.2	8.0	18.7	176.87		-148.2	68.2	218.5	192.6	25.90	8.436	
6,100.0	6,098.5	6,107.0	6,106.3	8.2	19.0	176.55		-145.1	69.3	215.7	189.3	26.35	8.185	
6,200.0	6,198.5	6,211.6	6,210.7	8.3	19.4	175.84		-139.8	71.5	210.7	183.9	26.80	7.864	
6,300.0	6,298.5	6,312.3	6,311.1	8.4	19.7	174.78		-133.2	74.9	204.5	177.3	27.21	7.515	
6,400.0	6,398.5	6,414.9	6,413.3	8.5	20.1	173.19		-125.4	79.6	197.4	169.8	27.60	7.152	
6,500.0	6,498.5	6,515.4	6,513.1	8.6	20.4	170.68		-116.1	86.9	189.2	161.3	27.96	6.768	
6,600.0	6,598.5	6,610.4	6,607.3	8.8	20.8	167.41		-108.2	96.1	182.8	154.5	28.29	6.463	
6,700.0	6,698.5	6,708.6	6,704.7	8.9	21.1	163.70		-101.0	106.3	178.3	149.7	28.59	6.234	
6,800.0	6,798.5	6,804.7	6,800.2	9.0	21.5	160.08		-95.3	116.2	175.8	146.9	28.87	6.089	
6,862.4	6,860.8	6,865.3	6,860.3	9.1	21.6	157.90		-92.5	122.3	175.4	146.4	29.04	6.040	
6,900.0	6,898.5	6,902.3	6,897.2	9.1	21.8	156.61		-91.1	126.0	175.5	146.4	29.15	6.021	
7,000.0	6,998.5	7,001.5	6,995.8	9.2	22.1	153.34		-87.6	135.4	176.3	146.9	29.43	5.992	
7,100.0	7,098.5	7,101.3	7,095.2	9.4	22.4	150.27		-84.4	144.5	177.9	148.2	29.71	5.986	
7,200.0	7,198.5	7,202.0	7,195.5	9.5	22.7	147.39		-81.0	152.9	179.3	149.3	30.01	5.974	
7,300.0	7,298.5	7,301.5	7,294.6	9.6	23.1	144.62		-77.4	161.0	180.8	150.5	30.30	5.969	
7,400.0	7,398.5	7,400.5	7,393.2	9.7	23.4	141.95		-74.1	169.1	183.1	152.5	30.58	5.986	
7,500.0	7,498.5	7,500.0	7,492.3	9.9	23.7	139.37		-71.1	177.3	186.0	155.1	30.88	6.023	
7,600.0	7,598.5	7,600.4	7,592.2	10.0	24.1	136.73		-67.6	185.8	189.1	157.9	31.17	6.066	
7,700.0	7,698.5	7,700.0	7,691.4	10.1	24.4	133.98		-63.4	194.5	192.2	160.8	31.44	6.113	
7,800.0	7,798.5	7,799.4	7,790.3	10.2	24.7	131.32		-59.2	203.3	195.9	164.2	31.73	6.174	
7,900.0	7,898.5	7,898.9	7,889.4	10.4	25.1	128.83		-55.3	211.9	200.0	168.0	32.02	6.246	
8,000.0	7,998.5	7,999.4	7,989.5	10.5	25.4	126.63		-51.8	220.1	204.3	171.9	32.33	6.317	
8,100.0	8,098.5	8,099.9	8,089.6	10.6	25.7	124.65		-48.3	227.6	208.3	175.7	32.66	6.379	
8,200.0	8,198.5	8,200.4	8,189.9	10.7	26.1	122.91		-45.2	234.4	212.3	179.3	33.00	6.432	
8,300.0	8,298.5	8,301.4	8,290.7	10.9	26.4	121.45		-42.6	240.3	215.9	182.5	33.35	6.472	
8,400.0	8,398.5	8,402.2	8,391.3	11.0	26.8	120.23		-40.2	245.5	219.1	185.3	33.72	6.496	
8,500.0	8,498.5	8,503.1	8,492.0	11.1	27.1	119.15		-38.1	250.1	221.9	187.8	34.09	6.509	
8,600.0	8,598.5	8,604.4	8,593.3	11.2	27.5	118.27		-36.2	253.8	224.3	189.8	34.48	6.505	
8,700.0	8,698.5	8,705.8	8,694.6	11.3	27.8	117.54		-34.5	256.8	226.1	191.3	34.87	6.486	
8,800.0	8,798.5	8,806.4	8,795.2	11.5	28.1	116.77		-32.4	259.2	227.3	192.1	35.25	6.448	
8,900.0	8,898.5	8,905.8	8,894.5	11.6	28.5	116.31		-31.4	261.3	228.7	193.1	35.65	6.415	
9,000.0	8,998.5	9,006.4	8,995.1	11.7	28.8	115.76		-30.0	263.6	230.2	194.1	36.05	6.385	
9,100.0	9,098.5	9,108.8	9,097.5	11.9	29.2	115.36		-28.9	265.0	231.0	194.5	36.45	6.337	
9,200.0	9,198.5	9,210.1	9,198.8	12.0	29.5	115.26		-28.5	265.0	230.8	193.9	36.86	6.262	
9,244.5	9,243.0	9,253.8	9,242.5	12.0	29.7	115.28		-28.5	264.9	230.7	193.6	37.04	6.228	
9,300.0	9,298.5	9,307.2	9,295.9	12.1	29.8	115.27		-28.6	265.1	230.9	193.7	37.26	6.198	
9,400.0	9,398.5	9,404.5	9,393.2	12.2	30.2	115.06		-28.4	266.8	232.4	194.8	37.67	6.171	
9,500.0	9,498.5	9,507.1	9,495.8	12.4	30.5	114.51		-27.1	269.3	234.1	196.0	38.07	6.147	
9,600.0	9,598.5	9,608.8	9,597.4	12.5	30.9	113.58		-23.8	271.3	234.6	196.1	38.46	6.100	
9,700.0	9,698.5	9,706.7	9,695.2	12.6	31.2	112.64		-20.6	273.5	235.4	196.5	38.83	6.061	

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,800.0	9,798.5	9,806.9	9,795.3	12.7	31.6	111.94	-18.4	275.7	236.5	197.3	39.22	6.031		
9,900.0	9,898.5	9,906.7	9,895.1	12.9	31.9	111.34	-16.4	277.5	237.5	197.9	39.61	5.996		
10,000.0	9,998.5	10,002.8	9,991.2	13.0	32.2	110.90	-15.4	280.1	239.6	199.6	40.01	5.989		
10,100.0	10,098.5	10,102.3	10,090.6	13.1	32.6	110.58	-15.3	283.5	242.8	202.4	40.42	6.007		
10,200.0	10,198.5	10,206.1	10,194.4	13.2	32.9	110.39	-15.3	285.9	245.0	204.1	40.84	5.998		
10,300.0	10,298.5	10,307.3	10,295.5	13.4	33.3	110.35	-15.6	287.0	246.1	204.8	41.26	5.964		
10,400.0	10,398.5	10,407.7	10,396.0	13.5	33.6	110.29	-15.7	288.0	247.0	205.4	41.68	5.928		
10,500.0	10,498.5	10,508.8	10,497.1	13.6	34.0	110.26	-15.8	288.6	247.6	205.5	42.09	5.883		
10,600.0	10,598.5	10,609.2	10,597.4	13.8	34.3	110.31	-16.0	288.7	247.8	205.3	42.50	5.832		
10,700.0	10,698.5	10,709.2	10,697.5	13.9	34.6	110.43	-16.6	288.8	248.1	205.2	42.91	5.781		
10,800.0	10,798.5	10,809.8	10,798.0	14.0	35.0	110.58	-17.2	288.6	248.2	204.8	43.33	5.728		
10,852.6	10,851.0	10,862.3	10,850.5	14.1	35.2	110.66	-17.6	288.5	248.2	204.6	43.55	5.698		
10,900.0	10,898.5	10,909.4	10,897.6	14.1	35.3	110.74	-17.9	288.4	248.2	204.4	43.74	5.673		
11,000.0	10,998.5	11,009.7	10,997.9	14.3	35.7	110.91	-18.6	288.2	248.3	204.1	44.17	5.621		
11,080.1	11,078.6	11,089.8	11,078.1	14.4	35.9	111.01	-19.0	288.0	248.3	203.8	44.50	5.578		
11,100.0	11,098.5	11,109.6	11,097.9	14.4	36.0	111.05	-19.2	288.0	248.3	203.7	44.59	5.568		
11,200.0	11,198.5	11,203.1	11,191.2	14.5	36.3	111.89	-23.0	287.8	249.5	204.5	45.03	5.541 SF		
11,259.0	11,257.5	11,258.0	11,245.8	14.6	36.5	113.11	-28.7	287.7	251.8	206.5	45.34	5.553		
11,275.0	11,273.5	11,270.1	11,257.8	14.6	36.5	113.76	-30.4	287.7	252.8	207.3	45.44	5.563		
11,300.0	11,298.4	11,290.9	11,278.4	14.6	36.6	114.43	-33.7	287.7	255.1	209.5	45.62	5.592		
11,325.0	11,323.3	11,311.1	11,298.2	14.6	36.7	115.24	-37.3	287.9	258.4	212.6	45.84	5.638		
11,350.0	11,347.9	11,330.2	11,316.9	14.6	36.7	116.13	-41.3	288.2	262.9	216.8	46.10	5.702		
11,375.0	11,372.3	11,353.0	11,339.0	14.7	36.8	117.49	-46.8	288.5	268.6	222.2	46.37	5.792		
11,400.0	11,396.4	11,364.8	11,350.4	14.7	36.9	117.90	-49.9	288.7	275.5	228.8	46.75	5.893		
11,425.0	11,420.1	11,379.8	11,364.8	14.7	36.9	118.59	-54.3	289.0	283.9	236.8	47.13	6.025		
11,450.0	11,443.4	11,400.0	11,383.8	14.8	37.0	119.88	-60.9	289.6	294.0	246.5	47.49	6.190		
11,475.0	11,466.2	11,400.0	11,383.8	14.8	37.0	118.54	-60.9	289.6	305.3	257.4	47.98	6.364		
11,500.0	11,488.4	11,417.8	11,400.5	14.8	37.0	119.40	-67.2	290.1	318.1	269.8	48.34	6.580		
11,525.0	11,509.9	11,428.1	11,410.0	14.9	37.1	119.09	-71.2	290.4	332.3	283.6	48.73	6.819		
11,550.0	11,530.8	11,437.2	11,418.3	14.9	37.1	118.41	-74.8	290.8	347.8	298.7	49.10	7.084		
11,575.0	11,550.9	11,447.0	11,427.2	15.0	37.1	117.63	-78.9	291.1	364.6	315.2	49.44	7.375		
11,600.0	11,570.2	11,447.0	11,427.2	15.0	37.1	114.87	-78.9	291.1	382.5	332.7	49.77	7.685		
11,625.0	11,588.7	11,458.3	11,437.4	15.0	37.1	113.82	-83.7	291.5	401.2	351.2	50.04	8.018		
11,650.0	11,606.2	11,463.4	11,442.0	15.1	37.2	111.28	-86.0	291.7	420.9	370.6	50.29	8.368		
11,675.0	11,622.8	11,467.5	11,445.6	15.1	37.2	108.13	-87.8	291.9	441.3	390.7	50.52	8.734		
11,700.0	11,638.4	11,470.6	11,448.4	15.1	37.2	104.34	-89.2	292.0	462.3	411.5	50.73	9.112		
11,725.0	11,652.9	11,472.8	11,450.3	15.1	37.2	99.87	-90.2	292.1	483.8	432.9	50.92	9.501		
11,750.0	11,666.4	11,474.1	11,451.5	15.2	37.2	94.73	-90.8	292.2	505.7	454.7	51.09	9.900		
11,775.0	11,678.7	11,474.7	11,452.0	15.2	37.2	89.00	-91.1	292.2	528.0	476.8	51.24	10.305		
11,800.0	11,689.9	11,474.5	11,451.8	15.2	37.2	82.79	-91.0	292.2	550.5	499.1	51.37	10.716		
11,825.0	11,699.9	11,473.6	11,451.0	15.3	37.2	76.30	-90.6	292.2	573.1	521.6	51.49	11.131		
11,850.0	11,708.7	11,472.0	11,449.6	15.3	37.2	69.76	-89.9	292.1	595.8	544.2	51.59	11.549		
11,875.0	11,716.3	11,469.8	11,447.6	15.3	37.2	63.39	-88.8	292.0	618.5	566.8	51.68	11.967		
11,900.0	11,722.6	11,467.0	11,445.2	15.3	37.2	57.39	-87.6	291.9	641.1	589.3	51.76	12.385		
11,925.0	11,727.6	11,463.7	11,442.2	15.3	37.2	51.89	-86.1	291.8	663.5	611.7	51.83	12.801		
11,950.0	11,731.3	11,459.8	11,438.8	15.3	37.2	46.94	-84.4	291.6	685.7	633.8	51.89	13.215		
11,975.0	11,733.8	11,447.0	11,427.2	15.4	37.1	41.65	-78.9	291.1	707.8	655.8	51.92	13.632		
12,000.0	11,734.9	11,447.0	11,427.2	15.4	37.1	38.37	-78.9	291.1	729.3	677.3	51.97	14.033		
12,009.0	11,735.0	11,447.0	11,427.2	15.4	37.1	37.28	-78.9	291.1	737.0	685.0	51.99	14.177		
12,100.0	11,735.0	11,447.0	11,427.2	15.4	37.1	37.28	-78.9	291.1	815.9	763.8	52.15	15.645		
12,200.0	11,735.0	11,418.3	11,400.9	15.4	37.0	34.93	-67.4	290.1	904.0	851.8	52.21	17.314		
12,300.0	11,735.0	11,400.0	11,383.8	15.4	37.0	33.54	-60.9	289.6	994.1	941.8	52.29	19.013		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance				Warning		
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(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	84.83	67.1	741.6	744.7						
100.0	100.0	87.2	87.2	3.0	3.0	84.83	67.1	741.6	744.6	738.6	6.00	124.059			
200.0	200.0	187.2	187.2	3.0	3.0	84.83	67.1	741.6	744.6	738.6	6.03	123.409			
300.0	300.0	287.2	287.2	3.0	3.1	84.83	67.1	741.6	744.6	738.5	6.11	121.882			
400.0	400.0	387.2	387.2	3.0	3.2	84.83	67.1	741.6	744.6	738.4	6.23	119.615			
500.0	500.0	487.2	487.2	3.1	3.4	84.83	67.1	741.6	744.6	738.3	6.38	116.761			
600.0	600.0	587.2	587.2	3.1	3.5	84.83	67.1	741.6	744.6	738.1	6.56	113.482			
700.0	700.0	687.2	687.2	3.1	3.7	84.83	67.1	741.6	744.6	737.9	6.77	109.931			
800.0	800.0	787.2	787.2	3.2	4.0	84.83	67.1	741.6	744.6	737.6	7.01	106.233			
900.0	900.0	887.2	887.2	3.2	4.2	84.83	67.1	741.6	744.6	737.4	7.27	102.491			
1,000.0	1,000.0	987.2	987.2	3.2	4.5	84.83	67.1	741.6	744.6	737.1	7.54	98.779			
1,100.0	1,100.0	1,087.2	1,087.2	3.3	4.7	84.83	67.1	741.6	744.6	736.8	7.83	95.148			
1,200.0	1,200.0	1,187.2	1,187.2	3.4	5.0	84.83	67.1	741.6	744.6	736.5	8.13	91.635			
1,300.0	1,300.0	1,287.2	1,287.2	3.4	5.3	84.83	67.1	741.6	744.6	736.2	8.44	88.261			
1,400.0	1,400.0	1,387.2	1,387.2	3.5	5.6	84.83	67.1	741.6	744.6	735.9	8.76	85.036			
1,500.0	1,500.0	1,487.2	1,487.2	3.5	5.9	84.83	67.1	741.6	744.6	735.5	9.08	81.967			
1,600.0	1,600.0	1,587.2	1,587.2	3.6	6.2	84.83	67.1	741.6	744.6	735.2	9.42	79.053			
1,700.0	1,700.0	1,687.2	1,687.2	3.7	6.5	84.83	67.1	741.6	744.6	734.9	9.76	76.290			
1,800.0	1,800.0	1,787.2	1,787.2	3.8	6.9	84.83	67.1	741.6	744.6	734.5	10.11	73.674			
1,900.0	1,900.0	1,887.2	1,887.2	3.9	7.2	84.83	67.1	741.6	744.6	734.2	10.46	71.199			
2,000.0	2,000.0	1,987.2	1,987.2	3.9	7.5	84.83	67.1	741.6	744.6	733.8	10.81	68.856			
2,100.0	2,100.0	2,087.2	2,087.2	4.0	7.8	46.14	67.1	741.6	743.4	732.2	11.18	66.519			
2,200.0	2,199.9	2,187.1	2,187.1	4.1	8.2	46.33	67.1	741.6	741.0	729.5	11.54	64.189			
2,300.0	2,299.9	2,287.1	2,287.1	4.2	8.5	46.53	67.1	741.6	738.6	726.7	11.92	61.980			
2,400.0	2,399.8	2,387.0	2,387.0	4.2	8.9	46.72	67.1	741.6	736.2	723.9	12.29	59.886			
2,500.0	2,499.7	2,486.9	2,486.9	4.3	9.2	46.92	67.1	741.6	733.8	721.1	12.67	57.900			
2,600.0	2,599.7	2,615.8	2,615.7	4.4	9.6	47.14	67.4	739.3	729.7	716.6	13.14	55.535			
2,700.0	2,699.6	2,748.2	2,747.9	4.5	10.1	47.27	68.5	731.0	721.1	707.5	13.60	53.040			
2,800.0	2,799.6	2,879.4	2,878.3	4.6	10.5	47.31	70.5	716.7	708.1	694.0	14.03	50.451			
2,900.0	2,899.5	2,994.3	2,991.9	4.7	10.9	47.27	72.8	699.8	691.1	676.7	14.44	47.857			
3,000.0	2,999.4	3,092.8	3,089.2	4.8	11.2	47.21	74.8	684.7	673.5	658.7	14.83	45.426			
3,100.0	3,099.4	3,191.2	3,186.4	4.9	11.5	47.16	76.9	669.5	656.0	640.7	15.22	43.105			
3,200.0	3,199.3	3,289.6	3,283.7	5.0	11.9	47.10	79.0	654.3	638.4	622.8	15.61	40.889			
3,300.0	3,299.2	3,388.1	3,380.9	5.1	12.2	47.03	81.1	639.1	620.8	604.8	16.01	38.773			
3,400.0	3,399.2	3,486.5	3,478.2	5.2	12.6	46.97	83.1	624.0	603.3	586.8	16.41	36.751			
3,500.0	3,499.1	3,585.0	3,575.4	5.3	12.9	46.90	85.2	608.8	585.7	568.9	16.82	34.818			
3,600.0	3,599.1	3,683.4	3,672.6	5.4	13.2	46.82	87.3	593.6	568.1	550.9	17.23	32.970			
3,700.0	3,699.0	3,781.9	3,769.9	5.5	13.6	46.75	89.3	578.4	550.6	532.9	17.65	31.202			
3,800.0	3,798.9	3,880.3	3,867.1	5.6	13.9	46.66	91.4	563.3	533.0	514.9	18.06	29.510			
3,900.0	3,898.9	3,978.7	3,964.4	5.7	14.3	46.57	93.5	548.1	515.4	497.0	18.48	27.890			
4,000.0	3,998.8	4,077.2	4,061.6	5.8	14.6	46.48	95.5	532.9	497.9	479.0	18.90	26.338			
4,100.0	4,098.8	4,175.6	4,158.9	5.9	15.0	46.37	97.6	517.7	480.3	461.0	19.33	24.850			
4,200.0	4,198.7	4,274.1	4,256.1	6.0	15.3	46.26	99.7	502.6	462.8	443.0	19.76	23.423			
4,300.0	4,298.6	4,372.5	4,353.3	6.1	15.7	46.14	101.7	487.4	445.2	425.0	20.19	22.054			
4,400.0	4,398.6	4,471.0	4,450.6	6.2	16.0	46.01	103.8	472.2	427.7	407.0	20.62	20.740			
4,500.0	4,498.5	4,569.4	4,547.8	6.3	16.4	45.87	105.9	457.1	410.1	389.0	21.06	19.477			
4,524.0	4,522.5	4,593.0	4,571.2	6.4	16.5	45.84	106.4	453.4	405.9	384.7	21.16	19.182			
4,600.0	4,598.5	4,667.9	4,645.1	6.4	16.7	45.57	108.0	441.9	392.9	371.4	21.50	18.278			
4,700.0	4,698.5	4,766.6	4,742.6	6.5	17.1	45.04	110.0	426.7	376.9	354.9	21.95	17.174			
4,724.0	4,722.5	4,790.3	4,766.0	6.6	17.2	83.69	110.5	423.0	373.2	351.2	22.05	16.925			
4,800.0	4,798.5	4,865.3	4,840.2	6.7	17.5	83.24	112.1	411.4	361.8	339.4	22.38	16.166			
4,900.0	4,898.5	4,964.1	4,937.8	6.8	17.8	82.59	114.2	396.2	346.7	323.9	22.81	15.200			

