

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: NESE / 2410 FSL / 734 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.027478 / LONG: -103.690961 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2371 FNL / 660 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.029033 / LONG: -103.690719 (TVD: 11647 feet, MD: 11750 feet)

BHL: NENE / 50 FNL / 660 FEL / TWSP: 26S / RANGE: 32E / SECTION: 17 / LAT: 32.050103 / LONG: -103.690728 (TVD: 11730 feet, MD: 19382 feet)

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

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

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

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-45720	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code	5 Property Name ZIA HILLS 20 FED COM	6 Well Number 111H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3142.2'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	20	26-S	32-E		2410'	SOUTH	734'	EAST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	26-S	32-E		50'	NORTH	750'	EAST	LEA

12 Dedicated Acres 13,853.35 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=740407.35 LAT.= 32.02747875° N Y=374327.27 LONG.= -103.69096208° W 2410' FSL, 734' FEL - SECTION 20 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=740388.90 LAT.= 32.02919894° N Y=374952.95 LONG.= -103.69100962° W 2310' FNL, 750' FEL - SECTION 20 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=740340.95 LAT.= 32.04996537° N Y=382507.35 LONG.= -103.69101935° W 100' FNL, 750' FEL - SECTION 17 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=740340.59 LAT.= 32.05010281° N Y=382557.35 LONG.= -103.69101956° W 50' FNL, 750' 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> 4/22/2022 Signature Date Stan Wagner Printed Name E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. _____ Date of Survey <i>Mark J. Murray</i> Signature and Seal of Professional Surveyor MARK J. MURRAY NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 12177 3/18/2022 Certificate Number
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ConocoPhillips - Zia Hills 20 Fed Com 111H

1. Geologic Formations

TVD of target	11,894' EOL	Pilot hole depth	NA
MD at TD:	19,919'	Deepest expected fresh water:	405'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1071	Water	
Top of Salt	1404	Salt	
Base of Salt	4110	Salt	
Lamar	4307	Salt Water	
Bell Canyon	4363	Salt Water	
Cherry Canyon	5259	Oil/Gas	
Brushy Canyon	6795	Oil/Gas	
Bone Spring	8359	Oil/Gas	
1st Bone Spring Sand	9328	Oil/Gas	
2nd Bone Spring Sand	9987	Oil/Gas	
3rd Bone Spring Carb	10404	Oil/Gas	
3rd Bone Spring Sand	11122	Oil/Gas	
Wolfcamp	11553	Oil/Gas	
Wolfcamp A	11754	Target - Oil/Gas	
Wolfcamp B	12078	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	1354	10.75"	45.5	J55	BTC	3.37	1.14	12.92	12.92
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	19,919	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 111H

	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 111H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	646	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
	853	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

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

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	3500 psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips - Zia Hills 20 Fed Com 111H

5. Mud Program

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

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

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

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

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

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7735 psi at 11894' 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 #111H

OWB

PWP1

Anticollision Report

05 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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	11,417.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,417.0	19,919.4	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	19,864.0	19,605.4	839.9	715.5	6.749	CC, ES
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	19,900.0	19,608.0	840.6	715.9	6.742	SF
ZIA HILLS 20 FED COM #110H - OWB - PWP1	2,500.0	2,499.9	33.0	26.1	4.783	CC, ES
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,919.4	19,639.6	450.1	322.7	3.534	SF
ZIA HILLS 20 FED COM #112H - OWB - PWP1	2,500.0	2,499.8	33.2	26.3	4.819	CC, ES
ZIA HILLS 20 FED COM #112H - OWB - PWP1	19,919.4	19,643.9	450.1	321.8	3.510	SF
ZIA HILLS 20 FED COM #114H - OWB - PWP1	11,208.9	11,208.2	100.8	71.2	3.412	CC, ES, SF
ZIA HILLS 20 FED COM #115H - OWB - PWP1	2,907.7	2,908.2	137.1	127.8	14.799	CC, ES, SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #1H - OWB - AWP	9,254.7	11,921.9	335.3	275.4	5.596	CC, ES, SF
BUCK 20 FEDERAL #5H - OWB - AWP	8,834.6	10,714.4	298.7	251.4	6.314	CC, ES, SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	11,675.0	11,887.0	998.8	951.6	21.175	SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	11,676.8	11,887.0	998.8	951.6	21.175	CC, ES
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,416.6	2,416.7	690.6	678.0	54.684	CC
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,500.0	2,500.0	690.6	677.7	53.309	ES
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	4,800.0	4,675.2	988.2	966.5	45.693	SF
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	2,500.0	2,499.0	662.6	655.1	88.467	CC, ES
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	5,500.0	5,399.1	995.6	983.4	81.646	SF
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	10,225.7	10,744.5	525.5	481.3	11.909	CC, ES, SF
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,000.0	10,090.2	214.0	192.0	9.729	SF
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,100.0	10,173.8	202.3	182.6	10.231	ES
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,104.4	10,176.9	202.3	182.6	10.265	CC

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ZIA HILLS 20 FED COM PROJECT						
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	19,919.4	19,608.0	841.6	716.9	6.748	
ZIA HILLS 20 FED COM #110H - OWB - PWP1	19,919.4	19,639.6	450.1	322.7	3.534	SF
ZIA HILLS 20 FED COM #112H - OWB - PWP1	19,919.4	19,643.9	450.1	321.8	3.510	SF
ZIA HILLS 20 FED COM #114H - OWB - PWP1	19,919.4	11,275.0				Out of Range @TD
ZIA HILLS 20 FED COM #115H - OWB - PWP1	19,919.4	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #1H - OWB - AWP	19,919.4	8,832.0				Out of Range @TD
BUCK 20 FEDERAL #5H - OWB - AWP	19,919.4	8,471.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	19,919.4	11,211.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	19,919.4	9,975.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	19,919.4	9,925.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	19,919.4	9,900.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	19,919.4	9,900.0				Out of Range @TD

Offset Design:ZIA HILLS 20 FED COM PROJECT - *ZIA HILLS 20 FED COM #103H - OWB - PWP1

Survey Program: 0-Standard Keeper 104, 11452-MWD-HFR1+MS														Offset Site Error: 0.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.0	5,000.0	5,149.8	5,128.1	7.2	6.3	-72.89	288.8	-938.3	988.5	978.2	10.21	96.771			
5,100.0	5,100.0	5,249.1	5,226.6	7.3	6.4	-72.68	288.8	-926.2	976.8	966.4	10.38	94.119			
5,200.0	5,200.0	5,348.4	5,325.1	7.4	6.5	-72.47	288.8	-914.1	965.2	954.6	10.54	91.533			
5,300.0	5,300.0	5,447.6	5,423.6	7.5	6.6	-72.25	288.8	-902.0	953.5	942.8	10.71	89.013			
5,400.0	5,400.0	5,536.7	5,512.1	7.6	6.7	-72.05	288.8	-891.5	942.3	931.5	10.86	86.745			
5,500.0	5,500.0	5,622.8	5,597.7	7.8	6.8	-71.88	288.8	-882.6	932.5	921.5	11.01	84.697			
5,600.0	5,600.0	5,709.1	5,683.7	7.9	6.9	-71.73	288.8	-875.0	924.2	913.0	11.16	82.815			
5,700.0	5,700.0	5,800.0	5,774.4	8.0	7.0	-71.60	288.8	-868.4	917.2	905.9	11.32	81.052			
5,800.0	5,800.0	5,882.3	5,856.6	8.1	7.0	-71.51	288.8	-863.6	911.7	900.2	11.46	79.535			
5,900.0	5,900.0	5,969.1	5,943.3	8.3	7.1	-71.44	288.8	-859.9	907.6	896.0	11.62	78.127			
6,000.0	6,000.0	6,056.1	6,030.2	8.4	7.2	-71.39	288.8	-857.5	905.0	893.2	11.77	76.862			
6,100.0	6,100.0	6,143.1	6,117.2	8.5	7.3	-71.36	288.8	-856.4	903.8	891.9	11.92	75.832			
6,149.7	6,149.7	6,188.5	6,162.6	8.6	7.3	-71.36	288.8	-856.3	903.7	891.8	11.98	75.455			
6,200.0	6,200.0	6,238.8	6,212.9	8.6	7.4	-71.36	288.8	-856.3	903.7	891.7	12.02	75.155			
6,300.0	6,300.0	6,338.8	6,312.9	8.7	7.5	-71.36	288.8	-856.3	903.7	891.6	12.12	74.562			
6,400.0	6,400.0	6,438.8	6,412.9	8.9	7.5	-71.36	288.8	-856.3	903.7	891.5	12.22	73.972			
6,500.0	6,500.0	6,538.8	6,512.9	9.0	7.6	-71.36	288.8	-856.3	903.7	891.4	12.32	73.384			

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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)				
6,600.0	6,600.0	6,638.8	6,612.9	9.1	7.7	-71.36	288.8	-856.3	903.7	891.3	12.41	72.800		
6,700.0	6,700.0	6,738.8	6,712.9	9.2	7.8	-71.36	288.8	-856.3	903.7	891.2	12.51	72.218		
6,800.0	6,800.0	6,838.8	6,812.9	9.4	7.9	-71.36	288.8	-856.3	903.7	891.1	12.61	71.640		
6,900.0	6,900.0	6,938.8	6,912.9	9.5	8.0	-71.36	288.8	-856.3	903.7	891.0	12.72	71.065		
7,000.0	7,000.0	7,038.8	7,012.9	9.6	8.1	-71.36	288.8	-856.3	903.7	890.9	12.82	70.494		
7,100.0	7,100.0	7,138.8	7,112.9	9.7	8.2	-71.36	288.8	-856.3	903.7	890.8	12.92	69.926		
7,200.0	7,200.0	7,238.8	7,212.9	9.9	8.3	-71.36	288.8	-856.3	903.7	890.7	13.03	69.363		
7,300.0	7,300.0	7,338.8	7,312.9	10.0	8.4	-71.36	288.8	-856.3	903.7	890.6	13.13	68.804		
7,400.0	7,400.0	7,438.8	7,412.9	10.1	8.5	-71.36	288.8	-856.3	903.7	890.5	13.24	68.249		
7,500.0	7,500.0	7,538.8	7,512.9	10.3	8.6	-71.36	288.8	-856.3	903.7	890.4	13.35	67.698		
7,600.0	7,600.0	7,638.8	7,612.9	10.4	8.7	-71.36	288.8	-856.3	903.7	890.3	13.46	67.152		
7,700.0	7,700.0	7,738.8	7,712.9	10.5	8.8	-71.36	288.8	-856.3	903.7	890.2	13.57	66.610		
7,800.0	7,800.0	7,838.8	7,812.9	10.6	8.9	-71.36	288.8	-856.3	903.7	890.1	13.68	66.073		
7,900.0	7,900.0	7,938.8	7,912.9	10.8	9.0	-71.36	288.8	-856.3	903.7	889.9	13.79	65.540		
8,000.0	8,000.0	8,038.8	8,012.9	10.9	9.1	-71.36	288.8	-856.3	903.7	889.8	13.90	65.012		
8,100.0	8,100.0	8,138.8	8,112.9	11.0	9.2	-71.36	288.8	-856.3	903.7	889.7	14.01	64.489		
8,200.0	8,200.0	8,238.8	8,212.9	11.1	9.3	-71.36	288.8	-856.3	903.7	889.6	14.13	63.970		
8,300.0	8,300.0	8,338.8	8,312.9	11.3	9.4	-71.36	288.8	-856.3	903.7	889.5	14.24	63.457		
8,400.0	8,400.0	8,438.8	8,412.9	11.4	9.5	-71.36	288.8	-856.3	903.7	889.4	14.36	62.948		
8,500.0	8,500.0	8,538.8	8,512.9	11.5	9.6	-71.36	288.8	-856.3	903.7	889.3	14.47	62.445		
8,600.0	8,600.0	8,638.8	8,612.9	11.6	9.7	-71.36	288.8	-856.3	903.7	889.1	14.59	61.946		
8,700.0	8,700.0	8,738.8	8,712.9	11.8	9.8	-71.36	288.8	-856.3	903.7	889.0	14.71	61.452		
8,800.0	8,800.0	8,838.8	8,812.9	11.9	9.9	-71.36	288.8	-856.3	903.7	888.9	14.82	60.963		
8,900.0	8,900.0	8,938.8	8,912.9	12.0	10.0	-71.36	288.8	-856.3	903.7	888.8	14.94	60.479		
9,000.0	9,000.0	9,038.8	9,012.9	12.2	10.1	-71.36	288.8	-856.3	903.7	888.7	15.06	60.000		
9,100.0	9,100.0	9,138.8	9,112.9	12.3	10.2	-71.36	288.8	-856.3	903.7	888.5	15.18	59.526		
9,200.0	9,200.0	9,238.8	9,212.9	12.4	10.3	-71.36	288.8	-856.3	903.7	888.4	15.30	59.057		
9,300.0	9,300.0	9,338.8	9,312.9	12.5	10.4	-71.36	288.8	-856.3	903.7	888.3	15.42	58.594		
9,400.0	9,400.0	9,438.8	9,412.9	12.7	10.5	-71.36	288.8	-856.3	903.7	888.2	15.55	58.134		
9,500.0	9,500.0	9,538.8	9,512.9	12.8	10.6	-71.36	288.8	-856.3	903.7	888.1	15.67	57.680		
9,600.0	9,600.0	9,638.8	9,612.9	12.9	10.7	-71.36	288.8	-856.3	903.7	887.9	15.79	57.231		
9,700.0	9,700.0	9,738.8	9,712.9	13.1	10.9	-71.36	288.8	-856.3	903.7	887.8	15.91	56.787		
9,800.0	9,800.0	9,838.8	9,812.9	13.2	11.0	-71.36	288.8	-856.3	903.7	887.7	16.04	56.348		
9,900.0	9,900.0	9,938.8	9,912.9	13.3	11.1	-71.36	288.8	-856.3	903.7	887.6	16.16	55.913		
10,000.0	10,000.0	10,038.8	10,012.9	13.4	11.2	-71.36	288.8	-856.3	903.7	887.4	16.29	55.483		
10,100.0	10,100.0	10,138.8	10,112.9	13.6	11.3	-71.36	288.8	-856.3	903.7	887.3	16.41	55.059		
10,200.0	10,200.0	10,238.8	10,212.9	13.7	11.4	-71.36	288.8	-856.3	903.7	887.2	16.54	54.638		
10,300.0	10,300.0	10,338.8	10,312.9	13.8	11.5	-71.36	288.8	-856.3	903.7	887.1	16.67	54.223		
10,400.0	10,400.0	10,438.8	10,412.9	14.0	11.6	-71.36	288.8	-856.3	903.7	886.9	16.79	53.812		
10,500.0	10,500.0	10,538.8	10,512.9	14.1	11.7	-71.36	288.8	-856.3	903.7	886.8	16.92	53.406		
10,600.0	10,600.0	10,638.8	10,612.9	14.2	11.9	-71.36	288.8	-856.3	903.7	886.7	17.05	53.005		
10,700.0	10,700.0	10,738.8	10,712.9	14.3	12.0	-71.36	288.8	-856.3	903.7	886.6	17.18	52.608		
10,800.0	10,800.0	10,838.8	10,812.9	14.5	12.1	-71.36	288.8	-856.3	903.7	886.4	17.31	52.215		
10,900.0	10,900.0	10,938.8	10,912.9	14.6	12.2	-71.36	288.8	-856.3	903.7	886.3	17.44	51.827		
11,000.0	11,000.0	11,038.8	11,012.9	14.7	12.3	-71.36	288.8	-856.3	903.7	886.2	17.57	51.444		
11,100.0	11,100.0	11,138.8	11,112.9	14.9	12.4	-71.36	288.8	-856.3	903.7	886.0	17.70	51.065		
11,200.0	11,200.0	11,238.8	11,212.9	15.0	12.5	-71.36	288.8	-856.3	903.7	885.9	17.83	50.690		
11,300.0	11,300.0	11,338.8	11,312.9	15.1	12.7	-71.36	288.8	-856.3	903.7	885.8	17.96	50.320		
11,400.0	11,400.0	11,438.8	11,412.9	15.2	12.8	-71.36	288.8	-856.3	903.7	885.6	18.08	49.979		
11,401.6	11,401.6	11,440.4	11,414.5	15.2	12.8	-71.36	288.8	-856.3	903.7	885.6	18.08	49.974		
11,416.5	11,416.5	11,452.4	11,426.5	15.3	12.8	-71.36	288.8	-856.3	903.7	885.6	18.10	49.934		
11,425.0	11,425.0	11,459.4	11,433.6	15.3	12.8	-69.36	288.9	-856.3	903.7	885.6	18.10	49.924		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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					Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,450.0	11,450.0	11,475.0	11,449.1	15.3	12.8	-69.39	289.3	-856.3	903.6	885.5	18.11	49.897		
11,475.0	11,474.9	11,490.4	11,464.5	15.3	12.8	-69.46	290.3	-856.3	903.3	885.1	18.13	49.821		
11,500.0	11,499.6	11,505.9	11,479.9	15.3	12.8	-69.56	291.8	-856.4	902.7	884.6	18.16	49.709		
11,525.0	11,524.1	11,525.0	11,498.8	15.4	12.8	-69.73	294.3	-856.4	902.0	883.8	18.19	49.600		
11,550.0	11,548.3	11,536.9	11,510.5	15.4	12.8	-69.90	296.3	-856.4	901.1	882.9	18.25	49.384		
11,575.0	11,572.1	11,550.0	11,523.4	15.4	12.9	-70.11	298.8	-856.4	900.0	881.7	18.32	49.138		
11,600.0	11,595.5	11,567.9	11,540.9	15.5	12.9	-70.39	302.7	-856.4	898.7	880.4	18.36	48.944		
11,625.0	11,618.4	11,583.5	11,556.0	15.5	12.9	-70.69	306.7	-856.5	897.3	878.9	18.43	48.689		
11,650.0	11,640.8	11,600.0	11,571.8	15.5	12.9	-71.05	311.4	-856.5	895.7	877.2	18.49	48.435		
11,675.0	11,662.6	11,614.8	11,585.8	15.6	12.9	-71.42	316.2	-856.5	893.9	875.3	18.57	48.129		
11,700.0	11,683.6	11,630.5	11,600.5	15.6	13.0	-71.83	321.6	-856.5	892.0	873.3	18.65	47.833		
11,725.0	11,704.0	11,650.0	11,618.5	15.6	13.0	-72.34	329.1	-856.6	889.9	871.2	18.68	47.628		
11,750.0	11,723.5	11,662.0	11,629.5	15.7	13.0	-72.78	334.1	-856.6	887.7	868.9	18.80	47.221		
11,775.0	11,742.3	11,675.0	11,641.1	15.7	13.0	-73.25	339.8	-856.7	885.4	866.5	18.91	46.833		
11,800.0	11,760.1	11,693.8	11,657.8	15.7	13.0	-73.86	348.6	-856.7	883.0	864.0	18.94	46.616		
11,825.0	11,777.0	11,709.8	11,671.6	15.8	13.1	-74.45	356.5	-856.8	880.5	861.5	19.01	46.323		
11,850.0	11,792.8	11,725.0	11,684.5	15.8	13.1	-75.06	364.5	-856.8	877.9	858.8	19.08	46.016		
11,875.0	11,807.7	11,742.0	11,698.7	15.8	13.1	-75.73	374.0	-856.9	875.2	856.1	19.12	45.770		
11,900.0	11,821.5	11,758.2	11,711.9	15.9	13.1	-76.41	383.5	-856.9	872.5	853.3	19.17	45.514		
11,925.0	11,834.2	11,775.0	11,725.1	15.9	13.2	-77.13	393.7	-857.0	869.8	850.6	19.21	45.286		
11,950.0	11,845.7	11,791.0	11,737.5	15.9	13.2	-77.85	404.0	-857.1	867.0	847.8	19.25	45.049		
11,975.0	11,856.1	11,807.6	11,749.9	15.9	13.2	-78.61	415.0	-857.1	864.3	845.0	19.27	44.840		
12,000.0	11,865.2	11,825.0	11,762.4	16.0	13.2	-79.41	427.0	-857.2	861.5	842.2	19.29	44.666		
12,025.0	11,873.2	11,841.2	11,773.7	16.0	13.3	-80.19	438.5	-857.3	858.8	839.5	19.31	44.468		
12,050.0	11,879.8	11,858.1	11,785.2	16.0	13.3	-81.01	451.1	-857.4	856.2	836.9	19.33	44.301		
12,075.0	11,885.2	11,875.0	11,796.1	16.0	13.3	-81.84	463.9	-857.4	853.6	834.3	19.34	44.138		
12,100.0	11,889.3	11,892.7	11,807.0	16.0	13.3	-82.70	477.8	-857.5	851.2	831.8	19.35	43.993		
12,125.0	11,892.2	11,910.2	11,817.3	16.0	13.4	-83.56	492.0	-857.6	848.8	829.5	19.36	43.844		
12,150.0	11,893.7	11,928.0	11,827.3	16.0	13.4	-84.43	506.7	-857.7	846.6	827.2	19.38	43.691		
12,166.5	11,894.0	11,939.9	11,833.6	16.0	13.4	-85.01	516.8	-857.8	845.2	825.8	19.39	43.586		
12,207.4	11,894.0	11,970.5	11,848.8	16.1	13.4	-86.05	543.4	-857.9	842.8	823.4	19.47	43.289		
12,300.0	11,894.0	12,048.1	11,879.2	16.1	13.5	-88.12	614.6	-858.4	840.8	820.9	19.89	42.275		
12,400.0	11,894.0	12,142.2	11,900.2	16.1	13.6	-89.54	706.2	-859.0	840.3	819.8	20.49	41.010		
12,500.0	11,894.0	12,241.5	11,904.0	16.1	13.7	-89.80	805.4	-859.6	840.3	819.1	21.20	39.629		
12,517.0	11,894.0	12,258.5	11,904.0	16.1	13.7	-89.80	822.4	-859.7	840.3	818.9	21.34	39.383		
12,600.0	11,894.0	12,341.5	11,904.0	16.2	13.7	-89.80	905.4	-860.2	840.2	818.2	22.00	38.187		
12,700.0	11,894.0	12,441.5	11,904.0	16.2	13.8	-89.80	1,005.4	-860.9	840.2	817.4	22.88	36.719		
12,800.0	11,894.0	12,541.5	11,904.0	16.2	13.9	-89.80	1,105.4	-861.5	840.2	816.4	23.83	35.263		
12,900.0	11,894.0	12,641.5	11,904.0	16.3	14.1	-89.80	1,205.4	-862.1	840.2	815.4	24.83	33.839		
13,000.0	11,894.0	12,741.5	11,904.0	16.3	14.2	-89.80	1,305.4	-862.7	840.2	814.3	25.88	32.462		
13,100.0	11,894.0	12,841.5	11,904.0	16.4	14.4	-89.80	1,405.4	-863.4	840.2	813.2	26.98	31.139		
13,200.0	11,894.0	12,941.5	11,904.0	16.4	14.7	-89.80	1,505.4	-864.0	840.2	812.1	28.12	29.878		
13,300.0	11,894.0	13,041.5	11,904.0	16.5	15.0	-89.80	1,605.3	-864.6	840.2	810.9	29.30	28.680		
13,400.0	11,894.0	13,141.5	11,904.0	16.5	15.4	-89.80	1,705.3	-865.3	840.2	809.7	30.50	27.547		
13,500.0	11,894.0	13,241.5	11,904.0	16.6	15.8	-89.80	1,805.3	-865.9	840.2	808.5	31.73	26.476		
13,600.0	11,894.0	13,341.5	11,904.0	17.2	16.3	-89.80	1,905.3	-866.5	840.2	807.2	32.99	25.466		
13,700.0	11,894.0	13,441.5	11,904.0	17.8	16.8	-89.80	2,005.3	-867.2	840.2	805.9	34.27	24.515		
13,800.0	11,894.0	13,541.5	11,904.0	18.5	17.4	-89.80	2,105.3	-867.8	840.2	804.6	35.57	23.619		
13,900.0	11,894.0	13,641.5	11,904.0	19.2	18.0	-89.80	2,205.3	-868.4	840.2	803.3	36.89	22.776		
14,000.0	11,894.0	13,741.5	11,904.0	19.9	18.6	-89.80	2,305.3	-869.0	840.2	802.0	38.22	21.982		
14,100.0	11,894.0	13,841.5	11,904.0	20.5	19.2	-89.80	2,405.3	-869.7	840.2	800.6	39.57	21.233		
14,200.0	11,894.0	13,941.5	11,904.0	21.2	19.8	-89.80	2,505.3	-870.3	840.2	799.3	40.93	20.528		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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)				
14,300.0	11,894.0	14,041.5	11,904.0	21.9	20.5	-89.80	2,605.3	-870.9	840.2	797.9	42.30	19.862		
14,400.0	11,894.0	14,141.5	11,904.0	22.7	21.2	-89.80	2,705.3	-871.6	840.2	796.5	43.68	19.234		
14,500.0	11,894.0	14,241.5	11,904.0	23.4	21.8	-89.80	2,805.3	-872.2	840.2	795.1	45.07	18.640		
14,600.0	11,894.0	14,341.5	11,904.0	24.1	22.5	-89.80	2,905.3	-872.8	840.2	793.7	46.47	18.079		
14,700.0	11,894.0	14,441.5	11,904.0	24.8	23.2	-89.80	3,005.3	-873.5	840.2	792.3	47.88	17.547		
14,800.0	11,894.0	14,541.5	11,904.0	25.5	23.9	-89.80	3,105.3	-874.1	840.2	790.9	49.29	17.044		
14,900.0	11,894.0	14,641.5	11,904.0	26.2	24.6	-89.80	3,205.3	-874.7	840.2	789.4	50.72	16.566		
15,000.0	11,894.0	14,741.5	11,904.0	26.9	25.3	-89.80	3,305.3	-875.3	840.1	788.0	52.14	16.113		
15,100.0	11,894.0	14,841.5	11,904.0	27.7	26.0	-89.80	3,405.3	-876.0	840.1	786.6	53.57	15.682		
15,200.0	11,894.0	14,941.5	11,904.0	28.4	26.7	-89.80	3,505.3	-876.6	840.1	785.1	55.01	15.272		
15,300.0	11,894.0	15,041.5	11,904.0	29.1	27.4	-89.80	3,605.3	-877.2	840.1	783.7	56.46	14.882		
15,400.0	11,894.0	15,141.5	11,904.0	29.9	28.1	-89.80	3,705.3	-877.9	840.1	782.2	57.90	14.510		
15,500.0	11,894.0	15,241.5	11,904.0	30.6	28.8	-89.80	3,805.3	-878.5	840.1	780.8	59.35	14.155		
15,600.0	11,894.0	15,341.5	11,904.0	31.3	29.5	-89.80	3,905.3	-879.1	840.1	779.3	60.81	13.816		
15,700.0	11,894.0	15,441.5	11,904.0	32.1	30.2	-89.80	4,005.3	-879.8	840.1	777.9	62.27	13.493		
15,800.0	11,894.0	15,541.5	11,904.0	32.8	31.0	-89.80	4,105.3	-880.4	840.1	776.4	63.73	13.183		
15,900.0	11,894.0	15,641.5	11,904.0	33.5	31.7	-89.80	4,205.3	-881.0	840.1	774.9	65.19	12.887		
16,000.0	11,894.0	15,741.5	11,904.0	34.3	32.4	-89.80	4,305.3	-881.6	840.1	773.4	66.66	12.603		
16,100.0	11,894.0	15,841.5	11,904.0	35.0	33.1	-89.80	4,405.3	-882.3	840.1	772.0	68.13	12.331		
16,200.0	11,894.0	15,941.5	11,904.0	35.8	33.9	-89.80	4,505.3	-882.9	840.1	770.5	69.60	12.070		
16,300.0	11,894.0	16,041.5	11,904.0	36.5	34.6	-89.80	4,605.3	-883.5	840.1	769.0	71.07	11.820		
16,400.0	11,894.0	16,141.5	11,904.0	37.2	35.3	-89.80	4,705.3	-884.2	840.1	767.5	72.55	11.579		
16,500.0	11,894.0	16,241.5	11,904.0	38.0	36.1	-89.80	4,805.3	-884.8	840.1	766.1	74.03	11.348		
16,600.0	11,894.0	16,341.5	11,904.0	38.7	36.8	-89.80	4,905.3	-885.4	840.1	764.6	75.51	11.125		
16,700.0	11,894.0	16,441.5	11,904.0	39.5	37.5	-89.80	5,005.3	-886.1	840.1	763.1	76.99	10.911		
16,800.0	11,894.0	16,541.5	11,904.0	40.2	38.3	-89.80	5,105.3	-886.7	840.1	761.6	78.48	10.705		
16,900.0	11,894.0	16,641.5	11,904.0	41.0	39.0	-89.80	5,205.3	-887.3	840.1	760.1	79.96	10.506		
17,000.0	11,894.0	16,741.5	11,904.0	41.7	39.8	-89.80	5,305.3	-887.9	840.1	758.6	81.45	10.314		
17,100.0	11,894.0	16,841.5	11,904.0	42.5	40.5	-89.80	5,405.3	-888.6	840.1	757.1	82.94	10.129		
17,200.0	11,894.0	16,941.5	11,904.0	43.2	41.2	-89.80	5,505.3	-889.2	840.1	755.6	84.43	9.950		
17,300.0	11,894.0	17,041.5	11,904.0	44.0	42.0	-89.80	5,605.3	-889.8	840.1	754.1	85.92	9.777		
17,400.0	11,894.0	17,141.5	11,904.0	44.7	42.7	-89.80	5,705.3	-890.5	840.0	752.6	87.41	9.610		
17,500.0	11,894.0	17,241.5	11,904.0	45.5	43.5	-89.80	5,805.3	-891.1	840.0	751.1	88.91	9.449		
17,600.0	11,894.0	17,341.5	11,904.0	46.2	44.2	-89.80	5,905.3	-891.7	840.0	749.6	90.40	9.292		
17,700.0	11,894.0	17,441.5	11,904.0	47.0	45.0	-89.80	6,005.3	-892.4	840.0	748.1	91.90	9.141		
17,800.0	11,894.0	17,541.5	11,904.0	47.7	45.7	-89.80	6,105.3	-893.0	840.0	746.6	93.39	8.994		
17,900.0	11,894.0	17,641.5	11,904.0	48.5	46.4	-89.80	6,205.3	-893.6	840.0	745.1	94.89	8.852		
18,000.0	11,894.0	17,741.5	11,904.0	49.2	47.2	-89.80	6,305.3	-894.2	840.0	743.6	96.39	8.715		
18,100.0	11,894.0	17,841.5	11,904.0	50.0	47.9	-89.80	6,405.3	-894.9	840.0	742.1	97.89	8.581		
18,200.0	11,894.0	17,941.5	11,904.0	50.7	48.7	-89.80	6,505.3	-895.5	840.0	740.6	99.39	8.452		
18,300.0	11,894.0	18,041.5	11,904.0	51.5	49.4	-89.80	6,605.2	-896.1	840.0	739.1	100.89	8.326		
18,400.0	11,894.0	18,141.5	11,904.0	52.2	50.2	-89.80	6,705.2	-896.8	840.0	737.6	102.39	8.204		
18,500.0	11,894.0	18,241.5	11,904.0	53.0	50.9	-89.80	6,805.2	-897.4	840.0	736.1	103.90	8.085		
18,600.0	11,894.0	18,341.5	11,904.0	53.7	51.7	-89.80	6,905.2	-898.0	840.0	734.6	105.40	7.970		
18,700.0	11,894.0	18,441.5	11,904.0	54.5	52.4	-89.80	7,005.2	-898.7	840.0	733.1	106.91	7.857		
18,800.0	11,894.0	18,541.5	11,904.0	55.2	53.2	-89.80	7,105.2	-899.3	840.0	731.6	108.41	7.748		
18,900.0	11,894.0	18,641.5	11,904.0	56.0	53.9	-89.80	7,205.2	-899.9	840.0	730.1	109.92	7.642		
19,000.0	11,894.0	18,741.5	11,904.0	56.7	54.7	-89.80	7,305.2	-900.5	840.0	728.6	111.42	7.539		
19,100.0	11,894.0	18,841.5	11,904.0	57.5	55.4	-89.80	7,405.2	-901.2	840.0	727.1	112.93	7.438		
19,200.0	11,894.0	18,941.5	11,904.0	58.3	56.2	-89.80	7,505.2	-901.8	840.0	725.5	114.44	7.340		
19,300.0	11,894.0	19,041.5	11,904.0	59.0	56.9	-89.80	7,605.2	-902.4	840.0	724.0	115.94	7.245		
19,400.0	11,894.0	19,141.5	11,904.0	59.8	57.7	-89.80	7,705.2	-903.1	840.0	722.5	117.45	7.152		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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)			
19,500.0	11,894.0	19,241.5	11,904.0	60.5	58.4	-89.80	7,805.2	-903.7	840.0	721.0	118.96	7.061	
19,600.0	11,894.0	19,341.5	11,904.0	61.3	59.2	-89.80	7,905.2	-904.3	840.0	719.5	120.47	6.972	
19,700.0	11,894.0	19,441.5	11,904.0	62.0	60.0	-89.80	8,005.2	-905.0	840.0	718.0	121.98	6.886	
19,800.0	11,894.0	19,541.5	11,904.0	62.8	60.7	-89.80	8,105.2	-905.6	839.9	716.5	123.49	6.802	
19,864.0	11,894.0	19,605.4	11,904.0	63.3	61.2	-89.80	8,169.2	-906.0	839.9	715.5	124.45	6.749 CC, ES	
19,900.0	11,894.0	19,608.0	11,904.0	63.5	61.2	-89.80	8,171.7	-906.0	840.6	715.9	124.69	6.742 SF	
19,919.4	11,894.0	19,608.0	11,904.0	63.7	61.2	-89.80	8,171.7	-906.0	841.6	716.9	124.72	6.748	

