

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 / 2100 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.028294 / LONG: -103.695367 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2577 FNL / 2640 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.028454 / LONG: -103.697109 (TVD: 11633 feet, MD: 11750 feet)

BHL: NWNE / 50 FNL / 2640 FEL / TWSP: 26S / RANGE: 32E / SECTION: 17 / LAT: 32.050083 / LONG: -103.697119 (TVD: 11715 feet, MD: 19375 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 30-015-45711	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code	5 Property Name ZIA HILLS 20 FED COM	6 Well Number 101H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3155.9'

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	2100'	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	2430'	EAST	LEA

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

16 CORNER DATA NEW MEXICO EAST - NAD 83 A - FOUND IRON PIPE W/ BRASS CAP N:382570.93' E:735744.95' B - FOUND IRON PIPE W/ BRASS CAP N:382588.66' E:738419.49' C - FOUND IRON PIPE W/ BRASS CAP N:382614.65' E:741090.20' D - FOUND IRON PIPE W/ BRASS CAP N:379941.58' E:741109.60' E - FOUND IRON PIPE W/ BRASS CAP N:377269.22' E:741128.24' F - FOUND IRON PIPE W/ BRASS CAP N:374596.59' E:741140.55' G - FOUND IRON PIPE W/ BRASS CAP N:371924.06' E:741150.79' H - FOUND IRON PIPE W/ BRASS CAP N:371901.14' E:738488.27' I - FOUND IRON PIPE W/ BRASS CAP N:371879.35' E:735833.03' J - FOUND IRON PIPE W/ BRASS CAP N:374544.72' E:735819.04' K - FOUND IRON PIPE W/ BRASS CAP N:377224.61' E:735795.66' L - FOUND IRON PIPE W/ BRASS CAP N:379892.50' E:735778.31' M - FOUND IRON PIPE W/ BRASS CAP N:377246.91' E:738461.95' SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=739040.53 LAT.= 32.02829322° N Y=374615.47 LONG.= -103.69536690° W 2637' FNL, 2100' FEL - SECTION 20 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=738708.95 LAT.= 32.02918765° N Y=374938.90 LONG.= -103.69643068° W 2310' FNL, 2430' FEL - SECTION 20 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=738661.03 LAT.= 32.04994780° N Y=382491.01 LONG.= -103.69644159° W 100' FNL, 2430' FEL - SECTION 17 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=738660.67 LAT.= 32.05008524° N Y=382541.01 LONG.= -103.69644180° W 50' FNL, 2430' FEL - SECTION 17	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stan Wagner</i> 4/11/22 Signature Date Stan Wagner Printed Name E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. _____ Date of Survey <i>Mark J. Murray</i> Signature and Seal of Professional Surveyor MARK J. MURRAY NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 12177 3/18/2022 Certificate Number
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ConocoPhillips - Zia Hills 20 Fed Com 101H

1. Geologic Formations

TVD of target	11,895' EOL	Pilot hole depth	NA
MD at TD:	19,609'	Deepest expected fresh water:	405'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1115	Water	
Top of Salt	1437	Salt	
Base of Salt	4102	Salt	
Lamar	4304	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	9322	Oil/Gas	
2nd Bone Spring Sand	9984	Oil/Gas	
3rd Bone Spring Carb	10380	Oil/Gas	
3rd Bone Spring Sand	11122	Oil/Gas	
Wolfcamp	11555	Oil/Gas	
Wolfcamp A	11755	Target - Oil/Gas	
Wolfcamp B	12080	Not Penetrated	Abnormal Press.

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1387	10.75"	45.5	J55	BTC	3.29	1.14	12.61	12.61
9.875"	0	8500	7.625"	29.7	L80	BTC	1.48	1.05	2.71	2.85
8.750"	8500	11072	7.625"	29.7	P110	Wedge 513	1.42	1.49	2.86	1.72
6.75"	0	10872	5.5"	23	P110	TXP BTC	1.88	2.22	2.66	2.66
6.75"	10872	19,609	5.5"	23	P110	Wedge 441	1.88	2.22	2.66	2.42
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

The 5.5" 23# Wedge 441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

ConocoPhillips - Zia Hills 20 Fed Com 101H

	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 101H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	661	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	505	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	824	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	8,000'	35% OH in Lateral (KOP to EOL)

ConocoPhillips - Zia Hills 20 Fed Com 101H

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 101H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	12 - 12.5	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips - Zia Hills 20 Fed Com 101H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7735 psi at 11895' 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 #101H

OWB

PWP1

Anticollision Report

05 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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	11,431.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,431.0	19,609.5	PWP1 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	2,000.0	1,999.2	65.9	59.4	10.022	CC, ES
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	19,609.5	19,608.0	841.4	719.0	6.875	SF
ZIA HILLS 20 FED COM #102H - OWB - PWP1	2,000.0	1,999.2	33.1	26.5	5.028	CC, ES
ZIA HILLS 20 FED COM #102H - OWB - PWP1	19,609.5	19,389.4	449.2	325.2	3.624	SF
ZIA HILLS 20 FED COM #110H - OWB - PWP1						Out of range
ZIA HILLS 20 FED COM #111H - OWB - PWP1						Out of range
ZIA HILLS 20 FED COM #112H - OWB - PWP1						Out of range
ZIA HILLS 20 FED COM #114H - OWB - PWP1						Out of range
ZIA HILLS 20 FED COM #115H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2032 PROJECT						
BUCK 17 FEDERAL #2H - OWB - AWP						Out of range
BUCK 17 FEDERAL #5H - OWB - AWP						Out of range
BUCK 20 FEDERAL #1H - OWB - AWP						Out of range
BUCK 20 FEDERAL #2H - OWB - AWP	9,254.8	11,320.8	629.2	578.9	12.500	CC, ES, SF
BUCK 20 FEDERAL #5H - OWB - AWP						Out of range
PADUCA BREAKS 32 26 32 STATE #1H - OWB - AWP						Out of range
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	4,280.2	4,260.2	380.5	289.3	4.174	CC
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	4,400.0	4,379.6	380.6	286.9	4.064	ES, SF
WILDER 29 FED #1H - OWB - AWP						Out of range
WILDER 29 FED #5H - OWB - AWP						Out of range
WILDER FEDERAL 29 #2H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	10,950.8	10,949.2	112.0	64.7	2.370	CC
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	11,000.0	10,998.2	112.0	64.5	2.360	ES
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	11,100.0	11,096.7	112.7	64.8	2.353	SF
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	209.5	208.2	143.5	137.5	23.890	CC, ES
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	11,525.0	11,513.6	422.8	375.4	8.921	SF
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	209.5	208.2	143.5	137.5	23.890	CC, ES
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	11,300.0	11,259.0	422.7	376.4	9.116	SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	1,526.9	1,526.0	165.5	156.1	17.759	CC, ES
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	11,400.0	11,365.6	655.9	609.0	13.982	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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	19,609.5	19,608.0	841.4	719.0	6.875 SF	
ZIA HILLS 20 FED COM #102H - OWB - PWP1	19,609.5	19,389.4	449.2	325.2	3.624 SF	
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,609.5	19,635.4				Out of Range @TD
ZIA HILLS 20 FED COM #111H - OWB - PWP1	19,609.5	19,913.7				Out of Range @TD
ZIA HILLS 20 FED COM #112H - OWB - PWP1	19,609.5	19,638.1				Out of Range @TD
ZIA HILLS 20 FED COM #114H - OWB - PWP1	19,609.5	11,275.0				Out of Range @TD
ZIA HILLS 20 FED COM #115H - OWB - PWP1	19,609.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
BUCK 17 FEDERAL #2H - OWB - AWP	19,609.5	12,845.0				Out of Range @TD
BUCK 17 FEDERAL #5H - OWB - AWP	19,609.5	14,446.0				Out of Range @TD
BUCK 20 FEDERAL #1H - OWB - AWP	19,609.5	8,832.0				Out of Range @TD
BUCK 20 FEDERAL #2H - OWB - AWP	19,609.5	8,941.0				Out of Range @TD
BUCK 20 FEDERAL #5H - OWB - AWP	19,609.5	8,454.1				Out of Range @TD
PADUCA BREAKS 32 26 32 STATE #1H - OWB - AWP	19,609.5	10,707.0				Out of Range @TD
RUSSELL-FEDERAL #3 (P&A'd) - OWB - AWP	19,609.5	4,400.0				Out of Range @TD
WILDER 29 FED #1H - OWB - AWP	19,609.5	8,787.0				Out of Range @TD
WILDER 29 FED #5H - OWB - AWP	19,609.5	8,921.0				Out of Range @TD
WILDER FEDERAL 29 #2H - OWB - AWP	19,609.5	8,774.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	19,609.5	11,211.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	19,609.5	11,780.2				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - ST01 - ST01	19,609.5	11,259.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	19,609.5	11,211.0				Out of Range @TD

Offset Design: ZIA HILLS 20 FED COM PROJECT - *ZIA HILLS 20 FED COM #103H - OWB - PWP1											
										Offset Site Error:	0.0 usft
										Offset Well Error:	3.0 usft
Survey Program:	0-Standard Keeper 104, 11452-MWD+IFR1+MS										
Reference	Vertical	Offset	Semi Major Axis	Offset Wellbore Centre		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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)
0.0	0.0	0.0	0.0	3.0	3.0	89.46	0.6	65.9	65.9	59.9	6.00
100.0	100.0	99.2	99.2	3.0	3.0	89.46	0.6	65.9	65.9	59.9	6.00
200.0	200.0	199.2	199.2	3.0	3.0	89.46	0.6	65.9	65.9	59.9	6.01
300.0	300.0	299.2	299.2	3.0	3.0	89.46	0.6	65.9	65.9	59.9	6.02
400.0	400.0	399.2	399.2	3.0	3.0	89.46	0.6	65.9	65.9	59.9	6.03
500.0	500.0	499.2	499.2	3.1	3.1	89.46	0.6	65.9	65.9	59.9	6.05
600.0	600.0	599.2	599.2	3.1	3.1	89.46	0.6	65.9	65.9	59.9	6.06
700.0	700.0	699.2	699.2	3.1	3.1	89.46	0.6	65.9	65.9	59.9	6.09
800.0	800.0	799.2	799.2	3.2	3.2	89.46	0.6	65.9	65.9	59.9	10.834

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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)				
900.0	900.0	899.2	899.2	3.2	3.2	89.46	0.6	65.9	65.9	59.8	6.11	10.789		
1,000.0	1,000.0	999.2	999.2	3.2	3.2	89.46	0.6	65.9	65.9	59.8	6.14	10.740		
1,100.0	1,100.0	1,099.2	1,099.2	3.3	3.3	89.46	0.6	65.9	65.9	59.8	6.17	10.686		
1,200.0	1,200.0	1,199.2	1,199.2	3.4	3.4	89.46	0.6	65.9	65.9	59.7	6.21	10.627		
1,300.0	1,300.0	1,299.2	1,299.2	3.4	3.4	89.46	0.6	65.9	65.9	59.7	6.24	10.564		
1,400.0	1,400.0	1,399.2	1,399.2	3.5	3.5	89.46	0.6	65.9	65.9	59.7	6.28	10.496		
1,500.0	1,500.0	1,499.2	1,499.2	3.5	3.5	89.46	0.6	65.9	65.9	59.6	6.33	10.425		
1,600.0	1,600.0	1,599.2	1,599.2	3.6	3.6	89.46	0.6	65.9	65.9	59.6	6.37	10.351		
1,700.0	1,700.0	1,699.2	1,699.2	3.7	3.7	89.46	0.6	65.9	65.9	59.5	6.42	10.273		
1,800.0	1,800.0	1,799.2	1,799.2	3.8	3.8	89.46	0.6	65.9	65.9	59.5	6.47	10.192		
1,900.0	1,900.0	1,899.2	1,899.2	3.9	3.9	89.46	0.6	65.9	65.9	59.4	6.52	10.108		
2,000.0	2,000.0	1,999.2	1,999.2	3.9	3.9	89.46	0.6	65.9	65.9	59.4	6.58	10.022 CC, ES		
2,100.0	2,100.0	2,096.9	2,096.8	4.0	4.0	176.09	0.6	67.6	69.4	62.7	6.64	10.451		
2,200.0	2,199.8	2,193.8	2,193.7	4.0	4.0	176.36	0.6	72.5	79.6	72.9	6.70	11.889		
2,250.0	2,249.7	2,241.8	2,241.5	4.0	4.0	176.51	0.6	76.1	87.3	80.6	6.73	12.972		
2,300.0	2,299.5	2,289.5	2,289.0	4.1	4.0	176.67	0.6	80.6	96.3	89.5	6.77	14.228		
2,400.0	2,399.1	2,385.3	2,384.1	4.1	4.1	176.89	0.6	91.6	116.4	109.5	6.85	17.002		
2,500.0	2,498.7	2,483.1	2,481.2	4.1	4.1	177.06	0.6	103.5	137.2	130.2	6.94	19.767		
2,600.0	2,598.4	2,580.9	2,578.3	4.2	4.2	177.18	0.6	115.4	158.0	150.9	7.04	22.433		
2,700.0	2,698.0	2,678.7	2,675.4	4.2	4.2	177.27	0.6	127.4	178.7	171.6	7.15	24.997		
2,800.0	2,797.6	2,776.5	2,772.5	4.3	4.3	177.34	0.6	139.3	199.5	192.2	7.27	27.456		
2,900.0	2,897.2	2,874.3	2,869.6	4.4	4.3	177.40	0.6	151.2	220.3	212.9	7.39	29.809		
3,000.0	2,996.8	2,972.2	2,966.7	4.4	4.4	177.45	0.6	163.1	241.1	233.6	7.52	32.057		
3,100.0	3,096.4	3,070.0	3,063.7	4.5	4.4	177.49	0.6	175.0	261.9	254.2	7.66	34.200		
3,200.0	3,196.1	3,167.8	3,160.8	4.5	4.5	177.52	0.6	187.0	282.6	274.8	7.80	36.241		
3,300.0	3,295.7	3,265.6	3,257.9	4.6	4.6	177.55	0.6	198.9	303.4	295.5	7.95	38.181		
3,400.0	3,395.3	3,363.4	3,355.0	4.7	4.6	177.58	0.6	210.8	324.2	316.1	8.10	40.023		
3,500.0	3,494.9	3,461.2	3,452.1	4.8	4.7	177.60	0.6	222.7	345.0	336.7	8.26	41.772		
3,600.0	3,594.5	3,559.1	3,549.2	4.8	4.8	177.62	0.6	234.6	365.8	357.3	8.42	43.430		
3,700.0	3,694.2	3,656.9	3,646.3	4.9	4.9	177.64	0.6	246.6	386.5	378.0	8.59	45.001		
3,800.0	3,793.8	3,754.7	3,743.4	5.0	4.9	177.66	0.6	258.5	407.3	398.6	8.76	46.490		
3,900.0	3,893.4	3,852.5	3,840.4	5.1	5.0	177.67	0.6	270.4	428.1	419.2	8.94	47.899		
4,000.0	3,993.0	3,950.3	3,937.5	5.2	5.1	177.69	0.6	282.3	448.9	439.8	9.12	49.233		
4,100.0	4,092.6	4,048.1	4,034.6	5.3	5.2	177.70	0.6	294.2	469.7	460.4	9.30	50.496		
4,200.0	4,192.3	4,146.0	4,131.7	5.3	5.3	177.71	0.6	306.2	490.5	481.0	9.49	51.691		
4,300.0	4,291.9	4,243.8	4,228.8	5.4	5.4	177.72	0.6	318.1	511.2	501.6	9.68	52.823		
4,400.0	4,391.5	4,341.6	4,325.9	5.5	5.5	177.73	0.6	330.0	532.0	522.1	9.87	53.895		
4,500.0	4,491.1	4,439.4	4,423.0	5.6	5.6	177.74	0.6	341.9	552.8	542.7	10.07	54.909		
4,600.0	4,590.7	4,537.2	4,520.1	5.7	5.6	177.75	0.6	353.8	573.6	563.3	10.27	55.870		
4,700.0	4,690.4	4,635.0	4,617.1	5.8	5.7	177.75	0.6	365.8	594.4	583.9	10.47	56.781		
4,800.0	4,790.0	4,732.9	4,714.2	5.9	5.8	177.76	0.6	377.7	615.1	604.5	10.67	57.644		
4,900.0	4,889.6	4,830.7	4,811.3	6.0	5.9	177.77	0.6	389.6	635.9	625.0	10.88	58.462		
5,000.0	4,989.2	4,928.5	4,908.4	6.1	6.0	177.77	0.6	401.5	656.7	645.6	11.09	59.238		
5,100.0	5,088.8	5,026.3	5,005.5	6.2	6.1	177.78	0.6	413.5	677.5	666.2	11.30	59.974		
5,200.0	5,188.5	5,124.1	5,102.6	6.3	6.2	177.79	0.6	425.4	698.3	686.8	11.51	60.672		
5,300.0	5,288.1	5,221.9	5,199.7	6.4	6.3	177.79	0.6	437.3	719.1	707.3	11.72	61.336		
5,400.0	5,387.7	5,319.8	5,296.8	6.5	6.4	177.80	0.6	449.2	739.8	727.9	11.94	61.966		
5,500.0	5,487.3	5,417.6	5,393.8	6.6	6.6	177.80	0.6	461.1	760.6	748.5	12.16	62.566		
5,600.0	5,586.9	5,522.3	5,497.8	6.7	6.7	177.81	0.6	473.7	781.2	768.8	12.38	63.115		
5,662.3	5,649.0	5,593.2	5,568.3	6.8	6.7	177.81	0.6	481.3	793.2	780.7	12.52	63.372		
5,700.0	5,686.6	5,636.2	5,611.1	6.8	6.8	177.82	0.6	485.4	800.0	787.4	12.60	63.482		
5,800.0	5,786.3	5,751.2	5,725.7	7.0	6.9	177.83	0.6	495.0	815.5	802.7	12.83	63.553		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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	Highside	Offset Wellbore Centre		Distance	Rule Assigned:						
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
5,900.0	5,886.2	5,867.2	5,841.4	7.1	7.0	177.84	0.6	502.3	827.2	814.2	13.07	63.314	
6,000.0	5,986.1	5,983.7	5,957.9	7.2	7.1	177.84	0.6	507.4	835.2	821.9	13.30	62.779	
6,100.0	6,086.1	6,100.8	6,074.9	7.3	7.3	177.85	0.6	510.0	839.5	825.9	13.55	61.961	
6,162.3	6,148.4	6,173.8	6,147.9	7.3	7.3	91.32	0.6	510.4	840.2	826.5	13.65	61.530	
6,164.5	6,150.6	6,176.3	6,150.5	7.3	7.3	91.32	0.6	510.4	840.2	826.5	13.66	61.516	
6,200.0	6,186.1	6,211.1	6,185.3	7.4	7.4	91.32	0.6	510.4	840.2	826.5	13.69	61.387	
6,300.0	6,286.1	6,311.1	6,285.3	7.4	7.4	91.32	0.6	510.4	840.2	826.4	13.77	60.998	
6,400.0	6,386.1	6,411.1	6,385.3	7.5	7.5	91.32	0.6	510.4	840.2	826.3	13.86	60.609	
6,500.0	6,486.1	6,511.1	6,485.3	7.6	7.6	91.32	0.6	510.4	840.2	826.2	13.95	60.222	
6,600.0	6,586.1	6,611.1	6,585.3	7.7	7.7	91.32	0.6	510.4	840.2	826.1	14.04	59.837	
6,700.0	6,686.1	6,711.1	6,685.3	7.8	7.8	91.32	0.6	510.4	840.2	826.0	14.13	59.453	
6,800.0	6,786.1	6,811.1	6,785.3	7.9	7.9	91.32	0.6	510.4	840.2	825.9	14.22	59.070	
6,900.0	6,886.1	6,911.1	6,885.3	8.0	8.0	91.32	0.6	510.4	840.2	825.8	14.32	58.689	
7,000.0	6,986.1	7,011.1	6,985.3	8.1	8.1	91.32	0.6	510.4	840.2	825.8	14.41	58.310	
7,100.0	7,086.1	7,111.1	7,085.3	8.2	8.2	91.32	0.6	510.4	840.2	825.7	14.50	57.933	
7,200.0	7,186.1	7,211.1	7,185.3	8.3	8.2	91.32	0.6	510.4	840.2	825.6	14.60	57.558	
7,300.0	7,286.1	7,311.1	7,285.3	8.4	8.3	91.32	0.6	510.4	840.2	825.5	14.69	57.185	
7,400.0	7,386.1	7,411.1	7,385.3	8.4	8.4	91.32	0.6	510.4	840.2	825.4	14.79	56.814	
7,500.0	7,486.1	7,511.1	7,485.3	8.5	8.5	91.32	0.6	510.4	840.2	825.3	14.88	56.445	
7,600.0	7,586.1	7,611.1	7,585.3	8.6	8.6	91.32	0.6	510.4	840.2	825.2	14.98	56.078	
7,700.0	7,686.1	7,711.1	7,685.3	8.7	8.7	91.32	0.6	510.4	840.2	825.1	15.08	55.714	
7,800.0	7,786.1	7,811.1	7,785.3	8.8	8.8	91.32	0.6	510.4	840.2	825.0	15.18	55.352	
7,900.0	7,886.1	7,911.1	7,885.3	8.9	8.9	91.32	0.6	510.4	840.2	824.9	15.28	54.992	
8,000.0	7,986.1	8,011.1	7,985.3	9.0	9.0	91.32	0.6	510.4	840.2	824.8	15.38	54.635	
8,100.0	8,086.1	8,111.1	8,085.3	9.1	9.1	91.32	0.6	510.4	840.2	824.7	15.48	54.280	
8,200.0	8,186.1	8,211.1	8,185.3	9.2	9.2	91.32	0.6	510.4	840.2	824.6	15.58	53.927	
8,300.0	8,286.1	8,311.1	8,285.3	9.4	9.3	91.32	0.6	510.4	840.2	824.5	15.68	53.577	
8,400.0	8,386.1	8,411.1	8,385.3	9.5	9.4	91.32	0.6	510.4	840.2	824.4	15.78	53.230	
8,500.0	8,486.1	8,511.1	8,485.3	9.6	9.5	91.32	0.6	510.4	840.2	824.3	15.89	52.885	
8,600.0	8,586.1	8,611.1	8,585.3	9.7	9.6	91.32	0.6	510.4	840.2	824.2	15.99	52.543	
8,700.0	8,686.1	8,711.1	8,685.3	9.8	9.7	91.32	0.6	510.4	840.2	824.1	16.09	52.204	
8,800.0	8,786.1	8,811.1	8,785.3	9.9	9.9	91.32	0.6	510.4	840.2	824.0	16.20	51.867	
8,900.0	8,886.1	8,911.1	8,885.3	10.0	10.0	91.32	0.6	510.4	840.2	823.9	16.30	51.533	
9,000.0	8,986.1	9,011.1	8,985.3	10.1	10.1	91.32	0.6	510.4	840.2	823.8	16.41	51.201	
9,100.0	9,086.1	9,111.1	9,085.3	10.2	10.2	91.32	0.6	510.4	840.2	823.6	16.52	50.872	
9,200.0	9,186.1	9,211.1	9,185.3	10.3	10.3	91.32	0.6	510.4	840.2	823.5	16.62	50.546	
9,300.0	9,286.1	9,311.1	9,285.3	10.4	10.4	91.32	0.6	510.4	840.2	823.4	16.73	50.223	
9,400.0	9,386.1	9,411.1	9,385.3	10.5	10.5	91.32	0.6	510.4	840.2	823.3	16.84	49.902	
9,500.0	9,486.1	9,511.1	9,485.3	10.6	10.6	91.32	0.6	510.4	840.2	823.2	16.94	49.584	
9,600.0	9,586.1	9,611.1	9,585.3	10.7	10.7	91.32	0.6	510.4	840.2	823.1	17.05	49.268	
9,700.0	9,686.1	9,711.1	9,685.3	10.9	10.8	91.32	0.6	510.4	840.2	823.0	17.16	48.956	
9,800.0	9,786.1	9,811.1	9,785.3	11.0	10.9	91.32	0.6	510.4	840.2	822.9	17.27	48.646	
9,900.0	9,886.1	9,911.1	9,885.3	11.1	11.0	91.32	0.6	510.4	840.2	822.8	17.38	48.338	
10,000.0	9,986.1	10,011.1	9,985.3	11.2	11.2	91.32	0.6	510.4	840.2	822.7	17.49	48.034	
10,100.0	10,086.1	10,111.1	10,085.3	11.3	11.3	91.32	0.6	510.4	840.2	822.6	17.60	47.732	
10,200.0	10,186.1	10,211.1	10,185.3	11.4	11.4	91.32	0.6	510.4	840.2	822.5	17.71	47.432	
10,300.0	10,286.1	10,311.1	10,285.3	11.5	11.5	91.32	0.6	510.4	840.2	822.3	17.82	47.136	
10,400.0	10,386.1	10,411.1	10,385.3	11.6	11.6	91.32	0.6	510.4	840.2	822.2	17.94	46.842	
10,500.0	10,486.1	10,511.1	10,485.3	11.8	11.7	91.32	0.6	510.4	840.2	822.1	18.05	46.550	
10,600.0	10,586.1	10,611.1	10,585.3	11.9	11.8	91.32	0.6	510.4	840.2	822.0	18.16	46.262	
10,700.0	10,686.1	10,711.1	10,685.3	12.0	11.9	91.32	0.6	510.4	840.2	821.9	18.27	45.976	
10,800.0	10,786.1	10,811.1	10,785.3	12.1	12.1	91.32	0.6	510.4	840.2	821.8	18.39	45.692	