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,998.5	5,062.9	5,035.3	6.9	18.2	81.89	116.3	381.0	331.7	308.5	23.25	14.268		
5,100.0	5,098.5	5,161.7	5,132.9	7.0	18.5	81.12	118.3	365.8	316.8	293.1	23.69	13.371		
5,200.0	5,198.5	5,260.5	5,230.5	7.1	18.9	80.28	120.4	350.5	301.9	277.7	24.14	12.507		
5,300.0	5,298.5	5,359.3	5,328.1	7.2	19.3	79.35	122.5	335.3	287.1	262.5	24.59	11.674		
5,400.0	5,398.5	5,458.0	5,425.7	7.3	19.6	78.31	124.6	320.1	272.3	247.3	25.05	10.871		
5,500.0	5,498.5	5,556.8	5,523.2	7.5	20.0	77.16	126.6	304.9	257.7	232.2	25.52	10.098		
5,600.0	5,598.5	5,655.6	5,620.8	7.6	20.3	75.88	128.7	289.6	243.2	217.2	26.00	9.353		
5,700.0	5,698.5	5,754.4	5,718.4	7.7	20.7	74.43	130.8	274.4	228.8	202.3	26.49	8.638		
5,800.0	5,798.5	5,853.2	5,816.0	7.8	21.1	72.78	132.9	259.2	214.5	187.6	26.99	7.950		
5,900.0	5,898.5	5,952.0	5,913.6	7.9	21.4	70.91	134.9	244.0	200.5	173.0	27.51	7.290		
6,000.0	5,998.5	6,050.7	6,011.1	8.0	21.8	68.76	137.0	228.7	186.7	158.7	28.04	6.659		
6,100.0	6,098.5	6,149.5	6,108.7	8.2	22.1	66.27	139.1	213.5	173.3	144.7	28.60	6.057		
6,200.0	6,198.5	6,248.3	6,206.3	8.3	22.5	63.38	141.2	198.3	160.2	131.0	29.19	5.487		
6,300.0	6,298.5	6,347.1	6,303.9	8.4	22.9	59.98	143.2	183.1	147.5	117.7	29.81	4.949		
6,400.0	6,398.5	6,445.9	6,401.5	8.5	23.2	55.97	145.3	167.8	135.5	105.0	30.46	4.448		
6,500.0	6,498.5	6,544.6	6,499.0	8.6	23.6	51.21	147.4	152.6	124.3	93.1	31.16	3.989		
6,600.0	6,598.5	6,643.4	6,596.6	8.8	24.0	45.57	149.5	137.4	114.1	82.2	31.88	3.577		
6,700.0	6,698.5	6,742.2	6,694.2	8.9	24.3	38.92	151.6	122.1	105.2	72.5	32.63	3.223		
6,800.0	6,798.5	6,841.0	6,791.8	9.0	24.7	31.19	153.6	106.9	97.9	64.6	33.37	2.935		
6,900.0	6,898.5	6,939.8	6,889.4	9.1	25.0	22.44	155.7	91.7	92.8	58.7	34.06	2.725		
7,000.0	6,998.5	7,038.6	6,986.9	9.2	25.4	12.94	157.8	76.5	90.1	55.5	34.62	2.602		
7,052.9	7,051.3	7,090.8	7,038.5	9.3	25.6	7.77	158.9	68.4	89.7	54.8	34.86	2.573 CC, ES		
7,100.0	7,098.5	7,137.3	7,084.5	9.4	25.8	3.15	159.9	61.2	90.0	55.0	35.03	2.569 SF		
7,200.0	7,198.5	7,236.1	7,182.1	9.5	26.1	-6.38	161.9	46.0	92.6	57.3	35.27	2.624		
7,300.0	7,298.5	7,334.9	7,279.7	9.6	26.5	-15.18	164.0	30.8	97.6	62.2	35.40	2.757		
7,400.0	7,398.5	7,433.7	7,377.3	9.7	26.9	-22.97	166.1	15.6	104.7	69.2	35.48	2.951		
7,500.0	7,498.5	7,532.5	7,474.8	9.9	27.2	-29.69	168.2	0.3	113.5	78.0	35.55	3.193		
7,600.0	7,598.5	7,631.3	7,572.4	10.0	27.6	-35.38	170.2	-14.9	123.7	88.0	35.65	3.468		
7,700.0	7,698.5	7,730.0	7,670.0	10.1	28.0	-40.18	172.3	-30.1	134.8	99.0	35.80	3.766		
7,800.0	7,798.5	7,828.8	7,767.6	10.2	28.3	-44.23	174.4	-45.3	146.8	110.8	35.99	4.079		
7,900.0	7,898.5	7,927.6	7,865.2	10.4	28.7	-47.66	176.5	-60.6	159.4	123.2	36.22	4.401		
8,000.0	7,998.5	8,026.4	7,962.7	10.5	29.1	-50.59	178.5	-75.8	172.5	136.0	36.49	4.727		
8,100.0	8,098.5	8,125.2	8,060.3	10.6	29.4	-53.10	180.6	-91.0	186.0	149.2	36.79	5.055		
8,200.0	8,198.5	8,224.0	8,157.9	10.7	29.8	-55.26	182.7	-106.2	199.7	162.6	37.11	5.382		
8,300.0	8,298.5	8,322.7	8,255.5	10.9	30.2	-57.15	184.8	-121.5	213.7	176.3	37.45	5.707		
8,400.0	8,398.5	8,421.5	8,353.1	11.0	30.5	-58.81	186.8	-136.7	227.9	190.1	37.81	6.029		
8,500.0	8,498.5	8,520.3	8,450.6	11.1	30.9	-60.27	188.9	-151.9	242.3	204.1	38.18	6.347		
8,600.0	8,598.5	8,619.1	8,548.2	11.2	31.3	-61.56	191.0	-167.1	256.8	218.3	38.56	6.661		
8,700.0	8,698.5	8,717.9	8,645.8	11.3	31.6	-62.72	193.1	-182.4	271.5	232.5	38.95	6.969		
8,800.0	8,798.5	8,816.6	8,743.4	11.5	32.0	-63.76	195.2	-197.6	286.2	246.9	39.35	7.273		
8,900.0	8,898.5	8,915.4	8,841.0	11.6	32.4	-64.70	197.2	-212.8	301.0	261.3	39.75	7.572		
9,000.0	8,998.5	9,014.2	8,938.5	11.7	32.7	-65.55	199.3	-228.0	315.9	275.7	40.16	7.865		
9,100.0	9,098.5	9,113.0	9,036.1	11.9	33.1	-66.32	201.4	-243.3	330.8	290.3	40.58	8.153		
9,200.0	9,198.5	9,211.8	9,133.7	12.0	33.5	-67.03	203.5	-258.5	345.8	304.8	41.00	8.436		
9,300.0	9,298.5	9,310.6	9,231.3	12.1	33.8	-67.67	205.5	-273.7	360.9	319.5	41.42	8.714		
9,400.0	9,398.5	9,409.3	9,328.9	12.2	34.2	-68.27	207.6	-288.9	376.0	334.1	41.84	8.986		
9,500.0	9,498.5	9,508.1	9,426.4	12.4	34.6	-68.82	209.7	-304.2	391.1	348.8	42.27	9.253		
9,600.0	9,598.5	9,606.9	9,524.0	12.5	35.0	-69.33	211.8	-319.4	406.3	363.6	42.69	9.515		
9,700.0	9,698.5	9,705.7	9,621.6	12.6	35.3	-69.80	213.8	-334.6	421.4	378.3	43.12	9.773		
9,800.0	9,798.5	9,804.5	9,719.2	12.7	35.7	-70.24	215.9	-349.8	436.7	393.1	43.56	10.025		
9,900.0	9,898.5	9,900.0	9,813.4	12.9	36.0	-70.85	216.4	-365.2	452.1	408.1	44.00	10.274		
10,000.0	9,998.5	9,986.8	9,897.1	13.0	36.4	-73.04	204.4	-384.6	469.3	424.9	44.46	10.557		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,098.5	10,064.8	9,968.3	13.1	36.6	-76.43	181.8	-406.7	490.5	445.5	44.99	10.902		
10,200.0	10,198.5	10,131.7	10,024.9	13.2	36.9	-80.19	153.9	-428.8	517.9	472.2	45.65	11.345		
10,300.0	10,298.5	10,187.6	10,068.1	13.4	37.1	-83.80	124.9	-449.1	553.0	506.7	46.35	11.932		
10,400.0	10,398.5	10,233.8	10,100.6	13.5	37.2	-87.01	97.4	-467.1	596.6	549.6	46.97	12.702		
10,500.0	10,498.5	10,275.0	10,126.8	13.6	37.3	-89.96	70.4	-483.7	648.4	601.0	47.45	13.666		
10,600.0	10,598.5	10,300.0	10,141.3	13.8	37.4	-91.78	52.9	-494.1	707.6	659.8	47.72	14.829		
10,700.0	10,698.5	10,325.0	10,154.9	13.9	37.5	-93.60	34.7	-504.6	773.1	725.2	47.87	16.151		
10,800.0	10,798.5	10,350.0	10,167.3	14.0	37.5	-95.42	15.8	-515.3	843.9	795.9	47.95	17.597		
10,900.0	10,898.5	10,375.0	10,178.5	14.1	37.6	-97.22	-3.7	-526.1	919.0	871.0	48.02	19.139		
11,000.0	10,998.5	10,388.1	10,184.0	14.3	37.6	-98.15	-14.2	-531.8	997.8	949.8	48.00	20.787		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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
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	
0.0	0.0	0.0	0.0	3.0	3.0	85.04	67.2	774.6	777.6	771.5	6.00	129.581		
100.0	100.0	86.1	86.1	3.0	3.0	85.04	67.2	774.6	777.5	771.5	6.00	129.526		
200.0	200.0	186.1	186.1	3.0	3.0	85.04	67.2	774.6	777.5	771.5	6.01	129.399		
300.0	300.0	286.1	286.1	3.0	3.0	85.04	67.2	774.6	777.5	771.5	6.02	129.201		
400.0	400.0	386.1	386.1	3.0	3.0	85.04	67.2	774.6	777.5	771.5	6.03	128.934		
500.0	500.0	486.1	486.1	3.1	3.1	85.04	67.2	774.6	777.5	771.5	6.05	128.598		
600.0	600.0	586.1	586.1	3.1	3.1	85.04	67.2	774.6	777.5	771.4	6.07	128.196		
700.0	700.0	686.1	686.1	3.2	3.1	85.04	67.2	774.6	777.5	771.4	6.09	127.728		
800.0	800.0	786.1	786.1	3.2	3.2	85.04	67.2	774.6	777.5	771.4	6.11	127.199		
900.0	900.0	886.1	886.1	3.2	3.2	85.04	67.2	774.6	777.5	771.4	6.14	126.609		
1,000.0	1,000.0	986.1	986.1	3.3	3.3	85.04	67.2	774.6	777.5	771.3	6.17	125.961		
1,100.0	1,100.0	1,086.1	1,086.1	3.4	3.3	85.04	67.2	774.6	777.5	771.3	6.21	125.259		
1,200.0	1,200.0	1,186.1	1,186.1	3.4	3.4	85.04	67.2	774.6	777.5	771.3	6.24	124.505		
1,300.0	1,300.0	1,286.1	1,286.1	3.5	3.5	85.04	67.2	774.6	777.5	771.2	6.29	123.702		
1,400.0	1,400.0	1,386.1	1,386.1	3.5	3.5	85.04	67.2	774.6	777.5	771.2	6.33	122.853		
1,500.0	1,500.0	1,486.1	1,486.1	3.6	3.6	85.04	67.2	774.6	777.5	771.1	6.38	121.962		
1,600.0	1,600.0	1,586.1	1,586.1	3.7	3.7	85.04	67.2	774.6	777.5	771.1	6.42	121.031		
1,700.0	1,700.0	1,686.1	1,686.1	3.8	3.8	85.04	67.2	774.6	777.5	771.0	6.48	120.065		
1,800.0	1,800.0	1,786.1	1,786.1	3.9	3.8	85.04	67.2	774.6	777.5	771.0	6.53	119.066		
1,900.0	1,900.0	1,886.1	1,886.1	3.9	3.9	85.04	67.2	774.6	777.5	770.9	6.59	118.037		
2,000.0	2,000.0	1,986.1	1,986.1	4.0	4.0	46.34	67.2	774.6	776.3	769.7	6.65	116.772		
2,100.0	2,100.0	2,086.1	2,086.1	4.1	4.1	46.53	67.2	774.6	773.9	767.2	6.71	115.265		
2,200.0	2,199.9	2,186.0	2,186.0	4.2	4.2	46.72	67.2	774.6	771.5	764.7	6.78	113.729		
2,300.0	2,299.9	2,286.0	2,286.0	4.2	4.3	46.91	67.2	774.6	769.1	762.3	6.86	112.171		
2,400.0	2,399.8	2,385.9	2,385.9	4.3	4.4	47.10	67.2	774.6	766.7	759.8	6.93	110.596		
2,500.0	2,499.7	2,485.8	2,485.8	4.4	4.5	47.27	68.1	772.6	762.9	755.8	7.02	108.698		
2,600.0	2,599.7	2,612.4	2,612.4	4.5	4.6	47.24	71.3	765.2	755.0	747.9	7.11	106.188		
2,700.0	2,699.6	2,742.8	2,742.5	4.6	4.6	47.02	76.4	753.2	743.2	736.0	7.21	103.108		
2,800.0	2,799.6	2,866.1	2,865.1	4.7	4.7	46.78	81.1	742.2	730.1	722.8	7.31	99.934		
2,900.0	2,899.5	2,965.2	2,963.5	4.8	4.8	46.53	85.9	731.3	717.1	709.7	7.41	96.776		
3,000.0	2,999.4	3,064.3	3,061.9	4.9	4.8	46.28	90.6	720.3	704.1	696.6	7.52	93.639		
3,100.0	3,099.4	3,163.4	3,160.2	5.0	4.9	46.01	95.3	709.3	691.1	683.4	7.63	90.531		
3,200.0	3,199.3	3,262.5	3,258.6	5.1	5.0	45.74	100.1	698.4	678.1	670.3	7.75	87.459		
3,300.0	3,299.2	3,361.6	3,357.0	5.2	5.0	45.45	104.8	687.4	665.1	657.2	7.88	84.429		
3,400.0	3,399.2	3,460.7	3,455.4	5.3	5.1	45.15	109.5	676.4	652.1	644.1	8.01	81.446		
3,500.0	3,499.1	3,559.8	3,553.7	5.4	5.2	44.84	114.3	665.5	639.2	631.0	8.14	78.516		
3,600.0	3,599.1	3,658.9	3,652.1	5.5	5.3	44.52	119.0	654.5	626.3	618.0	8.28	75.641		
3,700.0	3,699.0	3,758.0	3,750.5	5.6	5.4	44.18	123.7	643.5	613.3	604.9	8.42	72.826		
3,800.0	3,798.9	3,857.1	3,848.9	5.7	5.5	43.83	128.5	632.6	600.5	591.9	8.57	70.072		
3,900.0	3,898.9	3,956.2	3,947.2	5.8	5.6	43.47	133.2	621.6	587.6	578.9	8.72	67.382		
4,000.0	3,998.8	4,055.3	4,045.6	5.9	5.6	43.09	137.9	610.6	574.8	565.9	8.88	64.757		
4,100.0	4,098.8	4,154.4	4,144.0	6.0	5.7	42.69	142.7	599.6	562.0	552.9	9.04	62.197		
4,200.0	4,198.7	4,253.5	4,242.4	6.1	5.8	42.27	147.4	588.7	549.2	540.0	9.20	59.705		
4,300.0	4,298.6	4,352.6	4,340.7	6.2	5.9	41.83	152.1	577.7	536.4	527.1	9.37	57.279		
4,400.0	4,398.6	4,451.7	4,439.1	6.3	6.0	41.37	156.9	566.7	523.7	514.2	9.54	54.919		
4,500.0	4,498.5	4,550.8	4,537.5	6.4	6.0	41.26	158.0	564.1	520.7	511.1	9.58	54.363		
4,524.0	4,522.5	4,574.5	4,561.1	6.4	6.1	40.79	161.6	555.8	511.4	501.7	9.71	52.661		
4,600.0	4,598.5	4,649.9	4,635.9	6.5	6.2	40.05	166.3	544.8	500.4	490.5	9.89	50.586		
4,700.0	4,698.5	4,749.1	4,734.4	6.6	6.2	78.66	167.5	542.2	498.0	488.1	9.93	50.135		
4,724.0	4,722.5	4,772.9	4,758.0	6.7	6.3	78.05	171.1	533.8	490.5	480.4	10.05	48.798		
4,800.0	4,798.5	4,848.4	4,832.9	6.8	6.4	77.22	175.8	522.8	480.7	470.4	10.21	47.079		
4,900.0	4,898.5	4,947.7	4,931.5											