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	3.0	3.0	-90.40	-0.2	-33.0	33.0					
100.0	100.0	99.9	99.9	3.0	3.0	-90.40	-0.2	-33.0	33.0	27.0	6.00	5.497		
200.0	200.0	199.9	199.9	3.0	3.0	-90.40	-0.2	-33.0	33.0	27.0	6.00	5.494		
300.0	300.0	299.9	299.9	3.0	3.0	-90.40	-0.2	-33.0	33.0	27.0	6.01	5.489		
400.0	400.0	399.9	399.9	3.0	3.0	-90.40	-0.2	-33.0	33.0	27.0	6.02	5.480		
500.0	500.0	499.9	499.9	3.1	3.1	-90.40	-0.2	-33.0	33.0	27.0	6.03	5.469		
600.0	600.0	599.9	599.9	3.1	3.1	-90.40	-0.2	-33.0	33.0	26.9	6.05	5.455		
700.0	700.0	699.9	699.9	3.1	3.1	-90.40	-0.2	-33.0	33.0	26.9	6.07	5.438		
800.0	800.0	799.9	799.9	3.2	3.2	-90.40	-0.2	-33.0	33.0	26.9	6.09	5.418		
900.0	900.0	899.9	899.9	3.2	3.2	-90.40	-0.2	-33.0	33.0	26.9	6.11	5.396		
1,000.0	1,000.0	999.9	999.9	3.2	3.2	-90.40	-0.2	-33.0	33.0	26.8	6.14	5.371		
1,100.0	1,100.0	1,099.9	1,099.9	3.3	3.3	-90.40	-0.2	-33.0	33.0	26.8	6.17	5.344		
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.4	-90.40	-0.2	-33.0	33.0	26.8	6.21	5.315		
1,300.0	1,300.0	1,299.9	1,299.9	3.4	3.4	-90.40	-0.2	-33.0	33.0	26.7	6.24	5.283		
1,400.0	1,400.0	1,399.9	1,399.9	3.5	3.5	-90.40	-0.2	-33.0	33.0	26.7	6.28	5.249		
1,500.0	1,500.0	1,499.9	1,499.9	3.5	3.5	-90.40	-0.2	-33.0	33.0	26.7	6.33	5.214		
1,600.0	1,600.0	1,599.9	1,599.9	3.6	3.6	-90.40	-0.2	-33.0	33.0	26.6	6.37	5.177		
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	-90.40	-0.2	-33.0	33.0	26.6	6.42	5.138		
1,800.0	1,800.0	1,799.9	1,799.9	3.8	3.8	-90.40	-0.2	-33.0	33.0	26.5	6.47	5.097		
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	-90.40	-0.2	-33.0	33.0	26.5	6.52	5.055		
2,000.0	2,000.0	1,999.9	1,999.9	3.9	3.9	-90.40	-0.2	-33.0	33.0	26.4	6.58	5.012		
2,100.0	2,100.0	2,099.9	2,099.9	4.0	4.0	-90.40	-0.2	-33.0	33.0	26.3	6.64	4.968		
2,200.0	2,200.0	2,199.9	2,199.9	4.1	4.1	-90.40	-0.2	-33.0	33.0	26.3	6.70	4.923		
2,300.0	2,300.0	2,299.9	2,299.9	4.2	4.2	-90.40	-0.2	-33.0	33.0	26.2	6.76	4.877		
2,400.0	2,400.0	2,399.9	2,399.9	4.3	4.3	-90.40	-0.2	-33.0	33.0	26.2	6.83	4.830		
2,500.0	2,500.0	2,499.9	2,499.9	4.4	4.4	-90.40	-0.2	-33.0	33.0	26.1	6.90	4.783 CC, ES		
2,600.0	2,600.0	2,598.8	2,598.8	4.5	4.5	-89.48	0.3	-34.6	34.6	27.6	6.97	4.969		
2,700.0	2,700.0	2,697.4	2,697.3	4.6	4.5	-87.19	1.9	-39.4	39.6	32.5	7.05	5.612		
2,800.0	2,800.0	2,795.6	2,795.1	4.7	4.6	-84.43	4.6	-47.4	47.9	40.7	7.16	6.693		
2,900.0	2,900.0	2,895.0	2,893.9	4.8	4.6	-82.12	7.9	-57.3	58.1	50.8	7.28	7.981		
3,000.0	3,000.0	2,994.4	2,992.8	4.9	4.7	-80.50	11.2	-67.1	68.4	61.0	7.42	9.228		
3,100.0	3,100.0	3,093.9	3,091.7	5.0	4.8	-79.30	14.5	-77.0	78.8	71.2	7.55	10.431		
3,200.0	3,200.0	3,193.4	3,190.7	5.1	4.8	-78.38	17.9	-86.8	89.1	81.4	7.69	11.592		
3,300.0	3,300.0	3,292.8	3,289.6	5.2	4.9	-77.65	21.2	-96.7	99.5	91.7	7.83	12.711		
3,400.0	3,400.0	3,392.3	3,388.5	5.3	5.0	-77.06	24.5	-106.5	109.9	101.9	7.97	13.788		
3,500.0	3,500.0	3,491.7	3,487.4	5.4	5.0	-76.58	27.8	-116.4	120.3	112.2	8.12	14.825		
3,600.0	3,600.0	3,591.2	3,586.3	5.5	5.1	-76.16	31.1	-126.3	130.7	122.5	8.26	15.821		
3,700.0	3,700.0	3,690.6	3,685.2	5.7	5.2	-75.82	34.4	-136.1	141.2	132.7	8.41	16.780		
3,800.0	3,800.0	3,790.1	3,784.1	5.8	5.3	-75.51	37.7	-146.0	151.6	143.0	8.56	17.701		
3,900.0	3,900.0	3,889.5	3,883.0	5.9	5.3	-75.25	41.0	-155.8	162.0	153.3	8.72	18.586		
4,000.0	4,000.0	3,989.0	3,981.9	6.0	5.4	-75.02	44.3	-165.7	172.4	163.6	8.87	19.436		
4,100.0	4,100.0	4,088.4	4,080.8	6.1	5.5	-74.82	47.6	-175.5	182.9	173.8	9.03	20.253		
4,200.0	4,200.0	4,187.9	4,179.7	6.2	5.6	-74.63	50.9	-185.4	193.3	184.1	9.19	21.038		
4,300.0	4,300.0	4,287.3	4,278.6	6.3	5.7	-74.47	54.3	-195.2	203.7	194.4	9.35	21.793		
4,400.0	4,400.0	4,386.8	4,377.5	6.5	5.8	-74.32	57.6	-205.1	214.2	204.7	9.51	22.518		
4,500.0	4,500.0	4,486.2	4,476.4	6.6	5.9	-74.19	60.9	-214.9	224.6	215.0	9.68	23.215		
4,600.0	4,600.0	4,585.7	4,575.4	6.7	6.0	-74.06	64.2	-224.8	235.1	225.2	9.84	23.885		
4,700.0	4,700.0	4,685.1	4,674.3	6.8	6.1	-73.95	67.5	-234.7	245.5	235.5	10.01	24.529		
4,800.0	4,800.0	4,784.6	4,773.2	6.9	6.2	-73.85	70.8	-244.5	256.0	245.8	10.18	25.148		
4,900.0	4,900.0	4,884.0	4,872.1	7.0	6.3	-73.76	74.1	-254.4	266.4	256.1	10.35	25.744		
5,000.0	5,000.0	4,983.5	4,971.0	7.2	6.4	-73.67	77.4	-264.2	276.8	266.3	10.52	26.317		
5,100.0	5,100.0	5,082.9	5,069.9	7.3	6.5	-73.59	80.7	-274.1	287.3	276.6	10.69	26.869		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,200.0	5,182.4	5,168.8	7.4	6.6	-73.51	84.0	-283.9	297.7	286.9	10.87	27.400		
5,300.0	5,300.0	5,281.8	5,267.7	7.5	6.7	-73.44	87.4	-293.8	308.2	297.1	11.04	27.912		
5,400.0	5,400.0	5,381.3	5,366.6	7.6	6.8	-73.38	90.7	-303.6	318.6	307.4	11.22	28.404		
5,500.0	5,500.0	5,480.8	5,465.5	7.8	6.9	-73.31	94.0	-313.5	329.1	317.7	11.39	28.879		
5,600.0	5,600.0	5,580.2	5,564.4	7.9	7.0	-73.26	97.3	-323.3	339.5	328.0	11.57	29.337		
5,700.0	5,700.0	5,679.7	5,663.3	8.0	7.1	-73.20	100.6	-333.2	350.0	338.2	11.75	29.779		
5,800.0	5,800.0	5,779.1	5,762.2	8.1	7.2	-73.15	103.9	-343.1	360.4	348.5	11.93	30.204		
5,900.0	5,900.0	5,878.6	5,861.1	8.3	7.3	-73.10	107.2	-352.9	370.9	358.8	12.11	30.615		
6,000.0	6,000.0	5,978.0	5,960.1	8.4	7.4	-73.06	110.5	-362.8	381.3	369.0	12.30	31.012		
6,100.0	6,100.0	6,077.5	6,059.0	8.5	7.5	-73.01	113.8	-372.6	391.8	379.3	12.48	31.395		
6,200.0	6,200.0	6,176.9	6,157.9	8.6	7.6	-72.97	117.1	-382.5	402.2	389.6	12.66	31.764		
6,300.0	6,300.0	6,276.4	6,256.8	8.7	7.7	-72.93	120.4	-392.3	412.7	399.8	12.85	32.122		
6,400.0	6,400.0	6,375.8	6,355.7	8.9	7.9	-72.90	123.8	-402.2	423.1	410.1	13.03	32.467		
6,500.0	6,500.0	6,480.9	6,460.2	9.0	8.0	-72.86	127.1	-412.1	433.1	419.9	13.21	32.785		
6,600.0	6,600.0	6,588.8	6,567.8	9.1	8.1	-72.83	129.9	-420.6	441.3	427.9	13.39	32.960		
6,700.0	6,700.0	6,697.0	6,675.7	9.2	8.2	-72.81	132.1	-427.1	447.7	434.1	13.58	32.978		
6,800.0	6,800.0	6,805.4	6,784.0	9.4	8.3	-72.80	133.6	-431.6	452.1	438.4	13.77	32.844		
6,900.0	6,900.0	6,914.0	6,892.6	9.5	8.4	-72.79	134.5	-434.3	454.7	440.7	13.96	32.573		
7,000.0	7,000.0	7,021.3	6,999.9	9.6	8.6	-72.79	134.8	-435.0	455.4	441.3	14.13	32.235		
7,100.0	7,100.0	7,121.3	7,099.9	9.7	8.7	-72.79	134.8	-435.0	455.4	441.1	14.26	31.935		
7,200.0	7,200.0	7,221.3	7,199.9	9.9	8.8	-72.79	134.8	-435.0	455.4	441.0	14.39	31.640		
7,300.0	7,300.0	7,321.3	7,299.9	10.0	8.9	-72.79	134.8	-435.0	455.4	440.9	14.53	31.350		
7,400.0	7,400.0	7,421.3	7,399.9	10.1	9.0	-72.79	134.8	-435.0	455.4	440.7	14.66	31.064		
7,500.0	7,500.0	7,521.3	7,499.9	10.3	9.1	-72.79	134.8	-435.0	455.4	440.6	14.79	30.782		
7,600.0	7,600.0	7,621.3	7,599.9	10.4	9.2	-72.79	134.8	-435.0	455.4	440.5	14.93	30.505		
7,700.0	7,700.0	7,721.3	7,699.9	10.5	9.3	-72.79	134.8	-435.0	455.4	440.3	15.06	30.231		
7,800.0	7,800.0	7,821.3	7,799.9	10.6	9.4	-72.79	134.8	-435.0	455.4	440.2	15.20	29.962		
7,900.0	7,900.0	7,921.3	7,899.9	10.8	9.5	-72.79	134.8	-435.0	455.4	440.0	15.33	29.697		
8,000.0	8,000.0	8,021.3	7,999.9	10.9	9.6	-72.79	134.8	-435.0	455.4	439.9	15.47	29.436		
8,100.0	8,100.0	8,121.3	8,099.9	11.0	9.7	-72.79	134.8	-435.0	455.4	439.8	15.61	29.179		
8,200.0	8,200.0	8,221.3	8,199.9	11.1	9.8	-72.79	134.8	-435.0	455.4	439.6	15.74	28.925		
8,300.0	8,300.0	8,321.3	8,299.9	11.3	9.9	-72.79	134.8	-435.0	455.4	439.5	15.88	28.676		
8,400.0	8,400.0	8,421.3	8,399.9	11.4	10.0	-72.79	134.8	-435.0	455.4	439.4	16.02	28.430		
8,500.0	8,500.0	8,521.3	8,499.9	11.5	10.1	-72.79	134.8	-435.0	455.4	439.2	16.16	28.188		
8,600.0	8,600.0	8,621.3	8,599.9	11.6	10.2	-72.79	134.8	-435.0	455.4	439.1	16.29	27.949		
8,700.0	8,700.0	8,721.3	8,699.9	11.8	10.4	-72.79	134.8	-435.0	455.4	438.9	16.43	27.714		
8,800.0	8,800.0	8,821.3	8,799.9	11.9	10.5	-72.79	134.8	-435.0	455.4	438.8	16.57	27.482		
8,900.0	8,900.0	8,921.3	8,899.9	12.0	10.6	-72.79	134.8	-435.0	455.4	438.7	16.71	27.254		
9,000.0	9,000.0	9,021.3	8,999.9	12.2	10.7	-72.79	134.8	-435.0	455.4	438.5	16.85	27.029		
9,100.0	9,100.0	9,121.3	9,099.9	12.3	10.8	-72.79	134.8	-435.0	455.4	438.4	16.99	26.807		
9,200.0	9,200.0	9,221.3	9,199.9	12.4	10.9	-72.79	134.8	-435.0	455.4	438.3	17.13	26.588		
9,300.0	9,300.0	9,321.3	9,299.9	12.5	11.0	-72.79	134.8	-435.0	455.4	438.1	17.27	26.373		
9,400.0	9,400.0	9,421.3	9,399.9	12.7	11.1	-72.79	134.8	-435.0	455.4	438.0	17.41	26.161		
9,500.0	9,500.0	9,521.3	9,499.9	12.8	11.3	-72.79	134.8	-435.0	455.4	437.8	17.55	25.952		
9,600.0	9,600.0	9,621.3	9,599.9	12.9	11.4	-72.79	134.8	-435.0	455.4	437.7	17.69	25.745		
9,700.0	9,700.0	9,721.3	9,699.9	13.1	11.5	-72.79	134.8	-435.0	455.4	437.6	17.83	25.542		
9,800.0	9,800.0	9,821.3	9,799.9	13.2	11.6	-72.79	134.8	-435.0	455.4	437.4	17.97	25.341		
9,900.0	9,900.0	9,921.3	9,899.9	13.3	11.7	-72.79	134.8	-435.0	455.4	437.3	18.11	25.144		
10,000.0	10,000.0	10,021.3	9,999.9	13.4	11.8	-72.79	134.8	-435.0	455.4	437.1	18.25	24.949		
10,100.0	10,100.0	10,121.3	10,099.9	13.6	11.9	-72.79	134.8	-435.0	455.4	437.0	18.39	24.757		
10,200.0	10,200.0	10,221.3	10,199.9	13.7	12.1	-72.79	134.8	-435.0	455.4	436.8	18.54	24.567		
10,300.0	10,300.0	10,321.3	10,299.9	13.8	12.2	-72.79	134.8	-435.0	455.4	436.7	18.68	24.380		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,400.0	10,400.0	10,421.3	10,399.9	14.0	12.3	-72.79	134.8	-435.0	455.4	436.6	18.82	24.196		
10,500.0	10,500.0	10,521.3	10,499.9	14.1	12.4	-72.79	134.8	-435.0	455.4	436.4	18.96	24.014		
10,600.0	10,600.0	10,621.3	10,599.9	14.2	12.5	-72.79	134.8	-435.0	455.4	436.3	19.11	23.835		
10,700.0	10,700.0	10,721.3	10,699.9	14.3	12.6	-72.79	134.8	-435.0	455.4	436.1	19.25	23.658		
10,800.0	10,800.0	10,821.3	10,799.9	14.5	12.8	-72.79	134.8	-435.0	455.4	436.0	19.39	23.484		
10,900.0	10,900.0	10,921.3	10,899.9	14.6	12.9	-72.79	134.8	-435.0	455.4	435.8	19.53	23.311		
11,000.0	11,000.0	11,021.3	10,999.9	14.7	13.0	-72.79	134.8	-435.0	455.4	435.7	19.68	23.142		
11,100.0	11,100.0	11,121.3	11,099.9	14.9	13.1	-72.79	134.8	-435.0	455.4	435.6	19.82	22.974		
11,200.0	11,200.0	11,221.3	11,199.9	15.0	13.2	-72.79	134.8	-435.0	455.4	435.4	19.96	22.816		
11,209.2	11,209.2	11,230.5	11,209.1	15.0	13.2	-72.79	134.8	-435.0	455.4	435.4	19.97	22.803		
11,300.0	11,300.0	11,311.1	11,289.7	15.1	13.3	-72.63	136.1	-435.0	455.9	435.8	20.12	22.658		
11,400.0	11,400.0	11,386.7	11,364.4	15.2	13.4	-71.26	147.6	-435.1	460.8	440.1	20.71	22.247		
11,416.5	11,416.5	11,400.0	11,377.2	15.3	13.4	-70.88	150.8	-435.1	462.1	441.3	20.85	22.164		
11,425.0	11,425.0	11,405.0	11,382.0	15.3	13.4	-68.65	152.1	-435.1	462.9	441.9	20.93	22.114		
11,450.0	11,450.0	11,425.0	11,401.2	15.3	13.4	-67.85	157.9	-435.1	465.0	443.9	21.14	21.995		
11,475.0	11,474.9	11,441.0	11,416.3	15.3	13.4	-67.21	163.0	-435.2	467.0	445.6	21.42	21.804		
11,500.0	11,499.6	11,458.9	11,433.0	15.3	13.4	-66.55	169.4	-435.2	468.9	447.2	21.68	21.628		
11,525.0	11,524.1	11,475.0	11,447.9	15.4	13.5	-65.99	175.7	-435.2	470.7	448.7	21.99	21.409		
11,550.0	11,548.3	11,494.3	11,465.4	15.4	13.5	-65.40	183.9	-435.3	472.3	450.1	22.24	21.238		
11,575.0	11,572.1	11,512.0	11,481.1	15.4	13.5	-64.89	192.0	-435.3	473.8	451.3	22.53	21.027		
11,600.0	11,595.5	11,529.6	11,496.4	15.5	13.5	-64.44	200.6	-435.4	475.2	452.3	22.83	20.810		
11,625.0	11,618.4	11,550.0	11,513.8	15.5	13.6	-63.99	211.3	-435.5	476.4	453.3	23.07	20.645		
11,650.0	11,640.8	11,564.5	11,525.9	15.5	13.6	-63.68	219.4	-435.5	477.4	453.9	23.45	20.358		
11,675.0	11,662.6	11,582.0	11,540.0	15.6	13.6	-63.38	229.6	-435.6	478.2	454.4	23.76	20.128		
11,700.0	11,683.6	11,600.0	11,554.3	15.6	13.6	-63.11	240.6	-435.7	478.8	454.8	24.05	19.911		
11,725.0	11,704.0	11,616.7	11,567.1	15.6	13.7	-62.92	251.3	-435.7	479.3	454.9	24.37	19.669		
11,750.0	11,723.5	11,634.1	11,580.0	15.7	13.7	-62.76	262.9	-435.8	479.5	454.9	24.66	19.443		
11,775.0	11,742.3	11,650.0	11,591.5	15.7	13.7	-62.66	274.0	-435.9	479.6	454.6	24.98	19.196		
11,800.0	11,760.1	11,668.7	11,604.5	15.7	13.7	-62.60	287.4	-435.9	479.5	454.2	25.22	19.007		
11,825.0	11,777.0	11,686.0	11,616.0	15.8	13.8	-62.60	300.3	-436.0	479.1	453.6	25.49	18.800		
11,850.0	11,792.8	11,700.0	11,625.0	15.8	13.8	-62.64	311.1	-436.1	478.6	452.8	25.81	18.544		
11,875.0	11,807.7	11,720.6	11,637.6	15.8	13.8	-62.74	327.3	-436.2	477.8	451.9	25.95	18.411		
11,900.0	11,821.5	11,737.9	11,647.7	15.9	13.8	-62.89	341.4	-436.3	476.9	450.7	26.16	18.233		
11,925.0	11,834.2	11,755.2	11,657.3	15.9	13.8	-63.09	355.8	-436.4	475.7	449.4	26.33	18.066		
11,950.0	11,845.7	11,775.0	11,667.5	15.9	13.9	-63.35	372.7	-436.5	474.4	448.0	26.44	17.945		
11,975.0	11,856.1	11,789.9	11,674.8	15.9	13.9	-63.63	385.8	-436.6	472.9	446.3	26.61	17.771		
12,000.0	11,865.2	11,807.4	11,682.8	16.0	13.9	-63.98	401.2	-436.7	471.2	444.5	26.71	17.644		
12,025.0	11,873.2	11,825.0	11,690.3	16.0	13.9	-64.39	417.2	-436.8	469.4	442.6	26.77	17.534		
12,050.0	11,879.8	11,842.3	11,697.1	16.0	13.9	-64.84	433.1	-436.9	467.3	440.5	26.80	17.436		
12,075.0	11,885.2	11,859.8	11,703.4	16.0	14.0	-65.34	449.5	-437.0	465.2	438.4	26.80	17.356		
12,100.0	11,889.3	11,875.0	11,708.3	16.0	14.0	-65.85	463.8	-437.1	462.8	436.1	26.79	17.275		
12,125.0	11,892.2	11,895.1	11,714.2	16.0	14.0	-66.50	483.1	-437.2	460.4	433.7	26.69	17.247		
12,150.0	11,893.7	11,912.8	11,718.6	16.0	14.0	-67.16	500.2	-437.3	457.8	431.2	26.59	17.220		
12,166.5	11,894.0	11,925.0	11,721.3	16.0	14.0	-67.63	512.1	-437.4	456.1	429.6	26.49	17.215		
12,207.4	11,894.0	11,954.1	11,726.6	16.1	14.0	-68.28	540.7	-437.6	452.7	426.4	26.29	17.218		
12,300.0	11,894.0	12,025.9	11,732.0	16.1	14.1	-68.91	612.2	-438.0	450.1	423.7	26.32	17.102		
12,304.2	11,894.0	12,025.9	11,732.0	16.1	14.1	-68.91	612.2	-438.0	450.0	423.7	26.32	17.100		
12,400.0	11,894.0	12,121.7	11,732.0	16.1	14.1	-68.92	708.0	-438.6	450.0	423.2	26.82	16.778		
12,500.0	11,894.0	12,221.7	11,732.0	16.1	14.2	-68.92	808.0	-439.3	450.0	422.6	27.42	16.412		
12,600.0	11,894.0	12,321.7	11,732.0	16.2	14.3	-68.92	908.0	-439.9	450.0	421.9	28.09	16.020		
12,700.0	11,894.0	12,421.7	11,732.0	16.2	14.4	-68.92	1,008.0	-440.5	450.0	421.2	28.83	15.611		
12,800.0	11,894.0	12,521.7	11,732.0	16.2	14.5	-68.92	1,108.0	-441.2	450.0	420.4	29.63	15.190		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,900.0	11,894.0	12,621.7	11,732.0	16.3	14.6	-68.92	1,208.0	-441.8	450.0	419.6	30.48	14.765		
13,000.0	11,894.0	12,721.7	11,732.0	16.3	14.8	-68.92	1,308.0	-442.4	450.0	418.7	31.38	14.340		
13,100.0	11,894.0	12,821.7	11,732.0	16.4	15.1	-68.92	1,408.0	-443.1	450.0	417.7	32.33	13.918		
13,200.0	11,894.0	12,921.7	11,732.0	16.4	15.4	-68.92	1,508.0	-443.7	450.0	416.7	33.33	13.502		
13,300.0	11,894.0	13,021.7	11,732.0	16.5	15.8	-68.92	1,608.0	-444.3	450.0	415.7	34.37	13.095		
13,400.0	11,894.0	13,121.7	11,732.0	16.5	16.2	-68.92	1,708.0	-445.0	450.0	414.6	35.44	12.700		
13,500.0	11,894.0	13,221.7	11,732.0	16.6	16.7	-68.92	1,808.0	-445.6	450.0	413.5	36.54	12.316		
13,600.0	11,894.0	13,321.7	11,732.0	17.2	17.2	-68.92	1,908.0	-446.2	450.0	412.4	37.67	11.946		
13,700.0	11,894.0	13,421.7	11,732.0	17.8	17.7	-68.92	2,008.0	-446.9	450.0	411.2	38.83	11.589		
13,800.0	11,894.0	13,521.7	11,732.0	18.5	18.3	-68.92	2,108.0	-447.5	450.0	410.0	40.02	11.246		
13,900.0	11,894.0	13,621.7	11,732.0	19.2	18.9	-68.92	2,208.0	-448.2	450.1	408.8	41.23	10.916		
14,000.0	11,894.0	13,721.7	11,732.0	19.9	19.6	-68.92	2,308.0	-448.8	450.1	407.6	42.46	10.600		
14,100.0	11,894.0	13,821.7	11,732.0	20.5	20.2	-68.92	2,408.0	-449.4	450.1	406.3	43.71	10.297		
14,200.0	11,894.0	13,921.7	11,732.0	21.2	20.9	-68.92	2,508.0	-450.1	450.1	405.1	44.97	10.008		
14,300.0	11,894.0	14,021.7	11,732.0	21.9	21.5	-68.92	2,608.0	-450.7	450.1	403.8	46.25	9.730		
14,400.0	11,894.0	14,121.7	11,732.0	22.7	22.2	-68.92	2,708.0	-451.3	450.1	402.5	47.55	9.465		
14,500.0	11,894.0	14,221.7	11,732.0	23.4	22.9	-68.92	2,808.0	-452.0	450.1	401.2	48.86	9.211		
14,600.0	11,894.0	14,321.7	11,732.0	24.1	23.6	-68.92	2,907.9	-452.6	450.1	399.9	50.18	8.968		
14,700.0	11,894.0	14,421.7	11,732.0	24.8	24.2	-68.92	3,007.9	-453.2	450.1	398.5	51.52	8.736		
14,800.0	11,894.0	14,521.7	11,732.0	25.5	24.9	-68.92	3,107.9	-453.9	450.1	397.2	52.86	8.514		
14,900.0	11,894.0	14,621.7	11,732.0	26.2	25.6	-68.92	3,207.9	-454.5	450.1	395.8	54.22	8.301		
15,000.0	11,894.0	14,721.7	11,732.0	26.9	26.3	-68.92	3,307.9	-455.1	450.1	394.5	55.58	8.097		
15,100.0	11,894.0	14,821.7	11,732.0	27.7	27.0	-68.92	3,407.9	-455.8	450.1	393.1	56.95	7.902		
15,200.0	11,894.0	14,921.7	11,732.0	28.4	27.8	-68.92	3,507.9	-456.4	450.1	391.7	58.33	7.715		
15,300.0	11,894.0	15,021.7	11,732.0	29.1	28.5	-68.92	3,607.9	-457.0	450.1	390.3	59.72	7.536		
15,400.0	11,894.0	15,121.7	11,732.0	29.9	29.2	-68.92	3,707.9	-457.7	450.1	389.0	61.12	7.364		
15,500.0	11,894.0	15,221.7	11,732.0	30.6	29.9	-68.92	3,807.9	-458.3	450.1	387.6	62.52	7.199		
15,600.0	11,894.0	15,321.7	11,732.0	31.3	30.6	-68.92	3,907.9	-459.0	450.1	386.1	63.92	7.041		
15,700.0	11,894.0	15,421.7	11,732.0	32.1	31.4	-68.92	4,007.9	-459.6	450.1	384.7	65.34	6.888		
15,800.0	11,894.0	15,521.7	11,732.0	32.8	32.1	-68.92	4,107.9	-460.2	450.1	383.3	66.75	6.742		
15,900.0	11,894.0	15,621.7	11,732.0	33.5	32.8	-68.92	4,207.9	-460.9	450.1	381.9	68.18	6.601		
16,000.0	11,894.0	15,721.7	11,732.0	34.3	33.5	-68.92	4,307.9	-461.5	450.1	380.5	69.61	6.466		
16,100.0	11,894.0	15,821.7	11,732.0	35.0	34.3	-68.92	4,407.9	-462.1	450.1	379.0	71.04	6.336		
16,200.0	11,894.0	15,921.7	11,732.0	35.8	35.0	-68.92	4,507.9	-462.8	450.1	377.6	72.47	6.210		
16,300.0	11,894.0	16,021.7	11,732.0	36.5	35.7	-68.92	4,607.9	-463.4	450.1	376.2	73.91	6.089		
16,400.0	11,894.0	16,121.7	11,732.0	37.2	36.5	-68.92	4,707.9	-464.0	450.1	374.7	75.36	5.973		
16,500.0	11,894.0	16,221.7	11,732.0	38.0	37.2	-68.92	4,807.9	-464.7	450.1	373.3	76.80	5.860		
16,600.0	11,894.0	16,321.7	11,732.0	38.7	37.9	-68.92	4,907.9	-465.3	450.1	371.8	78.25	5.752		
16,700.0	11,894.0	16,421.7	11,732.0	39.5	38.7	-68.92	5,007.9	-465.9	450.1	370.4	79.71	5.647		
16,800.0	11,894.0	16,521.7	11,732.0	40.2	39.4	-68.92	5,107.9	-466.6	450.1	368.9	81.16	5.546		
16,900.0	11,894.0	16,621.7	11,732.0	41.0	40.2	-68.92	5,207.9	-467.2	450.1	367.5	82.62	5.448		
17,000.0	11,894.0	16,721.7	11,732.0	41.7	40.9	-68.92	5,307.9	-467.8	450.1	366.0	84.08	5.353		
17,100.0	11,894.0	16,821.7	11,732.0	42.5	41.6	-68.92	5,407.9	-468.5	450.1	364.5	85.54	5.261		
17,200.0	11,894.0	16,921.7	11,732.0	43.2	42.4	-68.92	5,507.9	-469.1	450.1	363.1	87.01	5.173		
17,300.0	11,894.0	17,021.7	11,732.0	44.0	43.1	-68.92	5,607.9	-469.8	450.1	361.6	88.48	5.087		
17,400.0	11,894.0	17,121.7	11,732.0	44.7	43.9	-68.92	5,707.9	-470.4	450.1	360.1	89.95	5.004		
17,500.0	11,894.0	17,221.7	11,732.0	45.5	44.6	-68.92	5,807.9	-471.0	450.1	358.7	91.42	4.923		
17,600.0	11,894.0	17,321.7	11,732.0	46.2	45.4	-68.92	5,907.9	-471.7	450.1	357.2	92.89	4.845		
17,700.0	11,894.0	17,421.7	11,732.0	47.0	46.1	-68.92	6,007.9	-472.3	450.1	355.7	94.37	4.769		
17,800.0	11,894.0	17,521.7	11,732.0	47.7	46.9	-68.92	6,107.9	-472.9	450.1	354.2	95.85	4.696		
17,900.0	11,894.0	17,621.7	11,732.0	48.5	47.6	-68.92	6,207.9	-473.6	450.1	352.8	97.33	4.625		
18,000.0	11,894.0	17,721.7	11,732.0	49.2	48.4	-68.92	6,307.9	-474.2	450.1	351.3	98.81	4.555		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	Offset Wellbore Centre	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
							+N/-S (usft)	+E/-W (usft)					
18,100.0	11,894.0	17,821.7	11,732.0	50.0	49.1	-68.92	6,407.9	-474.8	450.1	349.8	100.29	4.488	
18,200.0	11,894.0	17,921.7	11,732.0	50.7	49.8	-68.92	6,507.9	-475.5	450.1	348.3	101.78	4.423	
18,300.0	11,894.0	18,021.7	11,732.0	51.5	50.6	-68.92	6,607.9	-476.1	450.1	346.8	103.26	4.359	
18,400.0	11,894.0	18,121.7	11,732.0	52.2	51.3	-68.92	6,707.9	-476.7	450.1	345.4	104.75	4.297	
18,500.0	11,894.0	18,221.7	11,732.0	53.0	52.1	-68.92	6,807.9	-477.4	450.1	343.9	106.24	4.237	
18,600.0	11,894.0	18,321.7	11,732.0	53.7	52.8	-68.92	6,907.9	-478.0	450.1	342.4	107.72	4.178	
18,700.0	11,894.0	18,421.7	11,732.0	54.5	53.6	-68.92	7,007.9	-478.7	450.1	340.9	109.21	4.121	
18,800.0	11,894.0	18,521.7	11,732.0	55.2	54.3	-68.92	7,107.9	-479.3	450.1	339.4	110.71	4.066	
18,900.0	11,894.0	18,621.7	11,732.0	56.0	55.1	-68.92	7,207.9	-479.9	450.1	337.9	112.20	4.012	
19,000.0	11,894.0	18,721.7	11,732.0	56.7	55.9	-68.92	7,307.9	-480.6	450.1	336.4	113.69	3.959	
19,100.0	11,894.0	18,821.7	11,732.0	57.5	56.6	-68.92	7,407.9	-481.2	450.1	334.9	115.19	3.908	
19,200.0	11,894.0	18,921.7	11,732.0	58.3	57.4	-68.92	7,507.9	-481.8	450.1	333.4	116.68	3.858	
19,300.0	11,894.0	19,021.7	11,732.0	59.0	58.1	-68.92	7,607.9	-482.5	450.1	331.9	118.18	3.809	
19,400.0	11,894.0	19,121.7	11,732.0	59.8	58.9	-68.92	7,707.9	-483.1	450.1	330.4	119.68	3.761	
19,500.0	11,894.0	19,221.7	11,732.0	60.5	59.6	-68.92	7,807.8	-483.7	450.1	328.9	121.17	3.715	
19,600.0	11,894.0	19,321.7	11,732.0	61.3	60.4	-68.92	7,907.8	-484.4	450.1	327.4	122.67	3.669	
19,700.0	11,894.0	19,421.7	11,732.0	62.0	61.1	-68.92	8,007.8	-485.0	450.1	325.9	124.17	3.625	
19,800.0	11,894.0	19,521.7	11,732.0	62.8	61.9	-68.92	8,107.8	-485.6	450.1	324.4	125.67	3.582	
19,900.0	11,894.0	19,621.7	11,732.0	63.5	62.6	-68.92	8,207.8	-486.3	450.1	323.0	127.13	3.541	
19,901.6	11,894.0	19,623.3	11,732.0	63.6	62.6	-68.92	8,209.5	-486.3	450.1	323.0	127.15	3.540	
19,919.4	11,894.0	19,639.6	11,732.0	63.7	62.7	-68.92	8,225.8	-486.4	450.1	322.7	127.38	3.534 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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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 #112H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11255-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	88.69	0.8	33.2	33.2					
100.0	100.0	99.8	99.8	3.0	3.0	88.69	0.8	33.2	33.2	27.2	6.00	5.540		
200.0	200.0	199.8	199.8	3.0	3.0	88.69	0.8	33.2	33.2	27.2	6.00	5.537		
300.0	300.0	299.8	299.8	3.0	3.0	88.69	0.8	33.2	33.2	27.2	6.01	5.532		
400.0	400.0	399.8	399.8	3.0	3.0	88.69	0.8	33.2	33.2	27.2	6.02	5.523		
500.0	500.0	499.8	499.8	3.1	3.1	88.69	0.8	33.2	33.2	27.2	6.03	5.512		
600.0	600.0	599.8	599.8	3.1	3.1	88.69	0.8	33.2	33.2	27.2	6.05	5.497		
700.0	700.0	699.8	699.8	3.1	3.1	88.69	0.8	33.2	33.2	27.2	6.07	5.480		
800.0	800.0	799.8	799.8	3.2	3.2	88.69	0.8	33.2	33.2	27.2	6.09	5.461		
900.0	900.0	899.8	899.8	3.2	3.2	88.69	0.8	33.2	33.2	27.1	6.11	5.438		
1,000.0	1,000.0	999.8	999.8	3.2	3.2	88.69	0.8	33.2	33.2	27.1	6.14	5.413		
1,100.0	1,100.0	1,099.8	1,099.8	3.3	3.3	88.69	0.8	33.2	33.2	27.1	6.17	5.386		
1,200.0	1,200.0	1,199.8	1,199.8	3.4	3.4	88.69	0.8	33.2	33.2	27.0	6.21	5.356		
1,300.0	1,300.0	1,299.8	1,299.8	3.4	3.4	88.69	0.8	33.2	33.2	27.0	6.24	5.324		
1,400.0	1,400.0	1,399.8	1,399.8	3.5	3.5	88.69	0.8	33.2	33.2	27.0	6.28	5.290		
1,500.0	1,500.0	1,499.8	1,499.8	3.5	3.5	88.69	0.8	33.2	33.2	26.9	6.33	5.254		
1,600.0	1,600.0	1,599.8	1,599.8	3.6	3.6	88.69	0.8	33.2	33.2	26.9	6.37	5.217		
1,700.0	1,700.0	1,699.8	1,699.8	3.7	3.7	88.69	0.8	33.2	33.2	26.8	6.42	5.177		
1,800.0	1,800.0	1,799.8	1,799.8	3.8	3.8	88.69	0.8	33.2	33.2	26.8	6.47	5.137		
1,900.0	1,900.0	1,899.8	1,899.8	3.9	3.9	88.69	0.8	33.2	33.2	26.7	6.52	5.094		
2,000.0	2,000.0	1,999.8	1,999.8	3.9	3.9	88.69	0.8	33.2	33.2	26.7	6.58	5.051		
2,100.0	2,100.0	2,099.8	2,099.8	4.0	4.0	88.69	0.8	33.2	33.2	26.6	6.64	5.006		
2,200.0	2,200.0	2,199.8	2,199.8	4.1	4.1	88.69	0.8	33.2	33.2	26.5	6.70	4.961		
2,300.0	2,300.0	2,299.8	2,299.8	4.2	4.2	88.69	0.8	33.2	33.2	26.5	6.76	4.914		
2,400.0	2,400.0	2,399.8	2,399.8	4.3	4.3	88.69	0.8	33.2	33.2	26.4	6.83	4.867		
2,500.0	2,500.0	2,499.8	2,499.8	4.4	4.4	88.69	0.8	33.2	33.2	26.3	6.90	4.819 CC, ES		
2,600.0	2,600.0	2,598.7	2,598.7	4.5	4.5	87.80	1.3	34.8	34.9	27.9	6.97	5.003		
2,700.0	2,700.0	2,697.3	2,697.2	4.6	4.5	85.55	3.1	39.6	39.8	32.8	7.06	5.640		
2,800.0	2,800.0	2,795.5	2,795.0	4.7	4.6	82.85	6.0	47.5	48.2	41.0	7.18	6.711		
2,900.0	2,900.0	2,894.9	2,893.8	4.8	4.6	80.58	9.5	57.3	58.4	51.1	7.31	7.989		
3,000.0	3,000.0	2,994.3	2,992.7	4.9	4.7	78.98	13.1	67.1	68.7	61.2	7.45	9.225		
3,100.0	3,100.0	3,093.8	3,091.6	5.0	4.8	77.80	16.6	76.8	79.0	71.5	7.59	10.418		
3,200.0	3,200.0	3,193.2	3,190.5	5.1	4.8	76.90	20.2	86.6	89.4	81.7	7.73	11.568		
3,300.0	3,300.0	3,292.7	3,289.4	5.2	4.9	76.18	23.7	96.4	99.8	91.9	7.87	12.677		
3,400.0	3,400.0	3,392.1	3,388.3	5.3	5.0	75.60	27.3	106.2	110.2	102.2	8.02	13.743		
3,500.0	3,500.0	3,491.6	3,487.2	5.4	5.0	75.12	30.8	115.9	120.6	112.4	8.17	14.769		
3,600.0	3,600.0	3,591.0	3,586.2	5.5	5.1	74.71	34.4	125.7	131.0	122.7	8.32	15.756		
3,700.0	3,700.0	3,690.5	3,685.1	5.7	5.2	74.37	37.9	135.5	141.4	133.0	8.47	16.704		
3,800.0	3,800.0	3,789.9	3,784.0	5.8	5.3	74.07	41.5	145.2	151.9	143.2	8.62	17.616		
3,900.0	3,900.0	3,889.4	3,882.9	5.9	5.4	73.81	45.0	155.0	162.3	153.5	8.78	18.492		
4,000.0	4,000.0	3,988.8	3,981.8	6.0	5.4	73.58	48.6	164.8	172.7	163.8	8.93	19.333		
4,100.0	4,100.0	4,088.3	4,080.7	6.1	5.5	73.38	52.1	174.5	183.2	174.1	9.09	20.141		
4,200.0	4,200.0	4,187.7	4,179.6	6.2	5.6	73.20	55.7	184.3	193.6	184.3	9.25	20.918		
4,300.0	4,300.0	4,287.2	4,278.5	6.3	5.7	73.03	59.2	194.1	204.0	194.6	9.42	21.665		
4,400.0	4,400.0	4,386.6	4,377.4	6.5	5.8	72.89	62.8	203.9	214.5	204.9	9.58	22.382		
4,500.0	4,500.0	4,486.1	4,476.3	6.6	5.9	72.75	66.3	213.6	224.9	215.2	9.75	23.071		
4,600.0	4,600.0	4,585.6	4,575.2	6.7	6.0	72.63	69.9	223.4	235.4	225.4	9.92	23.734		
4,700.0	4,700.0	4,685.0	4,674.1	6.8	6.1	72.52	73.4	233.2	245.8	235.7	10.09	24.371		
4,800.0	4,800.0	4,784.5	4,773.0	6.9	6.2	72.42	77.0	242.9	256.2	246.0	10.26	24.984		
4,900.0	4,900.0	4,883.9	4,871.9	7.0	6.3	72.33	80.5	252.7	266.7	256.3	10.43	25.573		
5,000.0	5,000.0	4,983.4	4,970.9	7.2	6.4	72.24	84.1	262.5	277.1	266.5	10.60	26.140		
5,100.0	5,100.0	5,082.8	5,069.8	7.3	6.5	72.16	87.6	272.3	287.6	276.8	10.78	26.686		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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 #112H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11255-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,200.0	5,182.3	5,168.7	7.4	6.6	72.09	91.2	282.0	298.0	287.1	10.95	27.212		
5,300.0	5,300.0	5,281.7	5,267.6	7.5	6.7	72.02	94.7	291.8	308.5	297.3	11.13	27.718		
5,400.0	5,400.0	5,381.2	5,366.5	7.6	6.8	71.95	98.3	301.6	318.9	307.6	11.31	28.206		
5,500.0	5,500.0	5,480.6	5,465.4	7.8	6.9	71.89	101.8	311.3	329.4	317.9	11.49	28.676		
5,600.0	5,600.0	5,580.1	5,564.3	7.9	7.0	71.83	105.4	321.1	339.8	328.1	11.67	29.129		
5,700.0	5,700.0	5,679.5	5,663.2	8.0	7.1	71.78	108.9	330.9	350.3	338.4	11.85	29.566		
5,800.0	5,800.0	5,779.0	5,762.1	8.1	7.2	71.73	112.5	340.6	360.7	348.7	12.03	29.988		
5,900.0	5,900.0	5,878.4	5,861.0	8.3	7.3	71.68	116.0	350.4	371.2	358.9	12.21	30.395		
6,000.0	6,000.0	5,977.9	5,959.9	8.4	7.4	71.64	119.6	360.2	381.6	369.2	12.39	30.787		
6,100.0	6,100.0	6,077.3	6,058.8	8.5	7.6	71.59	123.1	370.0	392.1	379.5	12.58	31.167		
6,200.0	6,200.0	6,180.2	6,161.2	8.6	7.7	71.55	126.7	379.9	402.3	389.5	12.76	31.528		
6,300.0	6,300.0	6,287.5	6,268.0	8.7	7.8	71.52	129.9	388.6	411.0	398.0	12.94	31.759		
6,400.0	6,400.0	6,395.0	6,375.3	8.9	7.9	71.49	132.4	395.5	417.8	404.6	13.12	31.832		
6,500.0	6,500.0	6,502.8	6,483.0	9.0	8.0	71.47	134.2	400.5	422.7	409.4	13.31	31.749		
6,600.0	6,600.0	6,610.7	6,590.9	9.1	8.1	71.46	135.3	403.5	425.7	412.2	13.51	31.517		
6,700.0	6,700.0	6,718.8	6,698.9	9.2	8.3	71.46	135.8	404.7	426.9	413.2	13.70	31.152		
6,800.0	6,800.0	6,819.7	6,799.8	9.4	8.4	71.46	135.8	404.7	426.9	413.1	13.84	30.840		
6,900.0	6,900.0	6,919.7	6,899.8	9.5	8.5	71.46	135.8	404.7	426.9	412.9	13.98	30.543		
7,000.0	7,000.0	7,019.7	6,999.8	9.6	8.6	71.46	135.8	404.7	426.9	412.8	14.11	30.250		
7,100.0	7,100.0	7,119.7	7,099.8	9.7	8.7	71.46	135.8	404.7	426.9	412.6	14.25	29.962		
7,200.0	7,200.0	7,219.7	7,199.8	9.9	8.8	71.46	135.8	404.7	426.9	412.5	14.38	29.679		
7,300.0	7,300.0	7,319.7	7,299.8	10.0	8.9	71.46	135.8	404.7	426.9	412.4	14.52	29.400		
7,400.0	7,400.0	7,419.7	7,399.8	10.1	9.0	71.46	135.8	404.7	426.9	412.2	14.66	29.126		
7,500.0	7,500.0	7,519.7	7,499.8	10.3	9.1	71.46	135.8	404.7	426.9	412.1	14.79	28.856		
7,600.0	7,600.0	7,619.7	7,599.8	10.4	9.2	71.46	135.8	404.7	426.9	412.0	14.93	28.590		
7,700.0	7,700.0	7,719.7	7,699.8	10.5	9.3	71.46	135.8	404.7	426.9	411.8	15.07	28.328		
7,800.0	7,800.0	7,819.7	7,799.8	10.6	9.4	71.46	135.8	404.7	426.9	411.7	15.21	28.070		
7,900.0	7,900.0	7,919.7	7,899.8	10.8	9.5	71.46	135.8	404.7	426.9	411.5	15.35	27.816		
8,000.0	8,000.0	8,019.7	7,999.8	10.9	9.6	71.46	135.8	404.7	426.9	411.4	15.49	27.567		
8,100.0	8,100.0	8,119.7	8,099.8	11.0	9.7	71.46	135.8	404.7	426.9	411.3	15.63	27.321		
8,200.0	8,200.0	8,219.7	8,199.8	11.1	9.8	71.46	135.8	404.7	426.9	411.1	15.76	27.078		
8,300.0	8,300.0	8,319.7	8,299.8	11.3	9.9	71.46	135.8	404.7	426.9	411.0	15.91	26.840		
8,400.0	8,400.0	8,419.7	8,399.8	11.4	10.1	71.46	135.8	404.7	426.9	410.8	16.05	26.605		
8,500.0	8,500.0	8,519.7	8,499.8	11.5	10.2	71.46	135.8	404.7	426.9	410.7	16.19	26.374		
8,600.0	8,600.0	8,619.7	8,599.8	11.6	10.3	71.46	135.8	404.7	426.9	410.6	16.33	26.147		
8,700.0	8,700.0	8,719.7	8,699.8	11.8	10.4	71.46	135.8	404.7	426.9	410.4	16.47	25.922		
8,800.0	8,800.0	8,819.7	8,799.8	11.9	10.5	71.46	135.8	404.7	426.9	410.3	16.61	25.701		
8,900.0	8,900.0	8,919.7	8,899.8	12.0	10.6	71.46	135.8	404.7	426.9	410.1	16.75	25.484		
9,000.0	9,000.0	9,019.7	8,999.8	12.2	10.7	71.46	135.8	404.7	426.9	410.0	16.89	25.270		
9,100.0	9,100.0	9,119.7	9,099.8	12.3	10.8	71.46	135.8	404.7	426.9	409.9	17.04	25.059		
9,200.0	9,200.0	9,219.7	9,199.8	12.4	11.0	71.46	135.8	404.7	426.9	409.7	17.18	24.851		
9,300.0	9,300.0	9,319.7	9,299.8	12.5	11.1	71.46	135.8	404.7	426.9	409.6	17.32	24.646		
9,400.0	9,400.0	9,419.7	9,399.8	12.7	11.2	71.46	135.8	404.7	426.9	409.4	17.46	24.444		
9,500.0	9,500.0	9,519.7	9,499.8	12.8	11.3	71.46	135.8	404.7	426.9	409.3	17.61	24.245		
9,600.0	9,600.0	9,619.7	9,599.8	12.9	11.4	71.46	135.8	404.7	426.9	409.1	17.75	24.049		
9,700.0	9,700.0	9,719.7	9,699.8	13.1	11.5	71.46	135.8	404.7	426.9	409.0	17.89	23.856		
9,800.0	9,800.0	9,819.7	9,799.8	13.2	11.7	71.46	135.8	404.7	426.9	408.9	18.04	23.666		
9,900.0	9,900.0	9,919.7	9,899.8	13.3	11.8	71.46	135.8	404.7	426.9	408.7	18.18	23.478		
10,000.0	10,000.0	10,019.7	9,999.8	13.4	11.9	71.46	135.8	404.7	426.9	408.6	18.33	23.293		
10,100.0	10,100.0	10,119.7	10,099.8	13.6	12.0	71.46	135.8	404.7	426.9	408.4	18.47	23.111		
10,200.0	10,200.0	10,219.7	10,199.8	13.7	12.1	71.46	135.8	404.7	426.9	408.3	18.62	22.931		
10,300.0	10,300.0	10,319.7	10,299.8	13.8	12.2	71.46	135.8	404.7	426.9	408.1	18.76	22.754		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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 #112H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11255-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)				
10,400.0	10,400.0	10,419.7	10,399.8	14.0	12.4	71.46	135.8	404.7	426.9	408.0	18.91	22.580		
10,500.0	10,500.0	10,519.7	10,499.8	14.1	12.5	71.46	135.8	404.7	426.9	407.8	19.05	22.407		
10,600.0	10,600.0	10,619.7	10,599.8	14.2	12.6	71.46	135.8	404.7	426.9	407.7	19.20	22.238		
10,700.0	10,700.0	10,719.7	10,699.8	14.3	12.7	71.46	135.8	404.7	426.9	407.5	19.34	22.070		
10,800.0	10,800.0	10,819.7	10,799.8	14.5	12.8	71.46	135.8	404.7	426.9	407.4	19.49	21.905		
10,900.0	10,900.0	10,919.7	10,899.8	14.6	12.9	71.46	135.8	404.7	426.9	407.3	19.63	21.742		
11,000.0	11,000.0	11,019.7	10,999.8	14.7	13.1	71.46	135.8	404.7	426.9	407.1	19.78	21.582		
11,100.0	11,100.0	11,119.7	11,099.8	14.9	13.2	71.46	135.8	404.7	426.9	407.0	19.93	21.423		
11,200.0	11,200.0	11,219.7	11,199.8	15.0	13.3	71.46	135.8	404.7	426.9	406.8	20.07	21.271		
11,209.3	11,209.3	11,229.0	11,209.1	15.0	13.3	71.46	135.8	404.7	426.9	406.8	20.08	21.259		
11,300.0	11,300.0	11,309.7	11,289.8	15.1	13.4	71.29	137.1	404.7	427.4	407.2	20.24	21.114		
11,400.0	11,400.0	11,385.9	11,365.0	15.2	13.5	69.82	148.7	404.6	432.5	411.6	20.89	20.707		
11,416.5	11,416.5	11,400.0	11,378.7	15.3	13.5	69.39	152.2	404.6	433.9	412.9	21.03	20.633		
11,425.0	11,425.0	11,404.3	11,382.8	15.3	13.5	71.17	153.3	404.6	434.7	413.6	21.13	20.573		
11,450.0	11,450.0	11,425.0	11,402.6	15.3	13.5	70.29	159.3	404.6	437.0	415.6	21.35	20.466		
11,475.0	11,474.9	11,440.5	11,417.3	15.3	13.5	69.60	164.4	404.5	439.2	417.5	21.66	20.277		
11,500.0	11,499.6	11,458.5	11,434.0	15.3	13.6	68.89	170.8	404.5	441.4	419.5	21.95	20.114		
11,525.0	11,524.1	11,475.0	11,449.3	15.4	13.6	68.25	177.3	404.5	443.6	421.3	22.27	19.918		
11,550.0	11,548.3	11,494.2	11,466.6	15.4	13.6	67.60	185.4	404.4	445.6	423.1	22.55	19.765		
11,575.0	11,572.1	11,511.9	11,482.3	15.4	13.6	67.03	193.6	404.4	447.6	424.7	22.86	19.580		
11,600.0	11,595.5	11,529.6	11,497.7	15.5	13.7	66.51	202.3	404.3	449.5	426.3	23.18	19.394		
11,625.0	11,618.4	11,550.0	11,515.1	15.5	13.7	65.99	213.1	404.2	451.3	427.9	23.43	19.262		
11,650.0	11,640.8	11,564.7	11,527.3	15.5	13.7	65.61	221.3	404.2	452.9	429.1	23.82	19.016		
11,675.0	11,662.6	11,582.2	11,541.5	15.6	13.7	65.23	231.6	404.1	454.5	430.3	24.14	18.828		
11,700.0	11,683.6	11,600.0	11,555.5	15.6	13.8	64.90	242.5	404.1	455.9	431.4	24.45	18.648		
11,725.0	11,704.0	11,617.1	11,568.6	15.6	13.8	64.63	253.6	404.0	457.2	432.4	24.76	18.461		
11,750.0	11,723.5	11,634.6	11,581.5	15.7	13.8	64.40	265.3	403.9	458.3	433.2	25.06	18.286		
11,775.0	11,742.3	11,650.0	11,592.5	15.7	13.8	64.23	276.0	403.8	459.2	433.8	25.40	18.081		
11,800.0	11,760.1	11,669.3	11,605.9	15.7	13.9	64.09	290.0	403.8	460.0	434.4	25.62	17.957		
11,825.0	11,777.0	11,686.7	11,617.5	15.8	13.9	64.01	303.0	403.7	460.7	434.8	25.87	17.806		
11,850.0	11,792.8	11,704.1	11,628.5	15.8	13.9	63.98	316.4	403.6	461.2	435.1	26.11	17.666		
11,875.0	11,807.7	11,725.0	11,641.1	15.8	13.9	64.01	333.1	403.5	461.5	435.3	26.23	17.594		
11,900.0	11,821.5	11,738.8	11,649.1	15.9	13.9	64.06	344.4	403.4	461.7	435.2	26.50	17.420		
11,925.0	11,834.2	11,756.2	11,658.6	15.9	14.0	64.17	358.9	403.3	461.7	435.1	26.66	17.316		
11,950.0	11,845.7	11,775.0	11,668.3	15.9	14.0	64.35	375.0	403.2	461.6	434.8	26.77	17.244		
11,975.0	11,856.1	11,791.1	11,676.1	15.9	14.0	64.55	389.1	403.1	461.3	434.4	26.90	17.150		
12,000.0	11,865.2	11,808.5	11,684.0	16.0	14.0	64.81	404.7	403.0	460.8	433.9	26.96	17.090		
12,025.0	11,873.2	11,825.0	11,690.9	16.0	14.0	65.10	419.6	402.9	460.2	433.2	27.02	17.035		
12,050.0	11,879.8	11,843.6	11,698.1	16.0	14.1	65.47	436.7	402.8	459.5	432.5	27.00	17.017		
12,075.0	11,885.2	11,861.2	11,704.3	16.0	14.1	65.87	453.2	402.7	458.6	431.7	26.97	17.006		
12,100.0	11,889.3	11,878.9	11,710.0	16.0	14.1	66.32	469.9	402.6	457.7	430.8	26.90	17.013		
12,125.0	11,892.2	11,900.0	11,715.9	16.0	14.1	66.90	490.2	402.5	456.6	429.8	26.77	17.057		
12,150.0	11,893.7	11,914.4	11,719.3	16.0	14.1	67.37	504.2	402.4	455.4	428.7	26.66	17.081		
12,166.5	11,894.0	11,925.0	11,721.7	16.0	14.1	67.72	514.5	402.3	454.5	428.0	26.55	17.117		
12,207.4	11,894.0	11,955.8	11,727.0	16.1	14.2	68.34	544.9	402.1	452.3	426.0	26.33	17.178		
12,299.9	11,894.0	12,024.4	11,732.0	16.1	14.2	68.92	613.2	401.7	449.9	423.5	26.37	17.059		
12,300.0	11,894.0	12,024.5	11,732.0	16.1	14.2	68.92	613.3	401.7	449.9	423.5	26.38	17.058		
12,400.0	11,894.0	12,124.5	11,732.0	16.1	14.3	68.92	713.3	401.1	449.9	423.0	26.94	16.702		
12,500.0	11,894.0	12,224.5	11,732.0	16.1	14.3	68.92	813.3	400.4	449.9	422.4	27.57	16.321		
12,600.0	11,894.0	12,324.5	11,732.0	16.2	14.4	68.92	913.3	399.8	449.9	421.7	28.27	15.915		
12,700.0	11,894.0	12,424.5	11,732.0	16.2	14.5	68.92	1,013.3	399.2	449.9	420.9	29.04	15.495		
12,800.0	11,894.0	12,524.5	11,732.0	16.2	14.6	68.92	1,113.3	398.6	449.9	420.1	29.86	15.066		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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 #112H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11255-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,900.0	11,894.0	12,624.5	11,732.0	16.3	14.8	68.92	1,213.3	397.9	449.9	419.2	30.74	14.635		
13,000.0	11,894.0	12,724.5	11,732.0	16.3	14.9	68.92	1,313.3	397.3	449.9	418.3	31.67	14.205		
13,100.0	11,894.0	12,824.5	11,732.0	16.4	15.2	68.92	1,413.3	396.7	449.9	417.3	32.65	13.781		
13,200.0	11,894.0	12,924.5	11,732.0	16.4	15.5	68.92	1,513.3	396.0	449.9	416.3	33.67	13.364		
13,300.0	11,894.0	13,024.5	11,732.0	16.5	15.8	68.92	1,613.3	395.4	449.9	415.2	34.72	12.958		
13,400.0	11,894.0	13,124.5	11,732.0	16.5	16.2	68.92	1,713.3	394.8	449.9	414.1	35.81	12.564		
13,500.0	11,894.0	13,224.5	11,732.0	16.6	16.7	68.92	1,813.3	394.1	449.9	413.0	36.93	12.183		
13,600.0	11,894.0	13,324.5	11,732.0	17.2	17.2	68.92	1,913.3	393.5	449.9	411.9	38.08	11.815		
13,700.0	11,894.0	13,424.5	11,732.0	17.8	17.8	68.92	2,013.3	392.9	449.9	410.7	39.26	11.461		
13,800.0	11,894.0	13,524.5	11,732.0	18.5	18.3	68.92	2,113.3	392.2	449.9	409.5	40.46	11.121		
13,900.0	11,894.0	13,624.5	11,732.0	19.2	19.0	68.92	2,213.3	391.6	449.9	408.3	41.68	10.795		
14,000.0	11,894.0	13,724.5	11,732.0	19.9	19.6	68.92	2,313.3	391.0	450.0	407.0	42.92	10.483		
14,100.0	11,894.0	13,824.5	11,732.0	20.5	20.2	68.92	2,413.3	390.3	450.0	405.8	44.18	10.184		
14,200.0	11,894.0	13,924.5	11,732.0	21.2	20.9	68.92	2,513.3	389.7	450.0	404.5	45.46	9.898		
14,300.0	11,894.0	14,024.5	11,732.0	21.9	21.5	68.92	2,613.3	389.1	450.0	403.2	46.75	9.624		
14,400.0	11,894.0	14,124.5	11,732.0	22.7	22.2	68.93	2,713.3	388.4	450.0	401.9	48.06	9.362		
14,500.0	11,894.0	14,224.5	11,732.0	23.4	22.9	68.93	2,813.3	387.8	450.0	400.6	49.38	9.112		
14,600.0	11,894.0	14,324.5	11,732.0	24.1	23.6	68.93	2,913.3	387.2	450.0	399.3	50.71	8.873		
14,700.0	11,894.0	14,424.5	11,732.0	24.8	24.2	68.93	3,013.3	386.5	450.0	397.9	52.06	8.644		
14,800.0	11,894.0	14,524.5	11,732.0	25.5	24.9	68.93	3,113.3	385.9	450.0	396.6	53.41	8.425		
14,900.0	11,894.0	14,624.5	11,732.0	26.2	25.6	68.93	3,213.3	385.3	450.0	395.2	54.77	8.215		
15,000.0	11,894.0	14,724.5	11,732.0	26.9	26.3	68.93	3,313.3	384.7	450.0	393.8	56.14	8.015		
15,100.0	11,894.0	14,824.5	11,732.0	27.7	27.1	68.93	3,413.3	384.0	450.0	392.5	57.52	7.823		
15,200.0	11,894.0	14,924.5	11,732.0	28.4	27.8	68.93	3,513.3	383.4	450.0	391.1	58.91	7.638		
15,300.0	11,894.0	15,024.5	11,732.0	29.1	28.5	68.93	3,613.3	382.8	450.0	389.7	60.30	7.462		
15,400.0	11,894.0	15,124.5	11,732.0	29.9	29.2	68.93	3,713.3	382.1	450.0	388.3	61.71	7.292		
15,500.0	11,894.0	15,224.5	11,732.0	30.6	29.9	68.93	3,813.3	381.5	450.0	386.9	63.11	7.130		
15,600.0	11,894.0	15,324.5	11,732.0	31.3	30.6	68.93	3,913.3	380.9	450.0	385.5	64.53	6.974		
15,700.0	11,894.0	15,424.5	11,732.0	32.1	31.4	68.93	4,013.3	380.2	450.0	384.0	65.94	6.824		
15,800.0	11,894.0	15,524.5	11,732.0	32.8	32.1	68.93	4,113.3	379.6	450.0	382.6	67.37	6.680		
15,900.0	11,894.0	15,624.5	11,732.0	33.5	32.8	68.93	4,213.3	379.0	450.0	381.2	68.80	6.541		
16,000.0	11,894.0	15,724.5	11,732.0	34.3	33.5	68.93	4,313.3	378.3	450.0	379.8	70.23	6.408		
16,100.0	11,894.0	15,824.5	11,732.0	35.0	34.3	68.93	4,413.3	377.7	450.0	378.3	71.67	6.279		
16,200.0	11,894.0	15,924.5	11,732.0	35.8	35.0	68.93	4,513.3	377.1	450.0	376.9	73.11	6.155		
16,300.0	11,894.0	16,024.5	11,732.0	36.5	35.7	68.93	4,613.3	376.4	450.0	375.4	74.55	6.036		
16,400.0	11,894.0	16,124.5	11,732.0	37.2	36.5	68.93	4,713.3	375.8	450.0	374.0	76.00	5.921		
16,500.0	11,894.0	16,224.5	11,732.0	38.0	37.2	68.93	4,813.3	375.2	450.0	372.6	77.45	5.810		
16,600.0	11,894.0	16,324.5	11,732.0	38.7	38.0	68.93	4,913.3	374.5	450.0	371.1	78.90	5.703		
16,700.0	11,894.0	16,424.5	11,732.0	39.5	38.7	68.93	5,013.3	373.9	450.0	369.6	80.36	5.600		
16,800.0	11,894.0	16,524.5	11,732.0	40.2	39.4	68.93	5,113.3	373.3	450.0	368.2	81.82	5.500		
16,900.0	11,894.0	16,624.5	11,732.0	41.0	40.2	68.93	5,213.3	372.6	450.0	366.7	83.28	5.403		
17,000.0	11,894.0	16,724.5	11,732.0	41.7	40.9	68.93	5,313.3	372.0	450.0	365.3	84.75	5.310		
17,100.0	11,894.0	16,824.5	11,732.0	42.5	41.7	68.93	5,413.3	371.4	450.0	363.8	86.22	5.220		
17,200.0	11,894.0	16,924.5	11,732.0	43.2	42.4	68.93	5,513.3	370.8	450.0	362.3	87.69	5.132		
17,300.0	11,894.0	17,024.5	11,732.0	44.0	43.1	68.93	5,613.3	370.1	450.0	360.9	89.16	5.047		
17,400.0	11,894.0	17,124.5	11,732.0	44.7	43.9	68.93	5,713.3	369.5	450.0	359.4	90.63	4.965		
17,500.0	11,894.0	17,224.5	11,732.0	45.5	44.6	68.93	5,813.3	368.9	450.0	357.9	92.11	4.886		
17,600.0	11,894.0	17,324.5	11,732.0	46.2	45.4	68.93	5,913.3	368.2	450.0	356.4	93.59	4.809		
17,700.0	11,894.0	17,424.5	11,732.0	47.0	46.1	68.93	6,013.3	367.6	450.0	355.0	95.07	4.734		
17,800.0	11,894.0	17,524.5	11,732.0	47.7	46.9	68.93	6,113.3	367.0	450.0	353.5	96.55	4.661		
17,900.0	11,894.0	17,624.5	11,732.0	48.5	47.6	68.93	6,213.3	366.3	450.0	352.0	98.03	4.591		
18,000.0	11,894.0	17,724.5	11,732.0	49.2	48.4	68.93	6,313.3	365.7	450.0	350.5	99.51	4.522		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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 #112H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 11255-MWD+IFR1+MS						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,100.0	11,894.0	17,824.5	11,732.0	50.0	49.1	68.93	6,413.2	365.1	450.0	349.0	101.00	4.456		
18,200.0	11,894.0	17,924.5	11,732.0	50.7	49.9	68.93	6,513.2	364.4	450.0	347.6	102.49	4.391		
18,300.0	11,894.0	18,024.5	11,732.0	51.5	50.6	68.93	6,613.2	363.8	450.0	346.1	103.98	4.328		
18,400.0	11,894.0	18,124.5	11,732.0	52.2	51.4	68.93	6,713.2	363.2	450.0	344.6	105.47	4.267		
18,500.0	11,894.0	18,224.5	11,732.0	53.0	52.1	68.93	6,813.2	362.5	450.0	343.1	106.96	4.208		
18,600.0	11,894.0	18,324.5	11,732.0	53.7	52.9	68.93	6,913.2	361.9	450.0	341.6	108.45	4.150		
18,700.0	11,894.0	18,424.5	11,732.0	54.5	53.6	68.93	7,013.2	361.3	450.1	340.1	109.94	4.093		
18,800.0	11,894.0	18,524.5	11,732.0	55.2	54.4	68.93	7,113.2	360.6	450.1	338.6	111.44	4.039		
18,900.0	11,894.0	18,624.5	11,732.0	56.0	55.1	68.93	7,213.2	360.0	450.1	337.1	112.93	3.985		
19,000.0	11,894.0	18,724.5	11,732.0	56.7	55.9	68.93	7,313.2	359.4	450.1	335.6	114.43	3.933		
19,100.0	11,894.0	18,824.5	11,732.0	57.5	56.6	68.93	7,413.2	358.7	450.1	334.1	115.93	3.882		
19,200.0	11,894.0	18,924.5	11,732.0	58.3	57.4	68.93	7,513.2	358.1	450.1	332.6	117.43	3.833		
19,300.0	11,894.0	19,024.5	11,732.0	59.0	58.1	68.93	7,613.2	357.5	450.1	331.1	118.93	3.784		
19,400.0	11,894.0	19,124.5	11,732.0	59.8	58.9	68.93	7,713.2	356.9	450.1	329.6	120.43	3.737		
19,500.0	11,894.0	19,224.5	11,732.0	60.5	59.6	68.93	7,813.2	356.2	450.1	328.1	121.93	3.691		
19,600.0	11,894.0	19,324.5	11,732.0	61.3	60.4	68.93	7,913.2	355.6	450.1	326.6	123.43	3.646		
19,700.0	11,894.0	19,424.5	11,732.0	62.0	61.1	68.93	8,013.2	355.0	450.1	325.1	124.93	3.603		
19,800.0	11,894.0	19,524.5	11,732.0	62.8	61.9	68.93	8,113.2	354.3	450.1	323.6	126.43	3.560		
19,900.0	11,894.0	19,624.5	11,732.0	63.5	62.7	68.93	8,213.2	353.7	450.1	322.1	127.94	3.518		
19,919.4	11,894.0	19,643.9	11,732.0	63.7	62.8	68.93	8,232.5	353.6	450.1	321.8	128.23	3.510 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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-167.01		-140.4	-32.4	144.1				
100.0	100.0	98.6	98.6	3.0	3.0	-167.01		-140.4	-32.4	144.1	138.1	6.00	24.007	
200.0	200.0	198.6	198.6	3.0	3.0	-167.01		-140.4	-32.4	144.1	138.0	6.01	23.970	
300.0	300.0	298.6	298.6	3.0	3.0	-167.01		-140.4	-32.4	144.1	138.0	6.03	23.889	
400.0	400.0	398.6	398.6	3.0	3.0	-167.01		-140.4	-32.4	144.1	138.0	6.06	23.765	
500.0	500.0	498.6	498.6	3.1	3.1	-167.01		-140.4	-32.4	144.1	138.0	6.10	23.600	
600.0	600.0	598.6	598.6	3.1	3.1	-167.01		-140.4	-32.4	144.1	137.9	6.16	23.397	
700.0	700.0	698.6	698.6	3.1	3.1	-167.01		-140.4	-32.4	144.1	137.8	6.22	23.160	
800.0	800.0	798.6	798.6	3.2	3.2	-167.01		-140.4	-32.4	144.1	137.8	6.29	22.890	
900.0	900.0	898.6	898.6	3.2	3.2	-167.01		-140.4	-32.4	144.1	137.7	6.38	22.593	
1,000.0	1,000.0	998.6	998.6	3.2	3.2	-167.01		-140.4	-32.4	144.1	137.6	6.47	22.271	
1,100.0	1,100.0	1,098.6	1,098.6	3.3	3.3	-167.01		-140.4	-32.4	144.1	137.5	6.57	21.928	
1,200.0	1,200.0	1,198.6	1,198.6	3.4	3.4	-167.01		-140.4	-32.4	144.1	137.4	6.68	21.568	
1,300.0	1,300.0	1,298.6	1,298.6	3.4	3.4	-167.01		-140.4	-32.4	144.1	137.3	6.80	21.194	
1,400.0	1,400.0	1,398.6	1,398.6	3.5	3.5	-167.01		-140.4	-32.4	144.1	137.1	6.92	20.811	
1,500.0	1,500.0	1,498.6	1,498.6	3.5	3.5	-167.01		-140.4	-32.4	144.1	137.0	7.06	20.419	
1,600.0	1,600.0	1,598.6	1,598.6	3.6	3.6	-167.01		-140.4	-32.4	144.1	136.9	7.19	20.023	
1,700.0	1,700.0	1,698.6	1,698.6	3.7	3.7	-167.01		-140.4	-32.4	144.1	136.7	7.34	19.625	
1,800.0	1,800.0	1,798.6	1,798.6	3.8	3.8	-167.01		-140.4	-32.4	144.1	136.6	7.49	19.227	
1,900.0	1,900.0	1,898.6	1,898.6	3.9	3.9	-167.01		-140.4	-32.4	144.1	136.4	7.65	18.830	
2,000.0	2,000.0	1,998.6	1,998.6	3.9	3.9	-167.01		-140.4	-32.4	144.1	136.2	7.81	18.437	
2,100.0	2,100.0	2,098.6	2,098.6	4.0	4.0	-167.01		-140.4	-32.4	144.1	136.1	7.98	18.048	
2,200.0	2,200.0	2,198.6	2,198.6	4.1	4.1	-167.01		-140.4	-32.4	144.1	135.9	8.16	17.665	
2,300.0	2,300.0	2,298.6	2,298.6	4.2	4.2	-167.01		-140.4	-32.4	144.1	135.7	8.33	17.289	
2,400.0	2,400.0	2,398.6	2,398.6	4.3	4.3	-167.01		-140.4	-32.4	144.1	135.5	8.51	16.920	
2,500.0	2,500.0	2,498.6	2,498.6	4.4	4.4	-167.01		-140.4	-32.4	144.1	135.4	8.70	16.559	
2,600.0	2,600.0	2,603.5	2,603.5	4.5	4.5	-167.14		-138.7	-31.6	142.3	133.4	8.89	16.003	
2,700.0	2,700.0	2,703.4	2,703.4	4.6	4.6	-167.41		-135.5	-30.3	138.9	129.8	9.09	15.282	
2,800.0	2,800.0	2,803.4	2,803.2	4.7	4.7	-167.69		-132.3	-28.9	135.5	126.2	9.29	14.586	
2,900.0	2,900.0	2,903.3	2,903.1	4.8	4.8	-167.98		-129.1	-27.5	132.0	122.5	9.49	13.914	
3,000.0	3,000.0	3,003.3	3,003.0	4.9	4.9	-168.29		-125.9	-26.1	128.6	118.9	9.69	13.267	
3,100.0	3,100.0	3,103.2	3,102.9	5.0	5.0	-168.62		-122.7	-24.7	125.2	115.3	9.90	12.644	
3,200.0	3,200.0	3,203.1	3,202.8	5.1	5.1	-168.97		-119.5	-23.3	121.8	111.7	10.11	12.043	
3,300.0	3,300.0	3,303.1	3,302.6	5.2	5.2	-169.33		-116.3	-21.9	118.4	108.1	10.33	11.465	
3,400.0	3,400.0	3,403.0	3,402.5	5.3	5.3	-169.72		-113.1	-20.5	115.0	104.4	10.54	10.908	
3,500.0	3,500.0	3,503.0	3,502.4	5.4	5.4	-170.13		-109.9	-19.1	111.6	100.8	10.76	10.372	
3,600.0	3,600.0	3,602.9	3,602.3	5.5	5.5	-170.56		-106.7	-17.7	108.2	97.2	10.98	9.856	
3,700.0	3,700.0	3,702.8	3,702.1	5.7	5.6	-171.03		-103.5	-16.3	104.8	93.6	11.20	9.359	
3,800.0	3,800.0	3,801.4	3,800.7	5.8	5.7	-171.43		-100.8	-15.2	102.0	90.6	11.42	8.930	
3,900.0	3,900.0	3,900.0	3,899.3	5.9	5.8	-171.61		-99.7	-14.7	100.8	89.2	11.64	8.658	
3,938.0	3,938.0	3,937.3	3,936.6	5.9	5.8	-171.62		-99.7	-14.7	100.8	89.0	11.73	8.592	
4,000.0	4,000.0	3,999.3	3,998.6	6.0	5.9	-171.62		-99.7	-14.7	100.8	88.9	11.87	8.491	
4,100.0	4,100.0	4,099.3	4,098.6	6.1	6.0	-171.62		-99.7	-14.7	100.8	88.7	12.09	8.332	
4,200.0	4,200.0	4,199.3	4,198.6	6.2	6.1	-171.62		-99.7	-14.7	100.8	88.4	12.32	8.178	
4,300.0	4,300.0	4,299.3	4,298.6	6.3	6.3	-171.62		-99.7	-14.7	100.8	88.2	12.55	8.029	
4,400.0	4,400.0	4,399.3	4,398.6	6.5	6.4	-171.62		-99.7	-14.7	100.8	88.0	12.78	7.884	
4,500.0	4,500.0	4,499.3	4,498.6	6.6	6.5	-171.62		-99.7	-14.7	100.8	87.8	13.01	7.744	
4,600.0	4,600.0	4,599.3	4,598.6	6.7	6.6	-171.62		-99.7	-14.7	100.8	87.5	13.25	7.608	
4,700.0	4,700.0	4,699.3	4,698.6	6.8	6.7	-171.62		-99.7	-14.7	100.8	87.3	13.48	7.476	
4,800.0	4,800.0	4,799.3	4,798.6	6.9	6.8	-171.62		-99.7	-14.7	100.8	87.1	13.71	7.348	
4,900.0	4,900.0	4,899.3	4,898.6	7.0	7.0	-171.62		-99.7	-14.7	100.8	86.8	13.95	7.224	
5,000.0	5,000.0	4,999.3	4,998.6	7.2	7.1	-171.62		-99.7	-14.7	100.8	86.6	14.19	7.103	