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
10,900.0	10,886.1	10,911.1	10,885.3	12.2	12.2	91.32	0.6	510.4	840.2	821.7	18.50	45.411		
11,000.0	10,986.1	11,011.1	10,985.3	12.3	12.3	91.32	0.6	510.4	840.2	821.5	18.62	45.133		
11,100.0	11,086.1	11,111.1	11,085.3	12.4	12.4	91.32	0.6	510.4	840.2	821.4	18.73	44.857		
11,200.0	11,186.1	11,211.1	11,185.3	12.6	12.5	91.32	0.6	510.4	840.2	821.3	18.84	44.584		
11,300.0	11,286.1	11,311.1	11,285.3	12.7	12.6	91.32	0.6	510.4	840.2	821.2	18.96	44.313		
11,400.0	11,386.1	11,411.1	11,385.3	12.8	12.7	91.32	0.6	510.4	840.2	821.1	19.07	44.051		
11,431.4	11,417.5	11,442.6	11,416.7	12.8	12.8	91.32	0.6	510.4	840.2	821.1	19.09	44.003		
11,450.0	11,436.1	11,461.6	11,435.7	12.8	12.8	91.70	0.7	510.4	840.2	821.1	19.10	43.991		
11,475.0	11,461.0	11,488.0	11,462.1	12.8	12.8	91.73	1.9	510.4	840.2	821.1	19.10	43.980		
11,500.0	11,485.8	11,514.4	11,488.4	12.9	12.8	91.76	4.6	510.4	840.2	821.1	19.11	43.964		
11,525.0	11,510.5	11,540.9	11,514.5	12.9	12.8	91.78	8.8	510.4	840.2	821.1	19.12	43.944		
11,550.0	11,534.8	11,567.3	11,540.3	12.9	12.9	91.80	14.4	510.4	840.2	821.1	19.13	43.918		
11,575.0	11,558.9	11,593.8	11,565.8	13.0	12.9	91.81	21.4	510.3	840.2	821.1	19.14	43.887		
11,600.0	11,582.6	11,620.2	11,590.9	13.0	12.9	91.81	29.8	510.3	840.2	821.1	19.16	43.850		
11,625.0	11,605.8	11,646.7	11,615.5	13.0	13.0	91.81	39.6	510.2	840.2	821.0	19.18	43.807		
11,650.0	11,628.5	11,673.2	11,639.5	13.1	13.0	91.81	50.8	510.1	840.2	821.0	19.20	43.757		
11,675.0	11,650.6	11,699.6	11,662.9	13.1	13.1	91.80	63.2	510.0	840.2	821.0	19.23	43.700		
11,700.0	11,672.1	11,726.1	11,685.5	13.1	13.1	91.78	76.9	510.0	840.2	821.0	19.26	43.635		
11,725.0	11,692.9	11,752.5	11,707.3	13.2	13.1	91.76	91.9	509.9	840.2	820.9	19.29	43.562		
11,750.0	11,712.9	11,778.9	11,728.2	13.2	13.2	91.73	108.0	509.8	840.2	820.9	19.32	43.481		
11,775.0	11,732.2	11,805.3	11,748.2	13.2	13.2	91.70	125.2	509.7	840.2	820.8	19.36	43.390		
11,800.0	11,750.5	11,831.7	11,767.1	13.3	13.2	91.67	143.5	509.5	840.2	820.8	19.41	43.290		
11,825.0	11,768.0	11,858.0	11,785.1	13.3	13.3	91.62	162.8	509.4	840.1	820.7	19.46	43.179		
11,850.0	11,784.5	11,884.3	11,801.9	13.3	13.3	91.58	183.0	509.3	840.1	820.6	19.51	43.058		
11,875.0	11,800.0	11,910.5	11,817.5	13.4	13.4	91.53	204.1	509.2	840.1	820.5	19.57	42.927		
11,900.0	11,814.4	11,936.7	11,831.9	13.4	13.4	91.47	225.9	509.0	840.1	820.5	19.64	42.784		
11,925.0	11,827.7	11,962.9	11,845.1	13.4	13.4	91.42	248.5	508.9	840.1	820.4	19.71	42.631		
11,950.0	11,840.0	11,989.0	11,857.1	13.5	13.5	91.35	271.7	508.7	840.0	820.3	19.78	42.466		
11,975.0	11,851.0	12,015.0	11,867.7	13.5	13.5	91.29	295.5	508.6	840.0	820.2	19.86	42.289		
12,000.0	11,860.9	12,041.0	11,876.9	13.5	13.5	91.22	319.7	508.4	840.0	820.0	19.95	42.101		
12,025.0	11,869.6	12,066.9	11,884.9	13.5	13.5	91.14	344.4	508.3	840.0	819.9	20.05	41.903		
12,050.0	11,877.0	12,092.7	11,891.4	13.6	13.6	91.07	369.4	508.1	840.0	819.8	20.15	41.693		
12,075.0	11,883.2	12,118.5	11,896.6	13.6	13.6	90.99	394.7	508.0	839.9	819.7	20.25	41.474		
12,100.0	11,888.0	12,144.2	11,900.4	13.6	13.6	90.91	420.1	507.8	839.9	819.6	20.36	41.244		
12,125.0	11,891.6	12,169.9	11,902.9	13.6	13.6	90.82	445.6	507.6	839.9	819.4	20.48	41.006		
12,150.0	11,893.9	12,195.5	11,903.9	13.6	13.6	90.73	471.2	507.5	839.9	819.3	20.61	40.760		
12,175.0	11,894.9	12,220.6	11,904.0	13.6	13.6	90.67	496.3	507.3	839.9	819.1	20.74	40.496		
12,180.2	11,895.0	12,225.8	11,904.0	13.6	13.7	90.67	501.5	507.3	839.9	819.1	20.77	40.440		
12,181.4	11,895.0	12,227.0	11,904.0	13.6	13.7	90.67	502.7	507.3	839.9	819.1	20.78	40.426		
12,200.0	11,895.0	12,245.6	11,904.0	13.7	13.7	90.67	521.3	507.2	839.9	819.0	20.88	40.224		
12,300.0	11,895.0	12,345.6	11,904.0	13.7	13.7	90.67	621.3	506.5	839.9	818.4	21.51	39.037		
12,400.0	11,895.0	12,445.6	11,904.0	13.8	13.8	90.67	721.3	505.9	839.9	817.6	22.25	37.743		
12,500.0	11,895.0	12,545.6	11,904.0	13.9	13.9	90.67	821.3	505.3	839.9	816.8	23.07	36.409		
12,600.0	11,895.0	12,645.6	11,904.0	14.0	14.1	90.67	921.3	504.6	839.9	815.9	23.95	35.064		
12,700.0	11,895.0	12,745.6	11,904.0	14.2	14.2	90.67	1,021.3	504.0	839.9	815.0	24.90	33.730		
12,800.0	11,895.0	12,845.6	11,904.0	14.4	14.4	90.67	1,121.3	503.4	839.9	814.0	25.90	32.425		
12,900.0	11,895.0	12,945.6	11,904.0	14.6	14.7	90.67	1,221.3	502.8	839.9	812.9	26.95	31.159		
13,000.0	11,895.0	13,045.6	11,904.0	14.9	15.0	90.67	1,321.3	502.1	839.9	811.8	28.05	29.942		
13,100.0	11,895.0	13,145.6	11,904.0	15.3	15.4	90.67	1,421.3	501.5	839.9	810.7	29.18	28.779		
13,200.0	11,895.0	13,245.6	11,904.0	15.7	15.9	90.67	1,521.3	500.9	839.9	809.5	30.35	27.670		
13,300.0	11,895.0	13,345.6	11,904.0	16.2	16.3	90.67	1,621.3	500.2	839.9	808.4	31.55	26.619		
13,400.0	11,895.0	13,445.6	11,904.0	16.7	16.9	90.67	1,721.3	499.6	839.9	807.1	32.78	25.623		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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)				
13,500.0	11,895.0	13,545.6	11,904.0	17.2	17.4	90.67	1,821.3	499.0	839.9	805.9	34.03	24.681		
13,600.0	11,895.0	13,645.6	11,904.0	17.8	18.0	90.67	1,921.3	498.3	839.9	804.6	35.30	23.791		
13,700.0	11,895.0	13,745.6	11,904.0	18.4	18.6	90.67	2,021.3	497.7	839.9	803.3	36.60	22.951		
13,800.0	11,895.0	13,845.6	11,904.0	19.0	19.2	90.67	2,121.3	497.1	839.9	802.0	37.91	22.158		
13,900.0	11,895.0	13,945.6	11,904.0	19.7	19.9	90.67	2,221.3	496.5	839.9	800.7	39.23	21.410		
14,000.0	11,895.0	14,045.6	11,904.0	20.3	20.5	90.67	2,321.3	495.8	839.9	799.4	40.57	20.703		
14,100.0	11,895.0	14,145.6	11,904.0	21.0	21.2	90.67	2,421.3	495.2	839.9	798.0	41.92	20.035		
14,200.0	11,895.0	14,245.6	11,904.0	21.7	21.9	90.67	2,521.3	494.6	839.9	796.6	43.29	19.404		
14,300.0	11,895.0	14,345.6	11,904.0	22.3	22.5	90.67	2,621.3	493.9	839.9	795.3	44.66	18.807		
14,400.0	11,895.0	14,445.6	11,904.0	23.0	23.2	90.67	2,721.3	493.3	839.9	793.9	46.05	18.242		
14,500.0	11,895.0	14,545.6	11,904.0	23.7	23.9	90.67	2,821.3	492.7	839.9	792.5	47.44	17.706		
14,600.0	11,895.0	14,645.6	11,904.0	24.4	24.6	90.67	2,921.3	492.0	839.9	791.1	48.84	17.198		
14,700.0	11,895.0	14,745.6	11,904.0	25.1	25.3	90.67	3,021.3	491.4	839.9	789.7	50.25	16.716		
14,800.0	11,895.0	14,845.6	11,904.0	25.8	26.0	90.67	3,121.3	490.8	840.0	788.3	51.66	16.259		
14,900.0	11,895.0	14,945.6	11,904.0	26.5	26.7	90.67	3,221.3	490.2	840.0	786.9	53.08	15.823		
15,000.0	11,895.0	15,045.6	11,904.0	27.2	27.4	90.67	3,321.3	489.5	840.0	785.4	54.51	15.409		
15,100.0	11,895.0	15,145.6	11,904.0	27.9	28.1	90.67	3,421.3	488.9	840.0	784.0	55.94	15.015		
15,200.0	11,895.0	15,245.6	11,904.0	28.6	28.8	90.67	3,521.2	488.3	840.0	782.6	57.38	14.639		
15,300.0	11,895.0	15,345.6	11,904.0	29.3	29.5	90.67	3,621.2	487.6	840.0	781.1	58.82	14.280		
15,400.0	11,895.0	15,445.6	11,904.0	30.1	30.3	90.67	3,721.2	487.0	840.0	779.7	60.27	13.938		
15,500.0	11,895.0	15,545.6	11,904.0	30.8	31.0	90.67	3,821.2	486.4	840.0	778.3	61.72	13.610		
15,600.0	11,895.0	15,645.6	11,904.0	31.5	31.7	90.67	3,921.2	485.7	840.0	776.8	63.17	13.297		
15,700.0	11,895.0	15,745.6	11,904.0	32.2	32.4	90.67	4,021.2	485.1	840.0	775.4	64.63	12.998		
15,800.0	11,895.0	15,845.6	11,904.0	33.0	33.2	90.67	4,121.2	484.5	840.0	773.9	66.09	12.710		
15,900.0	11,895.0	15,945.6	11,904.0	33.7	33.9	90.67	4,221.2	483.9	840.0	772.4	67.55	12.435		
16,000.0	11,895.0	16,045.6	11,904.0	34.4	34.6	90.67	4,321.2	483.2	840.0	771.0	69.01	12.171		
16,100.0	11,895.0	16,145.6	11,904.0	35.2	35.4	90.67	4,421.2	482.6	840.0	769.5	70.48	11.918		
16,200.0	11,895.0	16,245.6	11,904.0	35.9	36.1	90.67	4,521.2	482.0	840.0	768.0	71.95	11.674		
16,300.0	11,895.0	16,345.6	11,904.0	36.6	36.8	90.67	4,621.2	481.3	840.0	766.6	73.43	11.440		
16,400.0	11,895.0	16,445.6	11,904.0	37.4	37.6	90.67	4,721.2	480.7	840.0	765.1	74.90	11.215		
16,500.0	11,895.0	16,545.6	11,904.0	38.1	38.3	90.67	4,821.2	480.1	840.0	763.6	76.38	10.998		
16,600.0	11,895.0	16,645.6	11,904.0	38.8	39.0	90.67	4,921.2	479.4	840.0	762.1	77.86	10.789		
16,700.0	11,895.0	16,745.6	11,904.0	39.6	39.8	90.67	5,021.2	478.8	840.0	760.7	79.34	10.588		
16,800.0	11,895.0	16,845.6	11,904.0	40.3	40.5	90.67	5,121.2	478.2	840.0	759.2	80.82	10.394		
16,900.0	11,895.0	16,945.6	11,904.0	41.1	41.3	90.67	5,221.2	477.6	840.0	757.7	82.30	10.206		
17,000.0	11,895.0	17,045.6	11,904.0	41.8	42.0	90.67	5,321.2	476.9	840.0	756.2	83.79	10.025		
17,100.0	11,895.0	17,145.6	11,904.0	42.6	42.8	90.67	5,421.2	476.3	840.0	754.7	85.28	9.850		
17,200.0	11,895.0	17,245.6	11,904.0	43.3	43.5	90.67	5,521.2	475.7	840.0	753.3	86.77	9.682		
17,300.0	11,895.0	17,345.6	11,904.0	44.0	44.2	90.67	5,621.2	475.0	840.0	751.8	88.26	9.518		
17,400.0	11,895.0	17,445.6	11,904.0	44.8	45.0	90.67	5,721.2	474.4	840.0	750.3	89.75	9.360		
17,500.0	11,895.0	17,545.6	11,904.0	45.5	45.7	90.67	5,821.2	473.8	840.0	748.8	91.24	9.207		
17,600.0	11,895.0	17,645.6	11,904.0	46.3	46.5	90.67	5,921.2	473.1	840.0	747.3	92.73	9.059		
17,700.0	11,895.0	17,745.6	11,904.0	47.0	47.2	90.67	6,021.2	472.5	840.0	745.8	94.23	8.915		
17,800.0	11,895.0	17,845.6	11,904.0	47.8	48.0	90.67	6,121.2	471.9	840.0	744.3	95.72	8.776		
17,900.0	11,895.0	17,945.6	11,904.0	48.5	48.7	90.67	6,221.2	471.3	840.0	742.8	97.22	8.641		
18,000.0	11,895.0	18,045.6	11,904.0	49.3	49.5	90.67	6,321.2	470.6	840.0	741.3	98.72	8.510		
18,100.0	11,895.0	18,145.6	11,904.0	50.0	50.2	90.67	6,421.2	470.0	840.1	739.8	100.21	8.383		
18,200.0	11,895.0	18,245.6	11,904.0	50.8	51.0	90.67	6,521.2	469.4	840.1	738.3	101.71	8.259		
18,300.0	11,895.0	18,345.6	11,904.0	51.5	51.7	90.67	6,621.2	468.7	840.1	736.8	103.21	8.139		
18,400.0	11,895.0	18,445.6	11,904.0	52.3	52.5	90.67	6,721.2	468.1	840.1	735.3	104.71	8.022		
18,500.0	11,895.0	18,545.6	11,904.0	53.0	53.2	90.67	6,821.2	467.5	840.1	733.8	106.21	7.909		
18,600.0	11,895.0	18,645.6	11,904.0	53.8	54.0	90.67	6,921.2	466.8	840.1	732.3	107.72	7.799		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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 (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)			
18,700.0	11,895.0	18,745.6	11,904.0	54.5	54.7	90.67	7,021.2	466.2	840.1	730.8	109.22	7.692	
18,800.0	11,895.0	18,845.6	11,904.0	55.3	55.5	90.67	7,121.2	465.6	840.1	729.3	110.72	7.587	
18,900.0	11,895.0	18,945.6	11,904.0	56.0	56.2	90.67	7,221.2	465.0	840.1	727.8	112.23	7.485	
19,000.0	11,895.0	19,045.6	11,904.0	56.8	57.0	90.67	7,321.2	464.3	840.1	726.3	113.73	7.386	
19,100.0	11,895.0	19,145.6	11,904.0	57.5	57.7	90.67	7,421.2	463.7	840.1	724.8	115.24	7.290	
19,200.0	11,895.0	19,245.6	11,904.0	58.3	58.5	90.67	7,521.2	463.1	840.1	723.3	116.74	7.196	
19,300.0	11,895.0	19,345.6	11,904.0	59.0	59.2	90.67	7,621.2	462.4	840.1	721.8	118.25	7.104	
19,400.0	11,895.0	19,445.6	11,904.0	59.8	60.0	90.67	7,721.2	461.8	840.1	720.3	119.76	7.015	
19,500.0	11,895.0	19,545.6	11,904.0	60.5	60.7	90.67	7,821.2	461.2	840.1	718.8	121.26	6.928	
19,500.0	11,895.0	19,545.7	11,904.0	60.5	60.7	90.67	7,821.2	461.2	840.1	718.8	121.26	6.928	
19,609.5	11,895.0	19,608.0	11,904.0	61.4	61.2	90.67	7,883.5	460.8	841.4	719.0	122.38	6.875 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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11259-MWD+IFR1+MS														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	3.0	89.58	0.2	33.1	33.1					
100.0	100.0	99.2	99.2	3.0	3.0	3.0	89.58	0.2	33.1	33.1	27.1	6.00	5.513		
200.0	200.0	199.2	199.2	3.0	3.0	3.0	89.58	0.2	33.1	33.1	27.1	6.00	5.511		
300.0	300.0	299.2	299.2	3.0	3.0	3.0	89.58	0.2	33.1	33.1	27.1	6.01	5.505		
400.0	400.0	399.2	399.2	3.0	3.0	3.0	89.58	0.2	33.1	33.1	27.1	6.02	5.497		
500.0	500.0	499.2	499.2	3.1	3.1	3.1	89.58	0.2	33.1	33.1	27.1	6.03	5.486		
600.0	600.0	599.2	599.2	3.1	3.1	3.1	89.58	0.2	33.1	33.1	27.0	6.05	5.471		
700.0	700.0	699.2	699.2	3.1	3.1	3.1	89.58	0.2	33.1	33.1	27.0	6.06	5.454		
800.0	800.0	799.2	799.2	3.2	3.2	3.2	89.58	0.2	33.1	33.1	27.0	6.09	5.435		
900.0	900.0	899.2	899.2	3.2	3.2	3.2	89.58	0.2	33.1	33.1	27.0	6.11	5.412		
1,000.0	1,000.0	999.2	999.2	3.2	3.2	3.2	89.58	0.2	33.1	33.1	26.9	6.14	5.388		
1,100.0	1,100.0	1,099.2	1,099.2	3.3	3.3	3.3	89.58	0.2	33.1	33.1	26.9	6.17	5.360		
1,200.0	1,200.0	1,199.2	1,199.2	3.4	3.4	3.4	89.58	0.2	33.1	33.1	26.9	6.21	5.331		
1,300.0	1,300.0	1,299.2	1,299.2	3.4	3.4	3.4	89.58	0.2	33.1	33.1	26.8	6.24	5.299		
1,400.0	1,400.0	1,399.2	1,399.2	3.5	3.5	3.5	89.58	0.2	33.1	33.1	26.8	6.28	5.266		
1,500.0	1,500.0	1,499.2	1,499.2	3.5	3.5	3.5	89.58	0.2	33.1	33.1	26.8	6.33	5.230		
1,600.0	1,600.0	1,599.2	1,599.2	3.6	3.6	3.6	89.58	0.2	33.1	33.1	26.7	6.37	5.192		
1,700.0	1,700.0	1,699.2	1,699.2	3.7	3.7	3.7	89.58	0.2	33.1	33.1	26.7	6.42	5.153		
1,800.0	1,800.0	1,799.2	1,799.2	3.8	3.8	3.8	89.58	0.2	33.1	33.1	26.6	6.47	5.113		
1,900.0	1,900.0	1,899.2	1,899.2	3.9	3.9	3.9	89.58	0.2	33.1	33.1	26.6	6.52	5.071		
2,000.0	2,000.0	1,999.2	1,999.2	3.9	3.9	3.9	89.58	0.2	33.1	33.1	26.5	6.58	5.028 CC, ES		
2,100.0	2,100.0	2,098.4	2,098.4	4.0	4.0	4.0	174.20	1.6	34.1	35.9	29.3	6.64	5.410		
2,200.0	2,199.8	2,198.1	2,198.0	4.0	4.1	4.1	171.42	4.3	36.3	43.5	36.8	6.71	6.476		
2,250.0	2,249.7	2,247.8	2,247.7	4.0	4.1	4.1	170.61	5.6	37.4	48.6	41.8	6.75	7.193		
2,300.0	2,299.5	2,297.5	2,297.4	4.1	4.2	4.2	170.05	7.0	38.5	54.1	47.3	6.79	7.965		
2,400.0	2,399.1	2,396.9	2,396.7	4.1	4.2	4.2	169.21	9.7	40.7	65.1	58.3	6.87	9.478		
2,500.0	2,498.7	2,496.3	2,496.0	4.1	4.3	4.3	168.62	12.4	42.8	76.2	69.2	6.96	10.947		
2,600.0	2,598.4	2,595.6	2,595.3	4.2	4.4	4.4	168.17	15.1	45.0	87.3	80.2	7.06	12.370		
2,700.0	2,698.0	2,695.0	2,694.6	4.2	4.5	4.5	167.83	17.8	47.2	98.4	91.2	7.16	13.744		
2,800.0	2,797.6	2,794.4	2,794.0	4.3	4.6	4.6	167.56	20.5	49.4	109.4	102.2	7.26	15.068		
2,900.0	2,897.2	2,893.8	2,893.3	4.4	4.7	4.7	167.33	23.2	51.5	120.5	113.2	7.38	16.342		
3,000.0	2,996.8	2,993.2	2,992.6	4.4	4.8	4.8	167.15	25.9	53.7	131.6	124.1	7.49	17.564		
3,100.0	3,096.4	3,092.6	3,091.9	4.5	4.9	4.9	166.99	28.6	55.9	142.7	135.1	7.62	18.736		
3,200.0	3,196.1	3,191.9	3,191.3	4.5	5.0	5.0	166.86	31.3	58.1	153.8	146.0	7.74	19.858		
3,300.0	3,295.7	3,291.3	3,290.6	4.6	5.1	5.1	166.74	34.0	60.2	164.9	157.0	7.88	20.930		
3,400.0	3,395.3	3,390.7	3,389.9	4.7	5.2	5.2	166.64	36.7	62.4	176.0	167.9	8.02	21.953		
3,500.0	3,494.9	3,490.1	3,489.2	4.8	5.3	5.3	166.55	39.4	64.6	187.1	178.9	8.16	22.930		
3,600.0	3,594.5	3,589.5	3,588.5	4.8	5.4	5.4	166.47	42.1	66.8	198.1	189.8	8.30	23.861		
3,700.0	3,694.2	3,688.9	3,687.9	4.9	5.5	5.5	166.40	44.8	68.9	209.2	200.8	8.45	24.748		
3,800.0	3,793.8	3,788.2	3,787.2	5.0	5.6	5.6	166.33	47.5	71.1	220.3	211.7	8.61	25.592		
3,900.0	3,893.4	3,887.6	3,886.5	5.1	5.7	5.7	166.28	50.2	73.3	231.4	222.6	8.77	26.396		
4,000.0	3,993.0	3,987.0	3,985.8	5.2	5.8	5.8	166.22	52.9	75.4	242.5	233.6	8.93	27.160		
4,100.0	4,092.6	4,086.4	4,085.2	5.3	5.9	5.9	166.18	55.6	77.6	253.6	244.5	9.09	27.888		
4,200.0	4,192.3	4,185.8	4,184.5	5.3	6.0	6.0	166.13	58.3	79.8	264.7	255.4	9.26	28.580		
4,300.0	4,291.9	4,285.2	4,283.8	5.4	6.1	6.1	166.09	61.0	82.0	275.8	266.3	9.43	29.238		
4,400.0	4,391.5	4,384.5	4,383.1	5.5	6.2	6.2	166.05	63.7	84.1	286.9	277.3	9.61	29.864		
4,500.0	4,491.1	4,483.9	4,482.4	5.6	6.3	6.3	166.02	66.4	86.3	298.0	288.2	9.78	30.459		
4,600.0	4,590.7	4,585.8	4,584.3	5.7	6.4	6.4	166.03	68.9	88.3	308.8	298.8	9.96	31.002		
4,700.0	4,690.4	4,689.7	4,688.1	5.8	6.5	6.5	166.24	70.2	89.3	318.4	308.3	10.14	31.400		
4,800.0	4,790.0	4,790.7	4,789.2	5.9	6.7	6.7	166.59	70.2	89.4	327.0	316.7	10.29	31.763		
4,900.0	4,889.6	4,890.3	4,888.8	6.0	6.8	6.8	166.94	70.2	89.4	335.4	325.0	10.44	32.127		
5,000.0	4,989.2	4,990.0	4,988.4	6.1	6.9	6.9	167.27	70.2	89.4	343.9	333.3	10.59	32.475		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11259-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,088.8	5,089.6	5,088.0	6.2	7.0	167.58	70.2	89.4	352.4	341.7	10.74	32.810		
5,200.0	5,188.5	5,189.2	5,187.7	6.3	7.1	167.88	70.2	89.4	361.0	350.1	10.89	33.132		
5,300.0	5,288.1	5,288.8	5,287.3	6.4	7.2	168.16	70.2	89.4	369.5	358.4	11.05	33.440		
5,400.0	5,387.7	5,388.4	5,386.9	6.5	7.3	168.43	70.2	89.4	378.0	366.8	11.21	33.736		
5,500.0	5,487.3	5,488.1	5,486.5	6.6	7.4	168.69	70.2	89.4	386.6	375.2	11.36	34.021		
5,600.0	5,586.9	5,587.7	5,586.1	6.7	7.6	168.94	70.2	89.4	395.1	383.6	11.52	34.295		
5,662.3	5,649.0	5,649.7	5,648.2	6.8	7.6	169.09	70.2	89.4	400.5	388.8	11.62	34.460		
5,700.0	5,686.6	5,687.3	5,685.8	6.8	7.7	169.18	70.2	89.4	403.6	391.9	11.68	34.547		
5,800.0	5,786.3	5,787.0	5,785.5	7.0	7.8	169.38	70.2	89.4	410.6	398.8	11.84	34.672		
5,900.0	5,886.2	5,886.9	5,885.4	7.1	7.9	169.53	70.2	89.4	416.0	404.0	12.01	34.646		
6,000.0	5,986.1	5,986.8	5,985.3	7.2	8.0	169.63	70.2	89.4	419.6	407.4	12.17	34.477		
6,100.0	6,086.1	6,086.8	6,085.3	7.3	8.1	169.68	70.2	89.4	421.5	409.2	12.34	34.168		
6,162.3	6,148.4	6,149.1	6,147.6	7.3	8.2	83.16	70.2	89.4	421.9	409.5	12.42	33.971		
6,200.0	6,186.1	6,186.8	6,185.3	7.4	8.3	83.16	70.2	89.4	421.9	409.4	12.45	33.875		
6,300.0	6,286.1	6,286.8	6,285.3	7.4	8.4	83.16	70.2	89.4	421.9	409.3	12.55	33.620		
6,400.0	6,386.1	6,386.8	6,385.3	7.5	8.5	83.16	70.2	89.4	421.9	409.2	12.64	33.367		
6,500.0	6,486.1	6,486.8	6,485.3	7.6	8.6	83.16	70.2	89.4	421.9	409.1	12.74	33.115		
6,600.0	6,586.1	6,586.8	6,585.3	7.7	8.7	83.16	70.2	89.4	421.9	409.0	12.84	32.865		
6,700.0	6,686.1	6,686.8	6,685.3	7.8	8.9	83.16	70.2	89.4	421.9	408.9	12.93	32.617		
6,800.0	6,786.1	6,786.8	6,785.3	7.9	9.0	83.16	70.2	89.4	421.9	408.8	13.03	32.371		
6,900.0	6,886.1	6,886.8	6,885.3	8.0	9.1	83.16	70.2	89.4	421.9	408.8	13.13	32.126		
7,000.0	6,986.1	6,986.8	6,985.3	8.1	9.2	83.16	70.2	89.4	421.9	408.7	13.23	31.884		
7,100.0	7,086.1	7,086.8	7,085.3	8.2	9.4	83.16	70.2	89.4	421.9	408.5	13.33	31.643		
7,200.0	7,186.1	7,186.8	7,185.3	8.3	9.5	83.16	70.2	89.4	421.9	408.4	13.43	31.404		
7,300.0	7,286.1	7,286.8	7,285.3	8.4	9.6	83.16	70.2	89.4	421.9	408.3	13.54	31.167		
7,400.0	7,386.1	7,386.8	7,385.3	8.4	9.7	83.16	70.2	89.4	421.9	408.2	13.64	30.932		
7,500.0	7,486.1	7,486.8	7,485.3	8.5	9.8	83.16	70.2	89.4	421.9	408.1	13.74	30.700		
7,600.0	7,586.1	7,586.8	7,585.3	8.6	10.0	83.16	70.2	89.4	421.9	408.0	13.85	30.469		
7,700.0	7,686.1	7,686.8	7,685.3	8.7	10.1	83.16	70.2	89.4	421.9	407.9	13.95	30.240		
7,800.0	7,786.1	7,786.8	7,785.3	8.8	10.2	83.16	70.2	89.4	421.9	407.8	14.06	30.013		
7,900.0	7,886.1	7,886.8	7,885.3	8.9	10.3	83.16	70.2	89.4	421.9	407.7	14.16	29.789		
8,000.0	7,986.1	7,986.8	7,985.3	9.0	10.5	83.16	70.2	89.4	421.9	407.6	14.27	29.566		
8,100.0	8,086.1	8,086.8	8,085.3	9.1	10.6	83.16	70.2	89.4	421.9	407.5	14.38	29.346		
8,200.0	8,186.1	8,186.8	8,185.3	9.2	10.7	83.16	70.2	89.4	421.9	407.4	14.48	29.128		
8,300.0	8,286.1	8,286.8	8,285.3	9.4	10.8	83.16	70.2	89.4	421.9	407.3	14.59	28.911		
8,400.0	8,386.1	8,386.8	8,385.3	9.5	11.0	83.16	70.2	89.4	421.9	407.2	14.70	28.697		
8,500.0	8,486.1	8,486.8	8,485.3	9.6	11.1	83.16	70.2	89.4	421.9	407.1	14.81	28.485		
8,600.0	8,586.1	8,586.8	8,585.3	9.7	11.2	83.16	70.2	89.4	421.9	407.0	14.92	28.275		
8,700.0	8,686.1	8,686.8	8,685.3	9.8	11.3	83.16	70.2	89.4	421.9	406.9	15.03	28.068		
8,800.0	8,786.1	8,786.8	8,785.3	9.9	11.5	83.16	70.2	89.4	421.9	406.7	15.14	27.862		
8,900.0	8,886.1	8,886.8	8,885.3	10.0	11.6	83.16	70.2	89.4	421.9	406.6	15.25	27.658		
9,000.0	8,986.1	8,986.8	8,985.3	10.1	11.7	83.16	70.2	89.4	421.9	406.5	15.37	27.457		
9,100.0	9,086.1	9,086.8	9,085.3	10.2	11.8	83.16	70.2	89.4	421.9	406.4	15.48	27.257		
9,200.0	9,186.1	9,186.8	9,185.3	10.3	12.0	83.16	70.2	89.4	421.9	406.3	15.59	27.060		
9,300.0	9,286.1	9,286.8	9,285.3	10.4	12.1	83.16	70.2	89.4	421.9	406.2	15.70	26.864		
9,400.0	9,386.1	9,386.8	9,385.3	10.5	12.2	83.16	70.2	89.4	421.9	406.1	15.82	26.671		
9,500.0	9,486.1	9,486.8	9,485.3	10.6	12.3	83.16	70.2	89.4	421.9	405.9	15.93	26.480		
9,600.0	9,586.1	9,586.8	9,585.3	10.7	12.5	83.16	70.2	89.4	421.9	405.8	16.05	26.291		
9,700.0	9,686.1	9,686.8	9,685.3	10.9	12.6	83.16	70.2	89.4	421.9	405.7	16.16	26.103		
9,800.0	9,786.1	9,786.8	9,785.3	11.0	12.7	83.16	70.2	89.4	421.9	405.6	16.28	25.918		
9,900.0	9,886.1	9,886.8	9,885.3	11.1	12.8	83.16	70.2	89.4	421.9	405.5	16.39	25.735		
10,000.0	9,986.1	9,986.8	9,985.3	11.2	13.0	83.16	70.2	89.4	421.9	405.4	16.51	25.554		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11259-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,100.0	10,086.1	10,086.8	10,085.3	11.3	13.1	83.16	70.2	89.4	421.9	405.3	16.63	25.374		
10,200.0	10,186.1	10,186.8	10,185.3	11.4	13.2	83.16	70.2	89.4	421.9	405.1	16.74	25.197		
10,300.0	10,286.1	10,286.8	10,285.3	11.5	13.4	83.16	70.2	89.4	421.9	405.0	16.86	25.021		
10,400.0	10,386.1	10,386.8	10,385.3	11.6	13.5	83.16	70.2	89.4	421.9	404.9	16.98	24.847		
10,500.0	10,486.1	10,486.8	10,485.3	11.8	13.6	83.16	70.2	89.4	421.9	404.8	17.10	24.676		
10,600.0	10,586.1	10,586.8	10,585.3	11.9	13.7	83.16	70.2	89.4	421.9	404.7	17.22	24.506		
10,700.0	10,686.1	10,686.8	10,685.3	12.0	13.9	83.16	70.2	89.4	421.9	404.5	17.33	24.338		
10,800.0	10,786.1	10,786.8	10,785.3	12.1	14.0	83.16	70.2	89.4	421.9	404.4	17.45	24.171		
10,900.0	10,886.1	10,886.8	10,885.3	12.2	14.1	83.16	70.2	89.4	421.9	404.3	17.57	24.007		
11,000.0	10,986.1	10,986.8	10,985.3	12.3	14.2	83.16	70.2	89.4	421.9	404.2	17.69	23.844		
11,100.0	11,086.1	11,086.8	11,085.3	12.4	14.4	83.16	70.2	89.4	421.9	404.1	17.81	23.683		
11,200.0	11,186.1	11,186.8	11,185.3	12.6	14.5	83.16	70.2	89.4	421.9	403.9	17.93	23.524		
11,204.0	11,190.0	11,190.8	11,189.2	12.6	14.5	83.16	70.2	89.4	421.9	403.9	17.94	23.518		
11,300.0	11,286.1	11,284.3	11,282.7	12.7	14.6	83.07	70.9	89.4	422.0	403.9	18.04	23.396		
11,400.0	11,386.1	11,373.0	11,370.4	12.8	14.7	81.34	83.8	89.3	423.9	405.6	18.25	23.231		
11,431.4	11,417.5	11,400.0	11,396.4	12.8	14.7	80.39	90.9	89.3	425.2	406.9	18.30	23.236		
11,450.0	11,436.1	11,415.0	11,410.7	12.8	14.7	80.07	95.5	89.2	426.1	407.7	18.38	23.185		
11,475.0	11,461.0	11,435.5	11,430.0	12.8	14.8	79.16	102.5	89.2	427.4	408.9	18.50	23.100		
11,500.0	11,485.8	11,455.9	11,448.8	12.9	14.8	78.27	110.3	89.1	428.8	410.1	18.65	22.987		
11,525.0	11,510.5	11,475.0	11,466.2	12.9	14.8	77.46	118.3	89.1	430.2	411.4	18.85	22.822		
11,550.0	11,534.8	11,496.1	11,484.9	12.9	14.8	76.60	127.9	89.0	431.7	412.6	19.04	22.677		
11,575.0	11,558.9	11,516.0	11,502.2	13.0	14.9	75.81	137.7	89.0	433.2	413.9	19.27	22.482		
11,600.0	11,582.6	11,535.7	11,518.9	13.0	14.9	75.06	148.2	88.9	434.6	415.1	19.52	22.264		
11,625.0	11,605.8	11,555.2	11,535.1	13.0	14.9	74.34	159.2	88.8	436.1	416.3	19.80	22.024		
11,650.0	11,628.5	11,575.0	11,550.9	13.1	15.0	73.65	171.0	88.8	437.6	417.5	20.09	21.777		
11,675.0	11,650.6	11,594.0	11,565.7	13.1	15.0	73.02	183.0	88.7	439.0	418.6	20.42	21.499		
11,700.0	11,672.1	11,613.2	11,580.1	13.1	15.0	72.42	195.7	88.6	440.4	419.6	20.75	21.220		
11,725.0	11,692.9	11,632.4	11,593.9	13.2	15.0	71.86	208.9	88.5	441.7	420.6	21.10	20.936		
11,750.0	11,712.9	11,650.0	11,606.2	13.2	15.1	71.36	221.6	88.4	443.0	421.5	21.49	20.611		
11,775.0	11,732.2	11,670.4	11,619.8	13.2	15.1	70.86	236.7	88.3	444.2	422.4	21.81	20.366		
11,800.0	11,750.5	11,689.3	11,631.8	13.3	15.1	70.42	251.3	88.3	445.4	423.2	22.17	20.087		
11,825.0	11,768.0	11,708.1	11,643.2	13.3	15.1	70.02	266.3	88.2	446.4	423.9	22.53	19.815		
11,850.0	11,784.5	11,725.0	11,652.9	13.3	15.1	69.69	280.1	88.1	447.4	424.4	22.93	19.509		
11,875.0	11,800.0	11,745.6	11,664.1	13.4	15.2	69.36	297.4	88.0	448.2	425.0	23.22	19.301		
11,900.0	11,814.4	11,764.2	11,673.6	13.4	15.2	69.09	313.5	87.9	448.9	425.4	23.55	19.062		
11,925.0	11,827.7	11,782.9	11,682.4	13.4	15.2	68.86	329.9	87.8	449.6	425.7	23.87	18.838		
11,950.0	11,840.0	11,800.0	11,689.9	13.5	15.2	68.69	345.3	87.7	450.1	425.9	24.20	18.602		
11,975.0	11,851.0	11,820.0	11,698.0	13.5	15.3	68.54	363.6	87.6	450.5	426.1	24.44	18.433		
12,000.0	11,860.9	11,838.6	11,704.9	13.5	15.3	68.44	380.9	87.4	450.8	426.1	24.69	18.255		
12,025.0	11,869.6	11,857.2	11,711.0	13.5	15.3	68.39	398.4	87.3	450.9	426.0	24.92	18.093		
12,050.0	11,877.0	11,875.0	11,716.3	13.6	15.3	68.38	415.4	87.2	450.9	425.8	25.14	17.940		
12,075.0	11,883.2	11,894.2	11,721.2	13.6	15.3	68.42	434.0	87.1	450.9	425.5	25.30	17.819		
12,100.0	11,888.0	11,912.8	11,725.3	13.6	15.3	68.49	452.1	87.0	450.6	425.2	25.45	17.707		
12,125.0	11,891.6	11,931.4	11,728.7	13.6	15.3	68.61	470.4	86.9	450.3	424.7	25.57	17.611		
12,150.0	11,893.9	11,950.0	11,731.3	13.6	15.3	68.78	488.8	86.8	449.8	424.2	25.66	17.533		
12,175.0	11,894.9	11,968.6	11,733.3	13.6	15.4	68.99	507.3	86.7	449.2	423.5	25.72	17.470		
12,181.4	11,895.0	11,975.0	11,733.8	13.6	15.4	69.06	513.7	86.6	449.1	423.4	25.72	17.463		
12,200.0	11,895.0	11,987.3	11,734.5	13.7	15.4	69.15	525.9	86.5	448.7	422.9	25.76	17.417		
12,230.9	11,895.0	12,010.9	11,735.0	13.7	15.4	69.21	549.5	86.4	448.4	422.6	25.89	17.323		
12,300.0	11,895.0	12,080.0	11,735.0	13.7	15.4	69.21	618.6	86.0	448.5	422.2	26.23	17.098		
12,400.0	11,895.0	12,180.0	11,735.0	13.8	15.4	69.21	718.6	85.3	448.5	421.7	26.81	16.726		
12,500.0	11,895.0	12,280.0	11,735.0	13.9	15.4	69.21	818.6	84.7	448.5	421.0	27.47	16.325		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11259-MWD+IFR1+MS								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	
12,600.0	11,895.0	12,380.0	11,735.0	14.0	15.5	69.21	918.6	84.1	448.5	420.3	28.20	15.903		
12,700.0	11,895.0	12,480.0	11,735.0	14.2	15.5	69.21	1,018.6	83.5	448.5	419.5	28.99	15.469		
12,800.0	11,895.0	12,580.0	11,735.0	14.4	15.6	69.21	1,118.6	82.9	448.5	418.7	29.84	15.029		
12,900.0	11,895.0	12,680.0	11,735.0	14.6	15.6	69.21	1,218.6	82.2	448.5	417.8	30.75	14.588		
13,000.0	11,895.0	12,780.0	11,735.0	14.9	15.7	69.21	1,318.6	81.6	448.5	416.8	31.70	14.151		
13,100.0	11,895.0	12,880.0	11,735.0	15.3	15.8	69.21	1,418.6	81.0	448.5	415.8	32.69	13.720		
13,200.0	11,895.0	12,980.0	11,735.0	15.7	15.9	69.21	1,518.6	80.4	448.5	414.8	33.73	13.299		
13,300.0	11,895.0	13,080.0	11,735.0	16.2	16.1	69.21	1,618.6	79.7	448.6	413.8	34.80	12.889		
13,400.0	11,895.0	13,180.0	11,735.0	16.7	16.3	69.21	1,718.6	79.1	448.6	412.7	35.91	12.492		
13,500.0	11,895.0	13,280.0	11,735.0	17.2	16.6	69.21	1,818.6	78.5	448.6	411.5	37.04	12.109		
13,600.0	11,895.0	13,380.0	11,735.0	17.8	17.1	69.21	1,918.6	77.9	448.6	410.4	38.21	11.741		
13,700.0	11,895.0	13,480.0	11,735.0	18.4	17.7	69.21	2,018.6	77.2	448.6	409.2	39.40	11.386		
13,800.0	11,895.0	13,580.0	11,735.0	19.0	18.3	69.21	2,118.6	76.6	448.6	408.0	40.61	11.046		
13,900.0	11,895.0	13,680.0	11,735.0	19.7	18.9	69.21	2,218.6	76.0	448.6	406.8	41.84	10.721		
14,000.0	11,895.0	13,780.0	11,735.0	20.3	19.5	69.21	2,318.6	75.4	448.6	405.5	43.10	10.410		
14,100.0	11,895.0	13,880.0	11,735.0	21.0	20.2	69.22	2,418.6	74.8	448.6	404.3	44.37	10.112		
14,200.0	11,895.0	13,980.0	11,735.0	21.7	20.9	69.22	2,518.6	74.1	448.6	403.0	45.65	9.827		
14,300.0	11,895.0	14,080.0	11,735.0	22.3	21.6	69.22	2,618.6	73.5	448.6	401.7	46.96	9.555		
14,400.0	11,895.0	14,180.0	11,735.0	23.0	22.3	69.22	2,718.6	72.9	448.7	400.4	48.27	9.295		
14,500.0	11,895.0	14,280.0	11,735.0	23.7	23.0	69.22	2,818.6	72.3	448.7	399.1	49.60	9.046		
14,600.0	11,895.0	14,380.0	11,735.0	24.4	23.7	69.22	2,918.6	71.6	448.7	397.7	50.94	8.808		
14,700.0	11,895.0	14,480.0	11,735.0	25.1	24.4	69.22	3,018.6	71.0	448.7	396.4	52.29	8.581		
14,800.0	11,895.0	14,580.0	11,735.0	25.8	25.1	69.22	3,118.6	70.4	448.7	395.0	53.65	8.364		
14,900.0	11,895.0	14,680.0	11,735.0	26.5	25.8	69.22	3,218.6	69.8	448.7	393.7	55.02	8.156		
15,000.0	11,895.0	14,780.0	11,735.0	27.2	26.5	69.22	3,318.6	69.2	448.7	392.3	56.39	7.957		
15,100.0	11,895.0	14,880.0	11,735.0	27.9	27.2	69.22	3,418.6	68.5	448.7	390.9	57.78	7.766		
15,200.0	11,895.0	14,980.0	11,735.0	28.6	28.0	69.22	3,518.6	67.9	448.7	389.6	59.17	7.584		
15,300.0	11,895.0	15,080.0	11,735.0	29.3	28.7	69.22	3,618.6	67.3	448.7	388.2	60.57	7.409		
15,400.0	11,895.0	15,180.0	11,735.0	30.1	29.4	69.22	3,718.6	66.7	448.8	386.8	61.98	7.241		
15,500.0	11,895.0	15,280.0	11,735.0	30.8	30.2	69.22	3,818.6	66.0	448.8	385.4	63.39	7.080		
15,600.0	11,895.0	15,380.0	11,735.0	31.5	30.9	69.22	3,918.6	65.4	448.8	384.0	64.80	6.925		
15,700.0	11,895.0	15,480.0	11,735.0	32.2	31.6	69.22	4,018.6	64.8	448.8	382.6	66.23	6.776		
15,800.0	11,895.0	15,580.0	11,735.0	33.0	32.3	69.22	4,118.6	64.2	448.8	381.1	67.65	6.634		
15,900.0	11,895.0	15,680.0	11,735.0	33.7	33.1	69.22	4,218.6	63.5	448.8	379.7	69.09	6.496		
16,000.0	11,895.0	15,780.0	11,735.0	34.4	33.8	69.22	4,318.6	62.9	448.8	378.3	70.52	6.364		
16,100.0	11,895.0	15,880.0	11,735.0	35.2	34.6	69.22	4,418.6	62.3	448.8	376.9	71.96	6.237		
16,200.0	11,895.0	15,980.0	11,735.0	35.9	35.3	69.22	4,518.6	61.7	448.8	375.4	73.41	6.114		
16,300.0	11,895.0	16,080.0	11,735.0	36.6	36.0	69.23	4,618.6	61.1	448.8	374.0	74.85	5.996		
16,400.0	11,895.0	16,180.0	11,735.0	37.4	36.8	69.23	4,718.5	60.4	448.8	372.5	76.30	5.882		
16,500.0	11,895.0	16,280.0	11,735.0	38.1	37.5	69.23	4,818.5	59.8	448.9	371.1	77.76	5.773		
16,600.0	11,895.0	16,380.0	11,735.0	38.8	38.3	69.23	4,918.5	59.2	448.9	369.7	79.21	5.667		
16,700.0	11,895.0	16,480.0	11,735.0	39.6	39.0	69.23	5,018.5	58.6	448.9	368.2	80.67	5.564		
16,800.0	11,895.0	16,580.0	11,735.0	40.3	39.8	69.23	5,118.5	57.9	448.9	366.8	82.14	5.465		
16,900.0	11,895.0	16,680.0	11,735.0	41.1	40.5	69.23	5,218.5	57.3	448.9	365.3	83.60	5.370		
17,000.0	11,895.0	16,780.0	11,735.0	41.8	41.2	69.23	5,318.5	56.7	448.9	363.8	85.07	5.277		
17,100.0	11,895.0	16,880.0	11,735.0	42.6	42.0	69.23	5,418.5	56.1	448.9	362.4	86.54	5.187		
17,200.0	11,895.0	16,980.0	11,735.0	43.3	42.7	69.23	5,518.5	55.5	448.9	360.9	88.01	5.101		
17,300.0	11,895.0	17,080.0	11,735.0	44.0	43.5	69.23	5,618.5	54.8	448.9	359.5	89.48	5.017		
17,400.0	11,895.0	17,180.0	11,735.0	44.8	44.2	69.23	5,718.5	54.2	448.9	358.0	90.96	4.936		
17,500.0	11,895.0	17,280.0	11,735.0	45.5	45.0	69.23	5,818.5	53.6	449.0	356.5	92.44	4.857		
17,600.0	11,895.0	17,380.0	11,735.0	46.3	45.7	69.23	5,918.5	53.0	449.0	355.0	93.92	4.780		
17,700.0	11,895.0	17,480.0	11,735.0	47.0	46.5	69.23	6,018.5	52.3	449.0	353.6	95.40	4.706		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #102H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 11259-MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,800.0	11,895.0	17,580.0	11,735.0	47.8	47.2	69.23	6,118.5	51.7	449.0	352.1	96.88	4.634		
17,900.0	11,895.0	17,680.0	11,735.0	48.5	48.0	69.23	6,218.5	51.1	449.0	350.6	98.36	4.565		
18,000.0	11,895.0	17,780.0	11,735.0	49.3	48.7	69.23	6,318.5	50.5	449.0	349.2	99.85	4.497		
18,100.0	11,895.0	17,880.0	11,735.0	50.0	49.5	69.23	6,418.5	49.8	449.0	347.7	101.34	4.431		
18,200.0	11,895.0	17,980.0	11,735.0	50.8	50.2	69.23	6,518.5	49.2	449.0	346.2	102.83	4.367		
18,300.0	11,895.0	18,080.0	11,735.0	51.5	51.0	69.23	6,618.5	48.6	449.0	344.7	104.32	4.305		
18,400.0	11,895.0	18,180.0	11,735.0	52.3	51.7	69.24	6,718.5	48.0	449.0	343.2	105.81	4.244		
18,500.0	11,895.0	18,280.0	11,735.0	53.0	52.5	69.24	6,818.5	47.4	449.1	341.8	107.30	4.185		
18,600.0	11,895.0	18,380.0	11,735.0	53.8	53.2	69.24	6,918.5	46.7	449.1	340.3	108.79	4.128		
18,700.0	11,895.0	18,480.0	11,735.0	54.5	54.0	69.24	7,018.5	46.1	449.1	338.8	110.29	4.072		
18,800.0	11,895.0	18,580.0	11,735.0	55.3	54.8	69.24	7,118.5	45.5	449.1	337.3	111.78	4.017		
18,900.0	11,895.0	18,680.0	11,735.0	56.0	55.5	69.24	7,218.5	44.9	449.1	335.8	113.28	3.964		
19,000.0	11,895.0	18,780.0	11,735.0	56.8	56.3	69.24	7,318.5	44.2	449.1	334.3	114.78	3.913		
19,100.0	11,895.0	18,880.0	11,735.0	57.5	57.0	69.24	7,418.5	43.6	449.1	332.8	116.28	3.862		
19,200.0	11,895.0	18,980.0	11,735.0	58.3	57.8	69.24	7,518.5	43.0	449.1	331.3	117.78	3.813		
19,300.0	11,895.0	19,080.0	11,735.0	59.0	58.5	69.24	7,618.5	42.4	449.1	329.9	119.28	3.765		
19,400.0	11,895.0	19,180.0	11,735.0	59.8	59.3	69.24	7,718.5	41.8	449.1	328.4	120.78	3.719		
19,500.0	11,895.0	19,280.0	11,735.0	60.5	60.0	69.24	7,818.5	41.1	449.1	326.9	122.28	3.673		
19,609.5	11,895.0	19,389.4	11,735.0	61.4	60.9	69.24	7,928.0	40.4	449.2	325.2	123.92	3.624 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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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		Rule Assigned:		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,500.0	8,486.1	11,331.4	9,230.8	9.6	42.2	91.02	8.7	299.7	982.6	937.4	45.15	21.760	
8,600.0	8,586.1	11,330.3	9,230.8	9.7	42.1	90.92	9.9	299.7	908.0	861.9	46.14	19.678	
8,700.0	8,686.1	11,329.0	9,230.8	9.8	42.1	90.81	11.1	299.7	838.8	791.6	47.16	17.785	
8,800.0	8,786.1	11,327.8	9,230.9	9.9	42.1	90.69	12.4	299.7	776.3	728.2	48.15	16.122	
8,900.0	8,886.1	11,326.4	9,230.9	10.0	42.1	90.57	13.8	299.7	722.3	673.3	49.04	14.730	
9,000.0	8,986.1	11,324.9	9,230.9	10.1	42.1	90.43	15.2	299.7	678.8	629.1	49.72	13.654	
9,100.0	9,086.1	11,323.4	9,230.9	10.2	42.0	90.29	16.8	299.7	647.9	597.8	50.13	12.926	
9,200.0	9,186.1	11,321.7	9,231.0	10.3	42.0	90.14	18.4	299.7	631.6	581.3	50.30	12.555	
9,254.8	9,240.9	11,320.8	9,231.0	10.4	42.0	90.06	19.4	299.7	629.2	578.9	50.33	12.500	CC, ES, SF
9,300.0	9,286.1	11,320.0	9,231.0	10.4	42.0	89.98	20.2	299.7	630.8	580.5	50.34	12.531	
9,400.0	9,386.1	11,318.1	9,231.0	10.5	42.0	89.81	22.1	299.7	645.7	595.4	50.28	12.843	
9,500.0	9,486.1	11,316.1	9,231.1	10.6	41.9	89.63	24.1	299.7	675.3	625.2	50.08	13.485	
9,600.0	9,586.1	11,313.9	9,231.1	10.7	41.9	89.43	26.3	299.7	717.6	667.9	49.71	14.436	
9,700.0	9,686.1	11,313.0	9,231.1	10.9	41.9	89.35	27.1	299.7	770.7	721.5	49.25	15.648	
9,800.0	9,786.1	11,313.0	9,231.1	11.0	41.9	89.35	27.1	299.7	832.5	783.7	48.76	17.073	
9,900.0	9,886.1	11,313.0	9,231.1	11.1	41.9	89.35	27.1	299.7	901.1	852.8	48.28	18.663	
10,000.0	9,986.1	11,313.0	9,231.1	11.2	41.9	89.35	27.1	299.7	975.2	927.3	47.87	20.373	