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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:
Survey Program: 0-Standard Keeper 104, 9779-MWD+IFR1+FDIR													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,998.5	5,046.9	5,030.0	6.9	6.5	76.36	180.5	511.8	470.9	460.6	10.37	45.406	
5,100.0	5,098.5	5,146.2	5,128.6	7.0	6.6	75.46	185.3	500.8	461.3	450.8	10.54	43.779	
5,200.0	5,198.5	5,245.5	5,227.1	7.1	6.7	74.53	190.0	489.8	451.9	441.2	10.71	42.197	
5,300.0	5,298.5	5,344.7	5,325.7	7.2	6.8	73.55	194.8	478.9	442.5	431.6	10.88	40.660	
5,400.0	5,398.5	5,444.0	5,424.2	7.3	6.9	72.53	199.5	467.9	433.3	422.2	11.06	39.166	
5,500.0	5,498.5	5,543.3	5,522.8	7.5	7.0	71.47	204.2	456.9	424.2	413.0	11.25	37.717	
5,600.0	5,598.5	5,642.6	5,621.3	7.6	7.2	70.37	209.0	445.9	415.3	403.8	11.44	36.310	
5,700.0	5,698.5	5,741.8	5,719.9	7.7	7.3	69.21	213.7	434.9	406.5	394.9	11.63	34.946	
5,800.0	5,798.5	5,841.1	5,818.4	7.8	7.4	68.01	218.5	423.9	397.9	386.1	11.83	33.625	
5,900.0	5,898.5	5,940.4	5,917.0	7.9	7.5	66.75	223.2	412.9	389.5	377.5	12.04	32.345	
6,000.0	5,998.5	6,039.6	6,015.5	8.0	7.6	65.44	227.9	401.9	381.3	369.0	12.26	31.107	
6,100.0	6,098.5	6,138.9	6,114.1	8.2	7.7	64.08	232.7	391.0	373.3	360.8	12.48	29.911	
6,200.0	6,198.5	6,238.2	6,212.6	8.3	7.8	62.65	237.4	380.0	365.5	352.8	12.71	28.756	
6,300.0	6,298.5	6,337.4	6,311.1	8.4	7.9	61.16	242.2	369.0	357.9	345.0	12.95	27.642	
6,400.0	6,398.5	6,436.7	6,409.7	8.5	8.1	59.61	246.9	358.0	350.6	337.4	13.20	26.569	
6,500.0	6,498.5	6,536.0	6,508.2	8.6	8.2	58.00	251.6	347.0	343.6	330.1	13.45	25.538	
6,600.0	6,598.5	6,635.3	6,606.8	8.8	8.3	56.32	256.4	336.0	336.9	323.1	13.72	24.548	
6,700.0	6,698.5	6,734.5	6,705.3	8.9	8.4	54.58	261.1	325.0	330.4	316.4	14.00	23.601	
6,800.0	6,798.5	6,833.8	6,803.9	9.0	8.5	52.77	265.9	314.0	324.3	310.0	14.29	22.695	
6,900.0	6,898.5	6,933.1	6,902.4	9.1	8.6	50.89	270.6	303.1	318.5	303.9	14.59	21.832	
7,000.0	6,998.5	7,032.3	7,001.0	9.2	8.8	48.95	275.3	292.1	313.1	298.2	14.90	21.012	
7,100.0	7,098.5	7,131.6	7,099.5	9.4	8.9	46.94	280.1	281.1	308.0	292.8	15.22	20.236	
7,200.0	7,198.5	7,230.9	7,198.1	9.5	9.0	44.86	284.8	270.1	303.4	287.8	15.56	19.503	
7,300.0	7,298.5	7,330.2	7,296.6	9.6	9.1	42.73	289.6	259.1	299.1	283.2	15.90	18.815	
7,400.0	7,398.5	7,429.4	7,395.2	9.7	9.2	40.54	294.3	248.1	295.3	279.1	16.25	18.171	
7,500.0	7,498.5	7,528.7	7,493.7	9.9	9.3	38.29	299.0	237.1	292.0	275.3	16.61	17.573	
7,600.0	7,598.5	7,628.0	7,592.3	10.0	9.5	36.00	303.8	226.1	289.1	272.1	16.98	17.019	
7,700.0	7,698.5	7,727.2	7,690.8	10.1	9.6	33.66	308.5	215.2	286.6	269.3	17.36	16.511	
7,800.0	7,798.5	7,826.5	7,789.3	10.2	9.7	31.29	313.3	204.2	284.7	267.0	17.74	16.048	
7,900.0	7,898.5	7,925.8	7,887.9	10.4	9.8	28.90	318.0	193.2	283.3	265.2	18.12	15.630	
8,000.0	7,998.5	8,025.1	7,986.4	10.5	10.0	26.48	322.7	182.2	282.4	263.8	18.51	15.255	
8,100.0	8,098.5	8,124.3	8,085.0	10.6	10.1	24.05	327.5	171.2	281.9	263.1	18.89	14.924	
8,129.4	8,127.9	8,153.5	8,114.0	10.6	10.1	23.33	328.9	168.0	281.9	262.9	19.00	14.835	
8,200.0	8,198.5	8,223.6	8,183.5	10.7	10.2	21.62	332.2	160.2	282.1	262.8	19.27	14.636	
8,300.0	8,298.5	8,322.9	8,282.1	10.9	10.3	19.19	337.0	149.2	282.7	263.0	19.65	14.388	
8,400.0	8,398.5	8,422.1	8,380.6	11.0	10.4	16.78	341.7	138.2	283.8	263.8	20.01	14.180	
8,500.0	8,498.5	8,521.4	8,479.2	11.1	10.6	14.39	346.4	127.2	285.4	265.1	20.37	14.010	
8,600.0	8,598.5	8,620.7	8,577.7	11.2	10.7	12.04	351.2	116.3	287.6	266.9	20.72	13.877	
8,700.0	8,698.5	8,719.9	8,676.3	11.3	10.8	9.72	355.9	105.3	290.2	269.1	21.06	13.777	
8,800.0	8,798.5	8,819.2	8,774.8	11.5	10.9	7.45	360.7	94.3	293.3	271.9	21.39	13.711	
8,900.0	8,898.5	8,918.5	8,873.4	11.6	11.1	5.22	365.4	83.3	296.8	275.1	21.71	13.675	
9,000.0	8,998.5	9,017.8	8,971.9	11.7	11.2	3.05	370.1	72.3	300.8	278.8	22.01	13.668	
9,100.0	9,098.5	9,117.0	9,070.5	11.9	11.3	0.94	374.9	61.3	305.2	282.9	22.30	13.687	
9,200.0	9,198.5	9,216.3	9,169.0	12.0	11.5	-1.10	379.6	50.3	310.1	287.5	22.58	13.731	
9,300.0	9,298.5	9,315.6	9,267.6	12.1	11.6	-3.09	384.3	39.3	315.3	292.4	22.85	13.798	
9,400.0	9,398.5	9,414.8	9,366.1	12.2	11.7	-5.00	389.1	28.4	320.8	297.7	23.11	13.886	
9,500.0	9,498.5	9,514.1	9,464.6	12.4	11.8	-6.86	393.8	17.4	326.8	303.4	23.35	13.993	
9,600.0	9,598.5	9,613.4	9,563.2	12.5	12.0	-8.64	398.6	6.4	333.0	309.4	23.59	14.118	
9,700.0	9,698.5	9,712.7	9,661.7	12.6	12.1	-10.36	403.3	-4.6	339.6	315.8	23.81	14.263	
9,800.0	9,798.5	9,809.0	9,837.4	12.7	12.2	-13.75	398.9	-24.2	342.7	318.2	24.49	13.996	
9,900.0	9,898.5	10,150.6	10,066.9	12.9	12.3	-26.16	285.2	-49.4	301.3	271.3	30.02	10.036	
10,000.0	9,998.5	10,285.8	10,153.1	13.0	12.4	-45.75	182.1	-58.7	232.8	200.6	32.25	7.219	

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
10,100.0	10,098.5	10,357.1	10,186.0	13.1	12.5	-67.56	119.0	-62.2	163.5	133.9	29.61	5.523 SF	
10,200.0	10,198.5	10,399.4	10,201.0	13.2	12.6	-85.49	79.5	-63.8	121.6	101.4	20.13	6.038	
10,218.2	10,216.7	10,405.2	10,202.8	13.3	12.6	-88.14	73.9	-64.0	120.3	101.1	19.25	6.250 CC, ES	
10,300.0	10,298.5	10,426.9	10,208.8	13.4	12.6	-97.97	53.1	-64.6	143.7	118.0	25.70	5.591	
10,400.0	10,398.5	10,446.2	10,213.4	13.5	12.6	-106.36	34.4	-65.1	212.8	179.5	33.33	6.386	
10,500.0	10,498.5	10,460.4	10,216.3	13.6	12.6	-112.15	20.5	-65.3	298.7	262.2	36.53	8.176	
10,600.0	10,598.5	10,475.0	10,218.8	13.8	12.7	-117.66	6.1	-65.6	390.8	352.6	38.11	10.254	
10,700.0	10,698.5	10,475.0	10,218.8	13.9	12.7	-117.66	6.1	-65.6	485.6	446.4	39.19	12.391	
10,800.0	10,798.5	10,486.8	10,220.6	14.0	12.7	-121.75	-5.5	-65.8	582.0	542.1	39.90	14.586	
10,900.0	10,898.5	10,492.5	10,221.3	14.1	12.7	-123.63	-11.2	-65.8	679.3	638.8	40.50	16.771	
11,000.0	10,998.5	10,500.0	10,222.2	14.3	12.7	-125.96	-18.7	-65.9	777.2	736.2	41.02	18.948	
11,100.0	11,098.5	10,500.0	10,222.2	14.4	12.7	-125.96	-18.7	-65.9	875.5	834.0	41.51	21.093	
11,200.0	11,198.5	10,500.0	10,222.2	14.5	12.7	-125.96	-18.7	-65.9	974.1	932.2	41.96	23.217	