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
				(usft)	(usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,100.0	5,099.3	5,098.6	7.3	7.2	-171.62	-99.7	-14.7	100.8	86.3	14.42	6.986		
5,200.0	5,200.0	5,199.3	5,198.6	7.4	7.3	-171.62	-99.7	-14.7	100.8	86.1	14.66	6.873		
5,300.0	5,300.0	5,299.3	5,298.6	7.5	7.4	-171.62	-99.7	-14.7	100.8	85.9	14.90	6.762		
5,400.0	5,400.0	5,399.3	5,398.6	7.6	7.5	-171.62	-99.7	-14.7	100.8	85.6	15.14	6.655		
5,500.0	5,500.0	5,499.3	5,498.6	7.8	7.7	-171.62	-99.7	-14.7	100.8	85.4	15.38	6.551		
5,600.0	5,600.0	5,599.3	5,598.6	7.9	7.8	-171.62	-99.7	-14.7	100.8	85.1	15.62	6.450		
5,700.0	5,700.0	5,699.3	5,698.6	8.0	7.9	-171.62	-99.7	-14.7	100.8	84.9	15.86	6.352		
5,800.0	5,800.0	5,799.3	5,798.6	8.1	8.0	-171.62	-99.7	-14.7	100.8	84.7	16.11	6.256		
5,900.0	5,900.0	5,899.3	5,898.6	8.3	8.2	-171.62	-99.7	-14.7	100.8	84.4	16.35	6.163		
6,000.0	6,000.0	5,999.3	5,998.6	8.4	8.3	-171.62	-99.7	-14.7	100.8	84.2	16.59	6.072		
6,100.0	6,100.0	6,099.3	6,098.6	8.5	8.4	-171.62	-99.7	-14.7	100.8	83.9	16.84	5.984		
6,200.0	6,200.0	6,199.3	6,198.6	8.6	8.5	-171.62	-99.7	-14.7	100.8	83.7	17.08	5.899		
6,300.0	6,300.0	6,299.3	6,298.6	8.7	8.6	-171.62	-99.7	-14.7	100.8	83.4	17.33	5.815		
6,400.0	6,400.0	6,399.3	6,398.6	8.9	8.8	-171.62	-99.7	-14.7	100.8	83.2	17.57	5.734		
6,500.0	6,500.0	6,499.3	6,498.6	9.0	8.9	-171.62	-99.7	-14.7	100.8	82.9	17.82	5.655		
6,600.0	6,600.0	6,599.3	6,598.6	9.1	9.0	-171.62	-99.7	-14.7	100.8	82.7	18.07	5.577		
6,700.0	6,700.0	6,699.3	6,698.6	9.2	9.1	-171.62	-99.7	-14.7	100.8	82.5	18.31	5.502		
6,800.0	6,800.0	6,799.3	6,798.6	9.4	9.3	-171.62	-99.7	-14.7	100.8	82.2	18.56	5.429		
6,900.0	6,900.0	6,899.3	6,898.6	9.5	9.4	-171.62	-99.7	-14.7	100.8	82.0	18.81	5.357		
7,000.0	7,000.0	6,999.3	6,998.6	9.6	9.5	-171.62	-99.7	-14.7	100.8	81.7	19.06	5.288		
7,100.0	7,100.0	7,099.3	7,098.6	9.7	9.6	-171.62	-99.7	-14.7	100.8	81.5	19.31	5.220		
7,200.0	7,200.0	7,199.3	7,198.6	9.9	9.8	-171.62	-99.7	-14.7	100.8	81.2	19.55	5.153		
7,300.0	7,300.0	7,299.3	7,298.6	10.0	9.9	-171.62	-99.7	-14.7	100.8	81.0	19.80	5.088		
7,400.0	7,400.0	7,399.3	7,398.6	10.1	10.0	-171.62	-99.7	-14.7	100.8	80.7	20.05	5.025		
7,500.0	7,500.0	7,499.3	7,498.6	10.3	10.1	-171.62	-99.7	-14.7	100.8	80.5	20.30	4.963		
7,600.0	7,600.0	7,599.3	7,598.6	10.4	10.3	-171.62	-99.7	-14.7	100.8	80.2	20.55	4.903		
7,700.0	7,700.0	7,699.3	7,698.6	10.5	10.4	-171.62	-99.7	-14.7	100.8	80.0	20.80	4.844		
7,800.0	7,800.0	7,799.3	7,798.6	10.6	10.5	-171.62	-99.7	-14.7	100.8	79.7	21.05	4.786		
7,900.0	7,900.0	7,899.3	7,898.6	10.8	10.6	-171.62	-99.7	-14.7	100.8	79.5	21.30	4.730		
8,000.0	8,000.0	7,999.3	7,998.6	10.9	10.8	-171.62	-99.7	-14.7	100.8	79.2	21.56	4.675		
8,100.0	8,100.0	8,099.3	8,098.6	11.0	10.9	-171.62	-99.7	-14.7	100.8	79.0	21.81	4.621		
8,200.0	8,200.0	8,199.3	8,198.6	11.1	11.0	-171.62	-99.7	-14.7	100.8	78.7	22.06	4.568		
8,300.0	8,300.0	8,299.3	8,298.6	11.3	11.2	-171.62	-99.7	-14.7	100.8	78.5	22.31	4.516		
8,400.0	8,400.0	8,399.3	8,398.6	11.4	11.3	-171.62	-99.7	-14.7	100.8	78.2	22.56	4.466		
8,500.0	8,500.0	8,499.3	8,498.6	11.5	11.4	-171.62	-99.7	-14.7	100.8	78.0	22.82	4.417		
8,600.0	8,600.0	8,599.3	8,598.6	11.6	11.5	-171.62	-99.7	-14.7	100.8	77.7	23.07	4.368		
8,700.0	8,700.0	8,699.3	8,698.6	11.8	11.7	-171.62	-99.7	-14.7	100.8	77.4	23.32	4.321		
8,800.0	8,800.0	8,799.3	8,798.6	11.9	11.8	-171.62	-99.7	-14.7	100.8	77.2	23.57	4.274		
8,900.0	8,900.0	8,899.3	8,898.6	12.0	11.9	-171.62	-99.7	-14.7	100.8	76.9	23.83	4.229		
9,000.0	9,000.0	8,999.3	8,998.6	12.2	12.0	-171.62	-99.7	-14.7	100.8	76.7	24.08	4.185		
9,100.0	9,100.0	9,099.3	9,098.6	12.3	12.2	-171.62	-99.7	-14.7	100.8	76.4	24.33	4.141		
9,200.0	9,200.0	9,199.3	9,198.6	12.4	12.3	-171.62	-99.7	-14.7	100.8	76.2	24.59	4.098		
9,300.0	9,300.0	9,299.3	9,298.6	12.5	12.4	-171.62	-99.7	-14.7	100.8	75.9	24.84	4.056		
9,400.0	9,400.0	9,399.3	9,398.6	12.7	12.6	-171.62	-99.7	-14.7	100.8	75.7	25.10	4.015		
9,500.0	9,500.0	9,499.3	9,498.6	12.8	12.7	-171.62	-99.7	-14.7	100.8	75.4	25.35	3.975		
9,600.0	9,600.0	9,599.3	9,598.6	12.9	12.8	-171.62	-99.7	-14.7	100.8	75.2	25.60	3.936		
9,700.0	9,700.0	9,699.3	9,698.6	13.1	12.9	-171.62	-99.7	-14.7	100.8	74.9	25.86	3.897		
9,800.0	9,800.0	9,799.3	9,798.6	13.2	13.1	-171.62	-99.7	-14.7	100.8	74.7	26.11	3.859		
9,900.0	9,900.0	9,899.3	9,898.6	13.3	13.2	-171.62	-99.7	-14.7	100.8	74.4	26.37	3.822		
10,000.0	10,000.0	9,999.3	9,998.6	13.4	13.3	-171.62	-99.7	-14.7	100.8	74.1	26.62	3.785		
10,100.0	10,100.0	10,099.3	10,098.6	13.6	13.4	-171.62	-99.7	-14.7	100.8	73.9	26.88	3.749		
10,200.0	10,200.0	10,199.3	10,198.6	13.7	13.6	-171.62	-99.7	-14.7	100.8	73.6	27.13	3.714		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,300.0	10,300.0	10,299.3	10,298.6	13.8	13.7	-171.62	-99.7	-14.7	100.8	73.4	27.39	3.679		
10,400.0	10,400.0	10,399.3	10,398.6	14.0	13.8	-171.62	-99.7	-14.7	100.8	73.1	27.64	3.645		
10,500.0	10,500.0	10,499.3	10,498.6	14.1	14.0	-171.62	-99.7	-14.7	100.8	72.9	27.90	3.612		
10,600.0	10,600.0	10,599.3	10,598.6	14.2	14.1	-171.62	-99.7	-14.7	100.8	72.6	28.15	3.579		
10,700.0	10,700.0	10,699.3	10,698.6	14.3	14.2	-171.62	-99.7	-14.7	100.8	72.4	28.41	3.547		
10,800.0	10,800.0	10,799.3	10,798.6	14.5	14.4	-171.62	-99.7	-14.7	100.8	72.1	28.67	3.515		
10,900.0	10,900.0	10,899.3	10,898.6	14.6	14.5	-171.62	-99.7	-14.7	100.8	71.8	28.92	3.484		
11,000.0	11,000.0	10,999.3	10,998.6	14.7	14.6	-171.62	-99.7	-14.7	100.8	71.6	29.18	3.454		
11,100.0	11,100.0	11,099.3	11,098.6	14.9	14.7	-171.62	-99.7	-14.7	100.8	71.4	29.37	3.430		
11,200.0	11,200.0	11,199.3	11,198.6	15.0	14.7	-171.62	-99.7	-14.7	100.8	71.2	29.52	3.414		
11,208.9	11,208.9	11,208.2	11,207.5	15.0	14.7	-171.62	-99.7	-14.7	100.8	71.2	29.53	3.412	CC, ES, SF	
11,300.0	11,300.0	11,290.1	11,289.2	15.1	14.7	-171.79	-101.7	-14.7	103.2	73.3	29.84	3.458		
11,400.0	11,400.0	11,370.1	11,367.9	15.2	14.7	-172.80	-115.7	-14.6	120.5	89.3	31.23	3.860		
11,416.5	11,416.5	11,382.7	11,380.1	15.3	14.7	-173.02	-119.1	-14.6	124.9	93.4	31.55	3.961		
11,425.0	11,425.0	11,389.2	11,386.3	15.3	14.8	-171.08	-120.9	-14.6	127.5	95.6	31.81	4.006		
11,450.0	11,450.0	11,407.5	11,403.7	15.3	14.8	-171.30	-126.7	-14.5	136.3	103.9	32.34	4.213		
11,475.0	11,474.9	11,425.0	11,420.1	15.3	14.8	-171.51	-132.8	-14.5	147.1	114.2	32.89	4.473		
11,500.0	11,499.6	11,441.1	11,435.0	15.3	14.8	-171.70	-138.9	-14.5	159.9	126.4	33.46	4.778		
11,525.0	11,524.1	11,456.1	11,448.7	15.4	14.8	-171.85	-145.1	-14.4	174.4	140.4	34.02	5.128		
11,550.0	11,548.3	11,469.9	11,461.1	15.4	14.8	-171.94	-151.1	-14.4	190.6	156.1	34.55	5.517		
11,575.0	11,572.1	11,482.4	11,472.1	15.4	14.8	-171.95	-156.9	-14.4	208.3	173.2	35.06	5.941		
11,600.0	11,595.5	11,493.5	11,481.9	15.5	14.8	-171.88	-162.3	-14.3	227.2	191.7	35.53	6.395		
11,625.0	11,618.4	11,500.0	11,487.5	15.5	14.8	-171.55	-165.5	-14.3	247.4	211.2	36.20	6.834		
11,650.0	11,640.8	11,512.0	11,497.8	15.5	14.8	-171.39	-171.8	-14.3	268.4	232.1	36.35	7.385		
11,675.0	11,662.6	11,519.5	11,504.0	15.6	14.8	-170.92	-175.7	-14.3	290.4	253.7	36.70	7.914		
11,700.0	11,683.6	11,525.0	11,508.7	15.6	14.8	-170.18	-178.8	-14.2	313.2	276.1	37.05	8.452		
11,725.0	11,704.0	11,531.0	11,513.7	15.6	14.8	-169.22	-182.1	-14.2	336.5	299.3	37.28	9.027		
11,750.0	11,723.5	11,535.3	11,517.2	15.7	14.9	-167.70	-184.5	-14.2	360.4	322.9	37.51	9.608		
11,775.0	11,742.3	11,538.6	11,519.9	15.7	14.9	-165.31	-186.4	-14.2	384.7	347.0	37.70	10.202		
11,800.0	11,760.1	11,541.0	11,521.9	15.7	14.9	-161.20	-187.8	-14.2	409.2	371.4	37.86	10.808		
11,825.0	11,777.0	11,542.6	11,523.2	15.8	14.9	-152.93	-188.8	-14.2	434.0	396.0	37.99	11.424		
11,850.0	11,792.8	11,543.5	11,523.9	15.8	14.9	-131.24	-189.3	-14.2	458.9	420.8	38.09	12.050		
11,875.0	11,807.7	11,543.7	11,524.1	15.8	14.9	-73.26	-189.4	-14.2	483.9	445.7	38.15	12.683		
11,900.0	11,821.5	11,543.2	11,523.7	15.9	14.9	-32.47	-189.1	-14.2	508.8	470.7	38.19	13.324		
11,925.0	11,834.2	11,542.1	11,522.8	15.9	14.9	-18.83	-188.5	-14.2	533.7	495.5	38.20	13.970		
11,950.0	11,845.7	11,540.5	11,521.5	15.9	14.9	-12.87	-187.5	-14.2	558.5	520.3	38.19	14.622		
11,975.0	11,856.1	11,538.4	11,519.8	15.9	14.9	-9.62	-186.3	-14.2	583.0	544.8	38.16	15.278		
12,000.0	11,865.2	11,535.8	11,517.7	16.0	14.9	-7.59	-184.9	-14.2	607.3	569.2	38.11	15.937		
12,025.0	11,873.2	11,532.8	11,515.2	16.0	14.8	-6.22	-183.1	-14.2	631.3	593.3	38.03	16.599		
12,050.0	11,879.8	11,525.0	11,508.7	16.0	14.8	-5.13	-178.8	-14.2	655.0	616.9	38.07	17.207		
12,075.0	11,885.2	11,525.0	11,508.7	16.0	14.8	-4.49	-178.8	-14.2	678.3	640.4	37.85	17.919		
12,100.0	11,889.3	11,525.0	11,508.7	16.0	14.8	-3.99	-178.8	-14.2	701.1	663.5	37.62	18.637		
12,125.0	11,892.2	11,517.1	11,502.0	16.0	14.8	-3.48	-174.5	-14.3	723.5	685.9	37.57	19.256		
12,150.0	11,893.7	11,512.3	11,498.0	16.0	14.8	-3.12	-171.9	-14.3	745.4	708.0	37.42	19.919		
12,166.5	11,894.0	11,509.1	11,495.2	16.0	14.8	-2.91	-170.2	-14.3	759.6	722.3	37.31	20.356		
12,207.4	11,894.0	11,500.0	11,487.5	16.1	14.8	-0.16	-165.5	-14.3	794.6	757.6	37.08	21.430		
12,300.0	11,894.0	11,484.4	11,473.9	16.1	14.8	-0.16	-157.9	-14.4	875.2	838.6	36.55	23.947		
12,400.0	11,894.0	11,475.0	11,465.6	16.1	14.8	-0.15	-153.4	-14.4	963.8	927.9	35.97	26.797		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #115H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11453-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	179.73	-140.1	0.7	140.1					
100.0	100.0	99.1	99.1	3.0	3.0	179.73	-140.1	0.7	140.1	134.1	6.00	23.346		
200.0	200.0	199.1	199.1	3.0	3.0	179.73	-140.1	0.7	140.1	134.1	6.01	23.308		
300.0	300.0	299.1	299.1	3.0	3.0	179.73	-140.1	0.7	140.1	134.1	6.03	23.226		
400.0	400.0	399.1	399.1	3.0	3.0	179.73	-140.1	0.7	140.1	134.0	6.06	23.101		
500.0	500.0	499.1	499.1	3.1	3.1	179.73	-140.1	0.7	140.1	134.0	6.11	22.935		
600.0	600.0	599.1	599.1	3.1	3.1	179.73	-140.1	0.7	140.1	133.9	6.16	22.731		
700.0	700.0	699.1	699.1	3.1	3.1	179.73	-140.1	0.7	140.1	133.9	6.23	22.492		
800.0	800.0	799.1	799.1	3.2	3.2	179.73	-140.1	0.7	140.1	133.8	6.30	22.221		
900.0	900.0	899.1	899.1	3.2	3.2	179.73	-140.1	0.7	140.1	133.7	6.39	21.922		
1,000.0	1,000.0	999.1	999.1	3.2	3.2	179.73	-140.1	0.7	140.1	133.6	6.49	21.600		
1,100.0	1,100.0	1,099.1	1,099.1	3.3	3.3	179.73	-140.1	0.7	140.1	133.5	6.59	21.257		
1,200.0	1,200.0	1,199.1	1,199.1	3.4	3.4	179.73	-140.1	0.7	140.1	133.4	6.70	20.897		
1,300.0	1,300.0	1,299.1	1,299.1	3.4	3.4	179.73	-140.1	0.7	140.1	133.3	6.83	20.525		
1,400.0	1,400.0	1,399.1	1,399.1	3.5	3.5	179.73	-140.1	0.7	140.1	133.1	6.96	20.142		
1,500.0	1,500.0	1,499.1	1,499.1	3.5	3.5	179.73	-140.1	0.7	140.1	133.0	7.09	19.753		
1,600.0	1,600.0	1,599.1	1,599.1	3.6	3.6	179.73	-140.1	0.7	140.1	132.9	7.24	19.360		
1,700.0	1,700.0	1,699.1	1,699.1	3.7	3.7	179.73	-140.1	0.7	140.1	132.7	7.39	18.965		
1,800.0	1,800.0	1,799.1	1,799.1	3.8	3.8	179.73	-140.1	0.7	140.1	132.5	7.54	18.571		
1,900.0	1,900.0	1,899.1	1,899.1	3.9	3.9	179.73	-140.1	0.7	140.1	132.4	7.71	18.179		
2,000.0	2,000.0	1,999.1	1,999.1	3.9	3.9	179.73	-140.1	0.7	140.1	132.2	7.87	17.791		
2,100.0	2,100.0	2,099.1	2,099.1	4.0	4.0	179.73	-140.1	0.7	140.1	132.0	8.05	17.408		
2,200.0	2,200.0	2,199.1	2,199.1	4.1	4.1	179.73	-140.1	0.7	140.1	131.9	8.23	17.031		
2,300.0	2,300.0	2,299.1	2,299.1	4.2	4.2	179.73	-140.1	0.7	140.1	131.7	8.41	16.661		
2,400.0	2,400.0	2,399.1	2,399.1	4.3	4.3	179.73	-140.1	0.7	140.1	131.5	8.60	16.299		
2,500.0	2,500.0	2,499.1	2,499.1	4.4	4.4	179.73	-140.1	0.7	140.1	131.3	8.79	15.945		
2,600.0	2,600.0	2,600.1	2,600.1	4.5	4.5	179.02	-139.7	2.4	139.7	130.8	8.95	15.610		
2,700.0	2,700.0	2,700.8	2,700.6	4.6	4.5	176.88	-138.6	7.5	138.8	129.7	9.08	15.281		
2,800.0	2,800.0	2,801.0	2,800.5	4.7	4.6	173.28	-136.7	16.1	137.7	128.5	9.19	14.977		
2,900.0	2,900.0	2,900.6	2,899.2	4.8	4.6	168.22	-134.2	28.0	137.1	127.8	9.26	14.803		
2,907.7	2,907.7	2,908.2	2,906.8	4.8	4.6	167.77	-133.9	29.0	137.1	127.8	9.26	14.799 CC, ES, SF		
3,000.0	3,000.0	2,999.6	2,997.3	4.9	4.7	162.47	-131.2	41.5	137.7	128.4	9.27	14.853		
3,100.0	3,100.0	3,098.6	3,095.4	5.0	4.7	156.83	-128.3	54.9	139.6	130.4	9.23	15.122		
3,200.0	3,200.0	3,197.6	3,193.4	5.1	4.8	151.39	-125.4	68.4	143.0	133.8	9.17	15.593		
3,300.0	3,300.0	3,296.7	3,291.5	5.2	4.8	146.24	-122.5	81.9	147.5	138.4	9.08	16.242		
3,400.0	3,400.0	3,395.7	3,389.6	5.3	4.9	141.43	-119.6	95.3	153.2	144.2	8.99	17.040		
3,500.0	3,500.0	3,494.7	3,487.6	5.4	5.0	136.99	-116.7	108.8	159.9	151.0	8.91	17.958		
3,600.0	3,600.0	3,593.7	3,585.7	5.5	5.0	132.93	-113.7	122.3	167.5	158.7	8.83	18.965		
3,700.0	3,700.0	3,692.8	3,683.8	5.7	5.1	129.23	-110.8	135.7	175.9	167.1	8.78	20.034		
3,800.0	3,800.0	3,791.8	3,781.8	5.8	5.2	125.87	-107.9	149.2	184.9	176.2	8.75	21.139		
3,900.0	3,900.0	3,890.8	3,879.9	5.9	5.3	122.83	-105.0	162.7	194.6	185.8	8.74	22.261		
4,000.0	4,000.0	3,989.8	3,977.9	6.0	5.4	120.09	-102.1	176.2	204.7	195.9	8.75	23.382		
4,100.0	4,100.0	4,088.9	4,076.0	6.1	5.4	117.60	-99.1	189.6	215.2	206.4	8.79	24.491		
4,200.0	4,200.0	4,187.9	4,174.1	6.2	5.5	115.35	-96.2	203.1	226.1	217.3	8.84	25.579		
4,300.0	4,300.0	4,286.9	4,272.1	6.3	5.6	113.31	-93.3	216.6	237.3	228.4	8.91	26.639		
4,400.0	4,400.0	4,386.0	4,370.2	6.5	5.7	111.45	-90.4	230.0	248.8	239.8	8.99	27.668		
4,500.0	4,500.0	4,485.0	4,468.3	6.6	5.8	109.76	-87.5	243.5	260.6	251.5	9.09	28.664		
4,600.0	4,600.0	4,584.0	4,566.3	6.7	5.9	108.21	-84.5	257.0	272.5	263.3	9.20	29.624		
4,700.0	4,700.0	4,683.0	4,664.4	6.8	6.0	106.79	-81.6	270.4	284.6	275.3	9.32	30.550		
4,800.0	4,800.0	4,782.1	4,762.4	6.9	6.1	105.49	-78.7	283.9	296.9	287.4	9.44	31.442		
4,900.0	4,900.0	4,881.1	4,860.5	7.0	6.2	104.30	-75.8	297.4	309.3	299.7	9.58	32.300		
5,000.0	5,000.0	4,980.1	4,958.6	7.2	6.3	103.19	-72.9	310.8	321.8	312.1	9.72	33.125		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #115H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11453-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,100.0	5,079.1	5,056.6	7.3	6.4	102.17	-69.9	324.3	334.5	324.6	9.86	33.919		
5,200.0	5,200.0	5,178.2	5,154.7	7.4	6.5	101.22	-67.0	337.8	347.2	337.2	10.01	34.683		
5,300.0	5,300.0	5,277.2	5,252.8	7.5	6.6	100.34	-64.1	351.3	360.0	349.9	10.17	35.418		
5,400.0	5,400.0	5,376.2	5,350.8	7.6	6.7	99.52	-61.2	364.7	373.0	362.6	10.32	36.125		
5,500.0	5,500.0	5,475.3	5,448.9	7.8	6.8	98.76	-58.3	378.2	385.9	375.4	10.49	36.805		
5,600.0	5,600.0	5,580.3	5,553.0	7.9	6.9	98.04	-55.3	391.8	398.3	387.7	10.64	37.436		
5,700.0	5,700.0	5,686.7	5,658.8	8.0	7.0	97.45	-52.8	403.6	409.0	398.2	10.80	37.887		
5,800.0	5,800.0	5,793.6	5,765.1	8.1	7.1	96.98	-50.6	413.6	418.0	407.1	10.96	38.158		
5,900.0	5,900.0	5,900.7	5,871.9	8.3	7.3	96.61	-48.9	421.6	425.3	414.2	11.12	38.253		
6,000.0	6,000.0	6,008.2	5,979.2	8.4	7.4	96.34	-47.5	427.7	430.8	419.5	11.28	38.180		
6,100.0	6,100.0	6,115.8	6,086.7	8.5	7.5	96.16	-46.6	431.9	434.5	423.1	11.45	37.943		
6,200.0	6,200.0	6,223.5	6,194.5	8.6	7.6	96.07	-46.2	434.0	436.5	424.9	11.62	37.567		
6,300.0	6,300.0	6,328.2	6,299.1	8.7	7.7	96.06	-46.1	434.4	436.8	425.1	11.75	37.190		
6,400.0	6,400.0	6,428.2	6,399.1	8.9	7.8	96.06	-46.1	434.4	436.8	425.0	11.85	36.876		
6,500.0	6,500.0	6,528.2	6,499.1	9.0	7.9	96.06	-46.1	434.4	436.8	424.9	11.95	36.565		
6,600.0	6,600.0	6,628.2	6,599.1	9.1	8.0	96.06	-46.1	434.4	436.8	424.8	12.05	36.256		
6,700.0	6,700.0	6,728.2	6,699.1	9.2	8.1	96.06	-46.1	434.4	436.8	424.7	12.15	35.951		
6,800.0	6,800.0	6,828.2	6,799.1	9.4	8.2	96.06	-46.1	434.4	436.8	424.6	12.25	35.648		
6,900.0	6,900.0	6,928.2	6,899.1	9.5	8.3	96.06	-46.1	434.4	436.8	424.5	12.36	35.349		
7,000.0	7,000.0	7,028.2	6,999.1	9.6	8.4	96.06	-46.1	434.4	436.8	424.3	12.46	35.052		
7,100.0	7,100.0	7,128.2	7,099.1	9.7	8.5	96.06	-46.1	434.4	436.8	424.2	12.57	34.758		
7,200.0	7,200.0	7,228.2	7,199.1	9.9	8.6	96.06	-46.1	434.4	436.8	424.1	12.67	34.468		
7,300.0	7,300.0	7,328.2	7,299.1	10.0	8.7	96.06	-46.1	434.4	436.8	424.0	12.78	34.180		
7,400.0	7,400.0	7,428.2	7,399.1	10.1	8.8	96.06	-46.1	434.4	436.8	423.9	12.89	33.896		
7,500.0	7,500.0	7,528.2	7,499.1	10.3	8.9	96.06	-46.1	434.4	436.8	423.8	12.99	33.615		
7,600.0	7,600.0	7,628.2	7,599.1	10.4	9.0	96.06	-46.1	434.4	436.8	423.7	13.10	33.336		
7,700.0	7,700.0	7,728.2	7,699.1	10.5	9.1	96.06	-46.1	434.4	436.8	423.6	13.21	33.061		
7,800.0	7,800.0	7,828.2	7,799.1	10.6	9.2	96.06	-46.1	434.4	436.8	423.5	13.32	32.789		
7,900.0	7,900.0	7,928.2	7,899.1	10.8	9.3	96.06	-46.1	434.4	436.8	423.4	13.43	32.520		
8,000.0	8,000.0	8,028.2	7,999.1	10.9	9.5	96.06	-46.1	434.4	436.8	423.3	13.54	32.254		
8,100.0	8,100.0	8,128.2	8,099.1	11.0	9.6	96.06	-46.1	434.4	436.8	423.2	13.65	31.991		
8,200.0	8,200.0	8,228.2	8,199.1	11.1	9.7	96.06	-46.1	434.4	436.8	423.0	13.77	31.731		
8,300.0	8,300.0	8,328.2	8,299.1	11.3	9.8	96.06	-46.1	434.4	436.8	422.9	13.88	31.474		
8,400.0	8,400.0	8,428.2	8,399.1	11.4	9.9	96.06	-46.1	434.4	436.8	422.8	13.99	31.220		
8,500.0	8,500.0	8,528.2	8,499.1	11.5	10.0	96.06	-46.1	434.4	436.8	422.7	14.10	30.969		
8,600.0	8,600.0	8,628.2	8,599.1	11.6	10.1	96.06	-46.1	434.4	436.8	422.6	14.22	30.721		
8,700.0	8,700.0	8,728.2	8,699.1	11.8	10.2	96.06	-46.1	434.4	436.8	422.5	14.33	30.476		
8,800.0	8,800.0	8,828.2	8,799.1	11.9	10.3	96.06	-46.1	434.4	436.8	422.4	14.45	30.234		
8,900.0	8,900.0	8,928.2	8,899.1	12.0	10.5	96.06	-46.1	434.4	436.8	422.2	14.56	29.995		
9,000.0	9,000.0	9,028.2	8,999.1	12.2	10.6	96.06	-46.1	434.4	436.8	422.1	14.68	29.758		
9,100.0	9,100.0	9,128.2	9,099.1	12.3	10.7	96.06	-46.1	434.4	436.8	422.0	14.79	29.525		
9,200.0	9,200.0	9,228.2	9,199.1	12.4	10.8	96.06	-46.1	434.4	436.8	421.9	14.91	29.294		
9,300.0	9,300.0	9,328.2	9,299.1	12.5	10.9	96.06	-46.1	434.4	436.8	421.8	15.03	29.066		
9,400.0	9,400.0	9,428.2	9,399.1	12.7	11.0	96.06	-46.1	434.4	436.8	421.7	15.15	28.841		
9,500.0	9,500.0	9,528.2	9,499.1	12.8	11.1	96.06	-46.1	434.4	436.8	421.5	15.26	28.618		
9,600.0	9,600.0	9,628.2	9,599.1	12.9	11.3	96.06	-46.1	434.4	436.8	421.4	15.38	28.398		
9,700.0	9,700.0	9,728.2	9,699.1	13.1	11.4	96.06	-46.1	434.4	436.8	421.3	15.50	28.181		
9,800.0	9,800.0	9,828.2	9,799.1	13.2	11.5	96.06	-46.1	434.4	436.8	421.2	15.62	27.967		
9,900.0	9,900.0	9,928.2	9,899.1	13.3	11.6	96.06	-46.1	434.4	436.8	421.1	15.74	27.755		
10,000.0	10,000.0	10,028.2	9,999.1	13.4	11.7	96.06	-46.1	434.4	436.8	421.0	15.86	27.545		
10,100.0	10,100.0	10,128.2	10,099.1	13.6	11.8	96.06	-46.1	434.4	436.8	420.8	15.98	27.339		
10,200.0	10,200.0	10,228.2	10,199.1	13.7	12.0	96.06	-46.1	434.4	436.8	420.7	16.10	27.134		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #115H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11453-MWD+IFR1+FDIR								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.0	10,300.0	10,328.2	10,299.1	13.8	12.1	96.06	-46.1	434.4	436.8	420.6	16.22	26.932		
10,400.0	10,400.0	10,428.2	10,399.1	14.0	12.2	96.06	-46.1	434.4	436.8	420.5	16.34	26.733		
10,500.0	10,500.0	10,528.2	10,499.1	14.1	12.3	96.06	-46.1	434.4	436.8	420.3	16.46	26.536		
10,600.0	10,600.0	10,628.2	10,599.1	14.2	12.4	96.06	-46.1	434.4	436.8	420.2	16.58	26.342		
10,700.0	10,700.0	10,728.2	10,699.1	14.3	12.6	96.06	-46.1	434.4	436.8	420.1	16.70	26.149		
10,800.0	10,800.0	10,828.2	10,799.1	14.5	12.7	96.06	-46.1	434.4	436.8	420.0	16.83	25.959		
10,900.0	10,900.0	10,928.2	10,899.1	14.6	12.8	96.06	-46.1	434.4	436.8	419.9	16.95	25.772		
11,000.0	11,000.0	11,028.2	10,999.1	14.7	12.9	96.06	-46.1	434.4	436.8	419.7	17.07	25.586		
11,100.0	11,100.0	11,128.2	11,099.1	14.9	13.0	96.06	-46.1	434.4	436.8	419.6	17.19	25.403		
11,200.0	11,200.0	11,228.2	11,199.1	15.0	13.2	96.06	-46.1	434.4	436.8	419.5	17.32	25.222		
11,300.0	11,300.0	11,328.2	11,299.1	15.1	13.3	96.06	-46.1	434.4	436.8	419.4	17.44	25.044		
11,400.0	11,400.0	11,428.2	11,399.1	15.2	13.4	96.06	-46.1	434.4	436.8	419.2	17.56	24.877		
11,416.5	11,416.5	11,444.7	11,415.6	15.3	13.4	96.06	-46.1	434.4	436.8	419.2	17.58	24.854		
11,425.0	11,425.0	11,453.2	11,424.1	15.3	13.4	98.07	-46.1	434.4	436.8	419.2	17.58	24.847		
11,450.0	11,450.0	11,476.9	11,447.8	15.3	13.4	98.25	-46.7	434.3	437.0	419.4	17.58	24.854		
11,475.0	11,474.9	11,500.0	11,470.8	15.3	13.4	98.70	-48.3	434.3	437.5	419.9	17.59	24.875		
11,500.0	11,499.6	11,522.6	11,493.3	15.3	13.4	99.38	-51.1	434.1	438.3	420.7	17.60	24.904		
11,525.0	11,524.1	11,544.0	11,514.4	15.4	13.4	100.23	-54.6	434.0	439.6	422.0	17.63	24.930		
11,550.0	11,548.3	11,564.2	11,534.1	15.4	13.4	101.18	-58.8	433.7	441.4	423.7	17.70	24.940		
11,575.0	11,572.1	11,582.9	11,552.3	15.4	13.4	102.14	-63.5	433.5	444.0	426.1	17.82	24.920		
11,600.0	11,595.5	11,600.0	11,568.6	15.5	13.4	103.06	-68.3	433.3	447.3	429.3	18.00	24.854		
11,625.0	11,618.4	11,615.6	11,583.4	15.5	13.4	103.87	-73.3	433.0	451.6	433.4	18.26	24.734		
11,650.0	11,640.8	11,629.5	11,596.4	15.5	13.4	104.51	-78.1	432.8	457.0	438.4	18.61	24.556		
11,675.0	11,662.6	11,641.7	11,607.8	15.6	13.4	104.93	-82.6	432.6	463.5	444.5	19.05	24.327		
11,700.0	11,683.6	11,650.0	11,615.4	15.6	13.4	104.84	-85.9	432.4	471.2	451.6	19.64	23.989		
11,725.0	11,704.0	11,661.7	11,626.1	15.6	13.5	105.00	-90.7	432.2	480.2	460.0	20.19	23.785		
11,750.0	11,723.5	11,669.5	11,633.1	15.7	13.5	104.60	-94.0	432.0	490.3	469.4	20.85	23.516		
11,775.0	11,742.3	11,675.0	11,638.1	15.7	13.5	103.76	-96.5	431.9	501.6	480.0	21.58	23.245		
11,800.0	11,760.1	11,681.3	11,643.7	15.7	13.5	102.84	-99.3	431.8	514.1	491.8	22.27	23.086		
11,825.0	11,777.0	11,685.5	11,647.4	15.8	13.5	101.48	-101.2	431.7	527.6	504.6	22.99	22.952		
11,850.0	11,792.8	11,688.6	11,650.1	15.8	13.5	99.77	-102.7	431.6	542.1	518.4	23.69	22.884		
11,875.0	11,807.7	11,690.7	11,652.0	15.8	13.5	97.73	-103.7	431.6	557.5	533.2	24.36	22.884		
11,900.0	11,821.5	11,692.0	11,653.2	15.9	13.5	95.36	-104.3	431.5	573.7	548.7	25.00	22.950		
11,925.0	11,834.2	11,692.5	11,653.6	15.9	13.5	92.67	-104.6	431.5	590.6	565.1	25.59	23.082		
11,950.0	11,845.7	11,692.2	11,653.3	15.9	13.5	89.70	-104.4	431.5	608.2	582.0	26.13	23.276		
11,975.0	11,856.1	11,691.3	11,652.5	15.9	13.5	86.46	-104.0	431.5	626.2	599.6	26.62	23.527		
12,000.0	11,865.2	11,689.7	11,651.2	16.0	13.5	83.00	-103.2	431.6	644.6	617.5	27.05	23.830		
12,025.0	11,873.2	11,687.6	11,649.3	16.0	13.5	79.37	-102.2	431.6	663.3	635.9	27.43	24.181		
12,050.0	11,879.8	11,685.0	11,646.9	16.0	13.5	75.63	-101.0	431.7	682.3	654.5	27.76	24.575		
12,075.0	11,885.2	11,681.8	11,644.2	16.0	13.5	71.85	-99.6	431.8	701.4	673.4	28.05	25.009		
12,100.0	11,889.3	11,675.0	11,638.1	16.0	13.5	67.73	-96.5	431.9	720.6	692.2	28.37	25.401		
12,125.0	11,892.2	11,675.0	11,638.1	16.0	13.5	64.45	-96.5	431.9	739.8	711.3	28.46	25.995		
12,150.0	11,893.7	11,675.0	11,638.1	16.0	13.5	61.27	-96.5	431.9	758.9	730.4	28.51	26.624		
12,166.5	11,894.0	11,666.9	11,630.8	16.0	13.5	58.53	-92.9	432.1	771.5	742.7	28.71	26.870		
12,207.4	11,894.0	11,659.4	11,624.0	16.1	13.5	58.89	-89.7	432.2	802.5	773.7	28.89	27.776		
12,300.0	11,894.0	11,650.0	11,615.4	16.1	13.4	58.10	-85.9	432.4	874.8	845.6	29.13	30.034		
12,400.0	11,894.0	11,625.0	11,592.3	16.1	13.4	56.04	-76.5	432.9	956.1	926.4	29.62	32.282		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - BUCK 20 FEDERAL #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYRODATA-NS-GYRO-MS, 8329-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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)			
8,400.0	8,400.0	11,947.3	9,237.7	11.4	53.2	95.06	-29.7	335.0	917.7	871.1	46.67	19.662	
8,500.0	8,500.0	11,944.8	9,237.8	11.5	53.2	94.63	-27.1	335.0	825.5	777.8	47.67	17.318	
8,600.0	8,600.0	11,942.2	9,237.8	11.6	53.2	94.19	-24.5	335.0	735.3	686.4	48.87	15.044	
8,700.0	8,700.0	11,939.5	9,237.9	11.8	53.1	93.72	-21.8	335.1	647.9	597.6	50.36	12.865	
8,800.0	8,800.0	11,936.6	9,238.0	11.9	53.1	93.24	-19.0	335.1	564.8	512.6	52.21	10.818	
8,900.0	8,900.0	11,933.6	9,238.1	12.0	53.0	92.73	-16.0	335.2	488.0	433.6	54.42	8.967	
9,000.0	9,000.0	11,930.5	9,238.2	12.2	53.0	92.20	-12.9	335.2	421.0	364.2	56.85	7.406	
9,100.0	9,100.0	11,927.3	9,238.3	12.3	52.9	91.64	-9.6	335.2	369.3	310.3	58.93	6.266	
9,200.0	9,200.0	11,923.8	9,238.4	12.4	52.9	91.06	-6.2	335.3	339.8	279.9	59.88	5.674	
9,254.7	9,254.7	11,921.9	9,238.5	12.5	52.8	90.73	-4.2	335.3	335.3	275.4	59.92	5.596 CC, ES, SF	
9,300.0	9,300.0	11,920.3	9,238.6	12.5	52.8	90.44	-2.6	335.3	338.4	278.5	59.84	5.655	
9,400.0	9,400.0	11,916.5	9,238.7	12.7	52.8	89.80	1.2	335.4	365.4	306.4	59.06	6.187	
9,500.0	9,500.0	11,912.5	9,238.9	12.8	52.7	89.12	5.1	335.4	415.4	358.0	57.37	7.240	
9,600.0	9,600.0	11,908.6	9,239.0	12.9	52.6	88.45	9.1	335.5	481.2	425.7	55.44	8.679	
9,700.0	9,700.0	11,904.9	9,239.2	13.1	52.6	87.82	12.8	335.5	557.2	503.4	53.76	10.364	
9,800.0	9,800.0	11,901.2	9,239.3	13.2	52.5	87.19	16.4	335.6	639.8	587.3	52.48	12.191	
9,900.0	9,900.0	11,897.6	9,239.4	13.3	52.5	86.58	20.1	335.6	726.8	675.2	51.57	14.093	
10,000.0	10,000.0	11,894.0	9,239.6	13.4	52.4	85.97	23.6	335.7	816.8	765.8	50.95	16.030	
10,100.0	10,100.0	11,890.5	9,239.7	13.6	52.3	85.37	27.2	335.7	908.8	858.3	50.55	17.979	