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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 +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-150.25	-368.4	-210.5	424.5					
100.0	100.0	88.1	88.1	3.0	3.5	-150.25	-368.4	-210.5	424.3	417.8	6.49	65.375		
200.0	200.0	188.1	188.1	3.0	4.8	-150.25	-368.4	-210.5	424.3	416.5	7.85	54.040		
300.0	300.0	288.1	288.1	3.0	6.6	-150.25	-368.4	-210.5	424.3	414.7	9.57	44.332		
400.0	400.0	388.1	388.1	3.0	8.4	-150.25	-368.4	-210.5	424.3	412.9	11.44	37.104		
500.0	500.0	488.1	488.1	3.1	10.3	-150.25	-368.4	-210.5	424.3	410.9	13.37	31.736		
600.0	600.0	588.1	588.1	3.1	12.3	-150.25	-368.4	-210.5	424.3	409.0	15.34	27.654		
700.0	700.0	688.1	688.1	3.1	14.2	-150.25	-368.4	-210.5	424.3	407.0	17.34	24.467		
800.0	800.0	788.1	788.1	3.2	16.2	-150.25	-368.4	-210.5	424.3	404.9	19.36	21.919		
900.0	900.0	888.1	888.1	3.2	18.2	-150.25	-368.4	-210.5	424.3	402.9	21.39	19.840		
1,000.0	1,000.0	988.1	988.1	3.2	20.2	-150.25	-368.4	-210.5	424.3	400.9	23.43	18.113		
1,100.0	1,100.0	1,088.1	1,088.1	3.3	22.2	-150.25	-368.4	-210.5	424.3	398.8	25.47	16.657		
1,200.0	1,200.0	1,188.1	1,188.1	3.4	24.2	-150.25	-368.4	-210.5	424.3	396.8	27.53	15.414		
1,300.0	1,300.0	1,288.1	1,288.1	3.4	26.2	-150.25	-368.4	-210.5	424.3	394.7	29.59	14.340		
1,400.0	1,400.0	1,388.1	1,388.1	3.5	28.3	-150.25	-368.4	-210.5	424.3	392.7	31.65	13.404		
1,500.0	1,500.0	1,488.1	1,488.1	3.5	30.3	-150.25	-368.4	-210.5	424.3	390.6	33.73	12.581		
1,600.0	1,600.0	1,588.1	1,588.1	3.6	32.3	-150.25	-368.4	-210.5	424.3	388.5	35.80	11.852		
1,700.0	1,700.0	1,688.1	1,688.1	3.7	34.3	-150.25	-368.4	-210.5	424.3	386.4	37.88	11.201		
1,800.0	1,800.0	1,788.1	1,788.1	3.8	36.3	-150.25	-368.4	-210.5	424.3	384.3	39.96	10.617		
1,900.0	1,900.0	1,888.1	1,888.1	3.9	38.3	-150.25	-368.4	-210.5	424.3	382.3	42.05	10.090		
2,000.0	2,000.0	1,988.1	1,988.1	3.9	40.4	-150.25	-368.4	-210.5	424.3	380.2	44.14	9.612		
2,100.0	2,100.0	2,088.1	2,088.1	4.0	42.4	-63.95	-368.4	-210.5	423.5	377.3	46.20	9.168		
2,200.0	2,199.8	2,187.9	2,187.9	4.0	44.4	-64.63	-368.4	-210.5	421.3	373.0	48.23	8.735		
2,250.0	2,249.7	2,237.8	2,237.8	4.0	45.4	-65.14	-368.4	-210.5	419.6	370.4	49.24	8.521		
2,300.0	2,299.5	2,287.6	2,287.6	4.1	46.4	-65.68	-368.4	-210.5	417.8	367.5	50.26	8.313		
2,400.0	2,399.1	2,387.2	2,387.2	4.1	48.4	-66.78	-368.4	-210.5	414.3	362.0	52.29	7.922		
2,500.0	2,498.7	2,486.8	2,486.8	4.1	50.4	-67.89	-368.4	-210.5	410.9	356.6	54.33	7.563		
2,600.0	2,598.4	2,586.5	2,586.5	4.2	52.4	-69.02	-368.4	-210.5	407.7	351.3	56.37	7.233		
2,700.0	2,698.0	2,686.1	2,686.1	4.2	54.5	-70.17	-368.4	-210.5	404.6	346.2	58.41	6.927		
2,800.0	2,797.6	2,785.7	2,785.7	4.3	56.5	-71.34	-368.4	-210.5	401.7	341.3	60.46	6.645		
2,900.0	2,897.2	2,885.3	2,885.3	4.4	58.5	-72.52	-368.4	-210.5	399.0	336.5	62.51	6.384		
3,000.0	2,996.8	2,984.9	2,984.9	4.4	60.5	-73.71	-368.4	-210.5	396.5	331.9	64.56	6.141		
3,100.0	3,096.4	3,084.5	3,084.5	4.5	62.5	-74.93	-368.4	-210.5	394.1	327.5	66.62	5.916		
3,200.0	3,196.1	3,184.2	3,184.2	4.5	64.5	-76.15	-368.4	-210.5	391.9	323.3	68.68	5.707		
3,300.0	3,295.7	3,283.8	3,283.8	4.6	66.5	-77.39	-368.4	-210.5	389.9	319.2	70.74	5.512		
3,400.0	3,395.3	3,383.4	3,383.4	4.7	68.5	-78.64	-368.4	-210.5	388.1	315.3	72.81	5.330		
3,500.0	3,494.9	3,483.0	3,483.0	4.8	70.6	-79.90	-368.4	-210.5	386.5	311.6	74.88	5.161		
3,600.0	3,594.5	3,582.6	3,582.6	4.8	72.6	-81.18	-368.4	-210.5	385.1	308.1	76.96	5.004		
3,700.0	3,694.2	3,682.3	3,682.3	4.9	74.6	-82.46	-368.4	-210.5	383.8	304.8	79.03	4.856		
3,800.0	3,793.8	3,781.9	3,781.9	5.0	76.6	-83.75	-368.4	-210.5	382.8	301.6	81.11	4.719		
3,900.0	3,893.4	3,881.5	3,881.5	5.1	78.6	-85.04	-368.4	-210.5	381.9	298.7	83.20	4.590		
4,000.0	3,993.0	3,981.1	3,981.1	5.2	80.6	-86.34	-368.4	-210.5	381.2	296.0	85.28	4.470		
4,100.0	4,092.6	4,080.7	4,080.7	5.3	82.7	-87.65	-368.4	-210.5	380.8	293.4	87.37	4.358		
4,200.0	4,192.3	4,180.4	4,180.4	5.3	84.7	-88.95	-368.4	-210.5	380.5	291.1	89.47	4.253		
4,280.2	4,272.1	4,260.2	4,260.2	5.4	86.3	-90.00	-368.4	-210.5	380.5	289.3	91.15	4.174 CC		
4,300.0	4,291.9	4,280.0	4,280.0	5.4	86.7	-90.26	-368.4	-210.5	380.5	288.9	91.56	4.155		
4,400.0	4,391.5	4,379.6	4,379.6	5.5	88.7	-91.57	-368.4	-210.5	380.6	286.9	93.66	4.064 ES, SF		
4,500.0	4,491.1	4,480.0	4,480.0	5.6	89.1	-91.81	-368.4	-210.5	389.5	297.2	92.28	4.221		
4,600.0	4,590.7	4,580.0	4,580.0	5.7	89.1	-91.81	-368.4	-210.5	422.2	336.1	86.04	4.906		
4,700.0	4,690.4	4,680.0	4,680.0	5.8	89.1	-91.81	-368.4	-210.5	474.1	396.2	77.90	6.086		
4,800.0	4,790.0	4,780.0	4,780.0	5.9	89.1	-91.81	-368.4	-210.5	539.7	469.8	69.88	7.723		
4,900.0	4,889.6	4,880.0	4,880.0	6.0	89.1	-91.81	-368.4	-210.5	614.6	551.8	62.89	9.773		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,989.2	4,400.0	4,398.0	6.1	89.1	-91.81	-368.4	-210.5	695.9	638.8	57.10	12.189	
5,100.0	5,088.8	4,400.0	4,398.0	6.2	89.1	-91.81	-368.4	-210.5	781.6	729.2	52.38	14.922	
5,200.0	5,188.5	4,400.0	4,398.0	6.3	89.1	-91.81	-368.4	-210.5	870.3	821.7	48.55	17.925	
5,300.0	5,288.1	4,400.0	4,398.0	6.4	89.1	-91.81	-368.4	-210.5	961.2	915.7	45.44	21.154	