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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	85.23	67.4	807.6	810.5						
100.0	100.0	86.4	86.4	3.0	3.0	85.23	67.4	807.6	810.4	804.4	6.00	135.024			
200.0	200.0	186.4	186.4	3.0	3.0	85.23	67.4	807.6	810.4	804.4	6.03	134.325			
300.0	300.0	286.4	286.4	3.0	3.1	85.23	67.4	807.6	810.4	804.3	6.11	132.670			
400.0	400.0	386.4	386.4	3.0	3.2	85.23	67.4	807.6	810.4	804.2	6.22	130.208			
500.0	500.0	486.4	486.4	3.1	3.4	85.23	67.4	807.6	810.4	804.1	6.38	127.107			
600.0	600.0	586.4	586.4	3.1	3.5	85.23	67.4	807.6	810.4	803.9	6.56	123.542			
700.0	700.0	686.4	686.4	3.1	3.7	85.23	67.4	807.6	810.4	803.7	6.77	119.678			
800.0	800.0	786.4	786.4	3.2	4.0	85.23	67.4	807.6	810.4	803.4	7.01	115.655			
900.0	900.0	886.4	886.4	3.2	4.2	85.23	67.4	807.6	810.4	803.2	7.26	111.582			
1,000.0	1,000.0	986.4	986.4	3.2	4.5	85.23	67.4	807.6	810.4	802.9	7.54	107.542			
1,100.0	1,100.0	1,086.4	1,086.4	3.3	4.7	85.23	67.4	807.6	810.4	802.6	7.82	103.590			
1,200.0	1,200.0	1,186.4	1,186.4	3.4	5.0	85.23	67.4	807.6	810.4	802.3	8.12	99.766			
1,300.0	1,300.0	1,286.4	1,286.4	3.4	5.3	85.23	67.4	807.6	810.4	802.0	8.43	96.092			
1,400.0	1,400.0	1,386.4	1,386.4	3.5	5.6	85.23	67.4	807.6	810.4	801.7	8.75	92.582			
1,500.0	1,500.0	1,486.4	1,486.4	3.5	5.9	85.23	67.4	807.6	810.4	801.4	9.08	89.240			
1,600.0	1,600.0	1,586.4	1,586.4	3.6	6.2	85.23	67.4	807.6	810.4	801.0	9.42	86.067			
1,700.0	1,700.0	1,686.4	1,686.4	3.7	6.5	85.23	67.4	807.6	810.4	800.7	9.76	83.060			
1,800.0	1,800.0	1,786.4	1,786.4	3.8	6.9	85.23	67.4	807.6	810.4	800.3	10.10	80.211			
1,900.0	1,900.0	1,886.4	1,886.4	3.9	7.2	85.23	67.4	807.6	810.4	800.0	10.46	77.516			
2,000.0	2,000.0	1,986.4	1,986.4	3.9	7.5	85.23	67.4	807.6	810.4	799.6	10.81	74.965			
2,100.0	2,100.0	2,086.4	2,086.4	4.0	7.8	46.53	67.4	807.6	809.2	798.1	11.17	72.432			
2,200.0	2,199.9	2,186.3	2,186.3	4.1	8.2	46.71	67.4	807.6	806.8	795.3	11.54	69.916			
2,300.0	2,299.9	2,286.3	2,286.3	4.2	8.5	46.89	67.4	807.6	804.4	792.5	11.91	67.531			
2,400.0	2,399.8	2,386.2	2,386.2	4.2	8.8	47.07	67.4	807.6	802.1	789.8	12.29	65.268			
2,500.0	2,499.7	2,486.1	2,486.1	4.3	9.2	47.25	67.4	807.6	799.7	787.0	12.67	63.122			
2,600.0	2,599.7	2,584.6	2,584.6	4.4	9.5	47.35	68.6	807.6	797.4	784.4	13.05	61.114			
2,700.0	2,699.6	2,682.8	2,682.7	4.5	9.9	47.20	73.2	807.6	795.3	781.9	13.43	59.220			
2,800.0	2,799.6	2,780.8	2,780.3	4.6	10.2	46.81	81.1	807.6	793.5	779.7	13.82	57.433			
2,900.0	2,899.5	2,880.1	2,879.1	4.7	10.5	46.25	91.4	807.5	791.9	777.7	14.21	55.720			
3,000.0	2,999.4	2,979.7	2,978.2	4.8	10.9	45.67	101.9	807.5	790.4	775.8	14.62	54.081			
3,100.0	3,099.4	3,079.4	3,077.3	4.9	11.2	45.10	112.3	807.4	789.0	773.9	15.02	52.518			
3,200.0	3,199.3	3,179.1	3,176.5	5.0	11.6	44.53	122.7	807.4	787.6	772.2	15.44	51.027			
3,300.0	3,299.2	3,278.8	3,275.6	5.1	11.9	43.95	133.1	807.3	786.3	770.5	15.85	49.605			
3,400.0	3,399.2	3,378.4	3,374.7	5.2	12.2	43.37	143.5	807.3	785.1	768.9	16.27	48.247			
3,500.0	3,499.1	3,478.1	3,473.8	5.3	12.6	42.79	154.0	807.3	784.0	767.3	16.70	46.951			
3,600.0	3,599.1	3,577.8	3,573.0	5.4	12.9	42.21	164.4	807.2	783.0	765.9	17.13	45.713			
3,700.0	3,699.0	3,677.5	3,672.1	5.5	13.3	41.62	174.8	807.2	782.1	764.5	17.56	44.530			
3,800.0	3,798.9	3,777.1	3,771.2	5.6	13.6	41.04	185.2	807.1	781.2	763.2	18.00	43.399			
3,900.0	3,898.9	3,876.8	3,870.4	5.7	14.0	40.45	195.6	807.1	780.4	762.0	18.44	42.319			
4,000.0	3,998.8	3,976.5	3,969.5	5.8	14.3	39.86	206.0	807.0	779.7	760.8	18.89	41.285			
4,100.0	4,098.8	4,076.2	4,068.6	5.9	14.7	39.27	216.5	807.0	779.1	759.7	19.33	40.296			
4,200.0	4,198.7	4,175.8	4,167.7	6.0	15.0	38.68	226.9	806.9	778.5	758.8	19.79	39.350			
4,300.0	4,298.6	4,275.5	4,266.9	6.1	15.4	38.09	237.3	806.9	778.1	757.8	20.24	38.444			
4,400.0	4,398.6	4,375.2	4,366.0	6.2	15.7	37.50	247.7	806.8	777.7	757.0	20.70	37.576			
4,500.0	4,498.5	4,474.9	4,465.1	6.3	16.1	36.91	258.1	806.8	777.4	756.3	21.16	36.745			
4,524.0	4,522.5	4,498.8	4,488.9	6.4	16.2	36.77	260.6	806.8	777.4	756.1	21.27	36.551			
4,539.2	4,537.7	4,514.0	4,504.0	6.4	16.2	36.68	262.2	806.8	777.4	756.0	21.34	36.429			
4,600.0	4,598.5	4,574.5	4,564.2	6.4	16.5	36.30	268.6	806.7	777.6	756.0	21.62	35.966			
4,700.0	4,698.5	4,674.1	4,663.2	6.5	16.8	35.62	279.0	806.7	779.3	757.2	22.09	35.277			
4,724.0	4,722.5	4,697.9	4,687.0	6.6	16.9	35.26	281.5	806.7	779.9	757.7	22.20	35.132			
4,800.0	4,798.5	4,773.5	4,762.2	6.7	17.2	34.70	289.4	806.7	782.1	759.6	22.53	34.706			