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - BUCK 20 FEDERAL #5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYRODATA-NS-GYRO-MS, 7936-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,900.0	7,900.0	10,684.5	8,832.6	10.8	40.1	-85.42	24.0	-299.2	980.8	942.6	38.17	25.693	
8,000.0	8,000.0	10,688.5	8,832.7	10.9	40.1	-86.18	20.0	-299.1	886.1	847.4	38.69	22.902	
8,100.0	8,100.0	10,692.3	8,832.8	11.0	40.2	-86.89	16.2	-299.1	792.7	753.4	39.30	20.173	
8,200.0	8,200.0	10,695.8	8,832.9	11.1	40.2	-87.57	12.7	-299.0	701.2	661.1	40.02	17.518	
8,300.0	8,300.0	10,699.2	8,833.0	11.3	40.3	-88.21	9.3	-298.9	612.2	571.3	40.92	14.960	
8,400.0	8,400.0	10,702.3	8,833.1	11.4	40.3	-88.82	6.2	-298.9	527.2	485.2	42.06	12.535	
8,500.0	8,500.0	10,705.3	8,833.2	11.5	40.4	-89.39	3.2	-298.8	448.4	405.0	43.47	10.316	
8,600.0	8,600.0	10,708.2	8,833.3	11.6	40.4	-89.94	0.3	-298.7	379.8	334.7	45.08	8.423	
8,700.0	8,700.0	10,710.9	8,833.3	11.8	40.5	-90.46	-2.4	-298.7	327.6	281.1	46.48	7.048	
8,800.0	8,800.0	10,713.5	8,833.4	11.9	40.5	-90.95	-5.0	-298.6	300.7	253.5	47.15	6.377	
8,834.6	8,834.6	10,714.4	8,833.4	11.9	40.5	-91.12	-5.8	-298.6	298.7	251.4	47.31	6.314	CC, ES, SF
8,900.0	8,900.0	10,715.9	8,833.4	12.0	40.5	-91.43	-7.4	-298.6	305.8	258.1	47.65	6.417	
9,000.0	9,000.0	10,718.3	8,833.5	12.2	40.6	-91.88	-9.8	-298.5	341.4	293.7	47.73	7.152	
9,100.0	9,100.0	10,720.5	8,833.6	12.3	40.6	-92.31	-12.0	-298.5	399.5	352.5	47.06	8.489	
9,200.0	9,200.0	10,722.7	8,833.6	12.4	40.6	-92.72	-14.2	-298.5	471.9	425.7	46.19	10.215	
9,300.0	9,300.0	10,724.7	8,833.7	12.5	40.7	-93.11	-16.2	-298.4	552.9	507.4	45.47	12.158	
9,400.0	9,400.0	10,726.7	8,833.7	12.7	40.7	-93.49	-18.2	-298.4	639.3	594.3	44.98	14.215	
9,500.0	9,500.0	10,728.6	8,833.7	12.8	40.7	-93.85	-20.1	-298.3	729.2	684.5	44.67	16.325	
9,600.0	9,600.0	10,730.4	8,833.8	12.9	40.8	-94.19	-21.9	-298.3	821.4	776.9	44.51	18.454	
9,700.0	9,700.0	10,732.1	8,833.8	13.1	40.8	-94.53	-23.6	-298.3	915.3	870.8	44.46	20.585	