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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	179.80	-140.0	0.5	140.0					
100.0	100.0	98.3	98.3	3.0	3.0	179.70	-140.0	0.7	140.0	134.0	6.01	23.282		
200.0	200.0	197.9	197.9	3.0	3.1	179.60	-140.3	1.0	140.3	134.1	6.12	22.927		
300.0	300.0	297.7	297.7	3.0	3.3	179.51	-140.7	1.2	140.8	134.5	6.29	22.366		
400.0	400.0	397.6	397.5	3.0	3.5	179.43	-141.3	1.4	141.3	134.8	6.49	21.772		
500.0	500.0	497.2	497.2	3.1	3.7	179.36	-142.1	1.6	142.1	135.4	6.71	21.177		
600.0	600.0	596.8	596.8	3.1	3.9	179.30	-143.2	1.8	143.2	136.2	6.95	20.592		
700.0	700.0	696.5	696.4	3.1	4.2	179.16	-144.5	2.1	144.5	137.3	7.22	20.006		
800.0	800.0	796.2	796.1	3.2	4.5	179.05	-146.0	2.4	146.1	138.6	7.51	19.447		
900.0	900.0	896.7	896.7	3.2	4.7	178.95	-147.5	2.7	147.5	139.7	7.82	18.867		
1,000.0	1,000.0	999.0	999.0	3.2	5.0	178.65	-148.0	3.5	148.1	139.9	8.13	18.204		
1,100.0	1,100.0	1,102.5	1,102.4	3.3	5.3	178.37	-146.4	4.2	146.6	138.1	8.43	17.377		
1,200.0	1,200.0	1,203.2	1,203.1	3.4	5.5	178.24	-143.3	4.4	143.4	134.7	8.71	16.472		
1,300.0	1,300.0	1,303.1	1,302.9	3.4	5.8	178.23	-140.1	4.3	140.2	131.2	8.97	15.635		
1,400.0	1,400.0	1,402.9	1,402.7	3.5	5.9	178.30	-137.0	4.1	137.1	128.0	9.13	15.018		
1,500.0	1,500.0	1,502.4	1,502.2	3.5	6.0	178.46	-134.1	3.6	134.2	124.9	9.29	14.448		
1,600.0	1,600.0	1,599.8	1,599.5	3.6	6.1	178.81	-132.4	2.8	132.5	123.0	9.48	13.981		
1,666.7	1,666.7	1,665.4	1,665.2	3.7	6.2	179.15	-132.2	2.0	132.2	122.6	9.61	13.761		
1,700.0	1,700.0	1,698.6	1,698.3	3.7	6.2	179.34	-132.3	1.5	132.3	122.6	9.68	13.669		
1,800.0	1,800.0	1,798.9	1,798.6	3.8	6.3	179.90	-132.3	0.2	132.3	122.4	9.89	13.374		
1,900.0	1,900.0	1,899.1	1,898.8	3.9	6.4	-179.59	-132.1	-0.9	132.1	122.0	10.14	13.031		
1,965.0	1,965.0	1,963.8	1,963.5	3.9	6.5	-179.31	-132.0	-1.6	132.0	121.7	10.30	12.814		
2,000.0	2,000.0	1,998.8	1,998.5	3.9	6.6	-179.16	-132.0	-1.9	132.0	121.6	10.40	12.701		
2,100.0	2,100.0	2,098.8	2,098.5	4.0	6.7	-92.95	-132.0	-3.0	132.1	121.5	10.63	12.426		
2,200.0	2,199.8	2,198.8	2,198.5	4.0	6.9	-94.86	-131.9	-3.7	132.4	121.6	10.86	12.198		
2,250.0	2,249.7	2,248.8	2,248.5	4.0	7.0	-96.47	-131.9	-3.9	132.7	121.7	10.97	12.095		
2,300.0	2,299.5	2,298.7	2,298.4	4.1	7.1	-98.27	-131.7	-4.0	133.1	122.0	11.10	11.998		
2,400.0	2,399.1	2,398.3	2,397.9	4.1	7.4	-101.76	-131.5	-4.5	134.4	123.0	11.36	11.834		
2,500.0	2,498.7	2,496.7	2,496.4	4.1	7.6	-105.08	-131.7	-5.0	136.5	124.9	11.61	11.752		
2,600.0	2,598.4	2,594.7	2,594.4	4.2	7.8	-108.06	-133.0	-5.7	140.2	128.3	11.86	11.819		
2,700.0	2,698.0	2,694.1	2,693.7	4.2	8.0	-110.81	-135.3	-6.4	145.1	133.0	12.12	11.969		
2,800.0	2,797.6	2,794.2	2,793.8	4.3	8.3	-113.47	-137.4	-7.0	150.1	137.7	12.40	12.108		
2,900.0	2,897.2	2,894.2	2,893.8	4.4	8.5	-116.01	-139.0	-7.6	155.1	142.5	12.69	12.230		
3,000.0	2,996.8	2,994.7	2,994.3	4.4	8.8	-118.49	-140.3	-8.1	160.1	147.1	12.99	12.327		
3,100.0	3,096.4	3,094.6	3,094.1	4.5	9.1	-120.93	-141.1	-8.5	165.0	151.7	13.30	12.403		
3,200.0	3,196.1	3,194.0	3,193.5	4.5	9.4	-123.31	-141.8	-8.5	170.2	156.5	13.62	12.492		
3,300.0	3,295.7	3,293.2	3,292.8	4.6	9.6	-125.67	-142.4	-8.2	175.8	161.9	13.96	12.597		
3,400.0	3,395.3	3,392.9	3,392.5	4.7	9.9	-128.04	-142.8	-7.4	181.8	167.5	14.32	12.700		
3,500.0	3,494.9	3,492.9	3,492.5	4.8	10.2	-130.32	-142.9	-6.6	188.0	173.3	14.69	12.799		
3,600.0	3,594.5	3,593.0	3,592.5	4.8	10.5	-132.38	-143.0	-6.1	194.1	179.0	15.06	12.885		
3,700.0	3,694.2	3,692.0	3,691.5	4.9	10.7	-134.30	-143.0	-5.7	200.4	185.0	15.44	12.979		
3,800.0	3,793.8	3,790.2	3,789.7	5.0	11.0	-136.13	-143.4	-4.7	207.6	191.7	15.82	13.119		
3,900.0	3,893.4	3,888.7	3,888.3	5.1	11.3	-137.87	-144.0	-3.3	215.4	199.2	16.20	13.292		
4,000.0	3,993.0	3,986.6	3,986.2	5.2	11.6	-139.42	-145.2	-1.7	223.9	207.3	16.59	13.500		
4,100.0	4,092.6	4,085.9	4,085.4	5.3	11.9	-140.84	-147.0	0.3	233.3	216.3	16.98	13.740		
4,200.0	4,192.3	4,188.9	4,188.4	5.3	12.2	-142.27	-148.0	1.9	242.0	224.6	17.39	13.919		
4,300.0	4,291.9	4,290.1	4,289.6	5.4	12.5	-143.75	-147.5	2.9	249.4	231.6	17.79	14.015		
4,400.0	4,391.5	4,389.2	4,388.7	5.5	12.8	-145.04	-147.2	3.6	256.9	238.7	18.20	14.113		
4,500.0	4,491.1	4,489.0	4,488.5	5.6	13.1	-146.28	-147.0	4.5	264.6	246.0	18.61	14.214		
4,600.0	4,590.7	4,589.5	4,589.0	5.7	13.4	-147.49	-146.5	5.2	272.2	253.1	19.03	14.302		
4,700.0	4,690.4	4,689.5	4,688.9	5.8	13.7	-148.60	-145.9	5.6	279.6	260.1	19.44	14.380		
4,800.0	4,790.0	4,788.9	4,788.3	5.9	14.0	-149.59	-145.5	5.9	287.1	267.2	19.86	14.456		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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)	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)					
4,900.0	4,889.6	4,888.6	4,888.0	6.0	14.4	-150.50	-145.3	6.1	294.7	274.4	20.28	14.530			
5,000.0	4,989.2	4,988.1	4,987.6	6.1	14.7	-151.36	-145.1	6.2	302.3	281.6	20.71	14.602			
5,100.0	5,088.8	5,087.9	5,087.3	6.2	15.0	-152.20	-144.8	6.5	310.1	288.9	21.13	14.673			
5,200.0	5,188.5	5,188.1	5,187.6	6.3	15.3	-153.00	-144.5	6.6	317.7	296.2	21.56	14.739			
5,300.0	5,288.1	5,287.6	5,287.1	6.4	15.7	-153.77	-144.0	6.6	325.3	303.4	21.98	14.803			
5,400.0	5,387.7	5,386.8	5,386.2	6.5	16.0	-154.52	-143.5	6.8	333.1	310.7	22.41	14.866			
5,500.0	5,487.3	5,486.1	5,485.6	6.6	16.3	-155.25	-143.1	7.1	341.1	318.2	22.84	14.933			
5,600.0	5,586.9	5,586.1	5,585.5	6.7	16.7	-155.92	-142.7	7.3	349.0	325.7	23.28	14.993			
5,662.3	5,649.0	5,647.9	5,647.4	6.8	16.9	-156.31	-142.5	7.4	354.0	330.4	23.55	15.031			
5,700.0	5,686.6	5,685.4	5,684.9	6.8	17.0	-156.54	-142.4	7.5	356.9	333.2	23.72	15.048			
5,800.0	5,786.3	5,784.7	5,784.1	7.0	17.3	-157.06	-142.2	7.7	363.6	339.4	24.16	15.048			
5,900.0	5,886.2	5,884.0	5,883.4	7.1	17.7	-157.46	-142.0	8.1	368.9	344.3	24.61	14.989			
6,000.0	5,986.1	5,983.8	5,983.2	7.2	18.0	-157.77	-141.7	8.6	372.7	347.6	25.06	14.870			
6,100.0	6,086.1	6,084.3	6,083.8	7.3	18.4	-157.95	-141.5	9.1	374.8	349.3	25.52	14.688			
6,162.3	6,148.4	6,146.9	6,146.4	7.3	18.6	-115.48	-141.4	9.2	375.2	349.4	25.79	14.549			
6,200.0	6,186.1	6,184.7	6,184.1	7.4	18.7	-115.47	-141.4	9.3	375.3	349.3	25.95	14.463			
6,300.0	6,286.1	6,284.9	6,284.3	7.4	19.0	-115.45	-141.3	9.4	375.4	349.0	26.37	14.236			
6,400.0	6,386.1	6,384.9	6,384.4	7.5	19.4	-115.44	-141.3	9.5	375.4	348.6	26.77	14.021			
6,500.0	6,486.1	6,485.7	6,485.1	7.6	19.7	-115.46	-141.3	9.4	375.4	348.2	27.18	13.811			
6,600.0	6,586.1	6,585.4	6,584.8	7.7	20.0	-115.48	-141.4	9.2	375.2	347.7	27.59	13.602			
6,700.0	6,686.1	6,685.8	6,685.2	7.8	20.4	-115.53	-141.7	9.0	375.1	347.1	28.00	13.397			
6,800.0	6,786.1	6,787.1	6,786.5	7.9	20.7	-115.63	-142.1	8.4	374.8	346.4	28.42	13.189			
6,900.0	6,886.1	6,888.5	6,888.0	8.0	21.0	-115.79	-142.7	7.3	374.0	345.2	28.84	12.971			
7,000.0	6,986.1	6,989.0	6,988.4	8.1	21.4	-116.01	-143.6	5.7	373.1	343.8	29.26	12.751			
7,100.0	7,086.1	7,088.9	7,088.3	8.2	21.7	-116.26	-144.6	4.1	372.0	342.3	29.68	12.536			
7,200.0	7,186.1	7,188.1	7,187.5	8.3	22.1	-116.51	-145.7	2.6	371.1	341.0	30.10	12.331			
7,300.0	7,286.1	7,287.5	7,286.8	8.4	22.4	-116.80	-147.0	1.2	370.5	339.9	30.52	12.140			
7,400.0	7,386.1	7,388.8	7,388.1	8.4	22.7	-117.16	-148.8	-0.5	369.8	338.8	30.94	11.950			
7,500.0	7,486.1	7,493.0	7,492.3	8.5	23.1	-117.56	-150.4	-3.0	368.3	336.9	31.38	11.737			
7,600.0	7,586.1	7,602.8	7,602.0	8.6	23.5	-117.96	-151.0	-7.4	365.1	333.3	31.84	11.467			
7,700.0	7,686.1	7,707.0	7,706.0	8.7	23.8	-118.25	-149.9	-13.4	359.5	327.2	32.30	11.130			
7,800.0	7,786.1	7,808.2	7,807.0	8.8	24.2	-118.40	-147.7	-19.3	353.3	320.6	32.73	10.796			
7,900.0	7,886.1	7,909.2	7,907.8	8.9	24.5	-118.52	-145.2	-25.5	346.8	313.7	33.15	10.461			
8,000.0	7,986.1	8,009.2	8,007.6	9.0	24.9	-118.68	-142.8	-31.8	340.1	306.5	33.58	10.128			
8,100.0	8,086.1	8,109.0	8,107.1	9.1	25.2	-118.85	-140.5	-38.2	333.3	299.3	34.00	9.803			
8,200.0	8,186.1	8,209.8	8,207.7	9.2	25.5	-119.08	-138.2	-45.0	326.4	291.9	34.44	9.478			
8,300.0	8,286.1	8,310.3	8,307.9	9.4	25.9	-119.33	-136.0	-51.9	319.3	284.4	34.87	9.157			
8,400.0	8,386.1	8,413.7	8,411.0	9.5	26.2	-119.58	-133.2	-59.7	311.4	276.0	35.30	8.819			
8,500.0	8,486.1	8,515.1	8,512.0	9.6	26.6	-119.77	-129.6	-68.1	302.4	266.7	35.74	8.462			
8,600.0	8,586.1	8,616.3	8,612.7	9.7	26.9	-119.98	-125.9	-76.7	293.3	257.1	36.17	8.108			
8,700.0	8,686.1	8,716.9	8,712.8	9.8	27.3	-120.29	-122.1	-86.1	283.3	246.7	36.61	7.737			
8,800.0	8,786.1	8,815.3	8,810.8	9.9	27.6	-120.60	-118.6	-95.2	273.5	236.4	37.05	7.382			
8,900.0	8,886.1	8,914.5	8,909.5	10.0	27.9	-121.04	-115.5	-104.3	264.0	226.5	37.49	7.042			
9,000.0	8,986.1	9,016.8	9,011.2	10.1	28.3	-121.77	-113.1	-114.6	254.2	216.3	37.96	6.697			
9,100.0	9,086.1	9,118.2	9,111.9	10.2	28.7	-122.81	-111.0	-126.3	243.3	204.8	38.44	6.329			
9,200.0	9,186.1	9,218.1	9,211.1	10.3	29.0	-124.05	-109.0	-138.6	231.9	193.0	38.92	5.959			
9,300.0	9,286.1	9,318.2	9,310.4	10.4	29.4	-125.39	-106.8	-151.1	220.4	181.0	39.41	5.592			
9,400.0	9,386.1	9,419.9	9,411.2	10.5	29.7	-126.54	-102.9	-163.7	208.1	168.2	39.89	5.217			
9,500.0	9,486.1	9,520.6	9,510.9	10.6	30.1	-127.55	-97.7	-176.4	194.9	154.5	40.37	4.828			
9,600.0	9,586.1	9,620.1	9,609.4	10.7	30.4	-128.58	-91.9	-189.2	181.2	140.3	40.85	4.436			
9,700.0	9,686.1	9,717.6	9,706.0	10.9	30.8	-129.34	-85.6	-200.7	167.9	126.6	41.31	4.064			
9,800.0	9,786.1	9,814.0	9,801.7	11.0	31.1	-129.99	-79.5	-210.8	155.8	114.1	41.77	3.730			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
9,900.0	9,886.1	9,909.4	9,896.6	11.1	31.4	131.01		-75.7	-219.5	146.3	104.0	42.26	3.462	
10,000.0	9,986.1	10,006.9	9,993.8	11.2	31.8	132.32		-73.4	-226.9	139.0	96.3	42.76	3.251	
10,100.0	10,086.1	10,105.7	10,092.4	11.3	32.2	133.78		-71.6	-233.9	132.7	89.4	43.25	3.067	
10,200.0	10,186.1	10,204.0	10,190.5	11.4	32.5	135.12		-70.2	-239.7	127.4	83.7	43.74	2.913	
10,300.0	10,286.1	10,302.4	10,288.8	11.5	32.9	136.09		-68.8	-244.0	123.3	79.1	44.21	2.790	
10,400.0	10,386.1	10,401.6	10,388.0	11.6	33.2	136.88		-67.9	-247.2	120.4	75.8	44.68	2.696	
10,500.0	10,486.1	10,501.7	10,488.0	11.8	33.6	137.58		-66.7	-250.3	117.5	72.3	45.15	2.602	
10,600.0	10,586.1	10,601.1	10,587.3	11.9	33.9	138.18		-65.5	-253.0	114.7	69.1	45.62	2.515	
10,700.0	10,686.1	10,699.6	10,685.8	12.0	34.3	138.70		-64.8	-255.0	112.9	66.8	46.08	2.450	
10,800.0	10,786.1	10,798.8	10,785.0	12.1	34.6	139.03		-64.7	-255.9	112.2	65.7	46.54	2.412	
10,900.0	10,886.1	10,898.5	10,884.7	12.2	34.9	139.30		-64.9	-256.5	112.0	65.0	47.00	2.383	
10,950.8	10,936.9	10,949.2	10,935.4	12.3	35.1	139.46		-65.1	-256.7	112.0	64.7	47.23	2.370 CC	
11,000.0	10,986.1	10,998.2	10,984.4	12.3	35.3	139.62		-65.3	-256.9	112.0	64.5	47.45	2.360 ES	
11,100.0	11,086.1	11,096.7	11,082.9	12.4	35.6	140.08		-66.4	-257.2	112.7	64.8	47.90	2.353 SF	
11,200.0	11,186.1	11,192.0	11,178.1	12.6	35.9	140.97		-70.0	-256.6	116.0	67.6	48.36	2.399	
11,300.0	11,286.1	11,285.5	11,271.2	12.7	36.3	143.07		-78.6	-255.4	124.1	75.2	48.92	2.537	
11,400.0	11,386.1	11,377.0	11,361.5	12.8	36.7	146.41		-93.2	-254.3	137.9	88.4	49.50	2.785	
11,431.4	11,417.5	11,405.4	11,389.3	12.8	36.8	147.71		-99.1	-254.2	143.4	93.9	49.57	2.893	
11,450.0	11,436.1	11,421.6	11,405.0	12.8	36.8	148.70		-102.8	-254.3	147.3	97.7	49.66	2.966	
11,475.0	11,461.0	11,442.9	11,425.7	12.8	36.9	149.69		-108.1	-254.5	153.9	104.1	49.80	3.091	
11,500.0	11,485.8	11,463.3	11,445.3	12.9	37.0	150.76		-113.6	-254.8	162.1	112.2	49.95	3.246	
11,525.0	11,510.5	11,482.7	11,463.9	12.9	37.0	151.81		-119.2	-255.1	172.0	121.9	50.11	3.432	
11,550.0	11,534.8	11,494.0	11,474.7	12.9	37.1	152.09		-122.6	-255.3	183.6	133.3	50.30	3.649	
11,575.0	11,558.9	11,517.1	11,496.5	13.0	37.2	153.51		-130.1	-255.7	196.5	146.0	50.47	3.893	
11,600.0	11,582.6	11,532.2	11,510.7	13.0	37.3	154.11		-135.4	-255.9	211.1	160.5	50.65	4.169	
11,625.0	11,605.8	11,546.1	11,523.5	13.0	37.4	154.52		-140.6	-256.2	227.3	176.4	50.83	4.471	
11,650.0	11,628.5	11,558.7	11,535.2	13.1	37.4	154.70		-145.5	-256.4	244.7	193.7	51.01	4.798	
11,675.0	11,650.6	11,578.0	11,552.7	13.1	37.5	155.59		-153.4	-256.8	263.6	212.4	51.18	5.151	
11,700.0	11,672.1	11,578.0	11,552.7	13.1	37.5	153.95		-153.4	-256.8	283.3	232.0	51.35	5.517	
11,725.0	11,692.9	11,590.9	11,564.4	13.2	37.6	153.78		-159.0	-257.1	304.1	252.6	51.48	5.906	
11,750.0	11,712.9	11,600.1	11,572.6	13.2	37.6	152.86		-163.0	-257.3	325.6	274.0	51.61	6.310	
11,775.0	11,732.2	11,608.0	11,579.7	13.2	37.7	151.44		-166.6	-257.4	347.9	296.2	51.72	6.727	
11,800.0	11,750.5	11,614.8	11,585.8	13.3	37.7	149.34		-169.6	-257.6	370.8	319.0	51.83	7.155	
11,825.0	11,768.0	11,620.5	11,590.8	13.3	37.7	146.32		-172.2	-257.7	394.3	342.3	51.93	7.592	
11,850.0	11,784.5	11,625.0	11,594.9	13.3	37.8	141.95		-174.3	-257.8	418.1	366.1	52.02	8.038	
11,875.0	11,800.0	11,628.5	11,597.9	13.4	37.8	135.50		-175.9	-257.9	442.3	390.2	52.10	8.490	
11,900.0	11,814.4	11,637.0	11,605.5	13.4	37.8	128.97		-179.8	-258.0	466.9	414.7	52.18	8.947	
11,925.0	11,827.7	11,637.0	11,605.5	13.4	37.8	114.56		-179.8	-258.0	491.5	439.2	52.24	9.408	
11,950.0	11,840.0	11,637.0	11,605.5	13.5	37.8	94.87		-179.8	-258.0	516.2	463.9	52.30	9.871	
11,975.0	11,851.0	11,637.0	11,605.5	13.5	37.8	73.01		-179.8	-258.0	541.0	488.6	52.34	10.336	
12,000.0	11,860.9	11,637.0	11,605.5	13.5	37.8	54.47		-179.8	-258.0	565.7	513.3	52.38	10.801	
12,025.0	11,869.6	11,637.0	11,605.5	13.5	37.8	41.27		-179.8	-258.0	590.4	538.0	52.41	11.265	
12,050.0	11,877.0	11,625.9	11,595.7	13.6	37.8	30.06		-174.7	-257.8	614.7	562.3	52.41	11.729	
12,075.0	11,883.2	11,622.2	11,592.3	13.6	37.8	24.17		-173.0	-257.7	638.9	586.5	52.42	12.188	
12,100.0	11,888.0	11,617.7	11,588.4	13.6	37.7	20.00		-170.9	-257.6	662.9	610.4	52.42	12.644	
12,125.0	11,891.6	11,612.6	11,583.8	13.6	37.7	16.95		-168.6	-257.5	686.4	634.0	52.42	13.095	
12,150.0	11,893.9	11,606.8	11,578.6	13.6	37.7	14.64		-166.0	-257.4	709.6	657.2	52.41	13.541	
12,175.0	11,894.9	11,600.4	11,572.9	13.6	37.6	12.84		-163.2	-257.3	732.3	680.0	52.38	13.980	
12,181.4	11,895.0	11,598.6	11,571.3	13.6	37.6	12.45		-162.4	-257.2	738.1	685.7	52.38	14.093	
12,200.0	11,895.0	11,593.6	11,566.8	13.7	37.6	12.30		-160.2	-257.1	754.7	702.4	52.36	14.415	
12,300.0	11,895.0	11,578.0	11,552.7	13.7	37.5	11.87		-153.4	-256.8	845.0	792.7	52.29	16.160	
12,400.0	11,895.0	11,553.0	11,529.9	13.8	37.4	11.23		-143.3	-256.3	936.2	884.1	52.17	17.947	