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	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)				
4,900.0	4,898.5	4,873.0	4,861.1	6.8	17.5	72.97	299.8	806.6	785.1	762.1	22.98	34.168		
5,000.0	4,998.5	4,972.4	4,960.0	6.9	17.9	72.25	310.2	806.6	788.2	764.7	23.42	33.652		
5,100.0	5,098.5	5,071.9	5,058.9	7.0	18.2	71.53	320.5	806.5	791.4	767.5	23.87	33.158		
5,200.0	5,198.5	5,171.3	5,157.8	7.1	18.6	70.82	330.9	806.5	794.7	770.4	24.32	32.684		
5,300.0	5,298.5	5,270.8	5,256.7	7.2	18.9	70.11	341.3	806.4	798.2	773.4	24.77	32.230		
5,400.0	5,398.5	5,370.2	5,355.6	7.3	19.3	69.41	351.7	806.4	801.8	776.6	25.22	31.794		
5,500.0	5,498.5	5,469.7	5,454.5	7.5	19.6	68.72	362.1	806.3	805.5	779.8	25.67	31.377		
5,600.0	5,598.5	5,569.1	5,553.4	7.6	20.0	68.03	372.5	806.3	809.3	783.2	26.13	30.976		
5,700.0	5,698.5	5,668.6	5,652.3	7.7	20.4	67.35	382.9	806.2	813.3	786.7	26.59	30.591		
5,800.0	5,798.5	5,768.0	5,751.2	7.8	20.7	66.68	393.3	806.2	817.3	790.3	27.04	30.221		
5,900.0	5,898.5	5,867.5	5,850.1	7.9	21.1	66.01	403.7	806.2	821.5	794.0	27.51	29.867		
6,000.0	5,998.5	6,002.9	5,984.9	8.0	21.6	65.20	416.4	806.1	825.9	797.8	28.10	29.393		
6,100.0	6,098.5	6,102.9	6,084.9	8.2	21.9	65.20	416.4	806.1	825.9	797.4	28.53	28.954		
6,200.0	6,198.5	6,202.9	6,184.9	8.3	22.3	65.20	416.4	806.1	825.9	797.0	28.95	28.528		
6,300.0	6,298.5	6,302.9	6,284.9	8.4	22.6	65.20	416.4	806.1	825.9	796.6	29.38	28.114		
6,400.0	6,398.5	6,402.9	6,384.9	8.5	23.0	65.20	416.4	806.1	825.9	796.1	29.81	27.711		
6,500.0	6,498.5	6,502.9	6,484.9	8.6	23.3	65.20	416.4	806.1	825.9	795.7	30.23	27.319		
6,600.0	6,598.5	6,602.9	6,584.9	8.8	23.7	65.20	416.4	806.1	825.9	795.3	30.66	26.938		
6,700.0	6,698.5	6,702.9	6,684.9	8.9	24.0	65.20	416.4	806.1	825.9	794.9	31.09	26.567		
6,800.0	6,798.5	6,802.9	6,784.9	9.0	24.4	65.20	416.4	806.1	825.9	794.4	31.52	26.206		
6,900.0	6,898.5	6,902.9	6,884.9	9.1	24.7	65.20	416.4	806.1	825.9	794.0	31.95	25.854		
7,000.0	6,998.5	7,002.9	6,984.9	9.2	25.1	65.20	416.4	806.1	825.9	793.6	32.38	25.512		
7,100.0	7,098.5	7,102.9	7,084.9	9.4	25.4	65.20	416.4	806.1	825.9	793.1	32.80	25.178		
7,200.0	7,198.5	7,202.9	7,184.9	9.5	25.8	65.20	416.4	806.1	825.9	792.7	33.23	24.852		
7,300.0	7,298.5	7,302.9	7,284.9	9.6	26.1	65.20	416.4	806.1	825.9	792.3	33.66	24.535		
7,400.0	7,398.5	7,402.9	7,384.9	9.7	26.5	65.20	416.4	806.1	825.9	791.8	34.09	24.225		
7,500.0	7,498.5	7,502.9	7,484.9	9.9	26.9	65.20	416.4	806.1	825.9	791.4	34.53	23.923		
7,600.0	7,598.5	7,602.9	7,584.9	10.0	27.2	65.20	416.4	806.1	825.9	791.0	34.96	23.628		
7,700.0	7,698.5	7,702.9	7,684.9	10.1	27.6	65.20	416.4	806.1	825.9	790.6	35.39	23.340		
7,800.0	7,798.5	7,802.9	7,784.9	10.2	27.9	65.20	416.4	806.1	825.9	790.1	35.82	23.059		
7,900.0	7,898.5	7,902.9	7,884.9	10.4	28.3	65.20	416.4	806.1	825.9	789.7	36.25	22.784		
8,000.0	7,998.5	8,002.9	7,984.9	10.5	28.6	65.20	416.4	806.1	825.9	789.3	36.68	22.516		
8,100.0	8,098.5	8,102.9	8,084.9	10.6	29.0	65.20	416.4	806.1	825.9	788.8	37.11	22.254		
8,200.0	8,198.5	8,202.9	8,184.9	10.7	29.3	65.20	416.4	806.1	825.9	788.4	37.55	21.997		
8,300.0	8,298.5	8,302.9	8,284.9	10.9	29.7	65.20	416.4	806.1	825.9	788.0	37.98	21.747		
8,400.0	8,398.5	8,402.9	8,384.9	11.0	30.0	65.20	416.4	806.1	825.9	787.5	38.41	21.502		
8,500.0	8,498.5	8,502.9	8,484.9	11.1	30.4	65.20	416.4	806.1	825.9	787.1	38.85	21.262		
8,600.0	8,598.5	8,602.9	8,584.9	11.2	30.8	65.20	416.4	806.1	825.9	786.7	39.28	21.028		
8,700.0	8,698.5	8,702.9	8,684.9	11.3	31.1	65.20	416.4	806.1	825.9	786.2	39.71	20.798		
8,800.0	8,798.5	8,802.9	8,784.9	11.5	31.5	65.20	416.4	806.1	825.9	785.8	40.15	20.574		
8,900.0	8,898.5	8,902.9	8,884.9	11.6	31.8	65.20	416.4	806.1	825.9	785.4	40.58	20.354		
9,000.0	8,998.5	9,002.9	8,984.9	11.7	32.2	65.20	416.4	806.1	825.9	784.9	41.01	20.138		
9,100.0	9,098.5	9,102.9	9,084.9	11.9	32.5	65.20	416.4	806.1	825.9	784.5	41.45	19.927		
9,200.0	9,198.5	9,202.9	9,184.9	12.0	32.9	65.20	416.4	806.1	825.9	784.1	41.88	19.721		
9,300.0	9,298.5	9,302.9	9,284.9	12.1	33.2	65.20	416.4	806.1	825.9	783.6	42.32	19.518		
9,400.0	9,398.5	9,402.9	9,384.9	12.2	33.6	65.20	416.4	806.1	825.9	783.2	42.75	19.320		
9,500.0	9,498.5	9,502.9	9,484.9	12.4	34.0	65.20	416.4	806.1	825.9	782.8	43.19	19.126		
9,600.0	9,598.5	9,602.9	9,584.9	12.5	34.3	65.20	416.4	806.1	825.9	782.3	43.62	18.935		
9,700.0	9,698.5	9,702.9	9,684.9	12.6	34.7	65.20	416.4	806.1	825.9	781.9	44.06	18.748		
9,800.0	9,798.5	9,802.9	9,784.9	12.7	35.3	66.33	398.7	806.2	823.8	779.2	44.63	18.458		
9,900.0	9,898.5	10,147.6	10,090.1	12.9	35.9	74.97	271.5	806.5	803.5	758.8	44.67	17.988		
10,000.0	9,998.5	10,271.1	10,163.8	13.0	36.1	82.20	172.8	806.8	778.4	733.9	44.50	17.492		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:			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		
10,100.0	10,098.5	10,335.8	10,191.5	13.1	36.2	86.61	114.4	807.0	759.6	715.3	44.29	17.149		
10,200.0	10,198.5	10,374.2	10,204.2	13.2	36.2	89.38	78.2	807.1	751.1	707.0	44.14	17.018		
10,221.1	10,219.6	10,380.4	10,206.0	13.3	36.2	89.83	72.3	807.1	750.8	706.7	44.13	17.016	CC, ES, SF	
10,300.0	10,298.5	10,400.0	10,211.1	13.4	36.2	91.27	53.3	807.2	754.7	710.5	44.19	17.077		
10,400.0	10,398.5	10,417.0	10,214.8	13.5	36.2	92.54	36.7	807.3	770.7	726.2	44.50	17.321		
10,500.0	10,498.5	10,430.1	10,217.3	13.6	36.2	93.51	23.9	807.3	798.5	753.7	44.90	17.786		
10,600.0	10,598.5	10,440.1	10,219.0	13.8	36.3	94.26	14.0	807.3	837.3	792.0	45.26	18.498		
10,700.0	10,698.5	10,450.0	10,220.5	13.9	36.3	95.00	4.2	807.4	885.5	840.0	45.52	19.452		
10,800.0	10,798.5	10,450.0	10,220.5	14.0	36.3	95.00	4.2	807.4	941.8	896.1	45.68	20.617		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	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)				
0.0	0.0	0.0	0.0	3.0	3.0	85.41	67.5	840.6	843.4					
100.0	100.0	85.7	85.7	3.0	3.0	85.41	67.5	840.6	843.3	837.3	6.00	140.542		
200.0	200.0	185.7	185.7	3.0	3.0	85.41	67.5	840.6	843.3	837.3	6.00	140.483		
300.0	300.0	285.7	285.7	3.0	3.0	85.41	67.5	840.6	843.3	837.3	6.01	140.345		
400.0	400.0	385.7	385.7	3.0	3.0	85.41	67.5	840.6	843.3	837.3	6.02	140.132		
500.0	500.0	485.7	485.7	3.1	3.1	85.41	67.5	840.6	843.3	837.2	6.03	139.843		
600.0	600.0	585.7	585.7	3.1	3.1	85.41	67.5	840.6	843.3	837.2	6.05	139.480		
700.0	700.0	685.7	685.7	3.1	3.1	85.41	67.5	840.6	843.3	837.2	6.06	139.045		
800.0	800.0	785.7	785.7	3.2	3.1	85.41	67.5	840.6	843.3	837.2	6.09	138.539		
900.0	900.0	885.7	885.7	3.2	3.2	85.41	67.5	840.6	843.3	837.2	6.11	137.966		
1,000.0	1,000.0	985.7	985.7	3.2	3.2	85.41	67.5	840.6	843.3	837.1	6.14	137.328		
1,100.0	1,100.0	1,085.7	1,085.7	3.3	3.3	85.41	67.5	840.6	843.3	837.1	6.17	136.628		
1,200.0	1,200.0	1,185.7	1,185.7	3.4	3.3	85.41	67.5	840.6	843.3	837.1	6.21	135.868		
1,300.0	1,300.0	1,285.7	1,285.7	3.4	3.4	85.41	67.5	840.6	843.3	837.0	6.24	135.052		
1,400.0	1,400.0	1,385.7	1,385.7	3.5	3.5	85.41	67.5	840.6	843.3	837.0	6.28	134.183		
1,500.0	1,500.0	1,485.7	1,485.7	3.5	3.5	85.41	67.5	840.6	843.3	837.0	6.33	133.265		
1,600.0	1,600.0	1,585.7	1,585.7	3.6	3.6	85.41	67.5	840.6	843.3	836.9	6.37	132.301		
1,700.0	1,700.0	1,685.7	1,685.7	3.7	3.7	85.41	67.5	840.6	843.3	836.9	6.42	131.294		
1,800.0	1,800.0	1,785.7	1,785.7	3.8	3.8	85.41	67.5	840.6	843.3	836.8	6.47	130.248		
1,900.0	1,900.0	1,885.7	1,885.7	3.9	3.8	85.41	67.5	840.6	843.3	836.7	6.53	129.167		
2,000.0	2,000.0	1,985.7	1,985.7	3.9	3.9	85.41	67.5	840.6	843.3	836.7	6.59	128.054		
2,100.0	2,100.0	2,085.7	2,085.7	4.0	4.0	46.70	67.5	840.6	842.1	835.4	6.65	126.701		
2,200.0	2,199.9	2,185.6	2,185.6	4.1	4.1	46.87	67.5	840.6	839.7	833.0	6.71	125.103		
2,300.0	2,299.9	2,285.6	2,285.6	4.2	4.2	47.05	67.5	840.6	837.3	830.5	6.78	123.473		
2,400.0	2,399.8	2,385.5	2,385.5	4.2	4.3	47.22	67.5	840.6	834.9	828.1	6.85	121.817		
2,500.0	2,499.7	2,485.4	2,485.4	4.3	4.4	47.40	67.5	840.6	832.6	825.6	6.93	120.141		
2,600.0	2,599.7	2,566.8	2,566.8	4.4	4.4	47.56	67.4	841.3	831.2	824.2	7.00	118.688		
2,604.6	2,604.3	2,570.4	2,570.4	4.4	4.4	47.57	67.3	841.4	831.2	824.2	7.01	118.629 CC, ES		
2,700.0	2,699.6	2,645.0	2,644.9	4.5	4.5	47.76	66.7	844.1	832.4	825.3	7.08	117.579		
2,800.0	2,799.6	2,723.0	2,722.8	4.6	4.5	47.99	66.6	849.0	836.2	829.0	7.16	116.815		
2,900.0	2,899.5	2,814.5	2,814.0	4.7	4.5	48.30	63.8	856.7	842.1	834.9	7.25	116.189		
3,000.0	2,999.4	2,914.2	2,913.3	4.8	4.5	48.64	61.8	865.3	848.3	840.9	7.35	115.470		
3,100.0	3,099.4	3,013.9	3,012.6	4.9	4.5	48.97	59.9	873.8	854.5	847.0	7.45	114.708		
3,200.0	3,199.3	3,113.6	3,111.9	5.0	4.6	49.30	57.9	882.3	860.7	853.1	7.56	113.910		
3,300.0	3,299.2	3,213.3	3,211.2	5.1	4.6	49.62	55.9	890.9	866.9	859.3	7.67	113.080		
3,400.0	3,399.2	3,313.0	3,310.5	5.2	4.6	49.94	54.0	899.4	873.2	865.4	7.78	112.224		
3,500.0	3,499.1	3,412.6	3,409.8	5.3	4.7	50.26	52.0	907.9	879.5	871.6	7.90	111.345		
3,600.0	3,599.1	3,512.3	3,509.1	5.4	4.7	50.56	50.0	916.5	885.8	877.8	8.02	110.449		
3,700.0	3,699.0	3,612.0	3,608.4	5.5	4.8	50.87	48.1	925.0	892.2	884.0	8.14	109.539		
3,800.0	3,798.9	3,711.7	3,707.7	5.6	4.8	51.17	46.1	933.5	898.6	890.3	8.27	108.618		
3,900.0	3,898.9	3,811.4	3,807.0	5.7	4.9	51.47	44.1	942.1	905.0	896.6	8.40	107.690		
4,000.0	3,998.8	3,911.1	3,906.3	5.8	4.9	51.76	42.1	950.6	911.4	902.8	8.54	106.759		
4,100.0	4,098.8	4,010.8	4,005.6	5.9	5.0	52.05	40.2	959.1	917.8	909.2	8.67	105.826		
4,200.0	4,198.7	4,110.4	4,104.9	6.0	5.1	52.33	38.2	967.7	924.3	915.5	8.81	104.894		
4,300.0	4,298.6	4,210.1	4,204.2	6.1	5.1	52.61	36.2	976.2	930.8	921.8	8.95	103.965		
4,400.0	4,398.6	4,309.8	4,303.5	6.2	5.2	52.89	34.3	984.7	937.3	928.2	9.10	103.041		
4,500.0	4,498.5	4,409.5	4,402.8	6.3	5.3	53.16	32.3	993.3	943.8	934.6	9.24	102.124		
4,524.0	4,522.5	4,433.4	4,426.6	6.4	5.3	53.23	31.8	995.3	945.4	936.1	9.28	101.905		
4,600.0	4,598.5	4,509.2	4,502.1	6.4	5.4	53.45	30.3	1,001.8	950.7	941.3	9.39	101.236		
4,700.0	4,698.5	4,608.8	4,601.3	6.5	5.4	53.67	28.4	1,010.3	958.6	949.0	9.55	100.422		
4,724.0	4,722.5	4,632.7	4,625.1	6.6	5.5	92.52	27.9	1,012.4	960.6	951.0	9.58	100.267		
4,800.0	4,798.5	4,708.5	4,700.6	6.7	5.5	92.59	26.4	1,018.9	967.2	957.5	9.68	99.880		

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
4,900.0	4,898.5	4,808.1	4,799.8	6.8	5.6	92.69	24.4	1,027.4	975.8	966.0	9.82	99.364	
5,000.0	4,998.5	4,907.7	4,899.0	6.9	5.7	92.78	22.5	1,035.9	984.5	974.5	9.96	98.843	
5,100.0	5,098.5	5,007.3	4,998.2	7.0	5.8	92.87	20.5	1,044.5	993.1	983.0	10.10	98.317 SF	

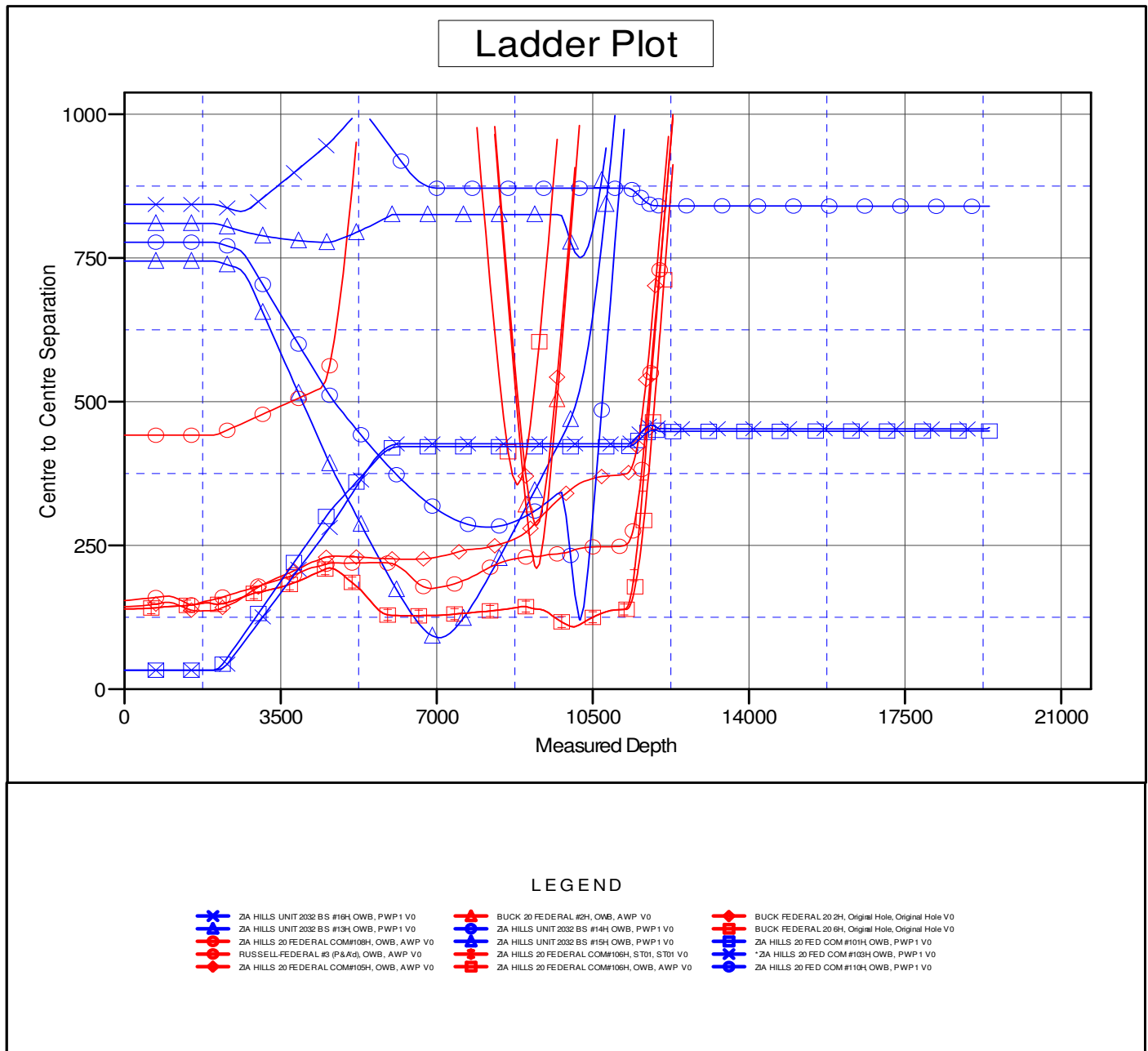
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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' @ 3186.1usft (N 894)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #102H
 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

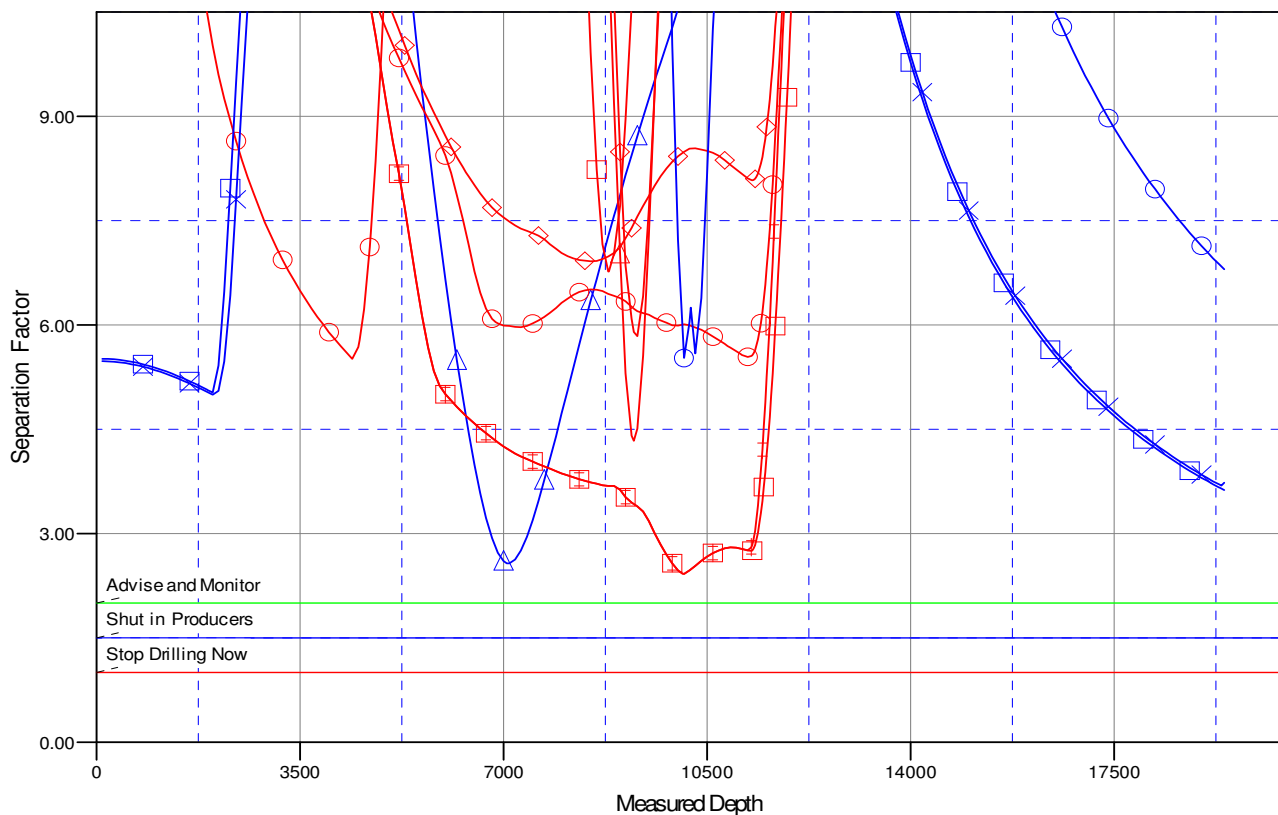
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #102H	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' @ 3186.1usft (N 894)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #102H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