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	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
Reference	Offset	Semi Major Axis							Rule Assigned:					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
11,650.0	11,640.8	11,881.4	11,742.4	15.5	38.3	-97.26	-74.0	-988.6	999.2	952.0	47.16	21.189		
11,675.0	11,662.6	11,887.0	11,745.3	15.6	38.3	-97.63	-78.7	-987.8	998.8	951.6	47.17	21.175 SF		
11,676.8	11,664.1	11,887.0	11,745.3	15.6	38.3	-97.63	-78.7	-987.8	998.8	951.6	47.17	21.175 CC, ES		
11,700.0	11,683.6	11,887.0	11,745.3	15.6	38.3	-97.59	-78.7	-987.8	999.1	951.9	47.17	21.181		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1													Offset Site Error:
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.1	0.1	3.0	3.0	-59.02	355.5	-592.1	690.6				
100.0	100.0	100.1	100.1	3.0	3.0	-59.02	355.5	-592.1	690.6	684.6	6.00	115.048	
200.0	200.0	200.1	200.1	3.0	3.0	-59.02	355.5	-592.1	690.6	684.6	6.04	114.307	
300.0	300.0	300.1	300.1	3.0	3.1	-59.02	355.5	-592.1	690.6	684.5	6.12	112.763	
400.0	400.0	400.1	400.1	3.0	3.2	-59.02	355.5	-592.1	690.6	684.4	6.25	110.534	
500.0	500.0	500.1	500.1	3.1	3.4	-59.02	355.5	-592.1	690.6	684.2	6.41	107.767	
600.0	600.0	600.1	600.1	3.1	3.6	-59.02	355.5	-592.1	690.6	684.0	6.60	104.617	
700.0	700.0	700.1	700.1	3.1	3.8	-59.02	355.5	-592.1	690.6	683.8	6.82	101.226	
800.0	800.0	800.1	800.1	3.2	4.0	-59.02	355.5	-592.1	690.6	683.6	7.07	97.711	
900.0	900.0	900.1	900.1	3.2	4.2	-59.02	355.5	-592.1	690.6	683.3	7.33	94.165	
1,000.0	1,000.0	1,000.1	1,000.1	3.2	4.5	-59.02	355.5	-592.1	690.6	683.0	7.62	90.657	
1,100.0	1,100.0	1,100.1	1,100.1	3.3	4.8	-59.02	355.5	-592.1	690.6	682.7	7.92	87.233	
1,200.0	1,200.0	1,200.1	1,200.1	3.4	5.1	-59.02	355.5	-592.1	690.6	682.4	8.23	83.926	
1,300.0	1,300.0	1,300.1	1,300.1	3.4	5.4	-59.02	355.5	-592.1	690.6	682.1	8.55	80.753	
1,400.0	1,400.0	1,400.1	1,400.1	3.5	5.7	-59.02	355.5	-592.1	690.6	681.7	8.89	77.726	
1,500.0	1,500.0	1,500.1	1,500.1	3.5	6.0	-59.02	355.5	-592.1	690.6	681.4	9.23	74.848	
1,600.0	1,600.0	1,600.1	1,600.1	3.6	6.3	-59.02	355.5	-592.1	690.6	681.1	9.58	72.118	
1,700.0	1,700.0	1,700.1	1,700.1	3.7	6.6	-59.02	355.5	-592.1	690.6	680.7	9.93	69.533	
1,800.0	1,800.0	1,800.1	1,800.1	3.8	6.9	-59.02	355.5	-592.1	690.6	680.3	10.29	67.087	
1,900.0	1,900.0	1,900.1	1,900.1	3.9	7.2	-59.02	355.5	-592.1	690.6	680.0	10.66	64.775	
2,000.0	2,000.0	2,000.1	2,000.1	3.9	7.6	-59.02	355.5	-592.1	690.6	679.6	11.03	62.589	
2,100.0	2,100.0	2,100.1	2,100.1	4.0	7.9	-59.02	355.5	-592.1	690.6	679.2	11.41	60.522	
2,200.0	2,200.0	2,200.1	2,200.1	4.1	8.2	-59.02	355.5	-592.1	690.6	678.8	11.79	58.568	
2,300.0	2,300.0	2,300.1	2,300.1	4.2	8.6	-59.02	355.5	-592.1	690.6	678.5	12.18	56.718	
2,400.0	2,400.0	2,400.1	2,400.1	4.3	8.9	-59.02	355.5	-592.1	690.6	678.1	12.56	54.967	
2,416.6	2,416.6	2,416.7	2,416.7	4.3	9.0	-59.02	355.5	-592.1	690.6	678.0	12.63	54.684 CC	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-59.02	355.5	-592.1	690.6	677.7	12.96	53.309 ES	
2,600.0	2,600.0	2,581.9	2,581.9	4.5	9.5	-59.06	355.7	-593.3	691.9	678.7	13.28	52.113	
2,700.0	2,700.0	2,663.6	2,663.5	4.6	9.8	-59.17	356.1	-596.7	695.9	682.3	13.59	51.207	
2,800.0	2,800.0	2,745.1	2,744.8	4.7	10.0	-59.36	356.9	-602.5	702.5	688.6	13.89	50.557	
2,900.0	2,900.0	2,826.1	2,825.4	4.8	10.3	-59.61	358.0	-610.5	711.6	697.4	14.19	50.146	
3,000.0	3,000.0	2,906.6	2,905.3	4.9	10.6	-59.93	359.4	-620.6	723.4	709.0	14.48	49.954	
3,100.0	3,100.0	2,995.9	2,993.5	5.0	10.9	-60.33	361.2	-634.1	737.5	722.7	14.81	49.788	
3,200.0	3,200.0	3,094.7	3,091.1	5.1	11.2	-60.77	363.3	-649.3	752.0	736.8	15.20	49.488	
3,300.0	3,300.0	3,193.4	3,188.6	5.2	11.6	-61.20	365.4	-664.6	766.5	751.0	15.58	49.195	
3,400.0	3,400.0	3,292.2	3,286.2	5.3	11.9	-61.61	367.5	-679.8	781.1	765.1	15.97	48.910	
3,500.0	3,500.0	3,391.0	3,383.8	5.4	12.2	-62.00	369.5	-695.0	795.7	779.3	16.36	48.632	
3,600.0	3,600.0	3,489.8	3,481.4	5.5	12.6	-62.38	371.6	-710.2	810.3	793.6	16.76	48.363	
3,700.0	3,700.0	3,588.6	3,579.0	5.7	12.9	-62.75	373.7	-725.5	825.0	807.9	17.15	48.102	
3,800.0	3,800.0	3,687.4	3,676.5	5.8	13.3	-63.10	375.8	-740.7	839.7	822.2	17.55	47.848	
3,900.0	3,900.0	3,786.1	3,774.1	5.9	13.6	-63.44	377.8	-755.9	854.4	836.5	17.95	47.601	
4,000.0	4,000.0	3,884.9	3,871.7	6.0	14.0	-63.77	379.9	-771.1	869.2	850.8	18.35	47.363	
4,100.0	4,100.0	3,983.7	3,969.3	6.1	14.3	-64.09	382.0	-786.4	884.0	865.2	18.76	47.131	
4,200.0	4,200.0	4,082.5	4,066.9	6.2	14.7	-64.40	384.1	-801.6	898.8	879.6	19.16	46.906	
4,300.0	4,300.0	4,181.3	4,164.4	6.3	15.0	-64.70	386.2	-816.8	913.6	894.1	19.57	46.688	
4,400.0	4,400.0	4,280.1	4,262.0	6.5	15.4	-64.99	388.2	-832.1	928.5	908.5	19.98	46.477	
4,500.0	4,500.0	4,378.8	4,359.6	6.6	15.7	-65.27	390.3	-847.3	943.4	923.0	20.39	46.272	
4,600.0	4,600.0	4,477.6	4,457.2	6.7	16.1	-65.54	392.4	-862.5	958.3	937.5	20.80	46.073	
4,700.0	4,700.0	4,576.4	4,554.8	6.8	16.4	-65.80	394.5	-877.7	973.2	952.0	21.21	45.880	
4,800.0	4,800.0	4,675.2	4,652.3	6.9	16.8	-66.06	396.5	-893.0	988.2	966.5	21.63	45.693 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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9779-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-57.54	355.6	-559.1	662.6					
100.0	100.0	99.0	99.0	3.0	3.0	-57.54	355.6	-559.1	662.6	656.6	6.00	110.429		
200.0	200.0	199.0	199.0	3.0	3.0	-57.54	355.6	-559.1	662.6	656.6	6.01	110.341		
300.0	300.0	299.0	299.0	3.0	3.0	-57.54	355.6	-559.1	662.6	656.6	6.02	110.150		
400.0	400.0	399.0	399.0	3.0	3.0	-57.54	355.6	-559.1	662.6	656.6	6.03	109.858		
500.0	500.0	499.0	499.0	3.1	3.1	-57.54	355.6	-559.1	662.6	656.6	6.05	109.466		
600.0	600.0	599.0	599.0	3.1	3.1	-57.54	355.6	-559.1	662.6	656.5	6.08	108.978		
700.0	700.0	699.0	699.0	3.1	3.1	-57.54	355.6	-559.1	662.6	656.5	6.11	108.398		
800.0	800.0	799.0	799.0	3.2	3.2	-57.54	355.6	-559.1	662.6	656.5	6.15	107.731		
900.0	900.0	899.0	899.0	3.2	3.2	-57.54	355.6	-559.1	662.6	656.4	6.19	106.981		
1,000.0	1,000.0	999.0	999.0	3.2	3.2	-57.54	355.6	-559.1	662.6	656.4	6.24	106.154		
1,100.0	1,100.0	1,099.0	1,099.0	3.3	3.3	-57.54	355.6	-559.1	662.6	656.3	6.30	105.256		
1,200.0	1,200.0	1,199.0	1,199.0	3.4	3.4	-57.54	355.6	-559.1	662.6	656.3	6.35	104.293		
1,300.0	1,300.0	1,299.0	1,299.0	3.4	3.4	-57.54	355.6	-559.1	662.6	656.2	6.42	103.270		
1,400.0	1,400.0	1,399.0	1,399.0	3.5	3.5	-57.54	355.6	-559.1	662.6	656.1	6.48	102.194		
1,500.0	1,500.0	1,499.0	1,499.0	3.5	3.5	-57.54	355.6	-559.1	662.6	656.1	6.56	101.072		
1,600.0	1,600.0	1,599.0	1,599.0	3.6	3.6	-57.54	355.6	-559.1	662.6	656.0	6.63	99.908		
1,700.0	1,700.0	1,699.0	1,699.0	3.7	3.7	-57.54	355.6	-559.1	662.6	655.9	6.71	98.710		
1,800.0	1,800.0	1,799.0	1,799.0	3.8	3.8	-57.54	355.6	-559.1	662.6	655.8	6.80	97.482		
1,900.0	1,900.0	1,899.0	1,899.0	3.9	3.9	-57.54	355.6	-559.1	662.6	655.7	6.89	96.229		
2,000.0	2,000.0	1,999.0	1,999.0	3.9	3.9	-57.54	355.6	-559.1	662.6	655.6	6.98	94.958		
2,100.0	2,100.0	2,099.0	2,099.0	4.0	4.0	-57.54	355.6	-559.1	662.6	655.5	7.07	93.672		
2,200.0	2,200.0	2,199.0	2,199.0	4.1	4.1	-57.54	355.6	-559.1	662.6	655.4	7.17	92.376		
2,300.0	2,300.0	2,299.0	2,299.0	4.2	4.2	-57.54	355.6	-559.1	662.6	655.3	7.28	91.074		
2,400.0	2,400.0	2,399.0	2,399.0	4.3	4.3	-57.54	355.6	-559.1	662.6	655.2	7.38	89.770		
2,500.0	2,500.0	2,499.0	2,499.0	4.4	4.4	-57.54	355.6	-559.1	662.6	655.1	7.49	88.467 CC, ES		
2,600.0	2,600.0	2,580.6	2,580.6	4.5	4.5	-57.56	356.1	-560.1	664.0	656.4	7.59	87.425		
2,700.0	2,700.0	2,661.8	2,661.7	4.6	4.5	-57.60	357.4	-563.3	668.2	660.5	7.71	86.678		
2,800.0	2,800.0	2,742.8	2,742.5	4.7	4.6	-57.68	359.7	-568.5	675.1	667.3	7.82	86.288		
2,900.0	2,900.0	2,823.4	2,822.8	4.8	4.6	-57.78	362.8	-575.8	684.9	676.9	7.94	86.266		
3,000.0	3,000.0	2,917.3	2,916.0	4.9	4.7	-57.93	367.3	-586.2	696.7	688.6	8.07	86.341		
3,100.0	3,100.0	3,016.6	3,014.5	5.0	4.7	-58.08	372.0	-597.1	708.6	700.4	8.21	86.333		
3,200.0	3,200.0	3,115.9	3,113.1	5.1	4.8	-58.22	376.8	-608.1	720.5	712.2	8.35	86.294		
3,300.0	3,300.0	3,215.2	3,211.6	5.2	4.9	-58.36	381.5	-619.1	732.5	724.0	8.49	86.227		
3,400.0	3,400.0	3,314.4	3,310.2	5.3	4.9	-58.49	386.3	-630.1	744.4	735.8	8.64	86.134		
3,500.0	3,500.0	3,413.7	3,408.7	5.4	5.0	-58.62	391.0	-641.1	756.3	747.5	8.79	86.020		
3,600.0	3,600.0	3,513.0	3,507.3	5.5	5.1	-58.75	395.7	-652.1	768.3	759.3	8.95	85.885		
3,700.0	3,700.0	3,612.2	3,605.8	5.7	5.2	-58.87	400.5	-663.1	780.2	771.1	9.10	85.733		
3,800.0	3,800.0	3,711.5	3,704.4	5.8	5.3	-58.99	405.2	-674.1	792.2	782.9	9.26	85.565		
3,900.0	3,900.0	3,810.8	3,802.9	5.9	5.3	-59.10	409.9	-685.0	804.1	794.7	9.42	85.384		
4,000.0	4,000.0	3,910.0	3,901.4	6.0	5.4	-59.21	414.7	-696.0	816.1	806.5	9.58	85.191		
4,100.0	4,100.0	4,009.3	4,000.0	6.1	5.5	-59.32	419.4	-707.0	828.0	818.3	9.74	84.987		
4,200.0	4,200.0	4,108.6	4,098.5	6.2	5.6	-59.43	424.2	-718.0	840.0	830.1	9.91	84.774		
4,300.0	4,300.0	4,207.9	4,197.1	6.3	5.7	-59.53	428.9	-729.0	851.9	841.9	10.08	84.554		
4,400.0	4,400.0	4,307.1	4,295.6	6.5	5.8	-59.63	433.6	-740.0	863.9	853.7	10.24	84.328		
4,500.0	4,500.0	4,406.4	4,394.2	6.6	5.9	-59.73	438.4	-751.0	875.9	865.4	10.42	84.096		
4,600.0	4,600.0	4,505.7	4,492.7	6.7	6.0	-59.82	443.1	-762.0	887.8	877.2	10.59	83.859		
4,700.0	4,700.0	4,604.9	4,591.3	6.8	6.1	-59.91	447.9	-773.0	899.8	889.0	10.76	83.619		
4,800.0	4,800.0	4,704.2	4,689.8	6.9	6.2	-60.00	452.6	-783.9	911.8	900.8	10.94	83.376		
4,900.0	4,900.0	4,803.5	4,788.4	7.0	6.3	-60.09	457.3	-794.9	923.8	912.6	11.11	83.131		
5,000.0	5,000.0	4,902.8	4,886.9	7.2	6.4	-60.17	462.1	-805.9	935.7	924.4	11.29	82.884		
5,100.0	5,100.0	5,002.0	4,985.5	7.3	6.5	-60.25	466.8	-816.9	947.7	936.2	11.47	82.637		