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0			3.0	3.0	166.50	-139.6	33.5	143.6				
100.0	100.0	98.8	98.8	3.0	3.0	3.0	3.0	166.54	-139.6	33.4	143.6	137.6	6.00	23.926	
200.0	200.0	198.7	198.7	3.0	3.0	3.0	3.0	166.66	-139.7	33.1	143.5	137.5	6.01	23.894	
209.5	209.5	208.2	208.2	3.0	3.0	3.0	3.0	166.67	-139.7	33.1	143.5	137.5	6.01	23.890 CC, ES	
300.0	300.0	298.6	298.6	3.0	3.0	3.0	3.0	166.81	-139.8	32.7	143.6	137.5	6.02	23.847	
400.0	400.0	398.5	398.4	3.0	3.0	3.0	3.0	166.99	-140.0	32.3	143.7	137.6	6.04	23.788	
500.0	500.0	498.2	498.2	3.1	3.1	3.1	3.1	167.16	-140.3	32.0	143.9	137.9	6.07	23.718	
600.0	600.0	598.0	598.0	3.1	3.1	3.1	3.1	167.31	-140.9	31.7	144.4	138.3	6.11	23.640	
700.0	700.0	697.8	697.8	3.1	3.1	3.1	3.1	167.42	-141.5	31.6	144.9	138.8	6.16	23.534	
800.0	800.0	797.7	797.7	3.2	3.2	3.2	3.2	167.51	-142.1	31.5	145.6	139.4	6.22	23.397	
900.0	900.0	897.6	897.6	3.2	3.2	3.2	3.2	167.51	-142.9	31.6	146.3	140.0	6.30	23.232	
1,000.0	1,000.0	997.7	997.7	3.2	3.2	3.2	3.2	167.47	-143.5	31.9	147.0	140.6	6.39	23.023	
1,100.0	1,100.0	1,097.7	1,097.7	3.3	3.3	3.3	3.3	167.38	-144.1	32.3	147.7	141.2	6.48	22.776	
1,200.0	1,200.0	1,197.9	1,197.9	3.4	3.3	3.4	3.3	167.27	-144.7	32.7	148.3	141.7	6.58	22.545	
1,300.0	1,300.0	1,298.3	1,298.3	3.4	3.4	3.4	3.4	167.27	-145.1	32.8	148.7	142.1	6.67	22.285	
1,400.0	1,400.0	1,398.1	1,398.1	3.5	3.6	3.5	3.6	167.38	-145.4	32.6	149.0	142.2	6.79	21.959	
1,500.0	1,500.0	1,497.2	1,497.2	3.5	3.8	3.5	3.8	167.55	-146.2	32.3	149.7	142.8	6.94	21.577	
1,600.0	1,600.0	1,596.9	1,596.8	3.6	4.0	3.6	4.0	167.68	-147.4	32.2	150.9	143.7	7.14	21.114	
1,700.0	1,700.0	1,696.7	1,696.6	3.7	4.2	3.7	4.2	167.75	-148.7	32.3	152.2	144.8	7.40	20.576	
1,800.0	1,800.0	1,797.2	1,797.2	3.8	4.4	3.8	4.4	167.79	-150.0	32.5	153.5	145.8	7.68	19.996	
1,900.0	1,900.0	1,900.7	1,900.6	3.9	4.6	3.9	4.6	167.91	-149.8	32.1	153.3	145.3	7.98	19.195	
2,000.0	2,000.0	2,001.8	2,001.8	3.9	4.9	3.9	4.9	168.08	-148.2	31.3	151.5	143.1	8.35	18.133	
2,100.0	2,100.0	2,101.5	2,101.4	4.0	5.2	4.0	5.2	-106.01	-146.3	30.7	150.0	141.3	8.66	17.318	
2,162.8	2,162.7	2,164.0	2,163.9	4.0	5.3	4.0	5.3	-107.04	-145.3	30.4	149.7	140.9	8.84	16.943	
2,200.0	2,199.8	2,201.1	2,201.0	4.0	5.4	4.0	5.4	-107.86	-144.7	30.2	149.8	140.9	8.95	16.748	
2,250.0	2,249.7	2,250.9	2,250.8	4.0	5.6	4.0	5.6	-109.20	-144.0	29.8	150.2	141.2	9.09	16.531	
2,300.0	2,299.5	2,300.2	2,300.0	4.1	5.7	4.1	5.7	-110.64	-143.3	29.4	151.0	141.8	9.24	16.345	
2,400.0	2,399.1	2,399.1	2,399.0	4.1	5.9	4.1	5.9	-113.39	-142.7	28.4	153.4	143.8	9.56	16.047	
2,500.0	2,498.7	2,498.5	2,498.4	4.1	6.2	4.1	6.2	-115.96	-142.4	27.3	156.4	146.5	9.90	15.797	
2,600.0	2,598.4	2,598.3	2,598.1	4.2	6.5	4.2	6.5	-118.42	-142.3	26.2	159.8	149.5	10.25	15.583	
2,700.0	2,698.0	2,697.9	2,697.8	4.2	6.7	4.2	6.7	-120.83	-142.0	25.2	163.4	152.8	10.62	15.386	
2,800.0	2,797.6	2,797.3	2,797.2	4.3	7.0	4.3	7.0	-123.15	-141.8	24.3	167.4	156.4	10.99	15.227	
2,900.0	2,897.2	2,895.2	2,895.1	4.4	7.4	4.4	7.4	-125.67	-141.4	24.6	172.2	160.6	11.56	14.897	
3,000.0	2,996.8	2,992.8	2,992.6	4.4	7.9	4.4	7.9	-128.90	-140.5	27.8	178.5	166.2	12.31	14.507	
3,100.0	3,096.4	3,093.8	3,093.5	4.5	8.4	4.5	8.4	-132.15	-139.5	31.5	185.6	172.8	12.80	14.501	
3,200.0	3,196.1	3,194.7	3,194.4	4.5	8.7	4.5	8.7	-134.66	-138.7	33.3	192.2	179.0	13.17	14.587	
3,300.0	3,295.7	3,293.5	3,293.2	4.6	9.0	4.6	9.0	-136.89	-137.9	34.8	198.8	185.3	13.54	14.689	
3,400.0	3,395.3	3,393.2	3,392.9	4.7	9.3	4.7	9.3	-139.12	-136.9	36.6	205.9	192.0	13.91	14.805	
3,500.0	3,494.9	3,492.8	3,492.5	4.8	9.6	4.8	9.6	-141.11	-136.0	38.2	213.1	198.9	14.29	14.920	
3,600.0	3,594.5	3,592.4	3,592.0	4.8	9.9	4.8	9.9	-142.86	-135.4	39.4	220.5	205.9	14.67	15.030	
3,700.0	3,694.2	3,691.2	3,690.8	4.9	10.2	4.9	10.2	-144.43	-135.0	40.6	228.2	213.2	15.06	15.151	
3,800.0	3,793.8	3,790.5	3,790.1	5.0	10.5	5.0	10.5	-145.92	-134.9	42.2	236.6	221.1	15.47	15.296	
3,900.0	3,893.4	3,892.7	3,892.3	5.1	10.9	5.1	10.9	-147.18	-134.9	42.6	244.2	228.3	15.88	15.378	
4,000.0	3,993.0	3,991.6	3,991.2	5.2	11.2	5.2	11.2	-148.21	-134.9	42.4	251.5	235.2	16.27	15.459	
4,100.0	4,092.6	4,089.0	4,088.6	5.3	11.5	5.3	11.5	-149.12	-135.6	42.8	259.6	243.0	16.65	15.592	
4,200.0	4,192.3	4,190.8	4,190.4	5.3	11.8	5.3	11.8	-149.97	-136.6	43.3	268.1	251.0	17.05	15.720	
4,300.0	4,291.9	4,295.0	4,294.5	5.4	12.1	5.4	12.1	-150.78	-136.8	42.3	274.9	257.5	17.49	15.722	
4,400.0	4,391.5	4,395.8	4,395.3	5.5	12.5	5.5	12.5	-151.49	-136.5	40.3	280.8	262.9	17.92	15.672	
4,500.0	4,491.1	4,495.8	4,495.3	5.6	12.8	5.6	12.8	-152.13	-136.3	38.3	286.6	268.3	18.34	15.626	
4,600.0	4,590.7	4,593.1	4,592.6	5.7	13.1	5.7	13.1	-152.94	-135.4	37.0	292.8	274.0	18.76	15.608	
4,700.0	4,690.4	4,691.2	4,690.7	5.8	13.5	5.8	13.5	-154.16	-132.8	37.6	299.8	280.6	19.20	15.614	
4,800.0	4,790.0	4,790.5	4,789.9	5.9	13.8	5.9	13.8	-155.65	-128.9	39.2	307.2	287.6	19.62	15.662	

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,900.0	4,889.6	4,890.4	4,889.6	6.0	14.1	-157.38	-123.5	41.5	314.8	294.8	20.03	15.719		
5,000.0	4,989.2	4,989.7	4,988.7	6.1	14.4	-159.16	-117.3	44.0	322.6	302.1	20.44	15.782		
5,100.0	5,088.8	5,089.1	5,087.9	6.2	14.8	-160.81	-111.3	46.4	330.6	309.7	20.85	15.852		
5,200.0	5,188.5	5,187.9	5,186.6	6.3	15.1	-162.32	-105.7	48.7	338.9	317.6	21.27	15.930		
5,300.0	5,288.1	5,284.6	5,283.0	6.4	15.4	-163.86	-99.6	51.6	347.8	326.2	21.68	16.041		
5,400.0	5,387.7	5,382.0	5,380.0	6.5	15.7	-165.59	-92.1	55.6	357.7	335.6	22.10	16.186		
5,500.0	5,487.3	5,481.2	5,478.8	6.6	16.1	-167.36	-83.9	60.1	368.1	345.6	22.52	16.345		
5,600.0	5,586.9	5,580.9	5,578.0	6.7	16.4	-169.04	-75.6	64.3	378.6	355.6	22.94	16.499		
5,662.3	5,649.0	5,642.8	5,639.7	6.8	16.6	-170.03	-70.5	66.9	385.2	362.0	23.21	16.593		
5,700.0	5,686.6	5,680.0	5,676.7	6.8	16.8	-170.59	-67.6	68.4	389.1	365.7	23.38	16.643		
5,800.0	5,786.3	5,781.3	5,777.7	7.0	17.1	-171.74	-61.5	72.0	398.4	374.6	23.84	16.715		
5,900.0	5,886.2	5,884.4	5,880.8	7.1	17.5	-172.38	-58.2	74.0	405.0	380.7	24.32	16.654		
6,000.0	5,986.1	5,984.2	5,980.6	7.2	17.9	-172.61	-57.3	75.1	409.7	384.9	24.80	16.523		
6,100.0	6,086.1	6,084.1	6,080.5	7.3	18.3	-172.68	-57.3	76.2	412.7	387.4	25.26	16.340		
6,162.3	6,148.4	6,146.6	6,143.0	7.3	18.5	100.75	-57.2	76.9	413.7	388.1	25.52	16.209		
6,200.0	6,186.1	6,184.6	6,180.9	7.4	18.6	100.74	-57.1	77.3	414.0	388.4	25.67	16.129		
6,300.0	6,286.1	6,284.9	6,281.3	7.4	18.9	100.71	-57.1	78.2	414.9	388.8	26.07	15.918		
6,400.0	6,386.1	6,384.9	6,381.2	7.5	19.3	100.70	-57.2	79.0	415.7	389.3	26.46	15.712		
6,500.0	6,486.1	6,485.1	6,481.5	7.6	19.6	100.69	-57.3	79.8	416.6	389.7	26.85	15.513		
6,600.0	6,586.1	6,584.9	6,581.3	7.7	19.9	100.69	-57.4	80.6	417.4	390.1	27.25	15.318		
6,700.0	6,686.1	6,685.4	6,681.8	7.8	20.3	100.68	-57.5	81.4	418.2	390.5	27.64	15.126		
6,800.0	6,786.1	6,786.0	6,782.4	7.9	20.6	100.68	-57.6	82.0	418.8	390.8	28.04	14.935		
6,900.0	6,886.1	6,887.4	6,883.7	8.0	20.9	100.69	-57.8	82.4	419.2	390.8	28.44	14.742		
7,000.0	6,986.1	6,987.6	6,984.0	8.1	21.3	100.72	-58.0	82.6	419.4	390.6	28.82	14.551		
7,100.0	7,086.1	7,087.8	7,084.2	8.2	21.6	100.77	-58.4	82.7	419.6	390.4	29.21	14.363		
7,200.0	7,186.1	7,188.3	7,184.7	8.3	21.9	100.83	-58.8	82.7	419.7	390.1	29.61	14.174		
7,300.0	7,286.1	7,288.4	7,284.7	8.4	22.3	100.90	-59.4	82.6	419.7	389.7	30.00	13.987		
7,400.0	7,386.1	7,389.0	7,385.3	8.4	22.6	101.00	-60.0	82.4	419.6	389.2	30.40	13.803		
7,500.0	7,486.1	7,489.8	7,486.1	8.5	23.0	101.10	-60.7	82.0	419.4	388.6	30.81	13.613		
7,600.0	7,586.1	7,590.6	7,586.9	8.6	23.3	101.20	-61.4	81.5	419.0	387.8	31.21	13.424		
7,700.0	7,686.1	7,691.1	7,687.5	8.7	23.6	101.31	-62.0	80.7	418.4	386.8	31.62	13.232		
7,800.0	7,786.1	7,791.2	7,787.5	8.8	24.0	101.41	-62.7	80.0	417.7	385.7	32.02	13.044		
7,900.0	7,886.1	7,891.3	7,887.6	8.9	24.3	101.53	-63.3	79.1	417.0	384.6	32.43	12.859		
8,000.0	7,986.1	7,991.7	7,988.0	9.0	24.7	101.63	-63.9	78.3	416.3	383.5	32.84	12.676		
8,100.0	8,086.1	8,091.9	8,088.2	9.1	25.0	101.75	-64.6	77.3	415.5	382.3	33.25	12.496		
8,200.0	8,186.1	8,192.2	8,188.5	9.2	25.4	101.87	-65.3	76.3	414.6	381.0	33.66	12.317		
8,300.0	8,286.1	8,292.4	8,288.7	9.4	25.7	101.99	-66.0	75.2	413.7	379.6	34.08	12.141		
8,400.0	8,386.1	8,392.7	8,389.0	9.5	26.1	102.13	-66.8	74.0	412.7	378.2	34.49	11.967		
8,500.0	8,486.1	8,492.7	8,489.0	9.6	26.4	102.29	-67.6	72.7	411.7	376.8	34.90	11.795		
8,600.0	8,586.1	8,592.5	8,588.8	9.7	26.7	102.45	-68.5	71.5	410.7	375.4	35.32	11.627		
8,700.0	8,686.1	8,693.6	8,689.8	9.8	27.1	102.59	-69.3	70.4	409.7	374.0	35.74	11.465		
8,800.0	8,786.1	8,797.3	8,793.5	9.9	27.4	102.79	-70.2	68.1	407.9	371.7	36.16	11.278		
8,900.0	8,886.1	8,897.1	8,893.3	10.0	27.8	103.06	-71.7	65.7	405.8	369.2	36.59	11.091		
9,000.0	8,986.1	9,000.5	8,996.6	10.1	28.1	103.04	-71.0	63.3	403.4	366.4	37.00	10.904		
9,100.0	9,086.1	9,104.6	9,100.6	10.2	28.5	102.72	-68.0	60.2	399.9	362.5	37.39	10.695		
9,200.0	9,186.1	9,205.5	9,201.5	10.3	28.8	102.50	-65.6	56.5	395.7	357.9	37.78	10.473		
9,300.0	9,286.1	9,302.1	9,298.0	10.4	29.2	102.39	-64.0	53.0	391.8	353.6	38.18	10.263		
9,400.0	9,386.1	9,392.5	9,388.3	10.5	29.5	102.19	-62.3	51.2	389.5	351.0	38.56	10.101		
9,436.2	9,422.3	9,424.6	9,420.5	10.6	29.6	102.06	-61.4	51.3	389.4	350.7	38.71	10.060		
9,500.0	9,486.1	9,481.3	9,477.1	10.6	29.9	101.73	-59.3	52.3	390.0	351.0	39.00	10.002		
9,600.0	9,586.1	9,577.3	9,572.9	10.7	30.3	100.96	-54.6	56.0	392.8	353.4	39.42	9.965		
9,700.0	9,686.1	9,679.7	9,675.0	10.9	30.6	100.12	-49.5	59.9	395.7	355.9	39.80	9.942		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 92- VES GyroFlex, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,800.0	9,786.1	9,779.2	9,774.4	11.0	31.0	99.41	-45.1	63.1	398.1	357.9	40.17	9.912		
9,900.0	9,886.1	9,880.8	9,876.0	11.1	31.3	98.81	-41.3	66.2	400.5	360.0	40.54	9.880		
10,000.0	9,986.1	9,983.1	9,978.1	11.2	31.7	98.28	-37.9	68.7	402.4	361.5	40.92	9.834		
10,100.0	10,086.1	10,077.2	10,072.2	11.3	32.0	98.06	-36.7	71.1	404.8	363.5	41.31	9.798		
10,200.0	10,186.1	10,170.0	10,164.8	11.4	32.3	98.38	-39.5	74.5	408.9	367.1	41.73	9.799		
10,300.0	10,286.1	10,280.5	10,275.1	11.5	32.7	99.06	-44.9	77.5	412.2	370.0	42.17	9.774		
10,400.0	10,386.1	10,381.7	10,376.3	11.6	33.1	99.68	-49.7	79.0	414.4	371.8	42.61	9.726		
10,500.0	10,486.1	10,483.9	10,478.4	11.8	33.4	100.24	-54.0	80.0	416.2	373.2	43.05	9.668		
10,600.0	10,586.1	10,586.5	10,580.9	11.9	33.8	100.74	-57.8	80.7	417.5	374.0	43.49	9.600		
10,700.0	10,686.1	10,688.4	10,682.8	12.0	34.1	101.18	-61.1	80.7	418.1	374.2	43.92	9.519		
10,800.0	10,786.1	10,789.7	10,784.0	12.1	34.5	101.57	-63.9	80.5	418.5	374.1	44.36	9.434		
10,900.0	10,886.1	10,889.5	10,883.8	12.2	34.8	101.86	-66.0	80.2	418.6	373.8	44.78	9.347		
11,000.0	10,986.1	10,988.8	10,983.1	12.3	35.2	102.02	-67.2	80.3	418.9	373.7	45.20	9.269		
11,100.0	11,086.1	11,088.6	11,082.9	12.4	35.5	102.06	-67.6	80.6	419.4	373.8	45.61	9.195		
11,200.0	11,186.1	11,189.3	11,183.6	12.6	35.8	102.09	-67.9	80.9	419.7	373.7	46.02	9.121		
11,300.0	11,286.1	11,289.4	11,283.7	12.7	36.2	102.17	-68.6	81.1	420.0	373.6	46.43	9.046		
11,400.0	11,386.1	11,389.3	11,383.6	12.8	36.5	102.28	-69.4	81.2	420.3	373.4	46.85	8.971		
11,431.4	11,417.5	11,420.7	11,415.0	12.8	36.6	102.32	-69.7	81.2	420.4	373.4	46.97	8.951		
11,450.0	11,436.1	11,439.3	11,433.5	12.8	36.7	102.74	-69.9	81.2	420.5	373.5	47.04	8.940		
11,475.0	11,461.0	11,464.2	11,458.5	12.8	36.8	102.94	-70.2	81.2	420.9	373.8	47.14	8.929		
11,500.0	11,485.8	11,489.0	11,483.3	12.9	36.9	103.27	-70.4	81.2	421.7	374.4	47.26	8.923		
11,525.0	11,510.5	11,513.6	11,507.9	12.9	37.0	103.73	-70.7	81.2	422.8	375.4	47.39	8.921 SF		
11,550.0	11,534.8	11,537.9	11,532.2	12.9	37.1	104.31	-71.0	81.3	424.2	376.7	47.54	8.924		
11,575.0	11,558.9	11,561.9	11,556.2	13.0	37.1	104.98	-71.3	81.3	426.1	378.4	47.69	8.934		
11,600.0	11,582.6	11,585.4	11,579.7	13.0	37.2	105.72	-71.6	81.3	428.4	380.6	47.86	8.952		
11,625.0	11,605.8	11,608.4	11,602.7	13.0	37.3	106.53	-71.9	81.3	431.3	383.2	48.03	8.978		
11,650.0	11,628.5	11,630.9	11,625.1	13.1	37.4	107.36	-72.2	81.3	434.7	386.5	48.22	9.015		
11,675.0	11,650.6	11,652.7	11,647.0	13.1	37.5	108.21	-72.5	81.3	438.8	390.4	48.41	9.064		
11,700.0	11,672.1	11,673.9	11,668.2	13.1	37.5	109.04	-72.8	81.3	443.6	395.0	48.61	9.126		
11,725.0	11,692.9	11,694.5	11,688.8	13.2	37.6	109.84	-73.1	81.3	449.2	400.4	48.82	9.203		
11,750.0	11,712.9	11,714.4	11,708.6	13.2	37.7	110.57	-73.4	81.3	455.7	406.7	49.02	9.295		
11,775.0	11,732.2	11,733.4	11,727.6	13.2	37.7	111.22	-73.7	81.3	463.0	413.8	49.23	9.404		
11,800.0	11,750.5	11,751.5	11,745.7	13.3	37.8	111.76	-74.0	81.3	471.2	421.8	49.44	9.531		
11,825.0	11,768.0	11,768.7	11,762.9	13.3	37.9	112.16	-74.2	81.3	480.4	430.8	49.65	9.677		
11,850.0	11,784.5	11,785.1	11,779.3	13.3	37.9	112.41	-74.5	81.3	490.6	440.8	49.85	9.842		
11,875.0	11,800.0	11,800.5	11,794.7	13.4	38.0	112.49	-74.7	81.3	501.8	451.7	50.05	10.026		
11,900.0	11,814.4	11,814.8	11,809.0	13.4	38.0	112.36	-74.9	81.3	513.9	463.7	50.24	10.230		
11,925.0	11,827.7	11,828.0	11,822.2	13.4	38.1	111.99	-75.1	81.3	527.0	476.6	50.41	10.454		
11,950.0	11,840.0	11,840.1	11,834.3	13.5	38.1	111.38	-75.3	81.3	541.1	490.5	50.58	10.697		
11,975.0	11,851.0	11,851.0	11,845.2	13.5	38.1	110.48	-75.4	81.3	556.0	505.3	50.74	10.959		
12,000.0	11,860.9	11,860.7	11,854.9	13.5	38.2	109.28	-75.6	81.2	571.9	521.0	50.89	11.238		
12,025.0	11,869.6	11,869.0	11,863.2	13.5	38.2	107.72	-75.7	81.2	588.5	537.5	51.02	11.536		
12,050.0	11,877.0	11,876.1	11,870.4	13.6	38.2	105.81	-75.8	81.2	605.9	554.8	51.14	11.849		
12,075.0	11,883.2	11,882.0	11,876.2	13.6	38.3	103.50	-75.8	81.2	624.0	572.8	51.25	12.178		
12,100.0	11,888.0	11,886.6	11,880.8	13.6	38.3	100.79	-75.9	81.2	642.8	591.4	51.34	12.520		
12,125.0	11,891.6	11,889.9	11,884.1	13.6	38.3	97.65	-75.9	81.2	662.0	610.6	51.42	12.875		
12,150.0	11,893.9	11,891.9	11,886.1	13.6	38.3	94.09	-76.0	81.2	681.8	630.3	51.49	13.241		
12,175.0	11,894.9	11,892.5	11,886.8	13.6	38.3	90.11	-76.0	81.2	701.9	650.4	51.55	13.616		
12,181.4	11,895.0	11,892.5	11,886.7	13.6	38.3	89.03	-76.0	81.2	707.1	655.6	51.56	13.714		
12,200.0	11,895.0	11,892.2	11,886.5	13.7	38.3	89.00	-76.0	81.2	722.3	670.7	51.60	14.000		
12,300.0	11,895.0	11,891.0	11,885.2	13.7	38.3	88.82	-76.0	81.2	806.7	754.9	51.75	15.588		
12,400.0	11,895.0	11,889.7	11,883.9	13.8	38.3	88.64	-75.9	81.2	894.2	842.3	51.86	17.244		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,500.0	11,895.0	11,888.4	11,882.6	13.9	38.3	88.45	+N/-S (usft)	+E/-W (usft)	984.1	932.2	51.93	18.950		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	3.0	166.50	-139.6	33.5	143.6	143.6				
100.0	100.0	98.8	98.8	3.0	3.0	3.0	166.54	-139.6	33.4	143.6	137.6	6.00	23.926		
200.0	200.0	198.7	198.7	3.0	3.0	3.0	166.66	-139.7	33.1	143.5	137.5	6.01	23.894		
209.5	209.5	208.2	208.2	3.0	3.0	3.0	166.67	-139.7	33.1	143.5	137.5	6.01	23.890 CC, ES		
300.0	300.0	298.6	298.6	3.0	3.0	3.0	166.81	-139.8	32.7	143.6	137.5	6.02	23.847		
400.0	400.0	398.5	398.4	3.0	3.0	3.0	166.99	-140.0	32.3	143.7	137.6	6.04	23.788		
500.0	500.0	498.2	498.2	3.1	3.1	3.1	167.16	-140.3	32.0	143.9	137.9	6.07	23.718		
600.0	600.0	598.0	598.0	3.1	3.1	3.1	167.31	-140.9	31.7	144.4	138.3	6.11	23.640		
700.0	700.0	697.8	697.8	3.1	3.1	3.1	167.42	-141.5	31.6	144.9	138.8	6.16	23.534		
800.0	800.0	797.7	797.7	3.2	3.2	3.2	167.51	-142.1	31.5	145.6	139.4	6.22	23.397		
900.0	900.0	897.6	897.6	3.2	3.2	3.2	167.51	-142.9	31.6	146.3	140.0	6.30	23.232		
1,000.0	1,000.0	997.7	997.7	3.2	3.2	3.2	167.47	-143.5	31.9	147.0	140.6	6.39	23.023		
1,100.0	1,100.0	1,097.7	1,097.7	3.3	3.3	3.3	167.38	-144.1	32.3	147.7	141.2	6.48	22.776		
1,200.0	1,200.0	1,197.9	1,197.9	3.4	3.3	3.4	167.27	-144.7	32.7	148.3	141.7	6.58	22.545		
1,300.0	1,300.0	1,298.3	1,298.3	3.4	3.4	3.4	167.27	-145.1	32.8	148.7	142.1	6.67	22.285		
1,400.0	1,400.0	1,398.1	1,398.1	3.5	3.6	3.5	167.38	-145.4	32.6	149.0	142.2	6.79	21.959		
1,500.0	1,500.0	1,497.2	1,497.2	3.5	3.8	3.5	167.55	-146.2	32.3	149.7	142.8	6.94	21.577		
1,600.0	1,600.0	1,596.9	1,596.8	3.6	4.0	3.6	167.68	-147.4	32.2	150.9	143.7	7.14	21.114		
1,700.0	1,700.0	1,696.7	1,696.6	3.7	4.2	3.7	167.75	-148.7	32.3	152.2	144.8	7.40	20.576		
1,800.0	1,800.0	1,797.2	1,797.2	3.8	4.4	3.8	167.79	-150.0	32.5	153.5	145.8	7.68	19.996		
1,900.0	1,900.0	1,900.7	1,900.6	3.9	4.6	3.9	167.91	-149.8	32.1	153.3	145.3	7.98	19.195		
2,000.0	2,000.0	2,001.8	2,001.8	3.9	4.9	3.9	168.08	-148.2	31.3	151.5	143.1	8.35	18.133		
2,100.0	2,100.0	2,101.5	2,101.4	4.0	5.2	4.0	-106.01	-146.3	30.7	150.0	141.3	8.66	17.318		
2,162.8	2,162.7	2,164.0	2,163.9	4.0	5.3	4.0	-107.04	-145.3	30.4	149.7	140.9	8.84	16.943		
2,200.0	2,199.8	2,201.1	2,201.0	4.0	5.4	4.0	-107.86	-144.7	30.2	149.8	140.9	8.95	16.748		
2,250.0	2,249.7	2,250.9	2,250.8	4.0	5.6	4.0	-109.20	-144.0	29.8	150.2	141.2	9.09	16.531		
2,300.0	2,299.5	2,300.2	2,300.0	4.1	5.7	4.1	-110.64	-143.3	29.4	151.0	141.8	9.24	16.345		
2,400.0	2,399.1	2,399.1	2,399.0	4.1	5.9	4.1	-113.39	-142.7	28.4	153.4	143.8	9.56	16.047		
2,500.0	2,498.7	2,498.5	2,498.4	4.1	6.2	4.1	-115.96	-142.4	27.3	156.4	146.5	9.90	15.797		
2,600.0	2,598.4	2,598.3	2,598.1	4.2	6.5	4.2	-118.42	-142.3	26.2	159.8	149.5	10.25	15.583		
2,700.0	2,698.0	2,697.9	2,697.8	4.2	6.7	4.2	-120.83	-142.0	25.2	163.4	152.8	10.62	15.386		
2,800.0	2,797.6	2,797.3	2,797.2	4.3	7.0	4.3	-123.15	-141.8	24.3	167.4	156.4	10.99	15.227		
2,900.0	2,897.2	2,895.2	2,895.1	4.4	7.4	4.4	-125.67	-141.4	24.6	172.2	160.6	11.56	14.897		
3,000.0	2,996.8	2,992.8	2,992.6	4.4	7.9	4.4	-128.90	-140.5	27.8	178.5	166.2	12.31	14.507		
3,100.0	3,096.4	3,093.8	3,093.5	4.5	8.4	4.5	-132.15	-139.5	31.5	185.6	172.8	12.80	14.501		
3,200.0	3,196.1	3,194.7	3,194.4	4.5	8.7	4.5	-134.66	-138.7	33.3	192.2	179.0	13.17	14.587		
3,300.0	3,295.7	3,293.5	3,293.2	4.6	9.0	4.6	-136.89	-137.9	34.8	198.8	185.3	13.54	14.689		
3,400.0	3,395.3	3,393.2	3,392.9	4.7	9.3	4.7	-139.12	-136.9	36.6	205.9	192.0	13.91	14.805		
3,500.0	3,494.9	3,492.8	3,492.5	4.8	9.6	4.8	-141.11	-136.0	38.2	213.1	198.9	14.29	14.920		
3,600.0	3,594.5	3,592.4	3,592.0	4.8	9.9	4.8	-142.86	-135.4	39.4	220.5	205.9	14.67	15.030		
3,700.0	3,694.2	3,691.2	3,690.8	4.9	10.2	4.9	-144.43	-135.0	40.6	228.2	213.2	15.06	15.151		
3,800.0	3,793.8	3,790.5	3,790.1	5.0	10.5	5.0	-145.92	-134.9	42.2	236.6	221.1	15.47	15.296		
3,900.0	3,893.4	3,892.7	3,892.3	5.1	10.9	5.1	-147.18	-134.9	42.6	244.2	228.3	15.88	15.378		
4,000.0	3,993.0	3,991.6	3,991.2	5.2	11.2	5.2	-148.21	-134.9	42.4	251.5	235.2	16.27	15.459		
4,100.0	4,092.6	4,089.0	4,088.6	5.3	11.5	5.3	-149.12	-135.6	42.8	259.6	243.0	16.65	15.592		
4,200.0	4,192.3	4,190.8	4,190.4	5.3	11.8	5.3	-149.97	-136.6	43.3	268.1	251.0	17.05	15.720		
4,300.0	4,291.9	4,295.0	4,294.5	5.4	12.1	5.4	-150.78	-136.8	42.3	274.9	257.5	17.49	15.722		
4,400.0	4,391.5	4,395.8	4,395.3	5.5	12.5	5.5	-151.49	-136.5	40.3	280.8	262.9	17.92	15.672		
4,500.0	4,491.1	4,495.8	4,495.3	5.6	12.8	5.6	-152.13	-136.3	38.3	286.6	268.3	18.34	15.626		
4,600.0	4,590.7	4,593.1	4,592.6	5.7	13.1	5.7	-152.94	-135.4	37.0	292.8	274.0	18.76	15.608		
4,700.0	4,690.4	4,691.2	4,690.7	5.8	13.5	5.8	-154.16	-132.8	37.6	299.8	280.6	19.20	15.614		
4,800.0	4,790.0	4,790.5	4,789.9	5.9	13.8	5.9	-155.65	-128.9	39.2	307.2	287.6	19.62	15.662		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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
4,900.0	4,889.6	4,890.4	4,889.6	6.0	14.1	-157.38		-123.5	41.5	314.8	294.8	20.03	15.719	
5,000.0	4,989.2	4,989.7	4,988.7	6.1	14.4	-159.16		-117.3	44.0	322.6	302.1	20.44	15.782	
5,100.0	5,088.8	5,089.1	5,087.9	6.2	14.8	-160.81		-111.3	46.4	330.6	309.7	20.85	15.852	
5,200.0	5,188.5	5,187.9	5,186.6	6.3	15.1	-162.32		-105.7	48.7	338.9	317.6	21.27	15.930	
5,300.0	5,288.1	5,284.6	5,283.0	6.4	15.4	-163.86		-99.6	51.6	347.8	326.2	21.68	16.041	
5,400.0	5,387.7	5,382.0	5,380.0	6.5	15.7	-165.59		-92.1	55.6	357.7	335.6	22.10	16.186	
5,500.0	5,487.3	5,481.2	5,478.8	6.6	16.1	-167.36		-83.9	60.1	368.1	345.6	22.52	16.345	
5,600.0	5,586.9	5,580.9	5,578.0	6.7	16.4	-169.04		-75.6	64.3	378.6	355.6	22.94	16.499	
5,662.3	5,649.0	5,642.8	5,639.7	6.8	16.6	-170.03		-70.5	66.9	385.2	362.0	23.21	16.593	
5,700.0	5,686.6	5,680.0	5,676.7	6.8	16.8	-170.59		-67.6	68.4	389.1	365.7	23.38	16.643	
5,800.0	5,786.3	5,781.3	5,777.7	7.0	17.1	-171.74		-61.5	72.0	398.4	374.6	23.84	16.715	
5,900.0	5,886.2	5,884.4	5,880.8	7.1	17.5	-172.38		-58.2	74.0	405.0	380.7	24.32	16.654	
6,000.0	5,986.1	5,984.2	5,980.6	7.2	17.9	-172.61		-57.3	75.1	409.7	384.9	24.80	16.523	
6,100.0	6,086.1	6,084.1	6,080.5	7.3	18.3	-172.68		-57.3	76.2	412.7	387.4	25.26	16.340	
6,162.3	6,148.4	6,146.6	6,143.0	7.3	18.5	100.75		-57.2	76.9	413.7	388.1	25.52	16.209	
6,200.0	6,186.1	6,184.6	6,180.9	7.4	18.6	100.74		-57.1	77.3	414.0	388.4	25.67	16.129	
6,300.0	6,286.1	6,284.9	6,281.3	7.4	18.9	100.71		-57.1	78.2	414.9	388.8	26.07	15.918	
6,400.0	6,386.1	6,384.9	6,381.2	7.5	19.3	100.70		-57.2	79.0	415.7	389.3	26.46	15.712	
6,500.0	6,486.1	6,485.1	6,481.5	7.6	19.6	100.69		-57.3	79.8	416.6	389.7	26.85	15.513	
6,600.0	6,586.1	6,584.9	6,581.3	7.7	19.9	100.69		-57.4	80.6	417.4	390.1	27.25	15.318	
6,700.0	6,686.1	6,685.4	6,681.8	7.8	20.3	100.68		-57.5	81.4	418.2	390.5	27.64	15.126	
6,800.0	6,786.1	6,786.0	6,782.4	7.9	20.6	100.68		-57.6	82.0	418.8	390.8	28.04	14.935	
6,900.0	6,886.1	6,887.4	6,883.7	8.0	20.9	100.69		-57.8	82.4	419.2	390.8	28.44	14.742	
7,000.0	6,986.1	6,987.6	6,984.0	8.1	21.3	100.72		-58.0	82.6	419.4	390.6	28.82	14.551	
7,100.0	7,086.1	7,087.8	7,084.2	8.2	21.6	100.77		-58.4	82.7	419.6	390.4	29.21	14.363	
7,200.0	7,186.1	7,188.3	7,184.7	8.3	21.9	100.83		-58.8	82.7	419.7	390.1	29.61	14.174	
7,300.0	7,286.1	7,288.4	7,284.7	8.4	22.3	100.90		-59.4	82.6	419.7	389.7	30.00	13.987	
7,400.0	7,386.1	7,389.0	7,385.3	8.4	22.6	101.00		-60.0	82.4	419.6	389.2	30.40	13.803	
7,500.0	7,486.1	7,489.8	7,486.1	8.5	23.0	101.10		-60.7	82.0	419.4	388.6	30.81	13.613	
7,600.0	7,586.1	7,590.6	7,586.9	8.6	23.3	101.20		-61.4	81.5	419.0	387.8	31.21	13.424	
7,700.0	7,686.1	7,691.1	7,687.5	8.7	23.6	101.31		-62.0	80.7	418.4	386.8	31.62	13.232	
7,800.0	7,786.1	7,791.2	7,787.5	8.8	24.0	101.41		-62.7	80.0	417.7	385.7	32.02	13.044	
7,900.0	7,886.1	7,891.3	7,887.6	8.9	24.3	101.53		-63.3	79.1	417.0	384.6	32.43	12.859	
8,000.0	7,986.1	7,991.7	7,988.0	9.0	24.7	101.63		-63.9	78.3	416.3	383.5	32.84	12.676	
8,100.0	8,086.1	8,091.9	8,088.2	9.1	25.0	101.75		-64.6	77.3	415.5	382.3	33.25	12.496	
8,200.0	8,186.1	8,192.2	8,188.5	9.2	25.4	101.87		-65.3	76.3	414.6	381.0	33.66	12.317	
8,300.0	8,286.1	8,292.4	8,288.7	9.4	25.7	101.99		-66.0	75.2	413.7	379.6	34.08	12.141	
8,400.0	8,386.1	8,392.7	8,389.0	9.5	26.1	102.13		-66.8	74.0	412.7	378.2	34.49	11.967	
8,500.0	8,486.1	8,492.7	8,489.0	9.6	26.4	102.29		-67.6	72.7	411.7	376.8	34.90	11.795	
8,600.0	8,586.1	8,592.5	8,588.8	9.7	26.7	102.45		-68.5	71.5	410.7	375.4	35.32	11.627	
8,700.0	8,686.1	8,693.6	8,689.8	9.8	27.1	102.59		-69.3	70.4	409.7	374.0	35.74	11.465	
8,800.0	8,786.1	8,797.3	8,793.5	9.9	27.4	102.79		-70.2	68.1	407.9	371.7	36.16	11.278	
8,900.0	8,886.1	8,897.1	8,893.3	10.0	27.8	103.06		-71.7	65.7	405.8	369.2	36.59	11.091	
9,000.0	8,986.1	9,000.5	8,996.6	10.1	28.1	103.04		-71.0	63.3	403.4	366.4	37.00	10.904	
9,100.0	9,086.1	9,104.6	9,100.6	10.2	28.5	102.72		-68.0	60.2	399.9	362.5	37.39	10.695	
9,200.0	9,186.1	9,205.5	9,201.5	10.3	28.8	102.50		-65.6	56.5	395.7	357.9	37.78	10.473	
9,300.0	9,286.1	9,302.1	9,298.0	10.4	29.2	102.39		-64.0	53.0	391.8	353.6	38.18	10.263	
9,400.0	9,386.1	9,392.5	9,388.3	10.5	29.5	102.19		-62.3	51.2	389.5	351.0	38.56	10.101	
9,436.2	9,422.3	9,424.6	9,420.5	10.6	29.6	102.06		-61.4	51.3	389.4	350.7	38.71	10.060	
9,500.0	9,486.1	9,481.3	9,477.1	10.6	29.9	101.73		-59.3	52.3	390.0	351.0	39.00	10.002	
9,600.0	9,586.1	9,577.3	9,572.9	10.7	30.3	100.96		-54.6	56.0	392.8	353.4	39.42	9.965	
9,700.0	9,686.1	9,679.7	9,675.0	10.9	30.6	100.12		-49.5	59.9	395.7	355.9	39.80	9.942	