ZIA HILLS UNIT 2032 BS #16H, OWB, PWP1 V0	BUCK 20 FEDERAL #2H, OWB, AWP V0	BUCK FEDERAL 20 2H, Original Hole, Original Hole V0
ZIA HILLS UNIT 2032 BS #13H, OWB, PWP1 V0	ZIA HILLS UNIT 2032 BS #14H, OWB, PWP1 V0	BUCK FEDERAL 20 6H, Original Hole, Original Hole V0
ZIA HILLS 20 FEDERAL COM#108H, OWB, AWP V0	ZIA HILLS UNIT 2032 BS #15H, OWB, PWP1 V0	ZIA HILLS 20 FED COM #101H, OWB, PWP1 V0
RUSSELL FEDERAL #3 (P&Ad), OWB, AWP V0	ZIA HILLS 20 FEDERAL COM#106H, ST01, ST01 V0	ZIA HILLS 20 FED COM #103H, OWB, PWP1 V0
ZIA HILLS 20 FEDERAL COM#105H, OWB, AWP V0	ZIA HILLS 20 FEDERAL COM#106H, OWB, AWP V0	ZIA HILLS 20 FED COM #110H, OWB, PWP1 V0

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

4/5/2022 8:24:52AM

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COMPASS 5000.15 Build 91E

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS 20 FED COM PROJECT

ZIA HILLS 20 FED COM #102H

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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #102H	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 #102H					
Well Position	+N/-S	0.0 usft	Northing:	374,558.55 usft	Latitude:	32° 1' 41.405 N
	+E/-W	0.0 usft	Easting:	697,886.50 usft	Longitude:	103° 41' 41.242 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,155.1 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	2/17/2022	6.46	59.59	47,444.12601734

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	0.05	

Survey Tool Program	Date	4/4/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,259.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,259.0	19,390.9	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 #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #102H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,100.0	2.00	38.81	2,100.0	1.4	1.1	1.4	2.00	2.00	0.00
Start 2424.0 hold at 2100.0 MD									
2,200.0	2.00	38.81	2,199.9	4.1	3.3	4.1	0.00	0.00	0.00
2,300.0	2.00	38.81	2,299.9	6.8	5.5	6.8	0.00	0.00	0.00
2,400.0	2.00	38.81	2,399.8	9.5	7.7	9.5	0.00	0.00	0.00
2,500.0	2.00	38.81	2,499.7	12.2	9.8	12.2	0.00	0.00	0.00
2,600.0	2.00	38.81	2,599.7	15.0	12.0	15.0	0.00	0.00	0.00
2,700.0	2.00	38.81	2,699.6	17.7	14.2	17.7	0.00	0.00	0.00
2,800.0	2.00	38.81	2,799.6	20.4	16.4	20.4	0.00	0.00	0.00
2,900.0	2.00	38.81	2,899.5	23.1	18.6	23.1	0.00	0.00	0.00
3,000.0	2.00	38.81	2,999.4	25.8	20.8	25.9	0.00	0.00	0.00
3,100.0	2.00	38.81	3,099.4	28.6	23.0	28.6	0.00	0.00	0.00
3,200.0	2.00	38.81	3,199.3	31.3	25.2	31.3	0.00	0.00	0.00
3,300.0	2.00	38.81	3,299.2	34.0	27.3	34.0	0.00	0.00	0.00
3,400.0	2.00	38.81	3,399.2	36.7	29.5	36.7	0.00	0.00	0.00
3,500.0	2.00	38.81	3,499.1	39.4	31.7	39.5	0.00	0.00	0.00
3,600.0	2.00	38.81	3,599.1	42.2	33.9	42.2	0.00	0.00	0.00
3,700.0	2.00	38.81	3,699.0	44.9	36.1	44.9	0.00	0.00	0.00
3,800.0	2.00	38.81	3,798.9	47.6	38.3	47.6	0.00	0.00	0.00
3,900.0	2.00	38.81	3,898.9	50.3	40.5	50.3	0.00	0.00	0.00
4,000.0	2.00	38.81	3,998.8	53.0	42.7	53.1	0.00	0.00	0.00
4,100.0	2.00	38.81	4,098.8	55.7	44.8	55.8	0.00	0.00	0.00
4,200.0	2.00	38.81	4,198.7	58.5	47.0	58.5	0.00	0.00	0.00
4,300.0	2.00	38.81	4,298.6	61.2	49.2	61.2	0.00	0.00	0.00
4,400.0	2.00	38.81	4,398.6	63.9	51.4	64.0	0.00	0.00	0.00
4,500.0	2.00	38.81	4,498.5	66.6	53.6	66.7	0.00	0.00	0.00
4,524.0	2.00	38.81	4,522.5	67.3	54.1	67.3	0.00	0.00	0.00
Start Drop -1.00									
4,600.0	1.24	38.81	4,598.5	69.0	55.5	69.0	1.00	-1.00	0.00
4,700.0	0.24	38.81	4,698.5	70.0	56.3	70.0	1.00	-1.00	0.00
4,724.0	0.00	0.00	4,722.5	70.0	56.3	70.1	1.00	-1.00	-161.78
Start 6535.0 hold at 4724.0 MD									

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Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #102H	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)
4,800.0	0.00	0.00	4,798.5	70.0	56.3	70.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,898.5	70.0	56.3	70.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,998.5	70.0	56.3	70.1	0.00	0.00	0.00
5,100.0	0.00	0.00	5,098.5	70.0	56.3	70.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,198.5	70.0	56.3	70.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,298.5	70.0	56.3	70.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,398.5	70.0	56.3	70.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,498.5	70.0	56.3	70.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,598.5	70.0	56.3	70.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,698.5	70.0	56.3	70.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,798.5	70.0	56.3	70.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,898.5	70.0	56.3	70.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,998.5	70.0	56.3	70.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,098.5	70.0	56.3	70.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,198.5	70.0	56.3	70.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,298.5	70.0	56.3	70.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,398.5	70.0	56.3	70.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,498.5	70.0	56.3	70.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,598.5	70.0	56.3	70.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,698.5	70.0	56.3	70.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,798.5	70.0	56.3	70.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,898.5	70.0	56.3	70.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,998.5	70.0	56.3	70.1	0.00	0.00	0.00
7,100.0	0.00	0.00	7,098.5	70.0	56.3	70.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,198.5	70.0	56.3	70.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,298.5	70.0	56.3	70.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,398.5	70.0	56.3	70.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,498.5	70.0	56.3	70.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,598.5	70.0	56.3	70.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,698.5	70.0	56.3	70.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,798.5	70.0	56.3	70.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,898.5	70.0	56.3	70.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,998.5	70.0	56.3	70.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,098.5	70.0	56.3	70.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,198.5	70.0	56.3	70.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,298.5	70.0	56.3	70.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,398.5	70.0	56.3	70.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,498.5	70.0	56.3	70.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,598.5	70.0	56.3	70.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,698.5	70.0	56.3	70.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,798.5	70.0	56.3	70.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,898.5	70.0	56.3	70.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,998.5	70.0	56.3	70.1	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #102H	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	9,098.5	70.0	56.3	70.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,198.5	70.0	56.3	70.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,298.5	70.0	56.3	70.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,398.5	70.0	56.3	70.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,498.5	70.0	56.3	70.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,598.5	70.0	56.3	70.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,698.5	70.0	56.3	70.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,798.5	70.0	56.3	70.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,898.5	70.0	56.3	70.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,998.5	70.0	56.3	70.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,098.5	70.0	56.3	70.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,198.5	70.0	56.3	70.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,298.5	70.0	56.3	70.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,398.5	70.0	56.3	70.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,498.5	70.0	56.3	70.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,598.5	70.0	56.3	70.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,698.5	70.0	56.3	70.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,798.5	70.0	56.3	70.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,898.5	70.0	56.3	70.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,998.5	70.0	56.3	70.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,098.5	70.0	56.3	70.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,198.5	70.0	56.3	70.1	0.00	0.00	0.00
11,259.0	0.00	0.00	11,257.5	70.0	56.3	70.1	0.00	0.00	0.00
Start DLS 12.00 TFO 359.64									
11,300.0	4.92	359.64	11,298.4	71.8	56.3	71.8	12.00	12.00	0.00
11,400.0	16.92	359.64	11,396.4	90.7	56.2	90.7	12.00	12.00	0.00
11,500.0	28.92	359.64	11,488.4	129.5	55.9	129.6	12.00	12.00	0.00
11,600.0	40.92	359.64	11,570.2	186.7	55.6	186.7	12.00	12.00	0.00
11,700.0	52.92	359.64	11,638.4	259.6	55.1	259.6	12.00	12.00	0.00
11,800.0	64.92	359.64	11,689.9	345.0	54.6	345.1	12.00	12.00	0.00
11,900.0	76.92	359.64	11,722.6	439.4	54.0	439.4	12.00	12.00	0.00
12,000.0	88.92	359.64	11,734.9	538.4	53.4	538.5	12.00	12.00	0.00
12,009.0	90.00	359.64	11,735.0	547.5	53.3	547.5	12.00	12.00	0.00
Start 7381.9 hold at 12009.0 MD									
12,100.0	90.00	359.64	11,735.0	638.4	52.8	638.5	0.00	0.00	0.00
12,200.0	90.00	359.64	11,735.0	738.4	52.1	738.5	0.00	0.00	0.00
12,300.0	90.00	359.64	11,735.0	838.4	51.5	838.5	0.00	0.00	0.00
12,400.0	90.00	359.64	11,735.0	938.4	50.9	938.5	0.00	0.00	0.00
12,500.0	90.00	359.64	11,735.0	1,038.4	50.3	1,038.5	0.00	0.00	0.00
12,600.0	90.00	359.64	11,735.0	1,138.4	49.6	1,138.5	0.00	0.00	0.00
12,700.0	90.00	359.64	11,735.0	1,238.4	49.0	1,238.4	0.00	0.00	0.00
12,800.0	90.00	359.64	11,735.0	1,338.4	48.4	1,338.4	0.00	0.00	0.00
12,900.0	90.00	359.64	11,735.0	1,438.4	47.8	1,438.4	0.00	0.00	0.00
13,000.0	90.00	359.64	11,735.0	1,538.4	47.2	1,538.4	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #102H	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)
13,100.0	90.00	359.64	11,735.0	1,638.4	46.5	1,638.4	0.00	0.00	0.00
13,200.0	90.00	359.64	11,735.0	1,738.4	45.9	1,738.4	0.00	0.00	0.00
13,300.0	90.00	359.64	11,735.0	1,838.4	45.3	1,838.4	0.00	0.00	0.00
13,400.0	90.00	359.64	11,735.0	1,938.4	44.7	1,938.4	0.00	0.00	0.00
13,500.0	90.00	359.64	11,735.0	2,038.4	44.0	2,038.4	0.00	0.00	0.00
13,600.0	90.00	359.64	11,735.0	2,138.4	43.4	2,138.4	0.00	0.00	0.00
13,700.0	90.00	359.64	11,735.0	2,238.4	42.8	2,238.4	0.00	0.00	0.00
13,800.0	90.00	359.64	11,735.0	2,338.4	42.2	2,338.4	0.00	0.00	0.00
13,900.0	90.00	359.64	11,735.0	2,438.4	41.6	2,438.4	0.00	0.00	0.00
14,000.0	90.00	359.64	11,735.0	2,538.4	40.9	2,538.4	0.00	0.00	0.00
14,100.0	90.00	359.64	11,735.0	2,638.4	40.3	2,638.4	0.00	0.00	0.00
14,200.0	90.00	359.64	11,735.0	2,738.4	39.7	2,738.4	0.00	0.00	0.00
14,300.0	90.00	359.64	11,735.0	2,838.4	39.1	2,838.4	0.00	0.00	0.00
14,400.0	90.00	359.64	11,735.0	2,938.4	38.4	2,938.4	0.00	0.00	0.00
14,500.0	90.00	359.64	11,735.0	3,038.4	37.8	3,038.4	0.00	0.00	0.00
14,600.0	90.00	359.64	11,735.0	3,138.4	37.2	3,138.4	0.00	0.00	0.00
14,700.0	90.00	359.64	11,735.0	3,238.4	36.6	3,238.4	0.00	0.00	0.00
14,800.0	90.00	359.64	11,735.0	3,338.4	35.9	3,338.4	0.00	0.00	0.00
14,900.0	90.00	359.64	11,735.0	3,438.4	35.3	3,438.4	0.00	0.00	0.00
15,000.0	90.00	359.64	11,735.0	3,538.4	34.7	3,538.4	0.00	0.00	0.00
15,100.0	90.00	359.64	11,735.0	3,638.4	34.1	3,638.4	0.00	0.00	0.00
15,200.0	90.00	359.64	11,735.0	3,738.4	33.5	3,738.4	0.00	0.00	0.00
15,300.0	90.00	359.64	11,735.0	3,838.4	32.8	3,838.4	0.00	0.00	0.00
15,400.0	90.00	359.64	11,735.0	3,938.4	32.2	3,938.4	0.00	0.00	0.00
15,500.0	90.00	359.64	11,735.0	4,038.4	31.6	4,038.4	0.00	0.00	0.00
15,600.0	90.00	359.64	11,735.0	4,138.3	31.0	4,138.4	0.00	0.00	0.00
15,700.0	90.00	359.64	11,735.0	4,238.3	30.3	4,238.4	0.00	0.00	0.00
15,800.0	90.00	359.64	11,735.0	4,338.3	29.7	4,338.4	0.00	0.00	0.00
15,900.0	90.00	359.64	11,735.0	4,438.3	29.1	4,438.4	0.00	0.00	0.00
16,000.0	90.00	359.64	11,735.0	4,538.3	28.5	4,538.4	0.00	0.00	0.00
16,100.0	90.00	359.64	11,735.0	4,638.3	27.9	4,638.4	0.00	0.00	0.00
16,200.0	90.00	359.64	11,735.0	4,738.3	27.2	4,738.4	0.00	0.00	0.00
16,300.0	90.00	359.64	11,735.0	4,838.3	26.6	4,838.4	0.00	0.00	0.00
16,400.0	90.00	359.64	11,735.0	4,938.3	26.0	4,938.4	0.00	0.00	0.00
16,500.0	90.00	359.64	11,735.0	5,038.3	25.4	5,038.4	0.00	0.00	0.00
16,600.0	90.00	359.64	11,735.0	5,138.3	24.7	5,138.3	0.00	0.00	0.00
16,700.0	90.00	359.64	11,735.0	5,238.3	24.1	5,238.3	0.00	0.00	0.00
16,800.0	90.00	359.64	11,735.0	5,338.3	23.5	5,338.3	0.00	0.00	0.00
16,900.0	90.00	359.64	11,735.0	5,438.3	22.9	5,438.3	0.00	0.00	0.00
17,000.0	90.00	359.64	11,735.0	5,538.3	22.2	5,538.3	0.00	0.00	0.00
17,100.0	90.00	359.64	11,735.0	5,638.3	21.6	5,638.3	0.00	0.00	0.00
17,200.0	90.00	359.64	11,735.0	5,738.3	21.0	5,738.3	0.00	0.00	0.00
17,300.0	90.00	359.64	11,735.0	5,838.3	20.4	5,838.3	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #102H	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)
17,400.0	90.00	359.64	11,735.0	5,938.3	19.8	5,938.3	0.00	0.00	0.00
17,500.0	90.00	359.64	11,735.0	6,038.3	19.1	6,038.3	0.00	0.00	0.00
17,600.0	90.00	359.64	11,735.0	6,138.3	18.5	6,138.3	0.00	0.00	0.00
17,700.0	90.00	359.64	11,735.0	6,238.3	17.9	6,238.3	0.00	0.00	0.00
17,800.0	90.00	359.64	11,735.0	6,338.3	17.3	6,338.3	0.00	0.00	0.00
17,900.0	90.00	359.64	11,735.0	6,438.3	16.6	6,438.3	0.00	0.00	0.00
18,000.0	90.00	359.64	11,735.0	6,538.3	16.0	6,538.3	0.00	0.00	0.00
18,100.0	90.00	359.64	11,735.0	6,638.3	15.4	6,638.3	0.00	0.00	0.00
18,200.0	90.00	359.64	11,735.0	6,738.3	14.8	6,738.3	0.00	0.00	0.00
18,300.0	90.00	359.64	11,735.0	6,838.3	14.2	6,838.3	0.00	0.00	0.00
18,400.0	90.00	359.64	11,735.0	6,938.3	13.5	6,938.3	0.00	0.00	0.00
18,500.0	90.00	359.64	11,735.0	7,038.3	12.9	7,038.3	0.00	0.00	0.00
18,600.0	90.00	359.64	11,735.0	7,138.3	12.3	7,138.3	0.00	0.00	0.00
18,700.0	90.00	359.64	11,735.0	7,238.3	11.7	7,238.3	0.00	0.00	0.00
18,800.0	90.00	359.64	11,735.0	7,338.3	11.0	7,338.3	0.00	0.00	0.00
18,900.0	90.00	359.64	11,735.0	7,438.3	10.4	7,438.3	0.00	0.00	0.00
19,000.0	90.00	359.64	11,735.0	7,538.3	9.8	7,538.3	0.00	0.00	0.00
19,100.0	90.00	359.64	11,735.0	7,638.3	9.2	7,638.3	0.00	0.00	0.00
19,200.0	90.00	359.64	11,735.0	7,738.3	8.5	7,738.3	0.00	0.00	0.00
19,300.0	90.00	359.64	11,735.0	7,838.3	7.9	7,838.3	0.00	0.00	0.00
19,390.9	90.00	359.64	11,735.0	7,929.2	7.4	7,929.2	0.00	0.00	0.00