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9779-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,200.0	5,101.3	5,084.0	7.4	6.6	-60.33	471.6	-827.9	959.7	948.0	11.65	82.389		
5,300.0	5,300.0	5,200.6	5,182.6	7.5	6.7	-60.41	476.3	-838.9	971.7	959.8	11.83	82.141		
5,400.0	5,400.0	5,299.8	5,281.1	7.6	6.8	-60.49	481.0	-849.9	983.7	971.6	12.01	81.893		
5,500.0	5,500.0	5,399.1	5,379.7	7.8	6.9	-60.56	485.8	-860.9	995.6	983.4	12.19	81.646 SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-55.93	355.8	-526.1	635.1						
100.0	100.0	99.3	99.3	3.0	3.0	-55.93	355.8	-526.1	635.1	629.1	6.00	105.798			
200.0	200.0	199.3	199.3	3.0	3.0	-55.93	355.8	-526.1	635.1	629.1	6.04	105.121			
300.0	300.0	299.3	299.3	3.0	3.1	-55.93	355.8	-526.1	635.1	629.0	6.12	103.700			
400.0	400.0	399.3	399.3	3.0	3.2	-55.93	355.8	-526.1	635.1	628.9	6.25	101.645			
500.0	500.0	499.3	499.3	3.1	3.4	-55.93	355.8	-526.1	635.1	628.7	6.41	99.093			
600.0	600.0	599.3	599.3	3.1	3.6	-55.93	355.8	-526.1	635.1	628.5	6.60	96.186			
700.0	700.0	699.3	699.3	3.1	3.8	-55.93	355.8	-526.1	635.1	628.3	6.82	93.055			
800.0	800.0	799.3	799.3	3.2	4.0	-55.93	355.8	-526.1	635.1	628.0	7.07	89.810			
900.0	900.0	899.3	899.3	3.2	4.2	-55.93	355.8	-526.1	635.1	627.8	7.34	86.537			
1,000.0	1,000.0	999.3	999.3	3.2	4.5	-55.93	355.8	-526.1	635.1	627.5	7.62	83.297			
1,100.0	1,100.0	1,099.3	1,099.3	3.3	4.8	-55.93	355.8	-526.1	635.1	627.2	7.93	80.137			
1,200.0	1,200.0	1,199.3	1,199.3	3.4	5.1	-55.93	355.8	-526.1	635.1	626.9	8.24	77.083			
1,300.0	1,300.0	1,299.3	1,299.3	3.4	5.3	-55.93	355.8	-526.1	635.1	626.5	8.56	74.155			
1,400.0	1,400.0	1,399.3	1,399.3	3.5	5.6	-55.93	355.8	-526.1	635.1	626.2	8.90	71.361			
1,500.0	1,500.0	1,499.3	1,499.3	3.5	6.0	-55.93	355.8	-526.1	635.1	625.9	9.24	68.705			
1,600.0	1,600.0	1,599.3	1,599.3	3.6	6.3	-55.93	355.8	-526.1	635.1	625.5	9.60	66.186			
1,700.0	1,700.0	1,699.3	1,699.3	3.7	6.6	-55.93	355.8	-526.1	635.1	625.1	9.95	63.802			
1,800.0	1,800.0	1,799.3	1,799.3	3.8	6.9	-55.93	355.8	-526.1	635.1	624.8	10.32	61.546			
1,900.0	1,900.0	1,899.3	1,899.3	3.9	7.2	-55.93	355.8	-526.1	635.1	624.4	10.69	59.415			
2,000.0	2,000.0	1,999.3	1,999.3	3.9	7.6	-55.93	355.8	-526.1	635.1	624.0	11.06	57.400			
2,100.0	2,100.0	2,099.3	2,099.3	4.0	7.9	-55.93	355.8	-526.1	635.1	623.7	11.44	55.495			
2,200.0	2,200.0	2,199.3	2,199.3	4.1	8.2	-55.93	355.8	-526.1	635.1	623.3	11.83	53.694			
2,300.0	2,300.0	2,299.3	2,299.3	4.2	8.6	-55.93	355.8	-526.1	635.1	622.9	12.22	51.990			
2,400.0	2,400.0	2,399.3	2,399.3	4.3	8.9	-55.93	355.8	-526.1	635.1	622.5	12.61	50.377			
2,500.0	2,500.0	2,499.3	2,499.3	4.4	9.2	-55.93	355.8	-526.1	635.1	622.1	13.00	48.849			
2,600.0	2,600.0	2,588.2	2,588.2	4.5	9.5	-55.83	357.2	-526.1	636.0	622.6	13.36	47.599			
2,700.0	2,700.0	2,676.9	2,676.8	4.6	9.8	-55.52	361.3	-526.1	638.6	624.9	13.72	46.538			
2,800.0	2,800.0	2,765.3	2,764.9	4.7	10.1	-55.02	368.1	-526.1	643.0	628.9	14.08	45.654			
2,900.0	2,900.0	2,860.2	2,859.3	4.8	10.5	-54.32	377.8	-526.2	649.0	634.5	14.48	44.819			
3,000.0	3,000.0	2,959.7	2,958.3	4.9	10.8	-53.58	388.2	-526.2	655.2	640.3	14.90	43.973			
3,100.0	3,100.0	3,059.1	3,057.2	5.0	11.1	-52.86	398.6	-526.3	661.5	646.2	15.32	43.168			
3,200.0	3,200.0	3,158.6	3,156.1	5.1	11.5	-52.15	409.0	-526.3	667.9	652.2	15.75	42.404			
3,300.0	3,300.0	3,258.0	3,255.0	5.2	11.8	-51.45	419.4	-526.3	674.5	658.3	16.18	41.676			
3,400.0	3,400.0	3,357.5	3,353.9	5.3	12.2	-50.77	429.8	-526.4	681.1	664.5	16.62	40.984			
3,500.0	3,500.0	3,456.9	3,452.8	5.4	12.5	-50.10	440.2	-526.4	687.8	670.7	17.06	40.325			
3,600.0	3,600.0	3,556.4	3,551.7	5.5	12.9	-49.44	450.6	-526.5	694.6	677.1	17.50	39.697			
3,700.0	3,700.0	3,655.8	3,650.6	5.7	13.2	-48.80	461.0	-526.5	701.5	683.6	17.94	39.098			
3,800.0	3,800.0	3,755.3	3,749.5	5.8	13.6	-48.17	471.4	-526.6	708.5	690.1	18.39	38.528			
3,900.0	3,900.0	3,854.7	3,848.4	5.9	13.9	-47.55	481.8	-526.6	715.5	696.7	18.84	37.983			
4,000.0	4,000.0	3,954.2	3,947.3	6.0	14.3	-46.94	492.1	-526.7	722.7	703.4	19.29	37.464			
4,100.0	4,100.0	4,053.7	4,046.2	6.1	14.6	-46.35	502.5	-526.7	729.9	710.2	19.75	36.967			
4,200.0	4,200.0	4,153.1	4,145.1	6.2	15.0	-45.76	512.9	-526.8	737.2	717.0	20.20	36.493			
4,300.0	4,300.0	4,252.6	4,244.1	6.3	15.3	-45.19	523.3	-526.8	744.6	724.0	20.66	36.040			
4,400.0	4,400.0	4,352.0	4,343.0	6.5	15.7	-44.63	533.7	-526.8	752.1	731.0	21.12	35.607			
4,500.0	4,500.0	4,451.5	4,441.9	6.6	16.0	-44.08	544.1	-526.9	759.6	738.0	21.58	35.192			
4,600.0	4,600.0	4,550.9	4,540.8	6.7	16.4	-43.54	554.5	-526.9	767.2	745.1	22.05	34.795			
4,700.0	4,700.0	4,650.4	4,639.7	6.8	16.7	-43.01	564.9	-527.0	774.9	752.3	22.52	34.414			
4,800.0	4,800.0	4,749.8	4,738.6	6.9	17.1	-42.49	575.3	-527.0	782.6	759.6	22.98	34.050			
4,900.0	4,900.0	4,849.3	4,837.5	7.0	17.4	-41.98	585.7	-527.1	790.4	766.9	23.45	33.700			
5,000.0	5,000.0	4,948.7	4,936.4	7.2	17.8	-41.49	596.1	-527.1	798.2	774.3	23.92	33.365			
5,100.0	5,100.0	5,048.2	5,035.3	7.3	18.1	-41.00	606.5	-527.2	806.1	781.7	24.40	33.043			