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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
9,800.0	9,786.1	9,779.2	9,774.4	11.0	31.0	99.41		-45.1	63.1	398.1	357.9	40.17	9.912	
9,900.0	9,886.1	9,880.8	9,876.0	11.1	31.3	98.81		-41.3	66.2	400.5	360.0	40.54	9.880	
10,000.0	9,986.1	9,983.1	9,978.1	11.2	31.7	98.28		-37.9	68.7	402.4	361.5	40.92	9.834	
10,100.0	10,086.1	10,077.2	10,072.2	11.3	32.0	98.06		-36.7	71.1	404.8	363.5	41.31	9.798	
10,200.0	10,186.1	10,170.0	10,164.8	11.4	32.3	98.38		-39.5	74.5	408.9	367.1	41.73	9.799	
10,300.0	10,286.1	10,280.5	10,275.1	11.5	32.7	99.06		-44.9	77.5	412.2	370.0	42.17	9.774	
10,400.0	10,386.1	10,381.7	10,376.3	11.6	33.1	99.68		-49.7	79.0	414.4	371.8	42.61	9.726	
10,500.0	10,486.1	10,483.9	10,478.4	11.8	33.4	100.24		-54.0	80.0	416.2	373.2	43.05	9.668	
10,600.0	10,586.1	10,586.5	10,580.9	11.9	33.8	100.74		-57.8	80.7	417.5	374.0	43.49	9.600	
10,700.0	10,686.1	10,688.4	10,682.8	12.0	34.1	101.18		-61.1	80.7	418.1	374.2	43.92	9.519	
10,800.0	10,786.1	10,789.7	10,784.0	12.1	34.5	101.57		-63.9	80.5	418.5	374.1	44.36	9.434	
10,900.0	10,886.1	10,889.5	10,883.8	12.2	34.8	101.86		-66.0	80.2	418.6	373.8	44.78	9.347	
11,000.0	10,986.1	10,988.8	10,983.1	12.3	35.2	102.02		-67.2	80.3	418.9	373.7	45.20	9.269	
11,100.0	11,086.1	11,088.6	11,082.9	12.4	35.5	102.06		-67.6	80.6	419.4	373.8	45.61	9.195	
11,200.0	11,186.1	11,189.3	11,183.6	12.6	35.8	102.09		-67.9	80.9	419.7	373.7	46.02	9.121	
11,300.0	11,286.1	11,259.0	11,253.2	12.7	36.0	102.45		-70.8	82.1	422.7	376.4	46.37	9.116 SF	
11,400.0	11,386.1	11,336.3	11,329.4	12.8	36.1	103.85		-82.6	86.8	432.3	385.6	46.73	9.252	
11,431.4	11,417.5	11,359.8	11,352.1	12.8	36.1	104.52		-88.3	88.6	436.6	389.9	46.70	9.350	
11,450.0	11,436.1	11,374.6	11,366.3	12.8	36.1	105.05		-92.3	89.8	439.5	392.8	46.77	9.398	
11,475.0	11,461.0	11,393.8	11,384.6	12.8	36.2	105.35		-98.0	91.3	444.0	397.2	46.88	9.471	
11,500.0	11,485.8	11,415.5	11,405.0	12.9	36.2	105.87		-105.0	93.0	449.2	402.2	47.00	9.557	
11,525.0	11,510.5	11,438.2	11,426.3	12.9	36.2	106.54		-112.8	94.6	454.9	407.8	47.13	9.652	
11,550.0	11,534.8	11,455.8	11,442.7	12.9	36.2	106.95		-119.1	95.7	461.3	414.0	47.29	9.755	
11,575.0	11,558.9	11,469.1	11,455.0	13.0	36.3	107.04		-124.2	96.6	468.7	421.2	47.48	9.871	
11,600.0	11,582.6	11,481.3	11,466.1	13.0	36.3	107.00		-129.1	97.5	477.1	429.4	47.68	10.006	
11,625.0	11,605.8	11,496.0	11,479.3	13.0	36.3	107.12		-135.4	98.5	486.6	438.7	47.88	10.163	
11,650.0	11,628.5	11,496.0	11,479.3	13.1	36.3	105.77		-135.4	98.5	497.2	449.1	48.14	10.327	
11,675.0	11,650.6	11,511.6	11,493.2	13.1	36.3	105.78		-142.5	99.7	508.7	460.4	48.35	10.522	
11,700.0	11,672.1	11,519.6	11,500.1	13.1	36.3	104.91		-146.3	100.3	521.4	472.8	48.57	10.733	
11,725.0	11,692.9	11,526.4	11,506.1	13.2	36.4	103.77		-149.6	100.9	535.0	486.2	48.80	10.963	
11,750.0	11,712.9	11,532.3	11,511.2	13.2	36.4	102.34		-152.5	101.3	549.5	500.5	49.01	11.212	
11,775.0	11,732.2	11,543.0	11,520.3	13.2	36.4	101.32		-158.0	102.2	565.0	515.8	49.20	11.483	
11,800.0	11,750.5	11,543.0	11,520.3	13.3	36.4	98.82		-158.0	102.2	581.1	531.7	49.41	11.762	
11,825.0	11,768.0	11,543.0	11,520.3	13.3	36.4	96.09		-158.0	102.2	598.0	548.4	49.60	12.058	
11,850.0	11,784.5	11,543.0	11,520.3	13.3	36.4	93.15		-158.0	102.2	615.6	565.8	49.77	12.368	
11,875.0	11,800.0	11,549.4	11,525.7	13.4	36.4	90.84		-161.3	102.7	633.6	583.7	49.91	12.694	
11,900.0	11,814.4	11,550.3	11,526.5	13.4	36.4	87.64		-161.8	102.8	652.1	602.1	50.06	13.028	
11,925.0	11,827.7	11,550.3	11,526.5	13.4	36.4	84.18		-161.8	102.8	671.1	620.9	50.19	13.370	
11,950.0	11,840.0	11,543.0	11,520.3	13.5	36.4	79.65		-158.0	102.2	690.3	640.0	50.33	13.717	
11,975.0	11,851.0	11,543.0	11,520.3	13.5	36.4	76.03		-158.0	102.2	709.8	659.3	50.44	14.072	
12,000.0	11,860.9	11,543.0	11,520.3	13.5	36.4	72.40		-158.0	102.2	729.4	678.8	50.54	14.432	
12,025.0	11,869.6	11,543.0	11,520.3	13.5	36.4	68.80		-158.0	102.2	749.0	698.4	50.63	14.795	
12,050.0	11,877.0	11,543.0	11,520.3	13.6	36.4	65.27		-158.0	102.2	768.7	718.0	50.70	15.161	
12,075.0	11,883.2	11,543.0	11,520.3	13.6	36.4	61.85		-158.0	102.2	788.4	737.6	50.77	15.527	
12,100.0	11,888.0	11,543.0	11,520.3	13.6	36.4	58.57		-158.0	102.2	807.9	757.1	50.83	15.894	
12,125.0	11,891.6	11,543.0	11,520.3	13.6	36.4	55.46		-158.0	102.2	827.4	776.5	50.88	16.260	
12,150.0	11,893.9	11,525.5	11,505.3	13.6	36.4	51.14		-149.2	100.8	846.2	795.3	50.94	16.613	
12,175.0	11,894.9	11,520.9	11,501.3	13.6	36.3	48.19		-146.9	100.4	865.0	814.1	50.98	16.970	
12,181.4	11,895.0	11,519.7	11,500.3	13.6	36.3	47.46		-146.4	100.3	869.8	818.9	50.98	17.062	
12,200.0	11,895.0	11,516.2	11,497.2	13.7	36.3	47.22		-144.7	100.1	883.7	832.7	51.00	17.326	
12,300.0	11,895.0	11,496.0	11,479.3	13.7	36.3	45.86		-135.4	98.5	960.6	909.5	51.12	18.790	

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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	144.40	-139.0	99.5	171.0	165.6	6.01	28.526	
100.0	100.0	97.5	97.5	3.0	3.0	3.0	144.38	-139.5	99.9	171.6	166.2	6.10	28.223	
200.0	200.0	197.3	197.2	3.0	3.1	3.0	144.34	-140.0	100.5	172.3	166.2	6.10	28.223	
300.0	300.0	297.2	297.2	3.0	3.3	3.0	144.37	-140.8	100.9	173.2	167.0	6.24	27.758	
400.0	400.0	397.6	397.6	3.0	3.5	3.0	144.42	-141.5	101.3	174.0	167.6	6.40	27.183	
500.0	500.0	497.6	497.6	3.1	3.7	3.0	144.41	-142.0	101.6	174.6	168.0	6.60	26.437	
600.0	600.0	597.2	597.2	3.1	4.0	3.0	144.43	-142.6	102.0	175.3	168.5	6.83	25.659	
700.0	700.0	697.0	697.0	3.1	4.2	3.0	144.45	-143.4	102.5	176.3	169.2	7.08	24.884	
800.0	800.0	796.9	796.9	3.2	4.5	3.0	144.44	-144.2	103.1	177.3	169.9	7.36	24.081	
900.0	900.0	897.1	897.1	3.2	4.8	3.0	144.30	-144.7	104.0	178.2	170.6	7.67	23.224	
1,000.0	1,000.0	998.6	998.5	3.2	5.0	3.0	143.93	-144.5	105.3	178.8	170.8	8.00	22.342	
1,100.0	1,100.0	1,103.5	1,103.5	3.3	5.3	3.0	143.28	-142.2	106.0	177.4	169.1	8.33	21.300	
1,200.0	1,200.0	1,204.3	1,204.1	3.4	5.6	3.0	142.50	-138.4	106.2	174.5	166.0	8.52	20.478	
1,300.0	1,300.0	1,304.8	1,304.6	3.4	5.8	3.0	141.61	-134.1	106.3	171.2	162.5	8.69	19.702	
1,400.0	1,400.0	1,403.0	1,402.7	3.5	6.0	3.0	140.58	-129.5	106.5	167.7	159.0	8.77	19.126	
1,500.0	1,500.0	1,500.5	1,500.1	3.5	6.1	3.0	140.03	-126.9	106.4	165.6	156.5	9.05	18.296	
1,526.9	1,526.9	1,526.0	1,525.6	3.6	6.1	3.0	140.08	-126.9	106.2	165.5	156.1	9.32	17.759 CC, ES	
1,600.0	1,600.0	1,595.4	1,595.0	3.6	6.7	3.0	140.60	-128.5	105.5	166.3	156.5	9.81	16.961	
1,700.0	1,700.0	1,695.4	1,695.0	3.7	7.4	3.0	141.57	-132.0	104.8	168.6	158.5	10.11	16.669	
1,800.0	1,800.0	1,796.5	1,796.0	3.8	7.5	3.0	142.30	-134.9	104.2	170.5	160.2	10.27	16.607	
1,900.0	1,900.0	1,897.1	1,896.6	3.9	7.7	3.0	142.89	-137.1	103.7	171.9	161.4	10.44	16.462	
2,000.0	2,000.0	1,997.3	1,996.8	3.9	7.8	3.0	143.35	-138.8	103.3	173.0	162.4	10.63	16.272	
2,100.0	2,100.0	2,097.6	2,097.0	4.0	8.0	3.0	-130.11	-140.4	102.9	175.2	164.4	10.85	16.153	
2,200.0	2,199.8	2,197.8	2,197.2	4.0	8.1	3.0	-131.03	-141.7	102.6	179.5	168.4	11.08	16.198	
2,250.0	2,249.7	2,247.8	2,247.2	4.0	8.2	3.0	-131.81	-142.2	102.6	182.4	171.2	11.20	16.284	
2,300.0	2,299.5	2,297.7	2,297.1	4.1	8.3	3.0	-132.70	-142.6	102.5	185.7	174.3	11.33	16.384	
2,400.0	2,399.1	2,397.7	2,397.1	4.1	8.5	3.0	-134.35	-143.6	102.1	192.2	180.6	11.60	16.564	
2,500.0	2,498.7	2,497.5	2,496.9	4.1	8.7	3.0	-135.78	-144.7	101.4	198.7	186.8	11.89	16.706	
2,600.0	2,598.4	2,597.8	2,597.1	4.2	9.0	3.0	-137.18	-145.5	100.7	205.1	192.9	12.20	16.818	
2,700.0	2,698.0	2,698.1	2,697.4	4.2	9.2	3.0	-138.49	-146.2	99.7	211.4	198.9	12.53	16.876	
2,800.0	2,797.6	2,796.8	2,796.1	4.3	9.4	3.0	-139.79	-146.5	99.0	217.8	204.9	12.86	16.938	
2,900.0	2,897.2	2,896.2	2,895.6	4.4	9.7	3.0	-141.07	-147.1	98.7	224.7	211.5	13.19	17.035	
3,000.0	2,996.8	2,995.2	2,994.6	4.4	9.9	3.0	-142.28	-147.7	98.6	231.8	218.2	13.52	17.141	
3,100.0	3,096.4	3,095.2	3,094.6	4.5	10.2	3.0	-143.48	-148.2	98.6	239.1	225.2	13.86	17.249	
3,200.0	3,196.1	3,194.2	3,193.6	4.5	10.4	3.0	-144.71	-148.3	99.0	246.5	232.3	14.22	17.338	
3,300.0	3,295.7	3,294.4	3,293.8	4.6	10.6	3.0	-145.95	-148.1	99.5	254.0	239.4	14.58	17.415	
3,400.0	3,395.3	3,393.6	3,393.0	4.7	10.9	3.0	-147.11	-148.0	100.0	261.6	246.7	14.96	17.492	
3,500.0	3,494.9	3,493.2	3,492.5	4.8	11.1	3.0	-148.16	-148.1	100.5	269.4	254.0	15.33	17.568	
3,600.0	3,594.5	3,592.7	3,592.0	4.8	11.4	3.0	-149.13	-148.2	100.9	277.3	261.5	15.71	17.645	
3,700.0	3,694.2	3,691.8	3,691.1	4.9	11.7	3.0	-150.06	-148.3	101.4	285.2	269.1	16.10	17.719	
3,800.0	3,793.8	3,789.8	3,789.2	5.0	11.9	3.0	-150.96	-148.5	102.3	293.7	277.3	16.48	17.824	
3,900.0	3,893.4	3,889.0	3,888.4	5.1	12.2	3.0	-151.80	-148.9	103.4	302.6	285.7	16.87	17.936	
4,000.0	3,993.0	3,987.2	3,986.5	5.2	12.5	3.0	-152.55	-149.6	104.5	311.7	294.4	17.25	18.062	
4,100.0	4,092.6	4,087.2	4,086.5	5.3	12.7	3.0	-153.23	-150.8	106.0	321.3	303.6	17.65	18.205	
4,200.0	4,192.3	4,193.4	4,192.7	5.3	13.1	3.0	-153.97	-151.1	106.6	329.7	311.7	18.06	18.259	
4,300.0	4,291.9	4,295.2	4,294.5	5.4	13.4	3.0	-154.70	-150.1	105.8	336.4	318.0	18.45	18.235	
4,400.0	4,391.5	4,392.8	4,392.2	5.5	13.7	3.0	-155.32	-149.6	105.1	343.4	324.6	18.83	18.233	
4,500.0	4,491.1	4,492.0	4,491.3	5.6	13.9	3.0	-155.90	-149.5	104.6	350.9	331.7	19.24	18.242	
4,600.0	4,590.7	4,591.5	4,590.8	5.7	14.2	3.0	-156.45	-149.4	104.2	358.5	338.9	19.64	18.255	
4,700.0	4,690.4	4,691.7	4,691.1	5.8	14.5	3.0	-157.02	-149.1	103.9	366.1	346.0	20.04	18.268	
4,800.0	4,790.0	4,791.5	4,790.8	5.9	14.8	3.0	-157.54	-148.8	103.4	373.5	353.1	20.45	18.269	
4,900.0	4,889.6	4,891.1	4,890.4	6.0	15.1	3.0	-158.03	-148.7	102.8	381.1	360.2	20.86	18.265	