TD at 19390.9

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 - plan misses target center by 40.9usft at 19300.0usft MD (11735.0 TVD, 7838.3 N, 7.9 E) - Point	0.00	0.00	11,735.0	7,879.2	7.7	382,437.74	697,894.22	32° 2' 59.378 N	103° 41' 40.611 W
PBHL(ZIA HILLS 20 F - plan hits target center - Rectangle (sides W100.0 H7,650.0 D20.0)	0.00	179.64	11,735.0	7,929.2	7.4	382,487.74	697,893.86	32° 2' 59.873 N	103° 41' 40.612 W
FTP(ZIA HILLS 20 FE - plan misses target center by 48.7usft at 11800.0usft MD (11689.9 TVD, 345.0 N, 54.6 E) - Circle (radius 50.0)	0.00	0.00	11,735.0	326.7	55.3	374,885.24	697,941.83	32° 1' 44.635 N	103° 41' 40.577 W

ConocoPhillips
Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #102H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.1usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.1usft (N 894)
Well:	ZIA HILLS 20 FED COM #102H	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)	
2000	2000	0	0	Start Build 2.00
2100	2100	1	1	Start 2424.0 hold at 2100.0 MD
4524	4522	67	54	Start Drop -1.00
4724	4722	70	56	Start 6535.0 hold at 4724.0 MD
11,259	11,258	70	56	Start DLS 12.00 TFO 359.64
12,009	11,735	547	53	Start 7381.9 hold at 12009.0 MD
19,391	11,735	7929	7	TD at 19390.9