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,200.0	5,147.6	5,134.2	7.4	18.5	-40.52	616.9	-527.2	814.1	789.2	24.87	32.734		
5,300.0	5,300.0	5,247.1	5,233.1	7.5	18.9	-40.05	627.3	-527.3	822.1	796.8	25.34	32.437		
5,400.0	5,400.0	5,346.5	5,332.0	7.6	19.2	-39.59	637.7	-527.3	830.2	804.4	25.82	32.152		
5,500.0	5,500.0	5,446.0	5,430.9	7.8	19.6	-39.14	648.1	-527.4	838.3	812.0	26.30	31.878		
5,600.0	5,600.0	5,545.4	5,529.8	7.9	19.9	-38.69	658.5	-527.4	846.5	819.7	26.78	31.614		
5,700.0	5,700.0	5,644.9	5,628.8	8.0	20.3	-38.26	668.9	-527.4	854.7	827.5	27.26	31.360		
5,800.0	5,800.0	5,744.3	5,727.7	8.1	20.6	-37.83	679.3	-527.5	863.0	835.3	27.74	31.116		
5,900.0	5,900.0	5,843.8	5,826.6	8.3	21.0	-37.41	689.7	-527.5	871.3	843.1	28.22	30.880		
6,000.0	6,000.0	6,017.3	5,999.3	8.4	21.6	-36.82	704.8	-527.6	880.4	851.5	28.96	30.404		
6,100.0	6,100.0	6,117.3	6,099.3	8.5	22.0	-36.82	704.8	-527.6	880.4	851.0	29.41	29.933		
6,200.0	6,200.0	6,217.3	6,199.3	8.6	22.3	-36.82	704.8	-527.6	880.4	850.5	29.87	29.475		
6,300.0	6,300.0	6,317.3	6,299.3	8.7	22.7	-36.82	704.8	-527.6	880.4	850.1	30.33	29.031		
6,400.0	6,400.0	6,417.3	6,399.3	8.9	23.0	-36.82	704.8	-527.6	880.4	849.6	30.78	28.600		
6,500.0	6,500.0	6,517.3	6,499.3	9.0	23.4	-36.82	704.8	-527.6	880.4	849.2	31.24	28.181		
6,600.0	6,600.0	6,617.3	6,599.3	9.1	23.7	-36.82	704.8	-527.6	880.4	848.7	31.70	27.774		
6,700.0	6,700.0	6,717.3	6,699.3	9.2	24.1	-36.82	704.8	-527.6	880.4	848.3	32.16	27.378		
6,800.0	6,800.0	6,817.3	6,799.3	9.4	24.4	-36.82	704.8	-527.6	880.4	847.8	32.62	26.992		
6,900.0	6,900.0	6,917.3	6,899.3	9.5	24.8	-36.82	704.8	-527.6	880.4	847.3	33.08	26.618		
7,000.0	7,000.0	7,017.3	6,999.3	9.6	25.1	-36.82	704.8	-527.6	880.4	846.9	33.54	26.253		
7,100.0	7,100.0	7,117.3	7,099.3	9.7	25.5	-36.82	704.8	-527.6	880.4	846.4	34.00	25.898		
7,200.0	7,200.0	7,217.3	7,199.3	9.9	25.8	-36.82	704.8	-527.6	880.4	846.0	34.46	25.552		
7,300.0	7,300.0	7,317.3	7,299.3	10.0	26.2	-36.82	704.8	-527.6	880.4	845.5	34.92	25.215		
7,400.0	7,400.0	7,417.3	7,399.3	10.1	26.6	-36.82	704.8	-527.6	880.4	845.0	35.38	24.886		
7,500.0	7,500.0	7,517.3	7,499.3	10.3	26.9	-36.82	704.8	-527.6	880.4	844.6	35.84	24.566		
7,600.0	7,600.0	7,617.3	7,599.3	10.4	27.3	-36.82	704.8	-527.6	880.4	844.1	36.30	24.254		
7,700.0	7,700.0	7,717.3	7,699.3	10.5	27.6	-36.82	704.8	-527.6	880.4	843.6	36.76	23.949		
7,800.0	7,800.0	7,817.3	7,799.3	10.6	28.0	-36.82	704.8	-527.6	880.4	843.2	37.22	23.652		
7,900.0	7,900.0	7,917.3	7,899.3	10.8	28.3	-36.82	704.8	-527.6	880.4	842.7	37.69	23.362		
8,000.0	8,000.0	8,017.3	7,999.3	10.9	28.7	-36.82	704.8	-527.6	880.4	842.3	38.15	23.079		
8,100.0	8,100.0	8,117.3	8,099.3	11.0	29.0	-36.82	704.8	-527.6	880.4	841.8	38.61	22.802		
8,200.0	8,200.0	8,217.3	8,199.3	11.1	29.4	-36.82	704.8	-527.6	880.4	841.3	39.07	22.532		
8,300.0	8,300.0	8,317.3	8,299.3	11.3	29.7	-36.82	704.8	-527.6	880.4	840.9	39.54	22.268		
8,400.0	8,400.0	8,417.3	8,399.3	11.4	30.1	-36.82	704.8	-527.6	880.4	840.4	40.00	22.010		
8,500.0	8,500.0	8,517.3	8,499.3	11.5	30.5	-36.82	704.8	-527.6	880.4	839.9	40.46	21.758		
8,600.0	8,600.0	8,617.3	8,599.3	11.6	30.8	-36.82	704.8	-527.6	880.4	839.5	40.93	21.512		
8,700.0	8,700.0	8,717.3	8,699.3	11.8	31.2	-36.82	704.8	-527.6	880.4	839.0	41.39	21.271		
8,800.0	8,800.0	8,817.3	8,799.3	11.9	31.5	-36.82	704.8	-527.6	880.4	838.6	41.85	21.035		
8,900.0	8,900.0	8,917.3	8,899.3	12.0	31.9	-36.82	704.8	-527.6	880.4	838.1	42.32	20.804		
9,000.0	9,000.0	9,017.3	8,999.3	12.2	32.2	-36.82	704.8	-527.6	880.4	837.6	42.78	20.578		
9,100.0	9,100.0	9,117.3	9,099.3	12.3	32.6	-36.82	704.8	-527.6	880.4	837.2	43.25	20.357		
9,200.0	9,200.0	9,217.3	9,199.3	12.4	32.9	-36.82	704.8	-527.6	880.4	836.7	43.71	20.141		
9,300.0	9,300.0	9,317.3	9,299.3	12.5	33.3	-36.82	704.8	-527.6	880.4	836.2	44.18	19.929		
9,400.0	9,400.0	9,417.3	9,399.3	12.7	33.7	-36.82	704.8	-527.6	880.4	835.8	44.64	19.721		
9,500.0	9,500.0	9,517.3	9,499.3	12.8	34.0	-36.82	704.8	-527.6	880.4	835.3	45.11	19.518		
9,600.0	9,600.0	10,744.5	10,225.0	12.9	36.4	-90.17	-1.6	-525.5	817.0	774.7	42.39	19.276		
9,700.0	9,700.0	10,744.5	10,225.0	13.1	36.4	-90.17	-1.6	-525.5	743.3	700.1	43.18	17.214		
9,800.0	9,800.0	10,744.5	10,225.0	13.2	36.4	-90.17	-1.6	-525.5	676.2	632.3	43.90	15.406		
9,900.0	9,900.0	10,744.5	10,225.0	13.3	36.4	-90.17	-1.6	-525.5	618.2	573.8	44.41	13.919		
10,000.0	10,000.0	10,744.5	10,225.0	13.4	36.4	-90.17	-1.6	-525.5	571.9	527.3	44.59	12.825		
10,100.0	10,100.0	10,744.5	10,225.0	13.6	36.4	-90.17	-1.6	-525.5	540.3	495.9	44.39	12.172		
10,200.0	10,200.0	10,744.5	10,225.0	13.7	36.4	-90.17	-1.6	-525.5	526.1	482.0	44.12	11.923		
10,225.7	10,225.7	10,744.5	10,225.0	13.7	36.4	-90.17	-1.6	-525.5	525.5	481.3	44.12	11.909 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
10,300.0	10,300.0	10,744.5	10,225.0	13.8	36.4	-90.17	-1.6	-525.5	530.7	486.4	44.33	11.971	
10,400.0	10,400.0	10,744.5	10,225.0	14.0	36.4	-90.17	-1.6	-525.5	553.6	508.7	44.91	12.327	
10,500.0	10,500.0	10,744.5	10,225.0	14.1	36.4	-90.17	-1.6	-525.5	592.8	547.4	45.39	13.060	
10,600.0	10,600.0	10,744.5	10,225.0	14.2	36.4	-90.17	-1.6	-525.5	645.2	599.6	45.60	14.150	
10,700.0	10,700.0	10,744.5	10,225.0	14.3	36.4	-90.17	-1.6	-525.5	707.9	662.3	45.60	15.525	
10,800.0	10,800.0	10,744.5	10,225.0	14.5	36.4	-90.17	-1.6	-525.5	778.4	732.9	45.50	17.107	
10,900.0	10,900.0	10,744.5	10,225.0	14.6	36.4	-90.17	-1.6	-525.5	854.9	809.5	45.39	18.833	
11,000.0	11,000.0	10,744.5	10,225.0	14.7	36.4	-90.17	-1.6	-525.5	935.8	890.5	45.31	20.654	

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-54.18	356.0	-493.1	608.2					
100.0	100.0	98.6	98.6	3.0	3.0	-54.18	356.0	-493.1	608.2	602.2	6.00	101.357		
200.0	200.0	198.6	198.6	3.0	3.0	-54.18	356.0	-493.1	608.2	602.2	6.01	101.270		
300.0	300.0	298.6	298.6	3.0	3.0	-54.18	356.0	-493.1	608.2	602.2	6.02	101.081		
400.0	400.0	398.6	398.6	3.0	3.0	-54.18	356.0	-493.1	608.2	602.1	6.03	100.791		
500.0	500.0	498.6	498.6	3.1	3.1	-54.18	356.0	-493.1	608.2	602.1	6.06	100.403		
600.0	600.0	598.6	598.6	3.1	3.1	-54.18	356.0	-493.1	608.2	602.1	6.09	99.921		
700.0	700.0	698.6	698.6	3.1	3.1	-54.18	356.0	-493.1	608.2	602.1	6.12	99.349		
800.0	800.0	798.6	798.6	3.2	3.2	-54.18	356.0	-493.1	608.2	602.0	6.16	98.690		
900.0	900.0	898.6	898.6	3.2	3.2	-54.18	356.0	-493.1	608.2	602.0	6.21	97.952		
1,000.0	1,000.0	998.6	998.6	3.2	3.2	-54.18	356.0	-493.1	608.2	601.9	6.26	97.139		
1,100.0	1,100.0	1,098.6	1,098.6	3.3	3.3	-54.18	356.0	-493.1	608.2	601.9	6.32	96.257		
1,200.0	1,200.0	1,198.6	1,198.6	3.4	3.4	-54.18	356.0	-493.1	608.2	601.8	6.38	95.313		
1,300.0	1,300.0	1,298.6	1,298.6	3.4	3.4	-54.18	356.0	-493.1	608.2	601.7	6.45	94.313		
1,400.0	1,400.0	1,398.6	1,398.6	3.5	3.5	-54.18	356.0	-493.1	608.2	601.7	6.52	93.264		
1,500.0	1,500.0	1,498.6	1,498.6	3.5	3.5	-54.18	356.0	-493.1	608.2	601.6	6.60	92.171		
1,600.0	1,600.0	1,598.6	1,598.6	3.6	3.6	-54.18	356.0	-493.1	608.2	601.5	6.68	91.041		
1,700.0	1,700.0	1,698.6	1,698.6	3.7	3.7	-54.18	356.0	-493.1	608.2	601.4	6.77	89.879		
1,800.0	1,800.0	1,798.6	1,798.6	3.8	3.8	-54.18	356.0	-493.1	608.2	601.3	6.86	88.692		
1,900.0	1,900.0	1,898.6	1,898.6	3.9	3.9	-54.18	356.0	-493.1	608.2	601.2	6.95	87.484		
2,000.0	2,000.0	1,998.6	1,998.6	3.9	3.9	-54.18	356.0	-493.1	608.2	601.1	7.05	86.260		
2,100.0	2,100.0	2,098.6	2,098.6	4.0	4.0	-54.18	356.0	-493.1	608.2	601.0	7.15	85.025		
2,200.0	2,200.0	2,198.6	2,198.6	4.1	4.1	-54.18	356.0	-493.1	608.2	600.9	7.26	83.784		
2,300.0	2,300.0	2,298.6	2,298.6	4.2	4.2	-54.18	356.0	-493.1	608.2	600.8	7.37	82.540		
2,400.0	2,400.0	2,398.6	2,398.6	4.3	4.3	-54.18	356.0	-493.1	608.2	600.7	7.48	81.296		
2,500.0	2,500.0	2,498.6	2,498.6	4.4	4.4	-54.18	356.0	-493.1	608.2	600.6	7.60	80.056		
2,600.0	2,600.0	2,622.5	2,622.5	4.5	4.5	-54.08	355.4	-490.6	606.2	598.6	7.68	78.910		
2,700.0	2,700.0	2,746.3	2,746.0	4.6	4.5	-53.78	353.6	-482.8	600.3	592.6	7.74	77.567		
2,800.0	2,800.0	2,847.0	2,846.3	4.7	4.5	-53.45	351.6	-474.2	592.3	584.4	7.81	75.796		
2,900.0	2,900.0	2,946.6	2,945.6	4.8	4.5	-53.10	349.6	-465.7	584.2	576.3	7.89	74.013		
3,000.0	3,000.0	3,046.3	3,044.8	4.9	4.6	-52.75	347.7	-457.1	576.2	568.2	7.98	72.217		
3,100.0	3,100.0	3,145.9	3,144.0	5.0	4.6	-52.38	345.7	-448.6	568.2	560.1	8.07	70.412		
3,200.0	3,200.0	3,245.5	3,243.2	5.1	4.6	-52.01	343.7	-440.1	560.2	552.0	8.17	68.602		
3,300.0	3,300.0	3,345.1	3,342.5	5.2	4.7	-51.62	341.8	-431.6	552.2	544.0	8.27	66.794		
3,400.0	3,400.0	3,444.7	3,441.7	5.3	4.7	-51.23	339.8	-423.0	544.3	535.9	8.38	64.990		
3,500.0	3,500.0	3,544.3	3,540.9	5.4	4.7	-50.82	337.8	-414.5	536.4	527.9	8.49	63.196		
3,600.0	3,600.0	3,643.9	3,640.2	5.5	4.8	-50.40	335.9	-406.0	528.5	519.9	8.61	61.415		
3,700.0	3,700.0	3,743.5	3,739.4	5.7	4.9	-49.97	333.9	-397.4	520.7	511.9	8.73	59.650		
3,800.0	3,800.0	3,843.2	3,838.6	5.8	4.9	-49.52	331.9	-388.9	512.9	504.0	8.86	57.904		
3,900.0	3,900.0	3,942.8	3,937.8	5.9	5.0	-49.06	329.9	-380.4	505.1	496.1	8.99	56.181		
4,000.0	4,000.0	4,042.4	4,037.1	6.0	5.0	-48.59	328.0	-371.9	497.3	488.2	9.13	54.483		
4,100.0	4,100.0	4,142.0	4,136.3	6.1	5.1	-48.10	326.0	-363.3	489.6	480.3	9.27	52.812		
4,200.0	4,200.0	4,241.6	4,235.5	6.2	5.2	-47.59	324.0	-354.8	481.9	472.5	9.42	51.170		
4,300.0	4,300.0	4,341.2	4,334.7	6.3	5.2	-47.07	322.1	-346.3	474.3	464.7	9.57	49.558		
4,400.0	4,400.0	4,440.8	4,434.0	6.5	5.3	-46.53	320.1	-337.7	466.7	457.0	9.73	47.979		
4,500.0	4,500.0	4,540.4	4,533.2	6.6	5.4	-45.98	318.1	-329.2	459.1	449.2	9.89	46.434		
4,600.0	4,600.0	4,640.1	4,632.4	6.7	5.5	-45.41	316.2	-320.7	451.6	441.5	10.05	44.922		
4,700.0	4,700.0	4,739.7	4,731.7	6.8	5.5	-44.81	314.2	-312.1	444.1	433.9	10.22	43.446		
4,800.0	4,800.0	4,839.3	4,830.9	6.9	5.6	-44.20	312.2	-303.6	436.7	426.3	10.40	42.005		
4,900.0	4,900.0	4,938.9	4,930.1	7.0	5.7	-43.56	310.3	-295.1	429.3	418.8	10.57	40.601		
5,000.0	5,000.0	5,038.5	5,029.3	7.2	5.8	-42.91	308.3	-286.6	422.0	411.3	10.76	39.232		
5,100.0	5,100.0	5,138.1	5,128.6	7.3	5.9	-42.23	306.3	-278.0	414.8	403.8	10.94	37.901		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,200.0	5,237.7	5,227.8	7.4	6.0	-41.52		304.4	-269.5	407.6	396.4	11.13	36.605	
5,300.0	5,300.0	5,337.4	5,327.0	7.5	6.1	-40.79		302.4	-261.0	400.5	389.1	11.33	35.347	
5,400.0	5,400.0	5,437.0	5,426.3	7.6	6.1	-40.04		300.4	-252.4	393.4	381.9	11.53	34.124	
5,500.0	5,500.0	5,536.6	5,525.5	7.8	6.2	-39.26		298.5	-243.9	386.4	374.7	11.73	32.938	
5,600.0	5,600.0	5,636.2	5,624.7	7.9	6.3	-38.45		296.5	-235.4	379.5	367.5	11.94	31.787	
5,700.0	5,700.0	5,735.8	5,723.9	8.0	6.4	-37.60		294.5	-226.9	372.6	360.5	12.15	30.672	
5,800.0	5,800.0	5,835.4	5,823.2	8.1	6.5	-36.73		292.6	-218.3	365.9	353.5	12.36	29.593	
5,900.0	5,900.0	5,935.0	5,922.4	8.3	6.6	-35.83		290.6	-209.8	359.2	346.6	12.58	28.548	
6,000.0	6,000.0	6,034.6	6,021.6	8.4	6.7	-34.89		288.6	-201.3	352.6	339.8	12.81	27.537	
6,100.0	6,100.0	6,134.3	6,120.9	8.5	6.8	-33.92		286.7	-192.7	346.1	333.1	13.03	26.560	
6,200.0	6,200.0	6,233.9	6,220.1	8.6	6.9	-32.91		284.7	-184.2	339.8	326.5	13.26	25.617	
6,300.0	6,300.0	6,333.5	6,319.3	8.7	7.0	-31.86		282.7	-175.7	333.5	320.0	13.50	24.707	
6,400.0	6,400.0	6,433.1	6,418.5	8.9	7.1	-30.77		280.8	-167.2	327.4	313.6	13.74	23.830	
6,500.0	6,500.0	6,532.7	6,517.8	9.0	7.2	-29.64		278.8	-158.6	321.3	307.3	13.98	22.984	
6,600.0	6,600.0	6,632.3	6,617.0	9.1	7.3	-28.47		276.8	-150.1	315.4	301.2	14.23	22.171	
6,700.0	6,700.0	6,731.9	6,716.2	9.2	7.4	-27.25		274.9	-141.6	309.7	295.2	14.48	21.389	
6,800.0	6,800.0	6,831.6	6,815.4	9.4	7.5	-25.99		272.9	-133.0	304.1	289.3	14.73	20.639	
6,900.0	6,900.0	6,931.2	6,914.7	9.5	7.6	-24.68		270.9	-124.5	298.6	283.6	14.99	19.919	
7,000.0	7,000.0	7,030.8	7,013.9	9.6	7.8	-23.33		269.0	-116.0	293.3	278.0	15.25	19.230	
7,100.0	7,100.0	7,130.4	7,113.1	9.7	7.9	-21.92		267.0	-107.4	288.2	272.6	15.52	18.571	
7,200.0	7,200.0	7,230.0	7,212.4	9.9	8.0	-20.47		265.0	-98.9	283.2	267.4	15.79	17.941	
7,300.0	7,300.0	7,329.6	7,311.6	10.0	8.1	-18.96		263.0	-90.4	278.4	262.4	16.06	17.342	
7,400.0	7,400.0	7,429.2	7,410.8	10.1	8.2	-17.41		261.1	-81.9	273.9	257.6	16.33	16.771	
7,500.0	7,500.0	7,528.8	7,510.0	10.3	8.3	-15.80		259.1	-73.3	269.5	252.9	16.61	16.230	
7,600.0	7,600.0	7,628.5	7,609.3	10.4	8.4	-14.14		257.1	-64.8	265.4	248.5	16.89	15.718	
7,700.0	7,700.0	7,728.1	7,708.5	10.5	8.5	-12.44		255.2	-56.3	261.5	244.3	17.16	15.234	
7,800.0	7,800.0	7,827.7	7,807.7	10.6	8.6	-10.68		253.2	-47.7	257.8	240.4	17.45	14.779	
7,900.0	7,900.0	7,927.3	7,907.0	10.8	8.8	-8.87		251.2	-39.2	254.4	236.7	17.73	14.352	
8,000.0	8,000.0	8,026.9	8,006.2	10.9	8.9	-7.02		249.3	-30.7	251.3	233.3	18.01	13.954	
8,100.0	8,100.0	8,126.5	8,105.4	11.0	9.0	-5.12		247.3	-22.2	248.4	230.1	18.29	13.583	
8,200.0	8,200.0	8,226.1	8,204.6	11.1	9.1	-3.18		245.3	-13.6	245.8	227.2	18.57	13.239	
8,300.0	8,300.0	8,325.7	8,303.9	11.3	9.2	-1.20		243.4	-5.1	243.5	224.6	18.84	12.923	
8,400.0	8,400.0	8,425.4	8,403.1	11.4	9.3	0.81		241.4	3.4	241.5	222.4	19.11	12.634	
8,500.0	8,500.0	8,525.0	8,502.3	11.5	9.4	2.86		239.4	12.0	239.8	220.4	19.38	12.372	
8,600.0	8,600.0	8,624.6	8,601.5	11.6	9.6	4.93		237.5	20.5	238.4	218.7	19.64	12.136	
8,700.0	8,700.0	8,724.2	8,700.8	11.8	9.7	7.02		235.5	29.0	237.3	217.4	19.90	11.926	
8,800.0	8,800.0	8,823.8	8,800.0	11.9	9.8	9.13		233.5	37.5	236.5	216.4	20.15	11.741	
8,900.0	8,900.0	8,923.4	8,899.2	12.0	9.9	11.25		231.6	46.1	236.1	215.7	20.39	11.581	
8,981.8	8,981.8	9,004.9	8,980.4	12.1	10.0	12.99		230.0	53.1	236.0	215.4	20.58	11.469	
9,000.0	9,000.0	9,023.0	8,998.5	12.2	10.0	13.38		229.6	54.6	236.0	215.4	20.62	11.446	
9,100.0	9,100.0	9,122.7	9,097.7	12.3	10.2	15.50		227.6	63.1	236.2	215.4	20.84	11.334	
9,200.0	9,200.0	9,222.3	9,196.9	12.4	10.3	17.62		225.7	71.7	236.8	215.7	21.06	11.245	
9,300.0	9,300.0	9,321.9	9,296.1	12.5	10.4	19.72		223.7	80.2	237.6	216.4	21.26	11.178	
9,400.0	9,400.0	9,421.5	9,395.4	12.7	10.5	21.81		221.7	88.7	238.8	217.4	21.45	11.132	
9,500.0	9,500.0	9,521.1	9,494.6	12.8	10.6	23.87		219.8	97.2	240.3	218.7	21.64	11.107	
9,600.0	9,600.0	9,620.7	9,593.8	12.9	10.7	25.91		217.8	105.8	242.2	220.4	21.81	11.101	
9,700.0	9,700.0	9,720.3	9,693.1	13.1	10.9	27.91		215.8	114.3	244.3	222.3	21.98	11.114	
9,800.0	9,800.0	9,832.7	9,804.9	13.2	11.0	30.34		212.3	124.3	246.1	224.0	22.12	11.129	
9,900.0	9,900.0	9,976.3	9,942.5	13.3	11.0	39.05		178.9	145.1	234.5	211.8	22.64	10.355	
10,000.0	10,000.0	10,090.2	10,039.8	13.4	11.1	53.42		125.1	168.6	214.0	192.0	21.99	9.729 SF	
10,100.0	10,100.0	10,173.8	10,100.9	13.6	11.2	69.11		72.2	189.0	202.3	182.6	19.78	10.231 ES	
10,104.4	10,104.4	10,176.9	10,103.0	13.6	11.2	69.76		70.0	189.8	202.3	182.6	19.71	10.265 CC	

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
10,200.0	10,200.0	10,234.3	10,138.6	13.7	11.2	82.31	27.7	205.0	215.4	194.7	20.75	10.381		
10,300.0	10,300.0	10,278.7	10,162.4	13.8	11.3	92.06	-7.8	217.3	256.6	231.2	25.45	10.081		
10,400.0	10,400.0	10,312.3	10,177.9	14.0	11.4	99.02	-36.0	226.8	318.5	288.7	29.78	10.694		
10,500.0	10,500.0	10,338.3	10,188.5	14.1	11.4	104.03	-58.5	234.2	393.0	360.2	32.82	11.975		
10,600.0	10,600.0	10,358.9	10,196.0	14.2	11.5	107.73	-76.8	240.2	475.1	440.2	34.91	13.607		
10,700.0	10,700.0	10,375.0	10,201.2	14.3	11.5	110.45	-91.3	244.8	561.8	525.4	36.44	15.419		
10,800.0	10,800.0	10,389.3	10,205.5	14.5	11.5	112.72	-104.3	249.0	651.7	614.1	37.59	17.336		
10,900.0	10,900.0	10,400.0	10,208.4	14.6	11.6	114.35	-114.1	252.1	743.6	705.1	38.53	19.298		
11,000.0	11,000.0	10,410.5	10,211.0	14.7	11.6	115.89	-123.8	255.2	837.1	797.8	39.31	21.292		
11,100.0	11,100.0	10,425.0	10,214.3	14.9	11.6	117.90	-137.3	259.3	931.7	891.8	39.96	23.318		

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

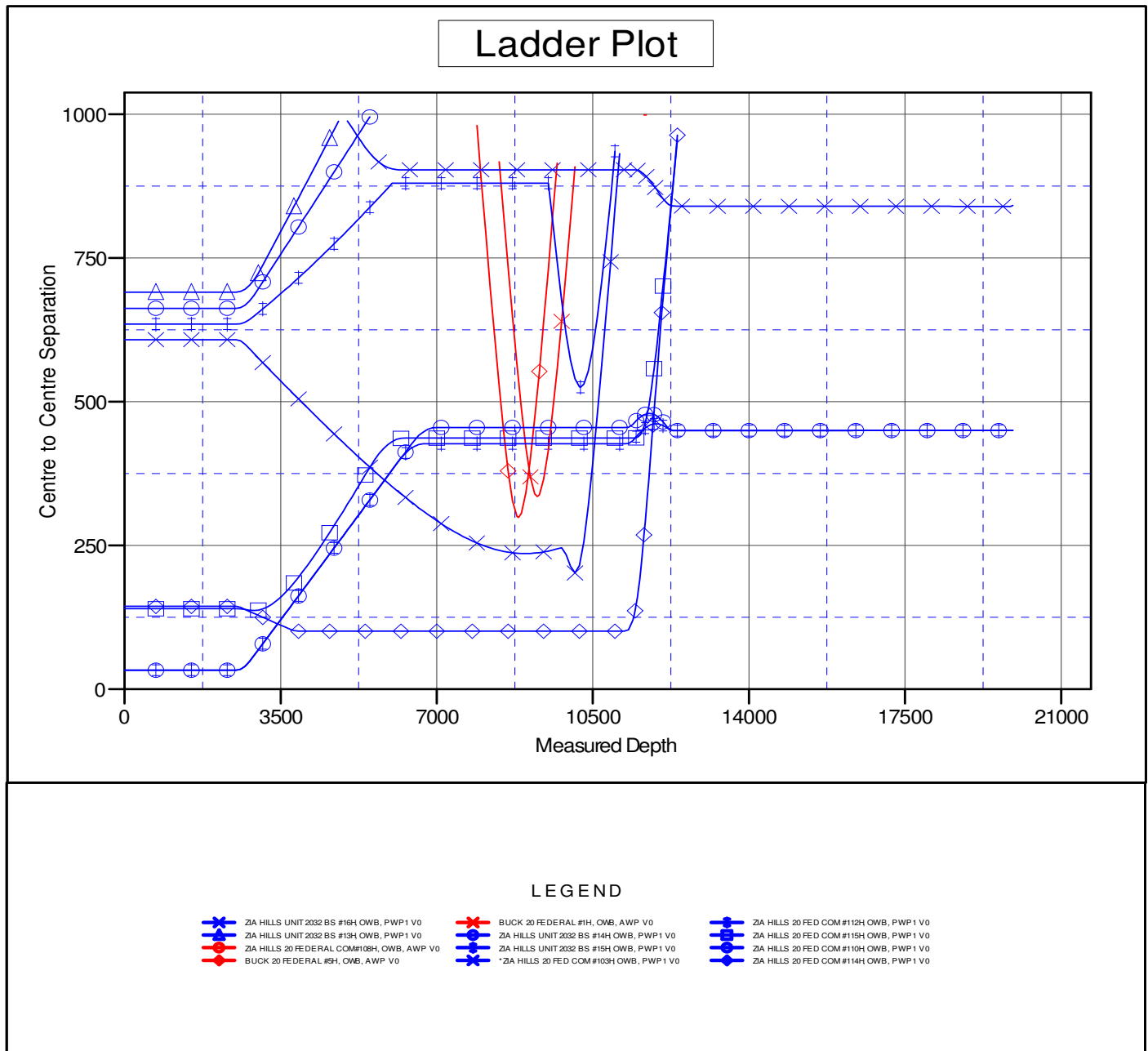
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=31' @ 3173.2usft (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 #111H
 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

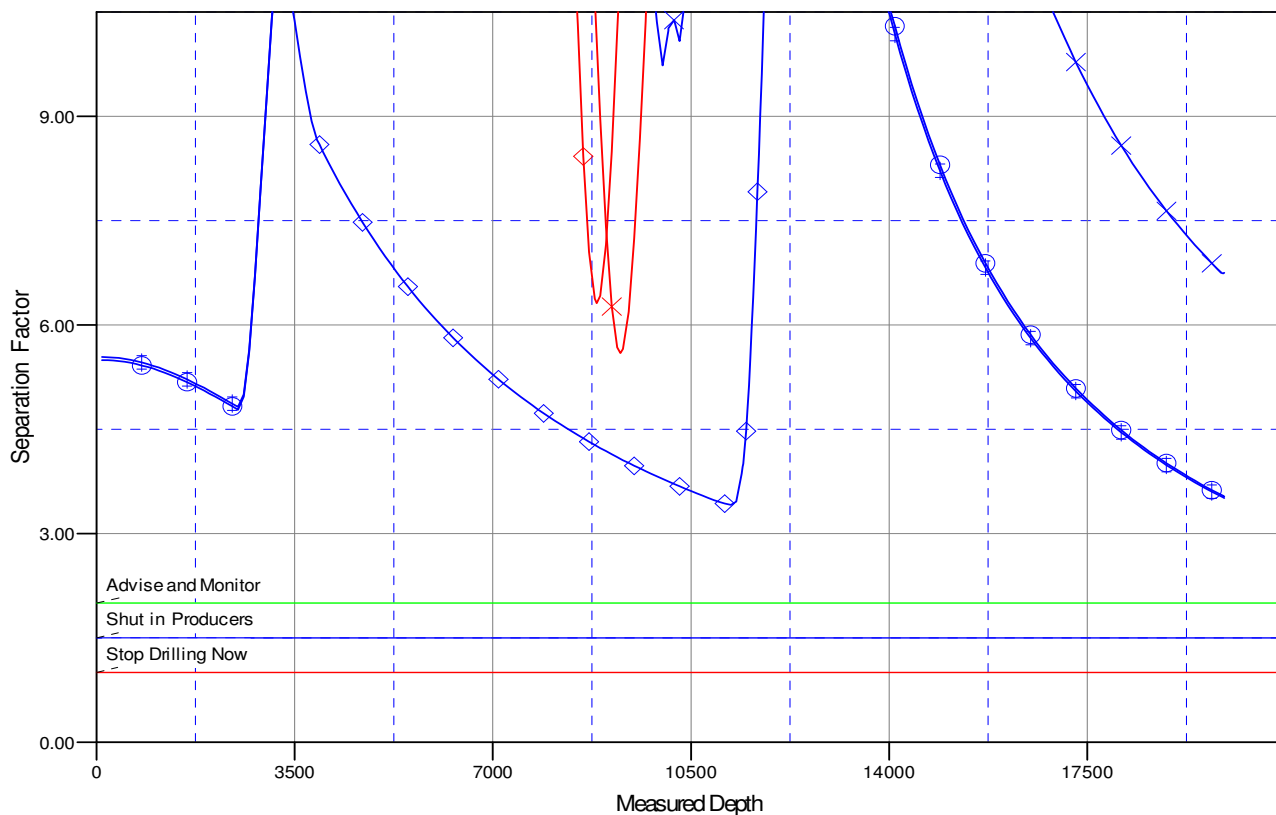
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #111H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=31' @ 3173.2usft (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 #111H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