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.0	4,989.2	4,989.0	4,988.3	6.1	15.4	-158.47	-148.7	102.5	388.8	367.6	21.28	18.273		
5,100.0	5,088.8	5,089.2	5,088.5	6.2	15.7	-158.89	-148.9	102.2	396.8	375.1	21.71	18.277		
5,200.0	5,188.5	5,187.7	5,187.0	6.3	16.0	-159.29	-149.1	102.0	404.9	382.7	22.13	18.296		
5,300.0	5,288.1	5,288.0	5,287.3	6.4	16.4	-159.69	-149.3	101.9	413.0	390.4	22.56	18.307		
5,400.0	5,387.7	5,387.4	5,386.7	6.5	16.7	-160.09	-149.4	101.8	421.1	398.1	22.99	18.313		
5,500.0	5,487.3	5,487.3	5,486.6	6.6	17.0	-160.47	-149.5	101.6	429.1	405.7	23.43	18.316		
5,600.0	5,586.9	5,586.8	5,586.1	6.7	17.3	-160.83	-149.5	101.4	437.3	413.4	23.87	18.319		
5,662.3	5,649.0	5,648.9	5,648.2	6.8	17.5	-161.06	-149.5	101.4	442.3	418.2	24.14	18.321		
5,700.0	5,686.6	5,686.6	5,685.9	6.8	17.7	-161.19	-149.6	101.3	445.3	421.0	24.31	18.316		
5,800.0	5,786.3	5,786.6	5,785.9	7.0	18.0	-161.50	-149.6	101.1	451.9	427.2	24.75	18.262		
5,900.0	5,886.2	5,886.5	5,885.8	7.1	18.3	-161.76	-149.3	101.0	456.9	431.7	25.17	18.152		
6,000.0	5,986.1	5,986.3	5,985.6	7.2	18.6	-162.05	-148.2	101.2	460.2	434.6	25.59	17.981		
6,100.0	6,086.1	6,085.6	6,084.9	7.3	18.9	-162.46	-145.7	102.1	461.9	435.9	26.02	17.754		
6,162.3	6,148.4	6,147.0	6,146.2	7.3	19.1	110.66	-143.1	103.1	462.3	436.0	26.27	17.598		
6,200.0	6,186.1	6,184.1	6,183.2	7.4	19.3	110.40	-141.2	103.9	462.4	436.0	26.41	17.506		
6,300.0	6,286.1	6,280.9	6,279.8	7.4	19.6	109.57	-135.1	106.8	463.1	436.3	26.79	17.285		
6,400.0	6,386.1	6,376.5	6,375.1	7.5	19.9	108.62	-128.3	110.7	464.6	437.5	27.16	17.105		
6,500.0	6,486.1	6,467.2	6,465.3	7.6	20.3	107.50	-120.5	116.1	467.6	440.1	27.54	16.982		
6,600.0	6,586.1	6,555.0	6,552.4	7.7	20.6	106.28	-112.3	123.6	473.1	445.2	27.92	16.944		
6,700.0	6,686.1	6,649.0	6,645.6	7.8	20.9	105.13	-105.1	133.2	480.9	452.6	28.32	16.981		
6,800.0	6,786.1	6,747.1	6,743.0	7.9	21.3	104.03	-98.2	143.4	489.2	460.5	28.70	17.045		
6,900.0	6,886.1	6,845.7	6,840.9	8.0	21.6	103.18	-93.1	153.4	497.9	468.8	29.07	17.126		
7,000.0	6,986.1	6,946.8	6,941.4	8.1	21.9	102.49	-89.2	163.3	506.7	477.2	29.46	17.200		
7,100.0	7,086.1	7,047.8	7,041.9	8.2	22.2	101.90	-85.8	172.8	515.1	485.2	29.84	17.260		
7,200.0	7,186.1	7,152.2	7,145.9	8.3	22.6	101.33	-82.5	181.9	523.0	492.8	30.24	17.296		
7,300.0	7,286.1	7,252.9	7,246.2	8.4	22.9	100.78	-78.9	190.1	530.4	499.7	30.62	17.319		
7,400.0	7,386.1	7,351.7	7,344.5	8.4	23.2	100.25	-75.5	198.2	537.7	506.7	31.00	17.346		
7,500.0	7,486.1	7,450.5	7,443.0	8.5	23.6	99.78	-72.3	206.3	545.3	513.9	31.38	17.379		
7,600.0	7,586.1	7,549.7	7,541.8	8.6	23.9	99.31	-69.2	214.6	553.0	521.3	31.76	17.414		
7,700.0	7,686.1	7,648.2	7,639.9	8.7	24.2	98.78	-65.4	223.1	560.9	528.8	32.13	17.456		
7,800.0	7,786.1	7,747.1	7,738.3	8.8	24.6	98.23	-61.2	231.8	569.0	536.5	32.51	17.504		
7,900.0	7,886.1	7,847.4	7,838.1	8.9	24.9	97.69	-57.0	240.6	577.2	544.3	32.89	17.550		
8,000.0	7,986.1	7,950.1	7,940.4	9.0	25.2	97.21	-53.2	249.3	585.1	551.8	33.28	17.582		
8,100.0	8,086.1	8,053.5	8,043.4	9.1	25.6	96.77	-49.7	257.2	592.3	558.6	33.67	17.594		
8,200.0	8,186.1	8,157.2	8,146.8	9.2	25.9	96.36	-46.2	264.6	599.0	565.0	34.06	17.590		
8,300.0	8,286.1	8,262.1	8,251.4	9.4	26.3	96.02	-43.3	271.2	604.9	570.5	34.45	17.560		
8,400.0	8,386.1	8,366.7	8,355.8	9.5	26.7	95.72	-40.8	276.8	610.1	575.2	34.85	17.508		
8,500.0	8,486.1	8,469.6	8,458.6	9.6	27.0	95.47	-38.5	281.7	614.5	579.3	35.24	17.439		
8,600.0	8,586.1	8,575.6	8,564.5	9.7	27.4	95.24	-36.4	285.9	618.3	582.7	35.64	17.350		
8,700.0	8,686.1	8,679.4	8,668.2	9.8	27.7	95.06	-34.8	289.2	621.3	585.3	36.03	17.242		
8,800.0	8,786.1	8,782.9	8,771.7	9.9	28.1	94.84	-32.6	291.8	623.6	587.2	36.43	17.120		
8,900.0	8,886.1	8,883.4	8,872.2	10.0	28.4	94.71	-31.3	293.9	625.6	588.8	36.82	16.991		
9,000.0	8,986.1	8,983.1	8,971.8	10.1	28.8	94.58	-30.1	296.2	627.8	590.6	37.21	16.871		
9,100.0	9,086.1	9,090.9	9,079.6	10.2	29.1	94.45	-28.8	298.0	629.4	591.8	37.62	16.732		
9,200.0	9,186.1	9,198.0	9,186.7	10.3	29.5	94.40	-28.3	298.1	629.5	591.5	38.01	16.560		
9,258.9	9,245.0	9,255.1	9,243.8	10.4	29.7	94.40	-28.3	298.0	629.3	591.1	38.24	16.457		
9,300.0	9,286.1	9,291.9	9,280.6	10.4	29.8	94.40	-28.3	298.1	629.4	591.1	38.39	16.395		
9,400.0	9,386.1	9,382.7	9,371.4	10.5	30.1	94.39	-28.3	299.4	630.9	592.1	38.77	16.272		
9,500.0	9,486.1	9,483.0	9,471.6	10.6	30.4	94.29	-27.3	301.8	633.2	594.1	39.17	16.166		
9,600.0	9,586.1	9,585.1	9,573.6	10.7	30.8	94.02	-24.5	303.9	635.1	595.5	39.57	16.051		
9,700.0	9,686.1	9,682.6	9,671.1	10.9	31.1	93.69	-21.0	306.0	637.0	597.0	39.95	15.945		
9,800.0	9,786.1	9,783.7	9,772.1	11.0	31.5	93.46	-18.6	308.3	639.1	598.7	40.34	15.843		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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 (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)						
9,900.0	9,886.1	9,886.4	9,874.8	11.1	31.8	93.27	-16.6	310.2	640.9	600.1	40.73	15.733		
10,000.0	9,986.1	9,981.0	9,969.4	11.2	32.2	93.15	-15.3	312.5	643.1	602.0	41.12	15.639		
10,100.0	10,086.1	10,072.5	10,060.8	11.3	32.5	93.11	-15.1	315.6	646.5	604.9	41.52	15.571		
10,200.0	10,186.1	10,185.2	10,173.4	11.4	32.9	93.10	-15.1	318.6	649.2	607.2	41.94	15.480		
10,300.0	10,286.1	10,290.3	10,278.5	11.5	33.2	93.11	-15.3	319.9	650.4	608.1	42.35	15.359		
10,400.0	10,386.1	10,390.5	10,378.8	11.6	33.6	93.12	-15.4	320.9	651.4	608.7	42.74	15.240		
10,500.0	10,486.1	10,493.8	10,482.1	11.8	33.9	93.12	-15.5	321.6	652.1	608.9	43.15	15.113		
10,600.0	10,586.1	10,595.8	10,584.1	11.9	34.3	93.14	-15.7	321.8	652.3	608.7	43.54	14.980		
10,700.0	10,686.1	10,696.4	10,684.6	12.0	34.6	93.19	-16.3	321.9	652.4	608.4	43.94	14.846		
10,800.0	10,786.1	10,797.8	10,786.0	12.1	34.9	93.25	-16.9	321.7	652.3	608.0	44.34	14.710		
10,900.0	10,886.1	10,897.4	10,885.7	12.2	35.3	93.30	-17.6	321.5	652.1	607.3	44.74	14.574		
11,000.0	10,986.1	10,997.5	10,985.8	12.3	35.6	93.37	-18.3	321.3	652.0	606.8	45.15	14.440		
11,100.0	11,086.1	11,098.0	11,086.2	12.4	36.0	93.42	-18.8	321.1	651.8	606.2	45.55	14.307		
11,154.8	11,140.8	11,151.3	11,139.5	12.5	36.1	93.50	-19.8	321.0	651.7	605.9	45.78	14.236		
11,200.0	11,186.1	11,195.0	11,183.1	12.6	36.3	93.71	-22.2	320.9	651.7	605.8	45.97	14.179		
11,300.0	11,286.1	11,285.2	11,272.7	12.7	36.6	94.62	-32.5	320.8	652.5	606.1	46.41	14.059		
11,400.0	11,386.1	11,365.6	11,351.1	12.8	36.9	96.13	-49.9	321.8	655.9	609.0	46.91	13.982 SF		
11,431.4	11,417.5	11,388.0	11,372.5	12.8	36.9	96.71	-56.6	322.3	657.7	610.8	46.99	13.996		
11,450.0	11,436.1	11,400.0	11,383.8	12.8	37.0	97.26	-60.6	322.6	659.1	612.0	47.08	14.000		
11,475.0	11,461.0	11,418.4	11,401.0	12.8	37.0	97.65	-67.2	323.2	661.4	614.2	47.21	14.008		
11,500.0	11,485.8	11,434.8	11,416.1	12.9	37.1	98.00	-73.6	323.7	664.2	616.8	47.36	14.024		
11,525.0	11,510.5	11,447.0	11,427.2	12.9	37.1	98.17	-78.6	324.2	667.6	620.1	47.52	14.050		
11,550.0	11,534.8	11,464.6	11,443.1	12.9	37.2	98.61	-86.3	324.9	671.7	624.0	47.70	14.083		
11,575.0	11,558.9	11,478.0	11,455.0	13.0	37.2	98.81	-92.4	325.4	676.4	628.6	47.88	14.128		
11,600.0	11,582.6	11,494.0	11,469.0	13.0	37.3	99.13	-100.0	326.2	682.0	633.9	48.08	14.184		
11,625.0	11,605.8	11,501.2	11,475.3	13.0	37.3	98.84	-103.5	326.5	688.2	640.0	48.28	14.255		
11,650.0	11,628.5	11,511.1	11,483.9	13.1	37.3	98.65	-108.5	327.0	695.4	646.9	48.49	14.340		
11,675.0	11,650.6	11,519.9	11,491.4	13.1	37.3	98.29	-113.0	327.5	703.3	654.6	48.71	14.439		
11,700.0	11,672.1	11,527.6	11,498.0	13.1	37.4	97.76	-117.0	327.9	712.0	663.1	48.93	14.553		
11,725.0	11,692.9	11,541.0	11,509.3	13.2	37.4	97.57	-124.1	328.6	721.6	672.5	49.15	14.683		
11,750.0	11,712.9	11,541.0	11,509.3	13.2	37.4	96.22	-124.1	328.6	731.9	682.6	49.36	14.828		
11,775.0	11,732.2	11,541.0	11,509.3	13.2	37.4	94.74	-124.1	328.6	743.1	693.5	49.57	14.989		
11,800.0	11,750.5	11,541.0	11,509.3	13.3	37.4	93.12	-124.1	328.6	754.9	705.2	49.78	15.166		
11,825.0	11,768.0	11,541.0	11,509.3	13.3	37.4	91.38	-124.1	328.6	767.5	717.6	49.98	15.358		
11,850.0	11,784.5	11,552.5	11,518.9	13.3	37.4	90.51	-130.4	329.3	780.6	730.4	50.16	15.560		
11,875.0	11,800.0	11,553.7	11,519.8	13.4	37.4	88.63	-131.1	329.4	794.3	744.0	50.34	15.778		
11,900.0	11,814.4	11,554.0	11,520.1	13.4	37.4	86.59	-131.3	329.4	808.6	758.0	50.51	16.007		
11,925.0	11,827.7	11,553.7	11,519.8	13.4	37.4	84.38	-131.1	329.4	823.3	772.6	50.67	16.247		
11,950.0	11,840.0	11,552.6	11,519.0	13.5	37.4	82.04	-130.5	329.3	838.3	787.5	50.82	16.497		
11,975.0	11,851.0	11,541.0	11,509.3	13.5	37.4	78.75	-124.1	328.6	853.8	802.9	50.95	16.758		
12,000.0	11,860.9	11,541.0	11,509.3	13.5	37.4	76.40	-124.1	328.6	869.5	818.4	51.08	17.022		
12,025.0	11,869.6	11,541.0	11,509.3	13.5	37.4	74.04	-124.1	328.6	885.3	834.1	51.19	17.293		
12,050.0	11,877.0	11,541.0	11,509.3	13.6	37.4	71.66	-124.1	328.6	901.2	849.9	51.30	17.568		
12,075.0	11,883.2	11,541.0	11,509.3	13.6	37.4	69.30	-124.1	328.6	917.3	865.9	51.40	17.847		
12,100.0	11,888.0	11,541.0	11,509.3	13.6	37.4	66.96	-124.1	328.6	933.3	881.9	51.48	18.129		
12,125.0	11,891.6	11,541.0	11,509.3	13.6	37.4	64.66	-124.1	328.6	949.4	897.9	51.56	18.413		
12,150.0	11,893.9	11,524.1	11,494.9	13.6	37.3	61.37	-115.1	327.7	965.2	913.5	51.61	18.699		
12,175.0	11,894.9	11,518.4	11,490.1	13.6	37.3	58.93	-112.2	327.4	980.9	929.2	51.67	18.983		
12,181.4	11,895.0	11,516.9	11,488.8	13.6	37.3	58.32	-111.4	327.3	984.9	933.2	51.68	19.057		
12,200.0	11,895.0	11,512.6	11,485.1	13.7	37.3	58.08	-109.2	327.1	996.5	944.8	51.72	19.269		

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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' @ 3186.9usft (N 894)

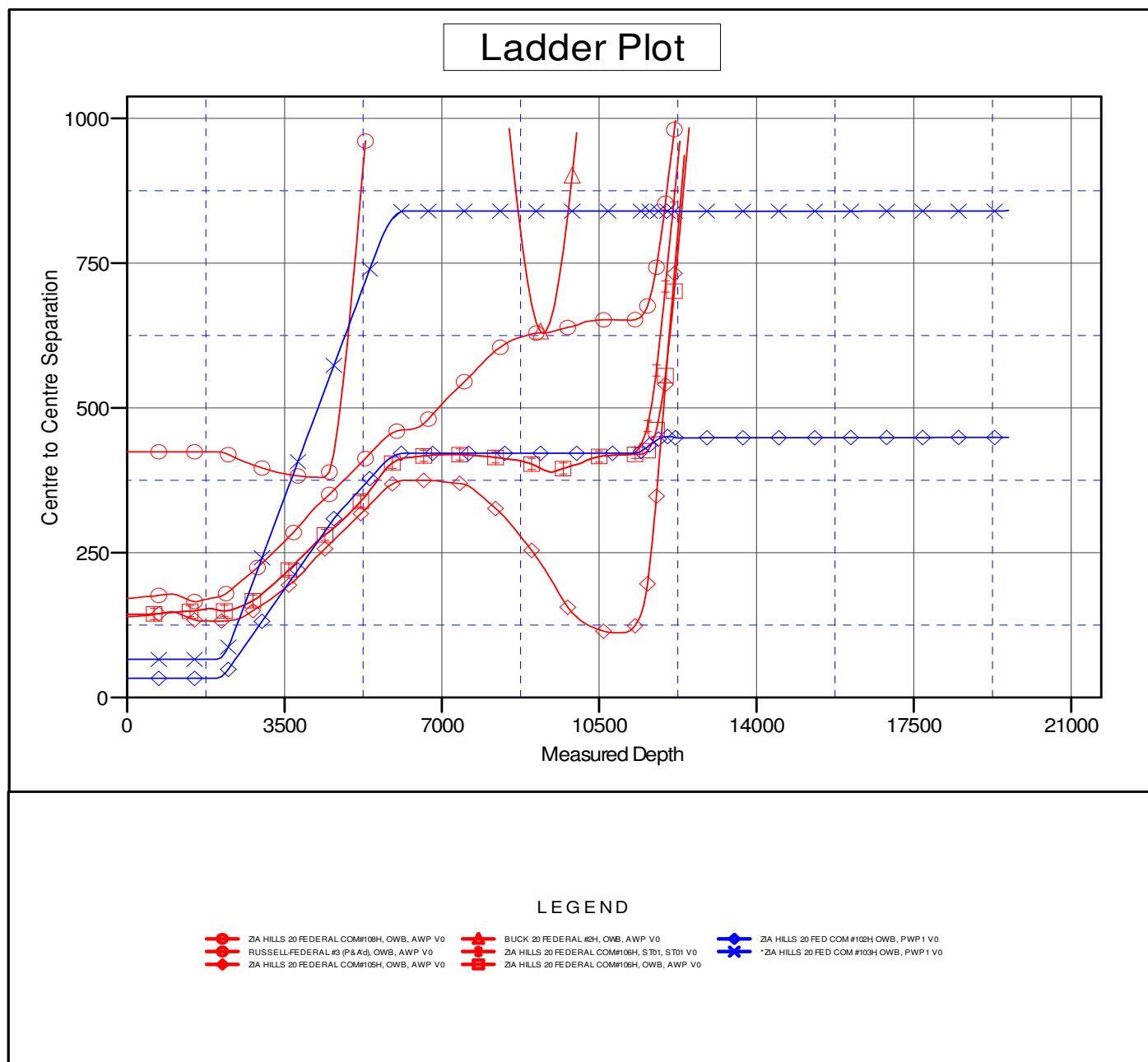
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #101H

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #101H	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' @ 3186.9usft (N 894)

Offset Depths are relative to Offset Datum

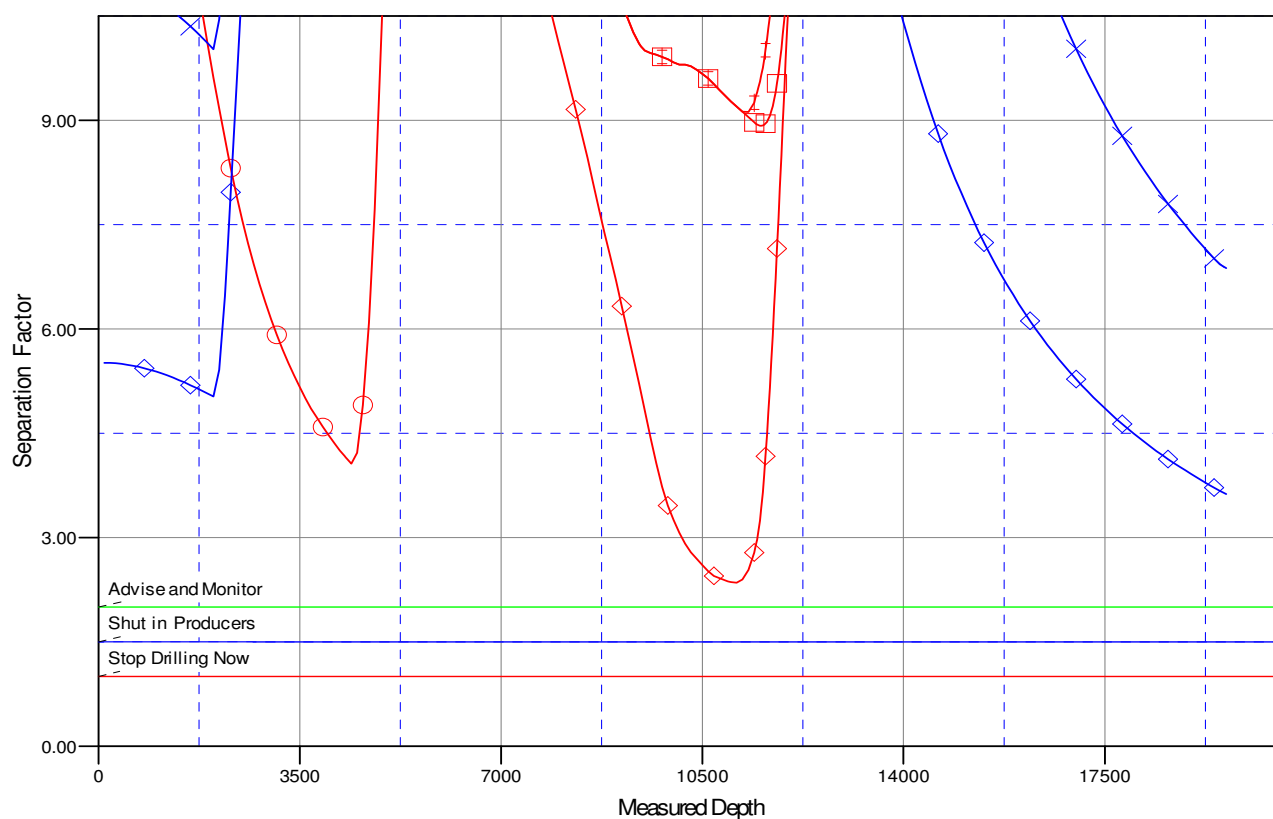
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #101H

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 20 FEDERAL COM#108H, OWB, AWP V0	BUCK 20 FEDERAL #2H, OWB, AWP V0	ZIA HILLS 20 FED COM #102H 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	

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS 20 FED COM PROJECT

ZIA HILLS 20 FED COM #101H

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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Well:	ZIA HILLS 20 FED COM #101H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Project	LEA PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

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

Well	ZIA HILLS 20 FED COM #101H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2021	2/17/2022	6.46
			Dip Angle (°)
			59.59
			Field Strength (nT)
			47,444.13184767

Design	PWP1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			357.26

Survey Tool Program	Date	4/4/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	11,431.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,431.0	19,609.5	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 #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Well:	ZIA HILLS 20 FED COM #101H	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	273.47	2,100.0	0.1	-1.7	0.2	2.00	2.00	0.00
2,200.0	4.00	273.47	2,199.8	0.4	-7.0	0.8	2.00	2.00	0.00
2,250.0	5.00	273.47	2,249.7	0.7	-10.9	1.2	2.00	2.00	0.00
Start 3412.3 hold at 2250.0 MD									
2,300.0	5.00	273.47	2,299.5	0.9	-15.2	1.7	0.00	0.00	0.00
2,400.0	5.00	273.47	2,399.1	1.5	-23.9	2.6	0.00	0.00	0.00
2,500.0	5.00	273.47	2,498.7	2.0	-32.6	3.5	0.00	0.00	0.00
2,600.0	5.00	273.47	2,598.4	2.5	-41.3	4.5	0.00	0.00	0.00
2,700.0	5.00	273.47	2,698.0	3.0	-50.0	5.4	0.00	0.00	0.00
2,800.0	5.00	273.47	2,797.6	3.6	-58.7	6.4	0.00	0.00	0.00
2,900.0	5.00	273.47	2,897.2	4.1	-67.4	7.3	0.00	0.00	0.00
3,000.0	5.00	273.47	2,996.8	4.6	-76.1	8.3	0.00	0.00	0.00
3,100.0	5.00	273.47	3,096.4	5.1	-84.8	9.2	0.00	0.00	0.00
3,200.0	5.00	273.47	3,196.1	5.7	-93.5	10.1	0.00	0.00	0.00
3,300.0	5.00	273.47	3,295.7	6.2	-102.2	11.1	0.00	0.00	0.00
3,400.0	5.00	273.47	3,395.3	6.7	-110.9	12.0	0.00	0.00	0.00
3,500.0	5.00	273.47	3,494.9	7.3	-119.6	13.0	0.00	0.00	0.00
3,600.0	5.00	273.47	3,594.5	7.8	-128.3	13.9	0.00	0.00	0.00
3,700.0	5.00	273.47	3,694.2	8.3	-137.0	14.9	0.00	0.00	0.00
3,800.0	5.00	273.47	3,793.8	8.8	-145.7	15.8	0.00	0.00	0.00
3,900.0	5.00	273.47	3,893.4	9.4	-154.4	16.7	0.00	0.00	0.00
4,000.0	5.00	273.47	3,993.0	9.9	-163.1	17.7	0.00	0.00	0.00
4,100.0	5.00	273.47	4,092.6	10.4	-171.8	18.6	0.00	0.00	0.00
4,200.0	5.00	273.47	4,192.3	11.0	-180.5	19.6	0.00	0.00	0.00
4,300.0	5.00	273.47	4,291.9	11.5	-189.2	20.5	0.00	0.00	0.00
4,400.0	5.00	273.47	4,391.5	12.0	-197.9	21.5	0.00	0.00	0.00
4,500.0	5.00	273.47	4,491.1	12.5	-206.6	22.4	0.00	0.00	0.00
4,600.0	5.00	273.47	4,590.7	13.1	-215.3	23.4	0.00	0.00	0.00
4,700.0	5.00	273.47	4,690.4	13.6	-224.0	24.3	0.00	0.00	0.00
4,800.0	5.00	273.47	4,790.0	14.1	-232.7	25.2	0.00	0.00	0.00
4,900.0	5.00	273.47	4,889.6	14.7	-241.4	26.2	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Well:	ZIA HILLS 20 FED COM #101H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.0	5.00	273.47	4,989.2	15.2	-250.1	27.1	0.00	0.00	0.00	
5,100.0	5.00	273.47	5,088.8	15.7	-258.8	28.1	0.00	0.00	0.00	
5,200.0	5.00	273.47	5,188.5	16.2	-267.5	29.0	0.00	0.00	0.00	
5,300.0	5.00	273.47	5,288.1	16.8	-276.2	30.0	0.00	0.00	0.00	
5,400.0	5.00	273.47	5,387.7	17.3	-284.9	30.9	0.00	0.00	0.00	
5,500.0	5.00	273.47	5,487.3	17.8	-293.6	31.8	0.00	0.00	0.00	
5,600.0	5.00	273.47	5,586.9	18.4	-302.3	32.8	0.00	0.00	0.00	
5,662.3	5.00	273.47	5,649.0	18.7	-307.7	33.4	0.00	0.00	0.00	
Start Drop -1.00										
5,700.0	4.62	273.47	5,686.6	18.9	-310.9	33.7	1.00	-1.00	0.00	
5,800.0	3.62	273.47	5,786.3	19.3	-318.1	34.5	1.00	-1.00	0.00	
5,900.0	2.62	273.47	5,886.2	19.6	-323.5	35.1	1.00	-1.00	0.00	
6,000.0	1.62	273.47	5,986.1	19.9	-327.2	35.5	1.00	-1.00	0.00	
6,100.0	0.62	273.47	6,086.1	20.0	-329.2	35.7	1.00	-1.00	0.00	
6,162.3	0.00	0.00	6,148.4	20.0	-329.5	35.7	1.00	-1.00	0.00	
Start 5269.1 hold at 6162.3 MD										
6,200.0	0.00	0.00	6,186.1	20.0	-329.5	35.7	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,286.1	20.0	-329.5	35.7	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,386.1	20.0	-329.5	35.7	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,486.1	20.0	-329.5	35.7	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,586.1	20.0	-329.5	35.7	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,686.1	20.0	-329.5	35.7	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,786.1	20.0	-329.5	35.7	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,886.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,986.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,086.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,186.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,286.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,386.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,486.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,586.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,686.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,786.1	20.0	-329.5	35.7	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,886.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,986.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,086.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,186.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,286.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,386.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,486.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,586.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,686.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,786.1	20.0	-329.5	35.7	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,886.1	20.0	-329.5	35.7	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Well:	ZIA HILLS 20 FED COM #101H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,000.0	0.00	0.00	8,986.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,086.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,186.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,286.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,386.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,486.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,586.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,686.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,786.1	20.0	-329.5	35.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,886.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,986.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,086.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,186.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,286.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,386.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,486.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,586.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,686.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,786.1	20.0	-329.5	35.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,886.1	20.0	-329.5	35.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,986.1	20.0	-329.5	35.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,086.1	20.0	-329.5	35.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,186.1	20.0	-329.5	35.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,286.1	20.0	-329.5	35.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,386.1	20.0	-329.5	35.7	0.00	0.00	0.00
11,431.4	0.00	0.00	11,417.5	20.0	-329.5	35.7	0.00	0.00	0.00
Start DLS 12.00 TFO 359.64									
11,500.0	8.23	359.64	11,485.8	24.9	-329.5	40.6	12.00	12.00	0.00
11,600.0	20.23	359.64	11,582.6	49.4	-329.7	65.2	12.00	12.00	0.00
11,700.0	32.23	359.64	11,672.1	93.6	-330.0	109.2	12.00	12.00	0.00
11,800.0	44.23	359.64	11,750.5	155.3	-330.4	170.9	12.00	12.00	0.00
11,900.0	56.23	359.64	11,814.4	232.0	-330.8	247.6	12.00	12.00	0.00
12,000.0	68.23	359.64	11,860.9	320.4	-331.4	335.8	12.00	12.00	0.00
12,100.0	80.23	359.64	11,888.0	416.4	-332.0	431.8	12.00	12.00	0.00
12,181.4	90.00	359.64	11,895.0	497.5	-332.5	512.8	12.00	12.00	0.00
Start 7428.0 hold at 12181.4 MD									
12,200.0	90.00	359.64	11,895.0	516.0	-332.6	531.3	0.00	0.00	0.00
12,300.0	90.00	359.64	11,895.0	616.0	-333.3	631.3	0.00	0.00	0.00
12,400.0	90.00	359.64	11,895.0	716.0	-333.9	731.2	0.00	0.00	0.00
12,500.0	90.00	359.64	11,895.0	816.0	-334.5	831.1	0.00	0.00	0.00
12,600.0	90.00	359.64	11,895.0	916.0	-335.2	931.0	0.00	0.00	0.00
12,700.0	90.00	359.64	11,895.0	1,016.0	-335.8	1,030.9	0.00	0.00	0.00
12,800.0	90.00	359.64	11,895.0	1,116.0	-336.4	1,130.8	0.00	0.00	0.00
12,900.0	90.00	359.64	11,895.0	1,216.0	-337.1	1,230.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Well:	ZIA HILLS 20 FED COM #101H	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)
13,000.0	90.00	359.64	11,895.0	1,316.0	-337.7	1,330.6	0.00	0.00	0.00
13,100.0	90.00	359.64	11,895.0	1,416.0	-338.3	1,430.6	0.00	0.00	0.00
13,200.0	90.00	359.64	11,895.0	1,516.0	-339.0	1,530.5	0.00	0.00	0.00
13,300.0	90.00	359.64	11,895.0	1,616.0	-339.6	1,630.4	0.00	0.00	0.00
13,400.0	90.00	359.64	11,895.0	1,716.0	-340.2	1,730.3	0.00	0.00	0.00
13,500.0	90.00	359.64	11,895.0	1,816.0	-340.9	1,830.2	0.00	0.00	0.00
13,600.0	90.00	359.64	11,895.0	1,916.0	-341.5	1,930.1	0.00	0.00	0.00
13,700.0	90.00	359.64	11,895.0	2,016.0	-342.1	2,030.0	0.00	0.00	0.00
13,800.0	90.00	359.64	11,895.0	2,116.0	-342.8	2,130.0	0.00	0.00	0.00
13,900.0	90.00	359.64	11,895.0	2,216.0	-343.4	2,229.9	0.00	0.00	0.00
14,000.0	90.00	359.64	11,895.0	2,316.0	-344.0	2,329.8	0.00	0.00	0.00
14,100.0	90.00	359.64	11,895.0	2,416.0	-344.7	2,429.7	0.00	0.00	0.00
14,200.0	90.00	359.64	11,895.0	2,516.0	-345.3	2,529.6	0.00	0.00	0.00
14,300.0	90.00	359.64	11,895.0	2,616.0	-345.9	2,629.5	0.00	0.00	0.00
14,400.0	90.00	359.64	11,895.0	2,716.0	-346.6	2,729.4	0.00	0.00	0.00
14,500.0	90.00	359.64	11,895.0	2,816.0	-347.2	2,829.4	0.00	0.00	0.00
14,600.0	90.00	359.64	11,895.0	2,916.0	-347.8	2,929.3	0.00	0.00	0.00
14,700.0	90.00	359.64	11,895.0	3,016.0	-348.5	3,029.2	0.00	0.00	0.00
14,800.0	90.00	359.64	11,895.0	3,116.0	-349.1	3,129.1	0.00	0.00	0.00
14,900.0	90.00	359.64	11,895.0	3,216.0	-349.7	3,229.0	0.00	0.00	0.00
15,000.0	90.00	359.64	11,895.0	3,316.0	-350.4	3,328.9	0.00	0.00	0.00
15,100.0	90.00	359.64	11,895.0	3,416.0	-351.0	3,428.8	0.00	0.00	0.00
15,200.0	90.00	359.64	11,895.0	3,516.0	-351.6	3,528.8	0.00	0.00	0.00
15,300.0	90.00	359.64	11,895.0	3,616.0	-352.3	3,628.7	0.00	0.00	0.00
15,400.0	90.00	359.64	11,895.0	3,716.0	-352.9	3,728.6	0.00	0.00	0.00
15,500.0	90.00	359.64	11,895.0	3,816.0	-353.5	3,828.5	0.00	0.00	0.00
15,600.0	90.00	359.64	11,895.0	3,916.0	-354.2	3,928.4	0.00	0.00	0.00
15,700.0	90.00	359.64	11,895.0	4,015.9	-354.8	4,028.3	0.00	0.00	0.00
15,800.0	90.00	359.64	11,895.0	4,115.9	-355.4	4,128.2	0.00	0.00	0.00
15,900.0	90.00	359.64	11,895.0	4,215.9	-356.1	4,228.2	0.00	0.00	0.00
16,000.0	90.00	359.64	11,895.0	4,315.9	-356.7	4,328.1	0.00	0.00	0.00
16,100.0	90.00	359.64	11,895.0	4,415.9	-357.3	4,428.0	0.00	0.00	0.00
16,200.0	90.00	359.64	11,895.0	4,515.9	-358.0	4,527.9	0.00	0.00	0.00
16,300.0	90.00	359.64	11,895.0	4,615.9	-358.6	4,627.8	0.00	0.00	0.00
16,400.0	90.00	359.64	11,895.0	4,715.9	-359.2	4,727.7	0.00	0.00	0.00
16,500.0	90.00	359.64	11,895.0	4,815.9	-359.9	4,827.6	0.00	0.00	0.00
16,600.0	90.00	359.64	11,895.0	4,915.9	-360.5	4,927.5	0.00	0.00	0.00
16,700.0	90.00	359.64	11,895.0	5,015.9	-361.1	5,027.5	0.00	0.00	0.00
16,800.0	90.00	359.64	11,895.0	5,115.9	-361.8	5,127.4	0.00	0.00	0.00
16,900.0	90.00	359.64	11,895.0	5,215.9	-362.4	5,227.3	0.00	0.00	0.00
17,000.0	90.00	359.64	11,895.0	5,315.9	-363.0	5,327.2	0.00	0.00	0.00
17,100.0	90.00	359.64	11,895.0	5,415.9	-363.7	5,427.1	0.00	0.00	0.00
17,200.0	90.00	359.64	11,895.0	5,515.9	-364.3	5,527.0	0.00	0.00	0.00