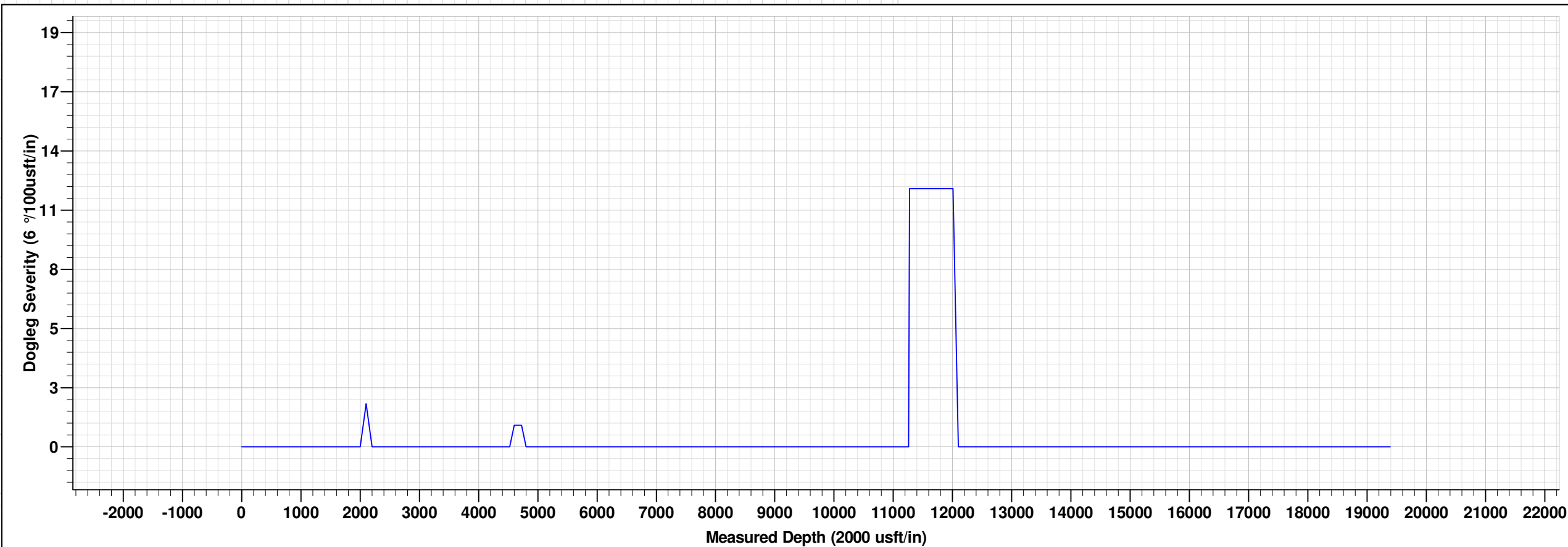
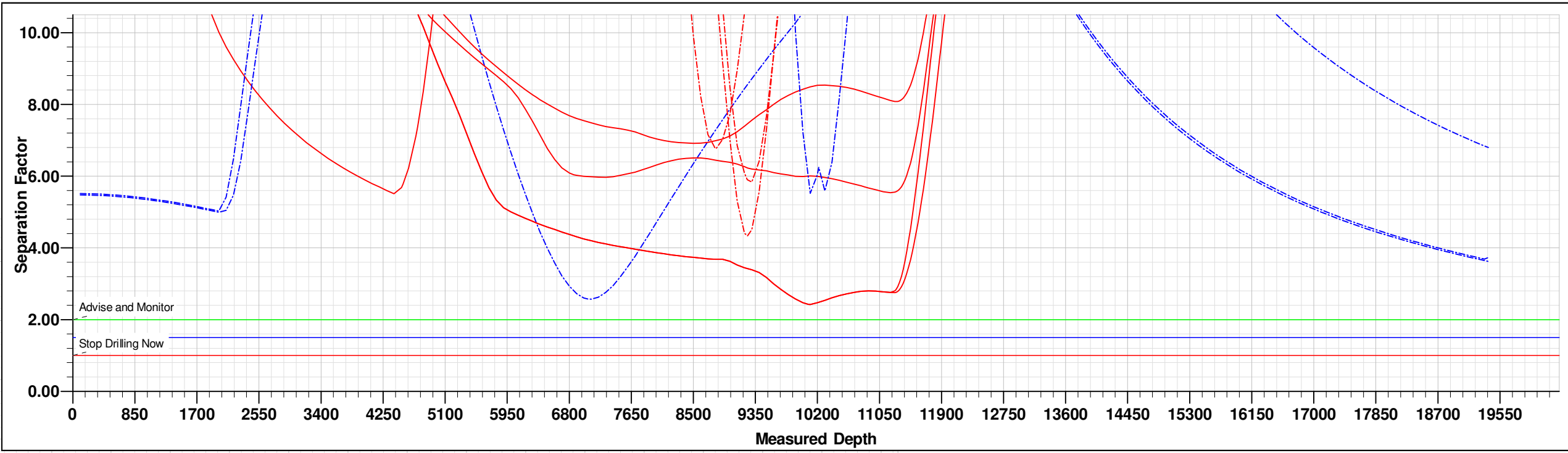
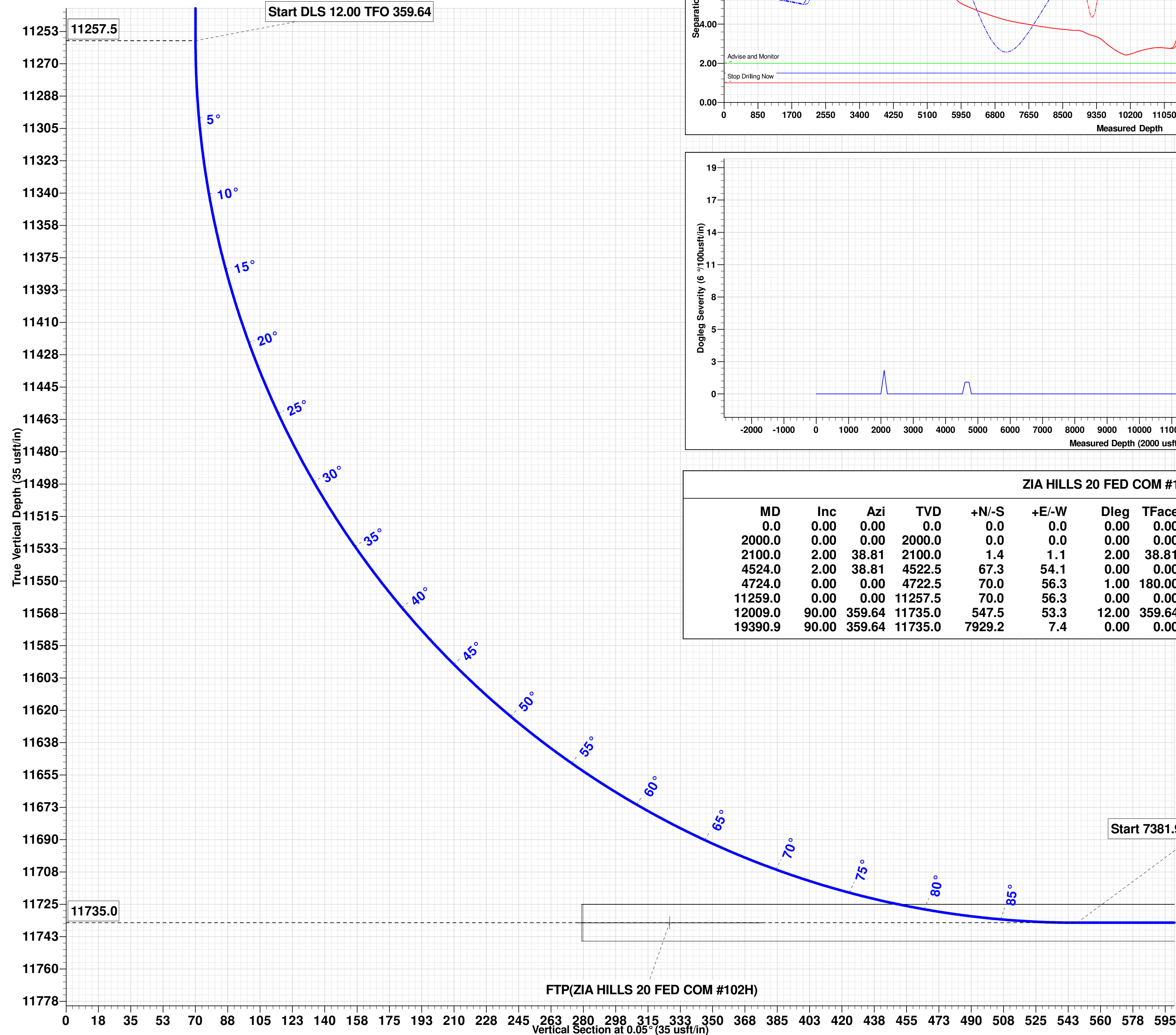
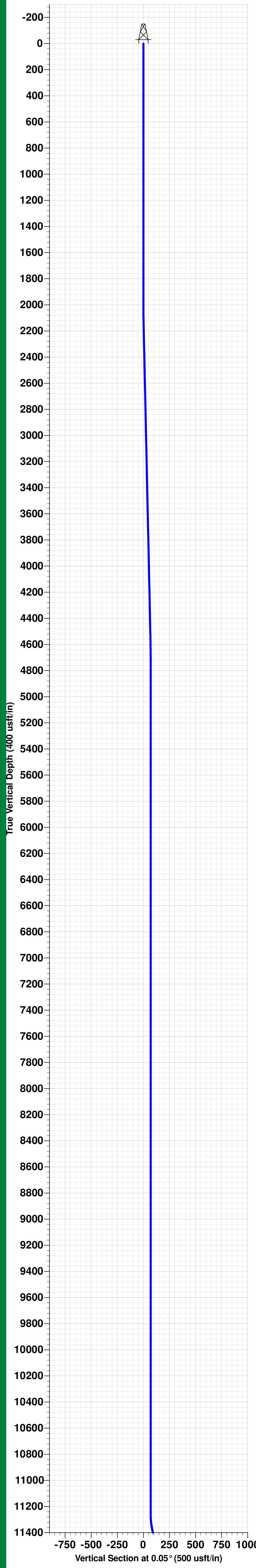
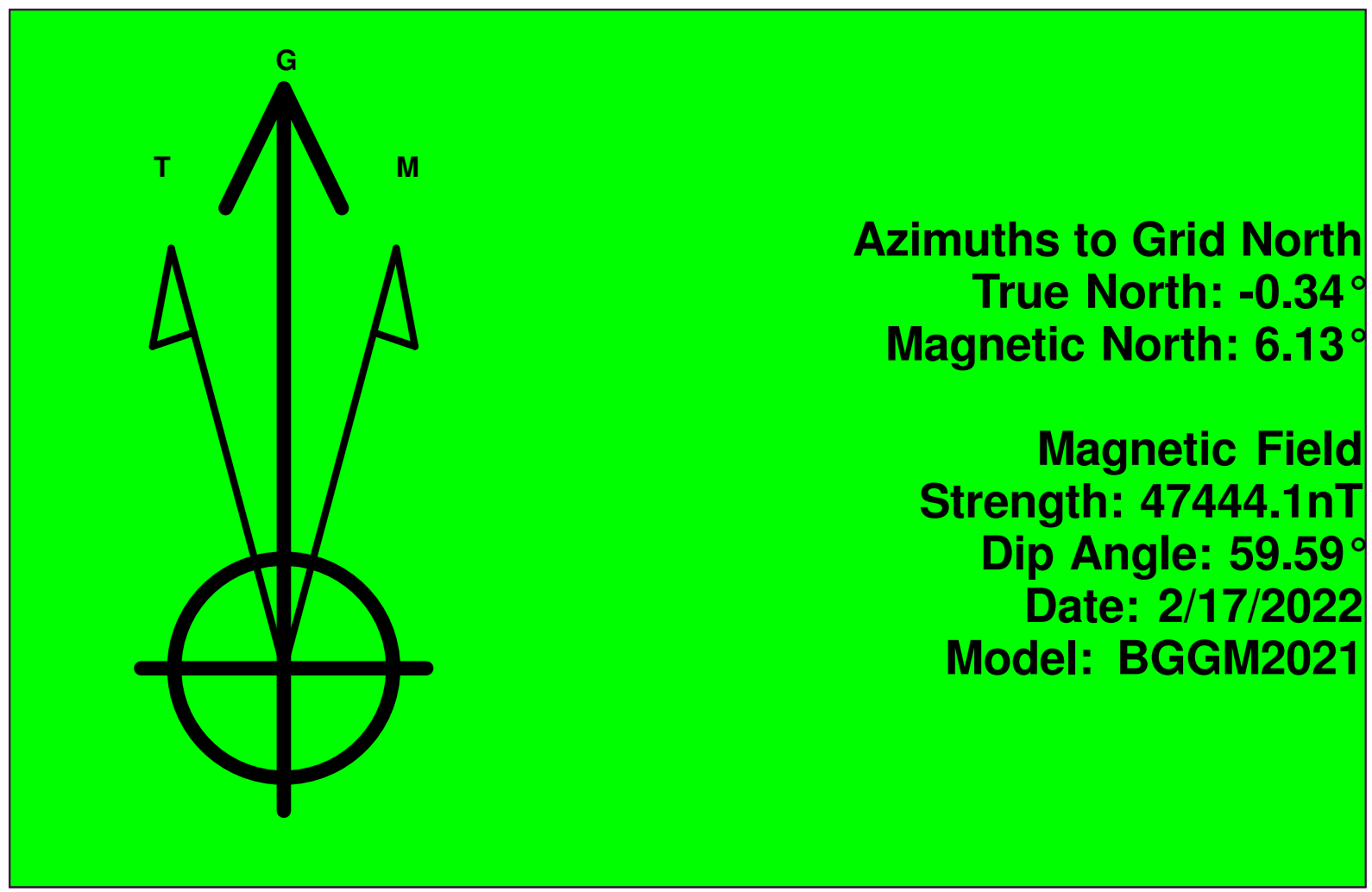
Checked By: _____	Approved By: _____	Date: _____
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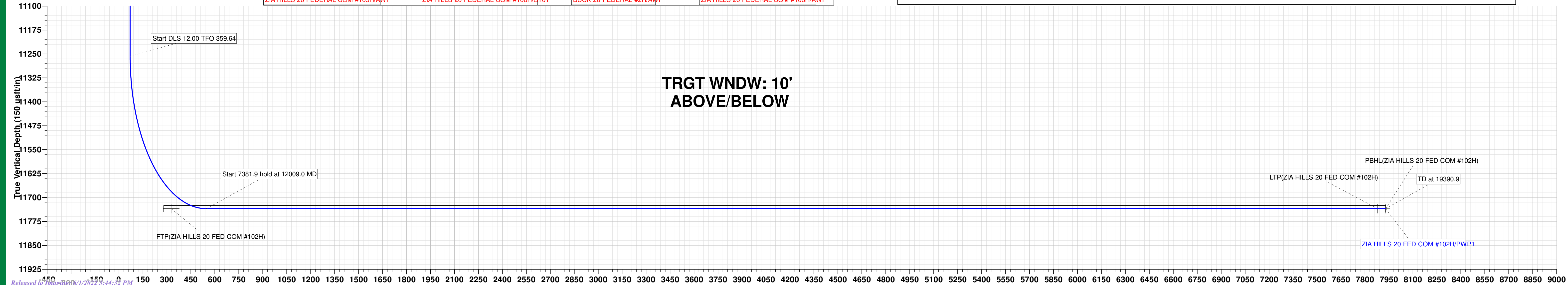
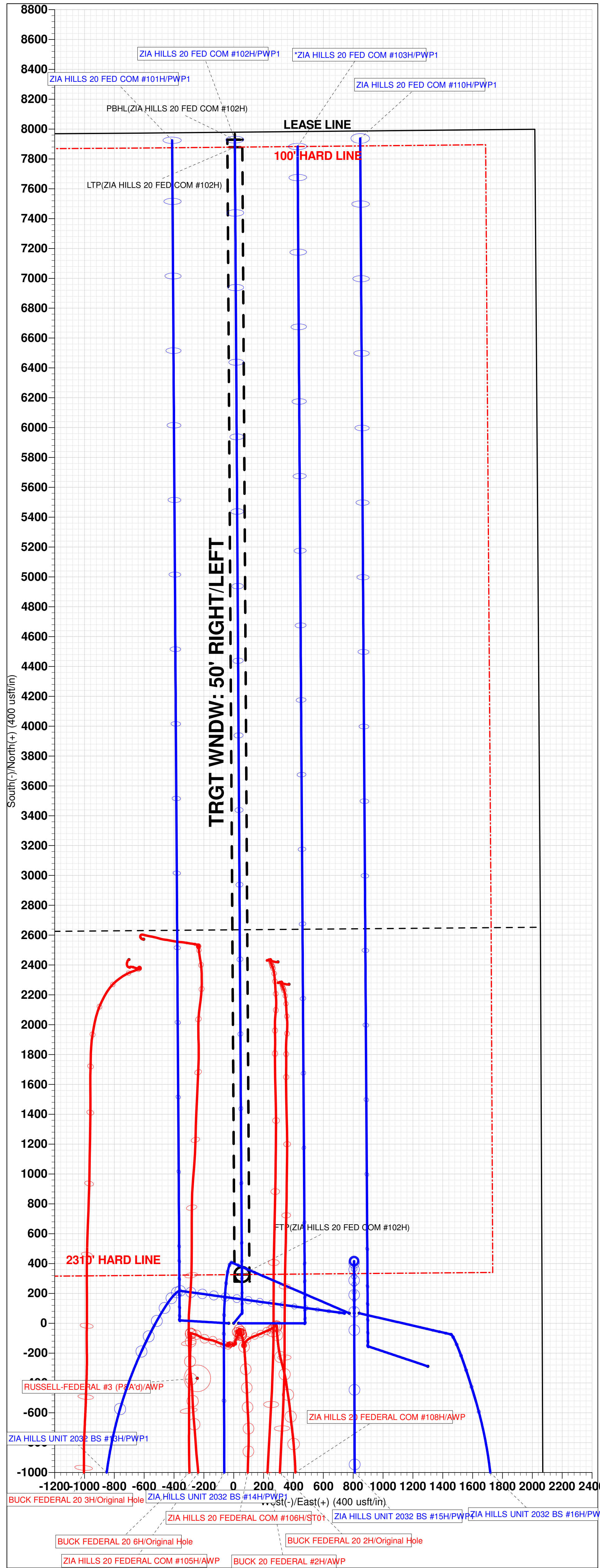
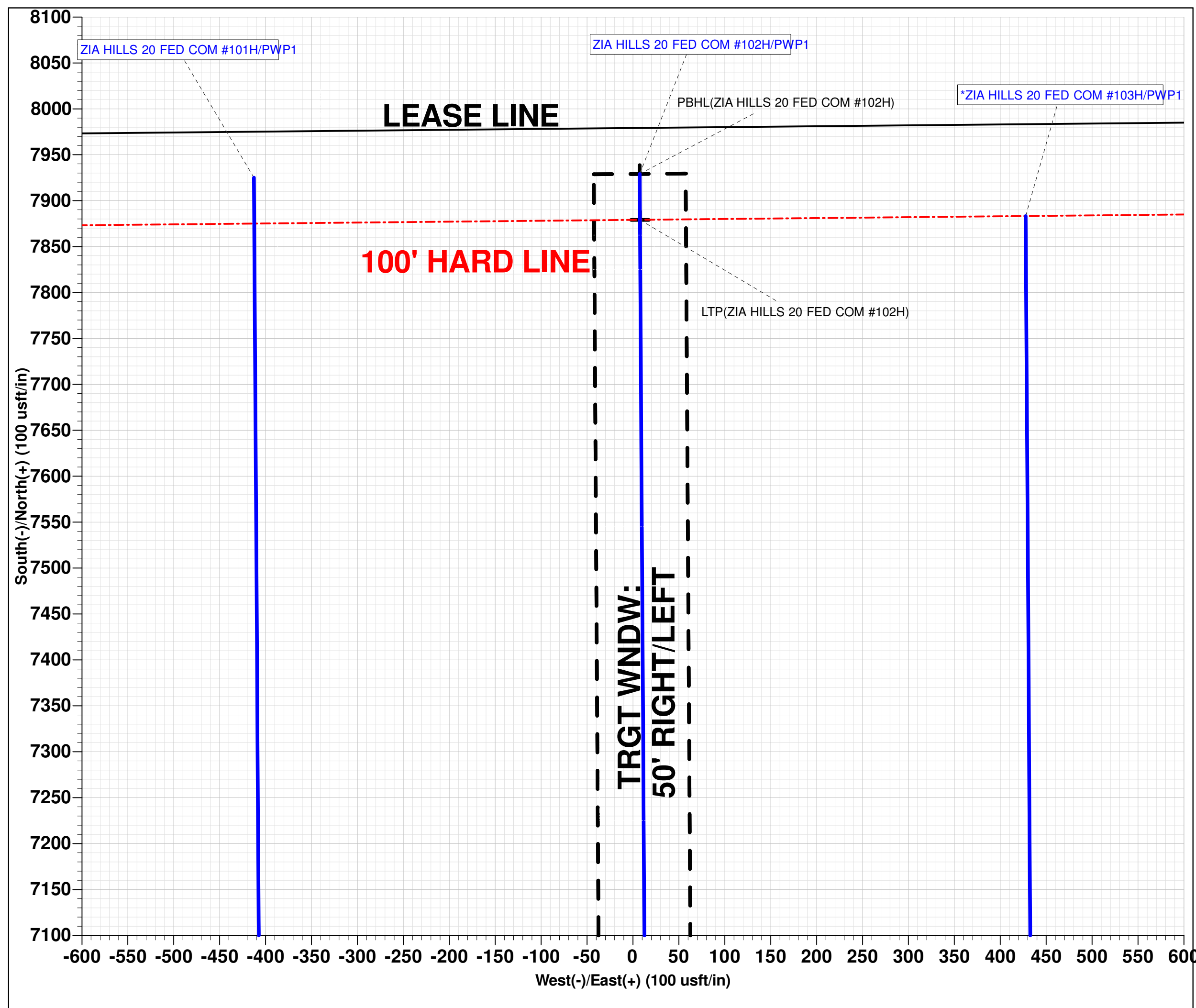
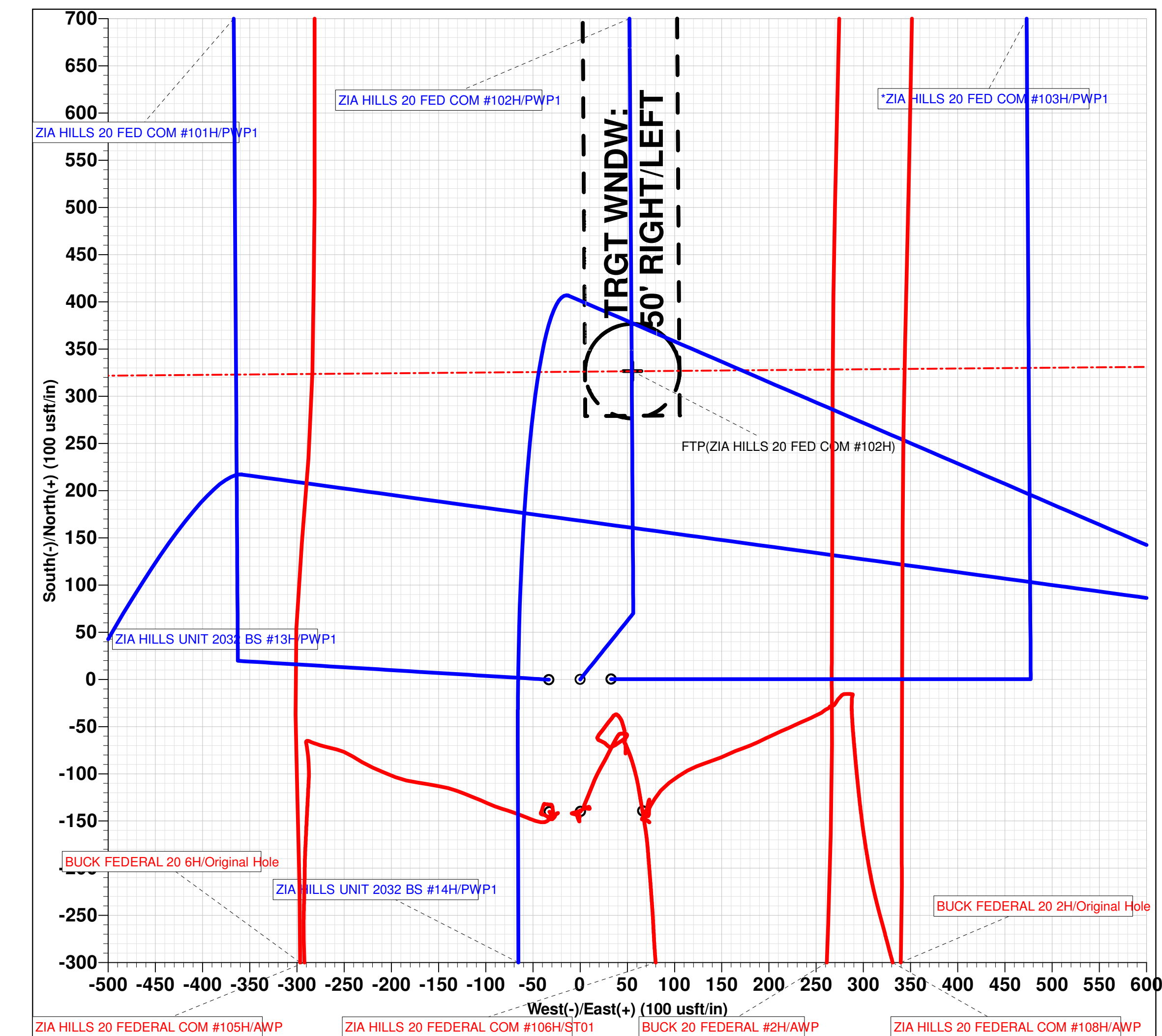
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS 20 FED COM PROJECT
Well: ZIA HILLS 20 FED COM #102H
Wellbore: OWB
Design: PWP1
GL: 3155.1
KB=31' @ 3186.1usft (N 894)

WELL DETAILS: ZIA HILLS 20 FED COM #102H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374558.55	697886.50	32° 1' 41.405 N	103° 41' 41.242 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP(ZIA HILLS 20 FED COM #102H)	11735.0	326.7	55.3	374885.24	697941.83	32° 1' 44.635 N
LTP(ZIA HILLS 20 FED COM #102H)	11735.0	7879.2	7.7	382437.74	697894.22	32° 2' 59.378 N
PBHL(ZIA HILLS 20 FED COM #102H)	11735.0	7929.2	7.4	382487.74	697893.86	32° 2' 59.873 N



ZIA HILLS 20 FED COM #102H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2100.0	2.00	38.81	2100.0	1.4	1.1	2.00	38.81	1.4	Start 2424.0 hold at 2100.0 MD
4524.0	2.00	38.81	4522.5	67.3	54.1	0.00	0.00	67.3	Start Drop -1.00
4724.0	0.00	0.00	4722.5	70.0	56.3	1.00	180.00	70.1	Start 6535.0 hold at 4724.0 MD
11259.0	0.00	0.00	11257.5	70.0	56.3	0.00	0.00	70.1	Start DLS 12.00 TFO 359.64
12009.0	90.00	359.64	11735.0	547.5	53.3	12.00	359.64	547.5	Start 7381.9 hold at 12009.0 MD
19390.9	90.00	359.64	11735.0	7929.2	7.4	0.00	0.00	7929.2	TD at 19390.9



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 109619

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 109619
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	6/1/2022