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Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Well:	ZIA HILLS 20 FED COM #101H	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)
17,300.0	90.00	359.64	11,895.0	5,615.9	-364.9	5,626.9	0.00	0.00	0.00
17,400.0	90.00	359.64	11,895.0	5,715.9	-365.6	5,726.9	0.00	0.00	0.00
17,500.0	90.00	359.64	11,895.0	5,815.9	-366.2	5,826.8	0.00	0.00	0.00
17,600.0	90.00	359.64	11,895.0	5,915.9	-366.8	5,926.7	0.00	0.00	0.00
17,700.0	90.00	359.64	11,895.0	6,015.9	-367.5	6,026.6	0.00	0.00	0.00
17,800.0	90.00	359.64	11,895.0	6,115.9	-368.1	6,126.5	0.00	0.00	0.00
17,900.0	90.00	359.64	11,895.0	6,215.9	-368.7	6,226.4	0.00	0.00	0.00
18,000.0	90.00	359.64	11,895.0	6,315.9	-369.4	6,326.3	0.00	0.00	0.00
18,100.0	90.00	359.64	11,895.0	6,415.9	-370.0	6,426.3	0.00	0.00	0.00
18,200.0	90.00	359.64	11,895.0	6,515.9	-370.6	6,526.2	0.00	0.00	0.00
18,300.0	90.00	359.64	11,895.0	6,615.9	-371.3	6,626.1	0.00	0.00	0.00
18,400.0	90.00	359.64	11,895.0	6,715.9	-371.9	6,726.0	0.00	0.00	0.00
18,500.0	90.00	359.64	11,895.0	6,815.9	-372.5	6,825.9	0.00	0.00	0.00
18,600.0	90.00	359.64	11,895.0	6,915.9	-373.2	6,925.8	0.00	0.00	0.00
18,700.0	90.00	359.64	11,895.0	7,015.9	-373.8	7,025.7	0.00	0.00	0.00
18,800.0	90.00	359.64	11,895.0	7,115.9	-374.4	7,125.7	0.00	0.00	0.00
18,900.0	90.00	359.64	11,895.0	7,215.9	-375.0	7,225.6	0.00	0.00	0.00
19,000.0	90.00	359.64	11,895.0	7,315.9	-375.7	7,325.5	0.00	0.00	0.00
19,100.0	90.00	359.64	11,895.0	7,415.9	-376.3	7,425.4	0.00	0.00	0.00
19,200.0	90.00	359.64	11,895.0	7,515.9	-376.9	7,525.3	0.00	0.00	0.00
19,300.0	90.00	359.64	11,895.0	7,615.9	-377.6	7,625.2	0.00	0.00	0.00
19,400.0	90.00	359.64	11,895.0	7,715.9	-378.2	7,725.1	0.00	0.00	0.00
19,500.0	90.00	359.64	11,895.0	7,815.9	-378.8	7,825.0	0.00	0.00	0.00
19,600.0	90.00	359.64	11,895.0	7,915.9	-379.5	7,925.0	0.00	0.00	0.00
19,609.5	90.00	359.64	11,895.0	7,925.3	-379.5	7,934.4	0.00	0.00	0.00
TD at 19609.5									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP(ZIA HILLS 20 FE - hit/miss target - Shape - Point	0.00	0.00	11,895.0	7,875.3	-379.2	382,433.65	697,474.24	32° 2' 59.362 N	103° 41' 45.491 W
FTP(ZIA HILLS 20 FE - plan misses target center by 30.9usft at 12012.2usft MD (11865.3 TVD, 331.8 N, -331.5 E) - Circle (radius 50.0)	0.00	0.00	11,895.0	323.4	-331.6	374,881.72	697,521.85	32° 1' 44.625 N	103° 41' 45.455 W
PBHL(ZIA HILLS 20 F - plan hits target center - Rectangle (sides W100.0 H7,930.0 D20.0)	0.00	179.64	11,895.0	7,925.3	-379.5	382,483.65	697,473.88	32° 2' 59.857 N	103° 41' 45.491 W

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #101H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3186.9usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3186.9usft (N 894)
Well:	ZIA HILLS 20 FED COM #101H	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
2250	2250	1	-11	Start 3412.3 hold at 2250.0 MD
5662	5649	19	-308	Start Drop -1.00
6162	6148	20	-330	Start 5269.1 hold at 6162.3 MD
11,431	11,418	20	-330	Start DLS 12.00 TFO 359.64
12,181	11,895	497	-333	Start 7428.0 hold at 12181.4 MD
19,609	11,895	7925	-380	TD at 19609.5

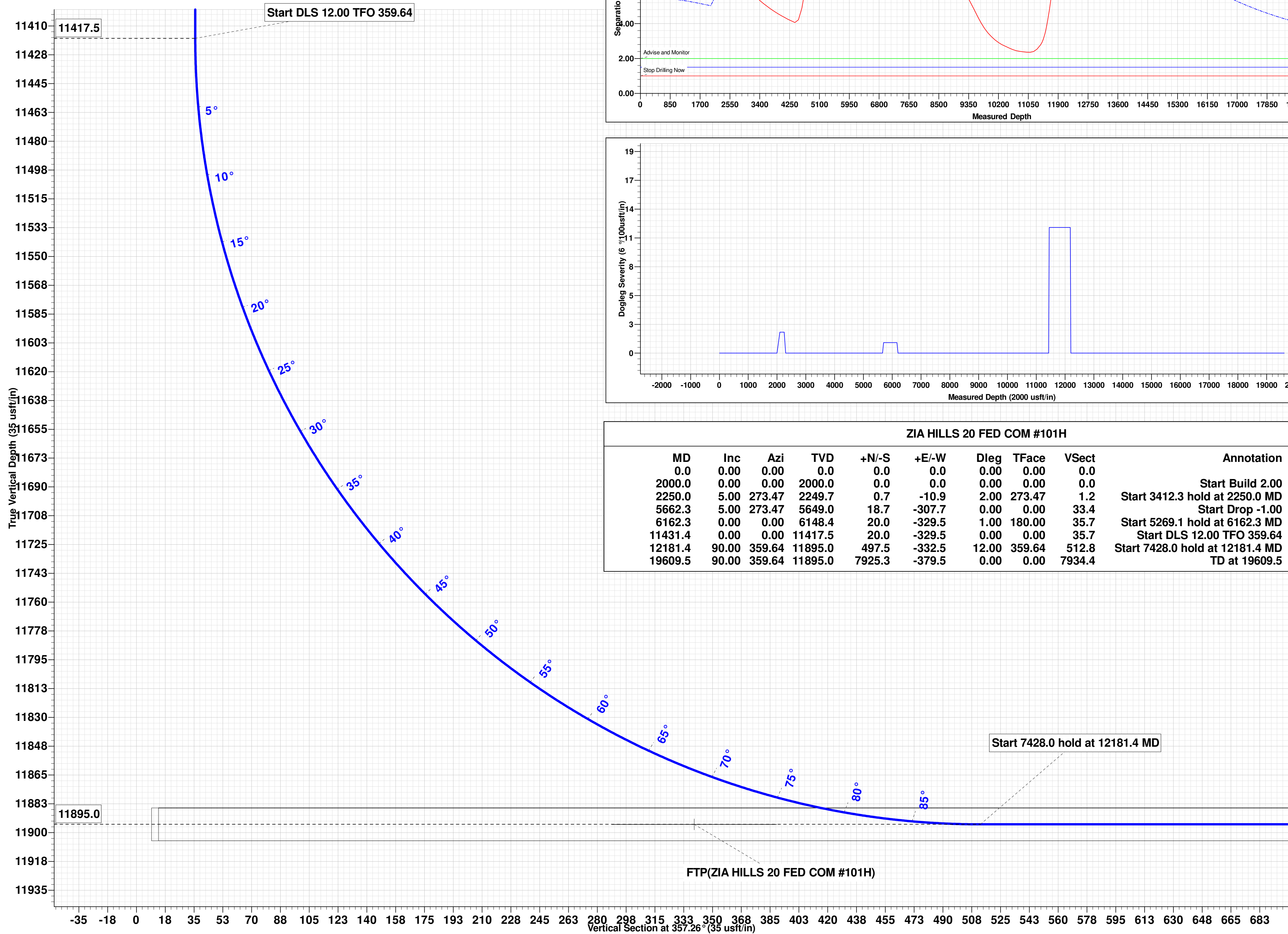
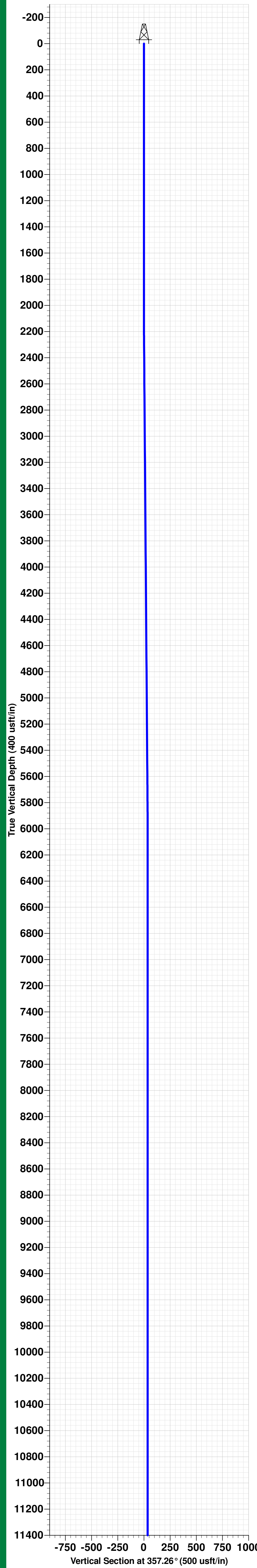
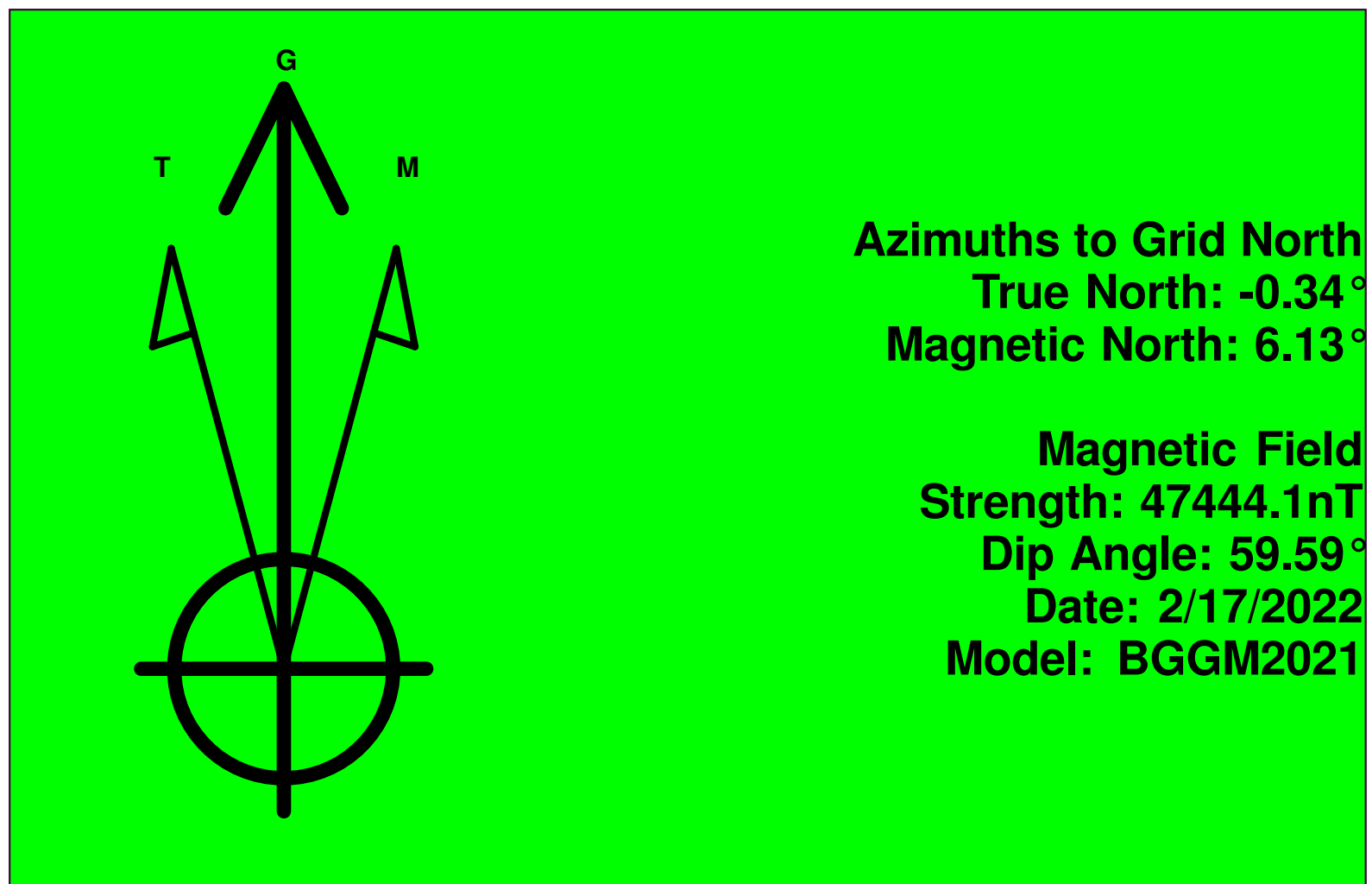
Checked By: _____ Approved By: _____ Date: _____



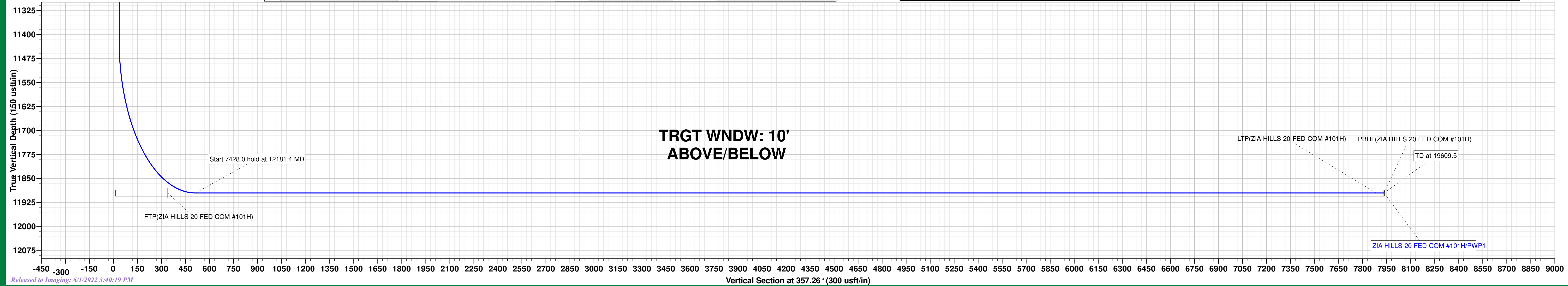
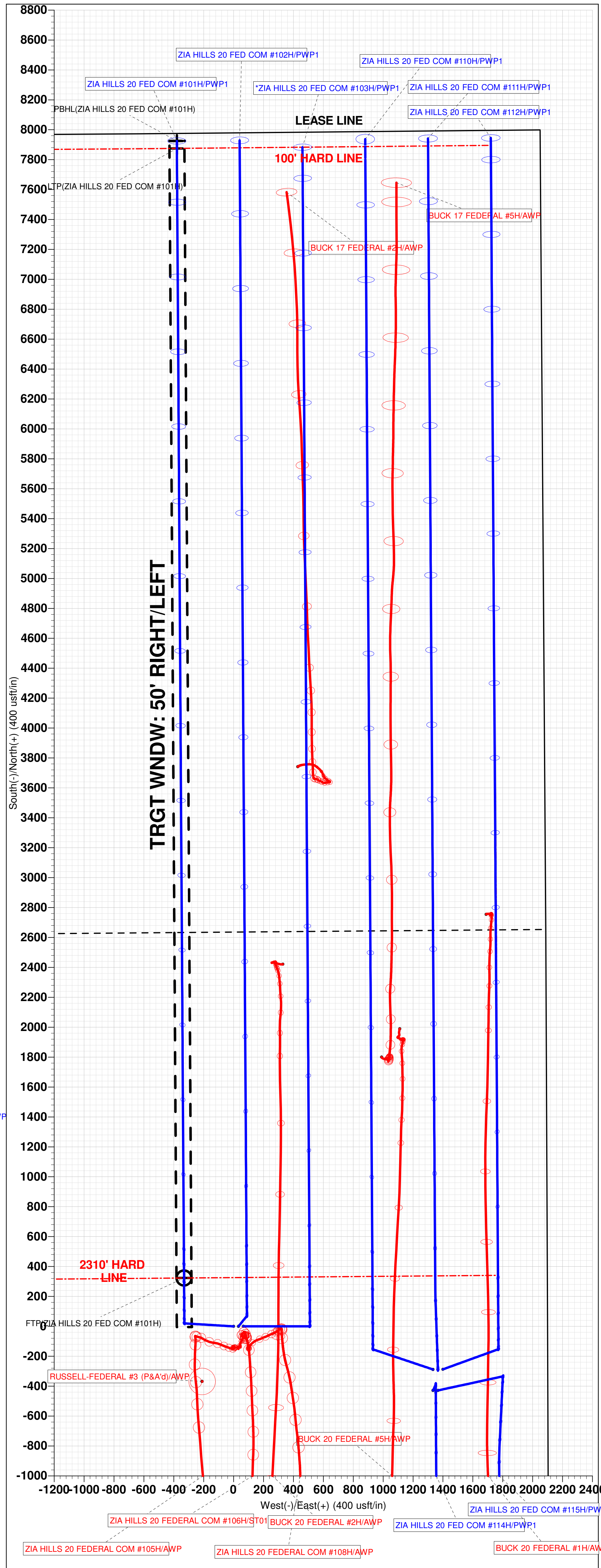
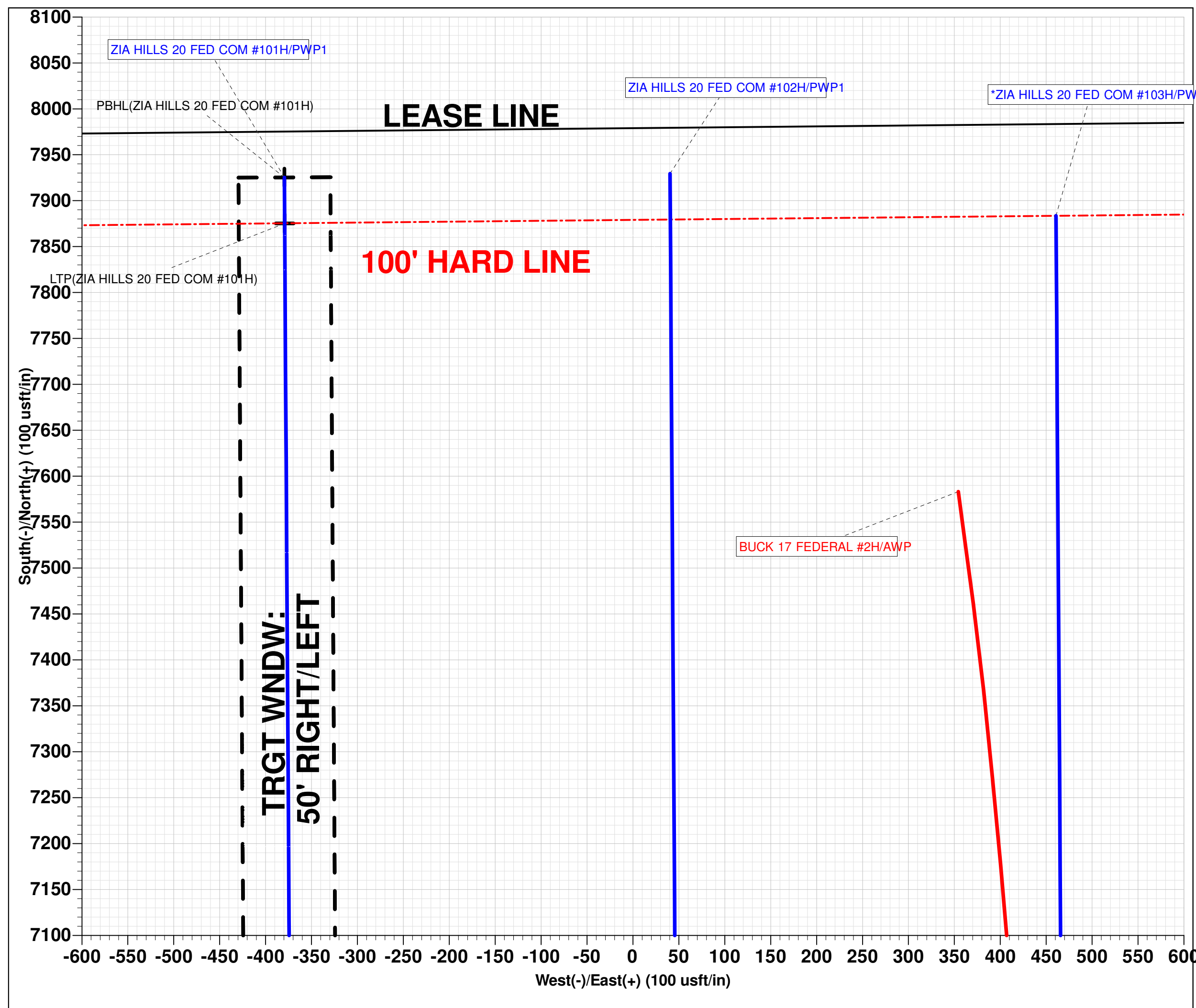
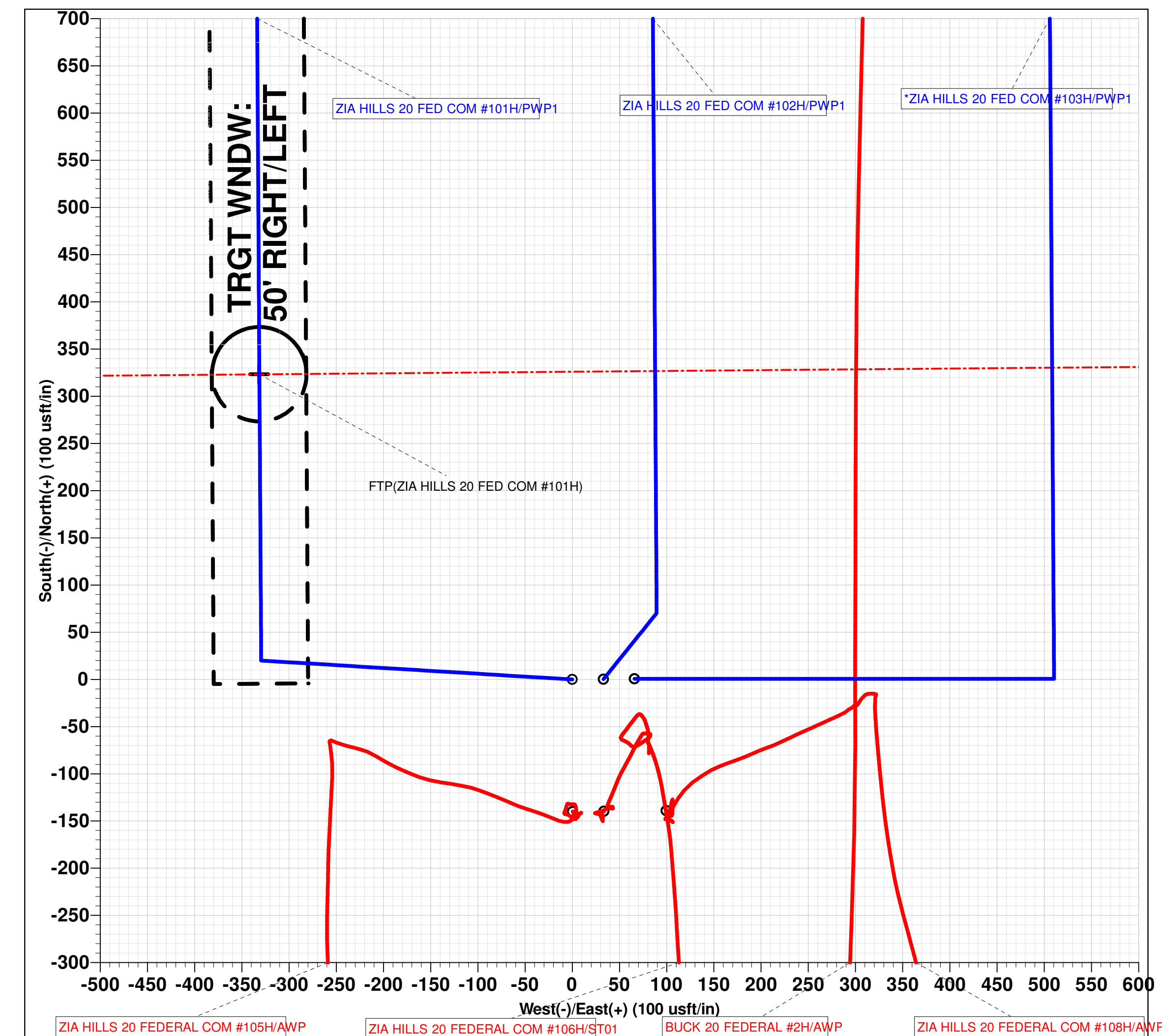
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS 20 FED COM PROJECT
Well: ZIA HILLS 20 FED COM #101H
Wellbore: OWB
Design: PWP1
GL: 3155.9
KB=31' @ 3186.9usft (N 894)

WELL DETAILS: ZIA HILLS 20 FED COM #101H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374558.31	697853.42	32° 1' 41.405 N	103° 41' 41.626 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP(ZIA HILLS 20 FED COM #101H)	11895.0	323.4	-331.6	374881.72	697521.85	32° 1' 44.625 N
LTP(ZIA HILLS 20 FED COM #101H)	11895.0	7875.3	-379.2	382433.65	697474.24	32° 2' 59.362 N
PBHL(ZIA HILLS 20 FED COM #101H)	11895.0	7925.3	-379.5	382483.65	697473.88	32° 2' 59.857 N



ZIA HILLS 20 FED COM #101H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	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
2250.0	5.00	273.47	2249.7	0.7	-10.9	2.00	273.47	1.2	Start 3412.3 hold at 2250.0 MD
5662.3	5.00	273.47	5649.0	18.7	-307.7	0.00	0.00	33.4	Start Drop -1.00
6162.3	0.00	0.00	6148.4	20.0	-329.5	1.00	180.00	35.7	Start 5269.1 hold at 6162.3 MD
11431.4	0.00	0.00	11417.5	20.0	-329.5	0.00	0.00	35.7	Start DLS 12.00 TFO 359.64
12181.4	90.00	359.64	11895.0	497.5	-332.5	12.00	359.64	512.8	Start 7428.0 hold at 12181.4 MD
19609.5	90.00	359.64	11895.0	7925.3	-379.5	0.00	0.00	7934.4	TD at 19609.5



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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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District III
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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 109576

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 109576
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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