- ZIA HILLS UNIT 2022 BS #16H OWB, PWP1 V0 - ZIA HILLS UNIT 2022 BS #13H OWB, PWP1 V0 - ZIA HILLS 20 FEDERAL COMM108H, OWB, AWP V0 - BUCK 20 FEDERAL #9H, OWB, AWP V0	- BUCK 20 FEDERAL #1H, OWB, AWP V0 - ZIA HILLS UNIT 2022 BS #14H OWB, PWP1 V0 - ZIA HILLS UNIT 2022 BS #15H OWB, PWP1 V0 *ZIA HILLS 20 FED COM #103H OWB, PWP1 V0	- ZIA HILLS 20 FED COM #112H OWB, PWP1 V0 - ZIA HILLS 20 FED COM #115H OWB, PWP1 V0 - ZIA HILLS 20 FED COM #110H OWB, PWP1 V0 - ZIA HILLS 20 FED COM #114H OWB, PWP1 V0
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DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS 20 FED COM PROJECT

ZIA HILLS 20 FED COM #111H

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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Well:	ZIA HILLS 20 FED COM #111H	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 #111H		
Well Position	+N/-S	0.0 usft	Northing: 374,270.12 usft
	+E/-W	0.0 usft	Easting: 699,220.20 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 38.473 N
		Longitude:	103° 41' 25.770 W
		Ground Level:	3,142.2 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	2/17/2022	6.46	59.59	47,442.91610375

Design	PWP1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.54

Survey Tool Program	Date	4/4/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	11,417.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,417.0	19,919.4	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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Well:	ZIA HILLS 20 FED COM #111H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Well:	ZIA HILLS 20 FED COM #111H	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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	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 #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Well:	ZIA HILLS 20 FED COM #111H	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)
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,100.0	0.0	0.0	0.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,200.0	0.0	0.0	0.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,300.0	0.0	0.0	0.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,400.0	0.0	0.0	0.0	0.00	0.00	0.00
11,416.5	0.00	0.00	11,416.5	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 12.00									
11,500.0	10.02	358.00	11,499.6	7.3	-0.3	7.3	12.00	12.00	0.00
11,600.0	22.02	358.00	11,595.5	34.8	-1.2	34.8	12.00	12.00	0.00
11,700.0	34.02	358.00	11,683.6	81.7	-2.9	81.7	12.00	12.00	0.00
11,800.0	46.02	358.00	11,760.1	145.8	-5.1	145.9	12.00	12.00	0.00
11,900.0	58.02	358.00	11,821.5	224.5	-7.8	224.5	12.00	12.00	0.00
12,000.0	70.02	358.00	11,865.2	314.1	-11.0	314.2	12.00	12.00	0.00
12,100.0	82.02	358.00	11,889.3	410.9	-14.3	411.0	12.00	12.00	0.00
12,166.5	90.00	358.00	11,894.0	477.2	-16.7	477.3	12.00	12.00	0.00
Start DLS 4.00 TFO 90.01									
12,200.0	90.00	359.34	11,894.0	510.7	-17.4	510.8	4.00	0.00	4.00
12,207.4	90.00	359.64	11,894.0	518.1	-17.5	518.2	4.00	0.00	4.00
Start 7712.0 hold at 12207.4 MD									
12,300.0	90.00	359.64	11,894.0	610.7	-18.1	610.8	0.00	0.00	0.00
12,400.0	90.00	359.64	11,894.0	710.7	-18.7	710.8	0.00	0.00	0.00
12,500.0	90.00	359.64	11,894.0	810.7	-19.4	810.8	0.00	0.00	0.00
12,600.0	90.00	359.64	11,894.0	910.7	-20.0	910.8	0.00	0.00	0.00
12,700.0	90.00	359.64	11,894.0	1,010.7	-20.6	1,010.8	0.00	0.00	0.00
12,800.0	90.00	359.64	11,894.0	1,110.7	-21.3	1,110.8	0.00	0.00	0.00
12,900.0	90.00	359.64	11,894.0	1,210.6	-21.9	1,210.8	0.00	0.00	0.00
13,000.0	90.00	359.64	11,894.0	1,310.6	-22.5	1,310.8	0.00	0.00	0.00
13,100.0	90.00	359.64	11,894.0	1,410.6	-23.2	1,410.8	0.00	0.00	0.00
13,200.0	90.00	359.64	11,894.0	1,510.6	-23.8	1,510.8	0.00	0.00	0.00
13,300.0	90.00	359.64	11,894.0	1,610.6	-24.4	1,610.8	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Well:	ZIA HILLS 20 FED COM #111H	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)
13,400.0	90.00	359.64	11,894.0	1,710.6	-25.1	1,710.8	0.00	0.00	0.00
13,500.0	90.00	359.64	11,894.0	1,810.6	-25.7	1,810.8	0.00	0.00	0.00
13,600.0	90.00	359.64	11,894.0	1,910.6	-26.3	1,910.8	0.00	0.00	0.00
13,700.0	90.00	359.64	11,894.0	2,010.6	-27.0	2,010.8	0.00	0.00	0.00
13,800.0	90.00	359.64	11,894.0	2,110.6	-27.6	2,110.8	0.00	0.00	0.00
13,900.0	90.00	359.64	11,894.0	2,210.6	-28.2	2,210.8	0.00	0.00	0.00
14,000.0	90.00	359.64	11,894.0	2,310.6	-28.9	2,310.8	0.00	0.00	0.00
14,100.0	90.00	359.64	11,894.0	2,410.6	-29.5	2,410.8	0.00	0.00	0.00
14,200.0	90.00	359.64	11,894.0	2,510.6	-30.1	2,510.8	0.00	0.00	0.00
14,300.0	90.00	359.64	11,894.0	2,610.6	-30.8	2,610.8	0.00	0.00	0.00
14,400.0	90.00	359.64	11,894.0	2,710.6	-31.4	2,710.8	0.00	0.00	0.00
14,500.0	90.00	359.64	11,894.0	2,810.6	-32.0	2,810.8	0.00	0.00	0.00
14,600.0	90.00	359.64	11,894.0	2,910.6	-32.7	2,910.8	0.00	0.00	0.00
14,700.0	90.00	359.64	11,894.0	3,010.6	-33.3	3,010.8	0.00	0.00	0.00
14,800.0	90.00	359.64	11,894.0	3,110.6	-33.9	3,110.8	0.00	0.00	0.00
14,900.0	90.00	359.64	11,894.0	3,210.6	-34.6	3,210.8	0.00	0.00	0.00
15,000.0	90.00	359.64	11,894.0	3,310.6	-35.2	3,310.8	0.00	0.00	0.00
15,100.0	90.00	359.64	11,894.0	3,410.6	-35.8	3,410.8	0.00	0.00	0.00
15,200.0	90.00	359.64	11,894.0	3,510.6	-36.5	3,510.8	0.00	0.00	0.00
15,300.0	90.00	359.64	11,894.0	3,610.6	-37.1	3,610.8	0.00	0.00	0.00
15,400.0	90.00	359.64	11,894.0	3,710.6	-37.8	3,710.8	0.00	0.00	0.00
15,500.0	90.00	359.64	11,894.0	3,810.6	-38.4	3,810.8	0.00	0.00	0.00
15,600.0	90.00	359.64	11,894.0	3,910.6	-39.0	3,910.8	0.00	0.00	0.00
15,700.0	90.00	359.64	11,894.0	4,010.6	-39.7	4,010.8	0.00	0.00	0.00
15,800.0	90.00	359.64	11,894.0	4,110.6	-40.3	4,110.8	0.00	0.00	0.00
15,900.0	90.00	359.64	11,894.0	4,210.6	-40.9	4,210.8	0.00	0.00	0.00
16,000.0	90.00	359.64	11,894.0	4,310.6	-41.6	4,310.8	0.00	0.00	0.00
16,100.0	90.00	359.64	11,894.0	4,410.6	-42.2	4,410.8	0.00	0.00	0.00
16,200.0	90.00	359.64	11,894.0	4,510.6	-42.8	4,510.8	0.00	0.00	0.00
16,300.0	90.00	359.64	11,894.0	4,610.6	-43.5	4,610.8	0.00	0.00	0.00
16,400.0	90.00	359.64	11,894.0	4,710.6	-44.1	4,710.8	0.00	0.00	0.00
16,500.0	90.00	359.64	11,894.0	4,810.6	-44.7	4,810.8	0.00	0.00	0.00
16,600.0	90.00	359.64	11,894.0	4,910.6	-45.4	4,910.8	0.00	0.00	0.00
16,700.0	90.00	359.64	11,894.0	5,010.6	-46.0	5,010.8	0.00	0.00	0.00
16,800.0	90.00	359.64	11,894.0	5,110.6	-46.6	5,110.8	0.00	0.00	0.00
16,900.0	90.00	359.64	11,894.0	5,210.6	-47.3	5,210.8	0.00	0.00	0.00
17,000.0	90.00	359.64	11,894.0	5,310.6	-47.9	5,310.8	0.00	0.00	0.00
17,100.0	90.00	359.64	11,894.0	5,410.6	-48.5	5,410.8	0.00	0.00	0.00
17,200.0	90.00	359.64	11,894.0	5,510.6	-49.2	5,510.8	0.00	0.00	0.00
17,300.0	90.00	359.64	11,894.0	5,610.6	-49.8	5,610.8	0.00	0.00	0.00
17,400.0	90.00	359.64	11,894.0	5,710.6	-50.4	5,710.8	0.00	0.00	0.00
17,500.0	90.00	359.64	11,894.0	5,810.6	-51.1	5,810.8	0.00	0.00	0.00
17,600.0	90.00	359.64	11,894.0	5,910.6	-51.7	5,910.8	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Well:	ZIA HILLS 20 FED COM #111H	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)
17,700.0	90.00	359.64	11,894.0	6,010.6	-52.3	6,010.8	0.00	0.00	0.00
17,800.0	90.00	359.64	11,894.0	6,110.6	-53.0	6,110.8	0.00	0.00	0.00
17,900.0	90.00	359.64	11,894.0	6,210.5	-53.6	6,210.8	0.00	0.00	0.00
18,000.0	90.00	359.64	11,894.0	6,310.5	-54.2	6,310.8	0.00	0.00	0.00
18,100.0	90.00	359.64	11,894.0	6,410.5	-54.9	6,410.8	0.00	0.00	0.00
18,200.0	90.00	359.64	11,894.0	6,510.5	-55.5	6,510.8	0.00	0.00	0.00
18,300.0	90.00	359.64	11,894.0	6,610.5	-56.1	6,610.8	0.00	0.00	0.00
18,400.0	90.00	359.64	11,894.0	6,710.5	-56.8	6,710.8	0.00	0.00	0.00
18,500.0	90.00	359.64	11,894.0	6,810.5	-57.4	6,810.8	0.00	0.00	0.00
18,600.0	90.00	359.64	11,894.0	6,910.5	-58.0	6,910.8	0.00	0.00	0.00
18,700.0	90.00	359.64	11,894.0	7,010.5	-58.7	7,010.8	0.00	0.00	0.00
18,800.0	90.00	359.64	11,894.0	7,110.5	-59.3	7,110.8	0.00	0.00	0.00
18,900.0	90.00	359.64	11,894.0	7,210.5	-59.9	7,210.8	0.00	0.00	0.00
19,000.0	90.00	359.64	11,894.0	7,310.5	-60.6	7,310.8	0.00	0.00	0.00
19,100.0	90.00	359.64	11,894.0	7,410.5	-61.2	7,410.8	0.00	0.00	0.00
19,200.0	90.00	359.64	11,894.0	7,510.5	-61.8	7,510.8	0.00	0.00	0.00
19,300.0	90.00	359.64	11,894.0	7,610.5	-62.5	7,610.8	0.00	0.00	0.00
19,400.0	90.00	359.64	11,894.0	7,710.5	-63.1	7,710.8	0.00	0.00	0.00
19,500.0	90.00	359.64	11,894.0	7,810.5	-63.8	7,810.8	0.00	0.00	0.00
19,600.0	90.00	359.64	11,894.0	7,910.5	-64.4	7,910.8	0.00	0.00	0.00
19,700.0	90.00	359.64	11,894.0	8,010.5	-65.0	8,010.8	0.00	0.00	0.00
19,800.0	90.00	359.64	11,894.0	8,110.5	-65.7	8,110.8	0.00	0.00	0.00
19,900.0	90.00	359.64	11,894.0	8,210.5	-66.3	8,210.8	0.00	0.00	0.00
19,919.4	90.00	359.64	11,894.0	8,229.9	-66.4	8,230.1	0.00	0.00	0.00
TD at 19919.4									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL(ZIA HILLS 20 F - plan hits target center - Rectangle (sides W100.0 H7,655.0 D20.0)	0.00	179.64	11,894.0	8,229.9	-66.4	382,500.00	699,153.79	32° 2' 59.920 N	103° 41' 25.972 W
LTP(ZIA HILLS 20 FE - plan hits target center - Point	0.00	0.01	11,894.0	8,179.9	-66.0	382,450.00	699,154.15	32° 2' 59.425 N	103° 41' 25.971 W
FTP(ZIA HILLS 20 FE - plan misses target center by 0.2usft at 12315.0usft MD (11894.0 TVD, 625.7 N, -18.2 E) - Circle (radius 50.0)	0.00	0.00	11,894.0	625.7	-18.4	374,895.78	699,201.78	32° 1' 44.665 N	103° 41' 25.940 W

ConocoPhillips
Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #111H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3173.2usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3173.2usft (N 894)
Well:	ZIA HILLS 20 FED COM #111H	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)	
11,417	11,417	0	0	Start Build 12.00
12,166	11,894	477	-17	Start DLS 4.00 TFO 90.01
12,207	11,894	518	-18	Start 7712.0 hold at 12207.4 MD
19,919	11,894	8230	-66	TD at 19919.4

Checked By: _____

Approved By: _____

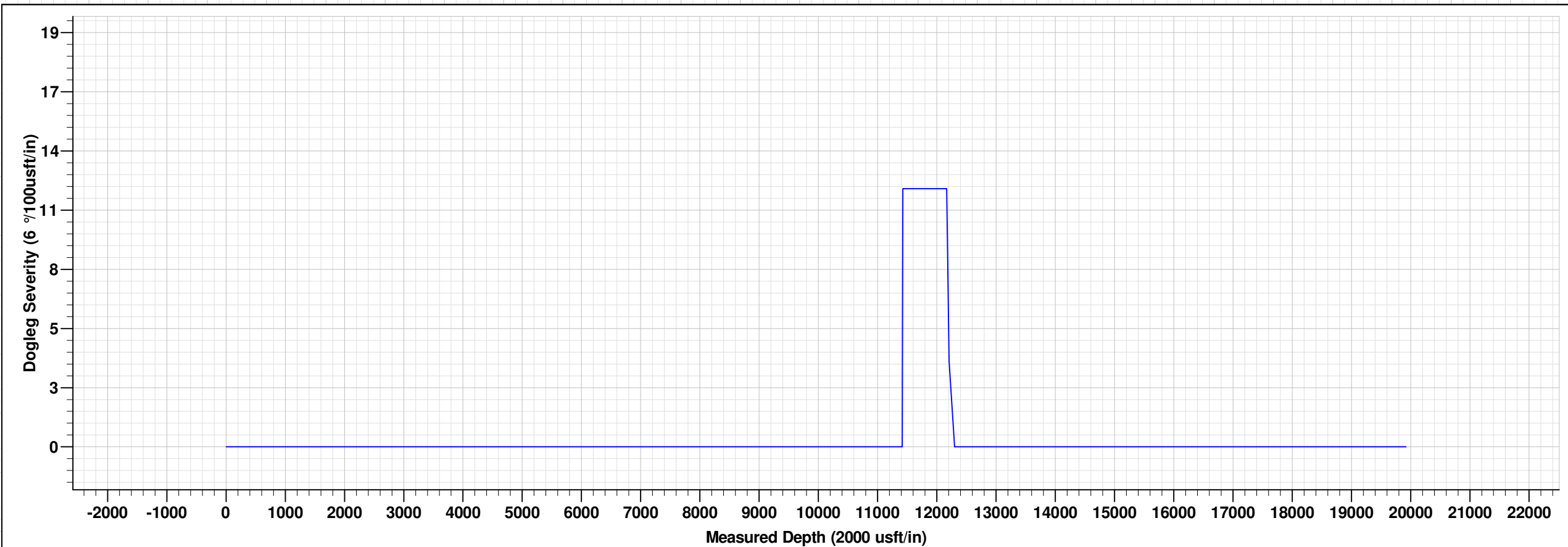
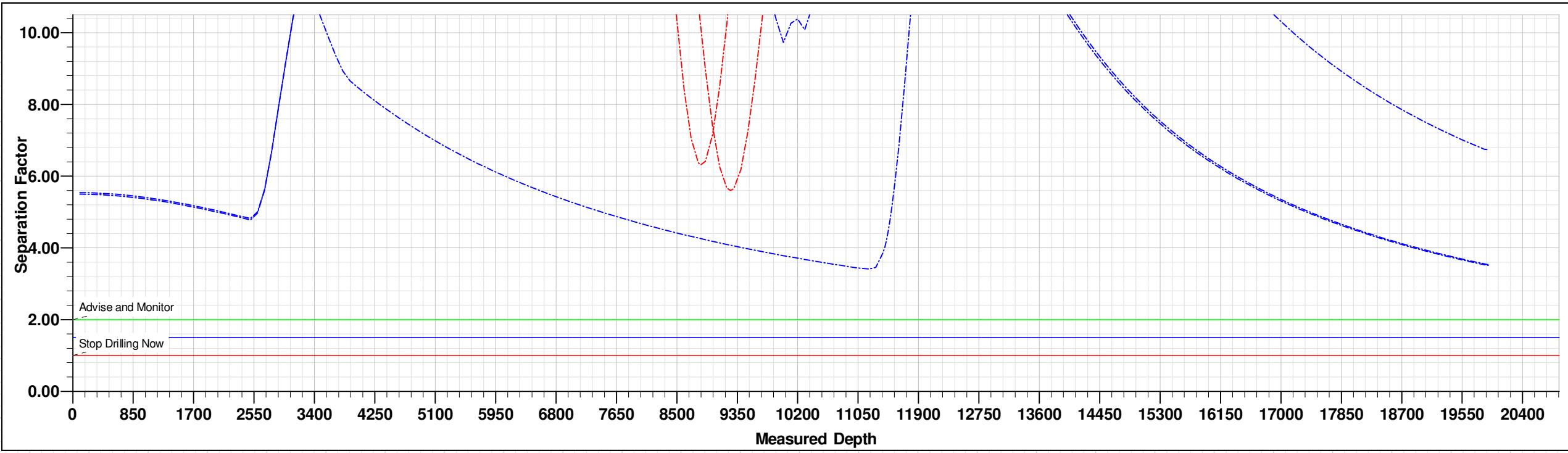
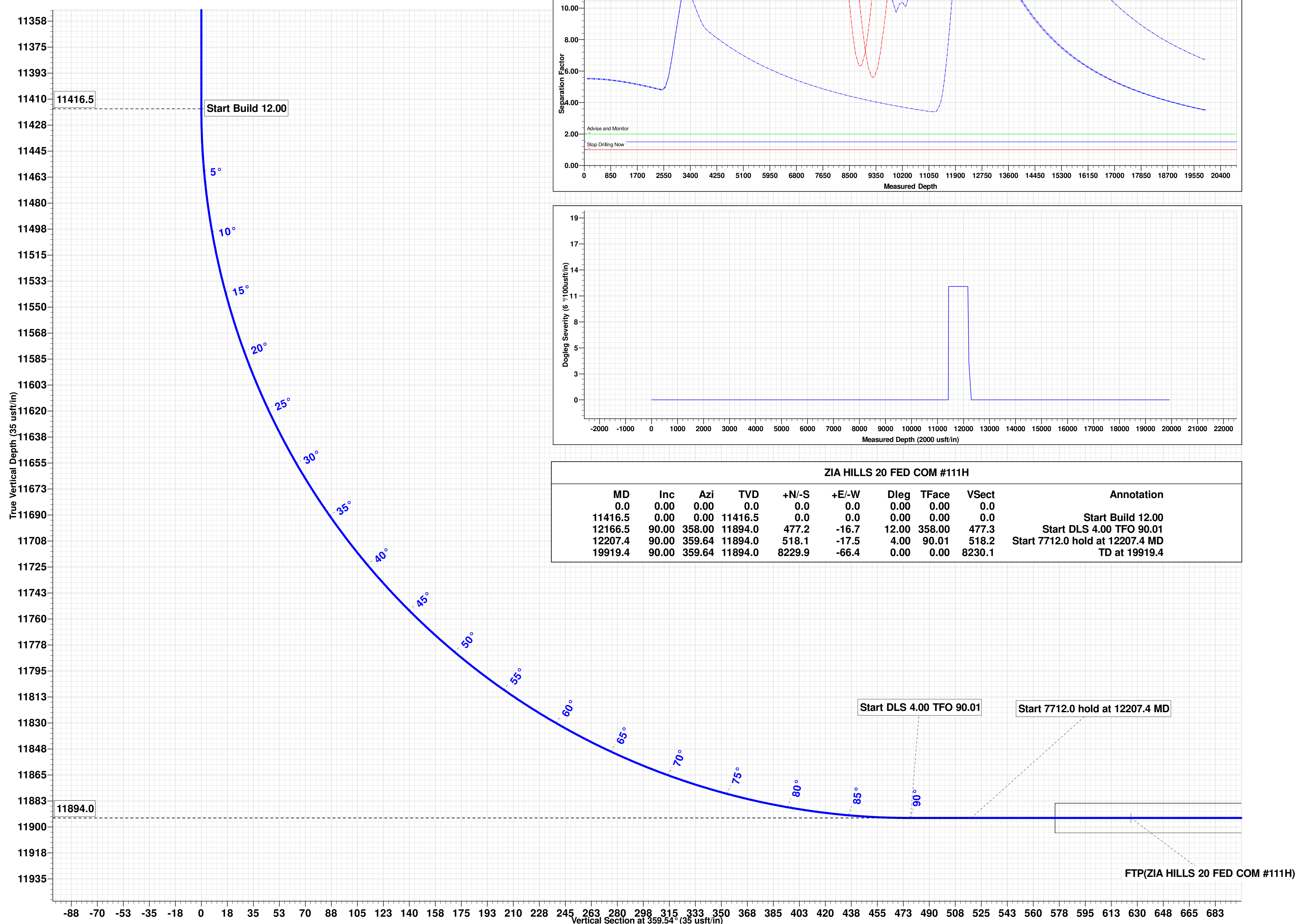
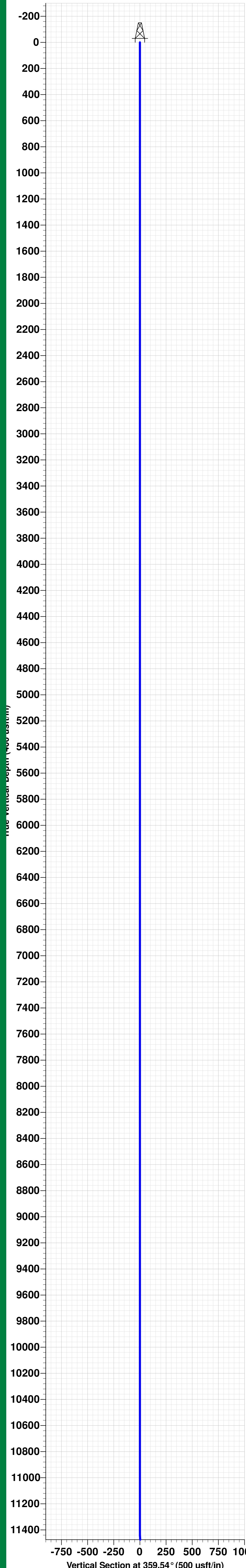
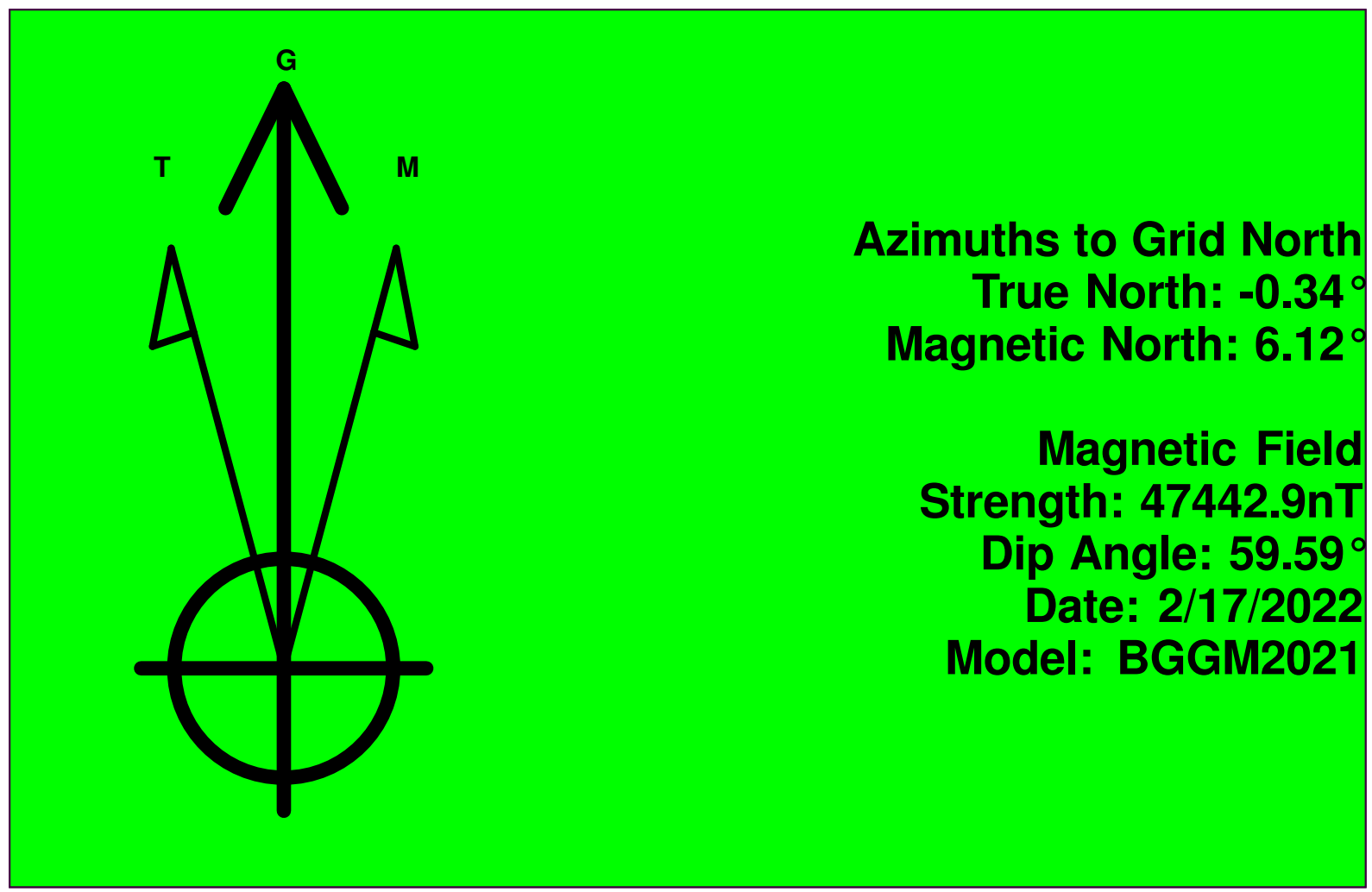
Date: _____



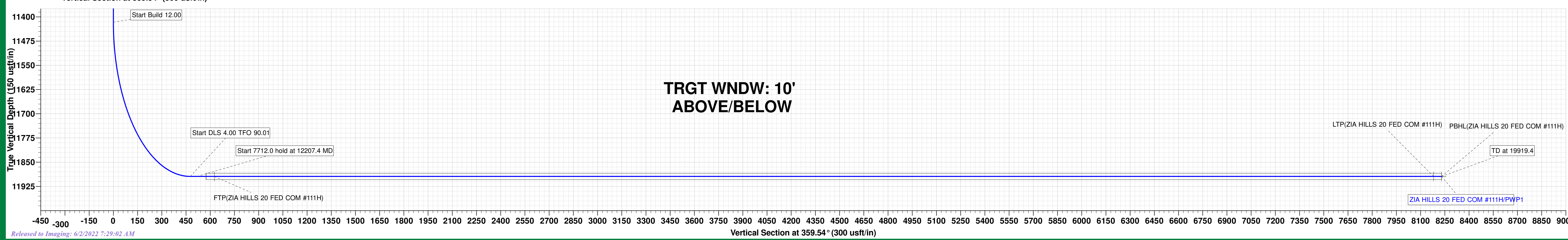
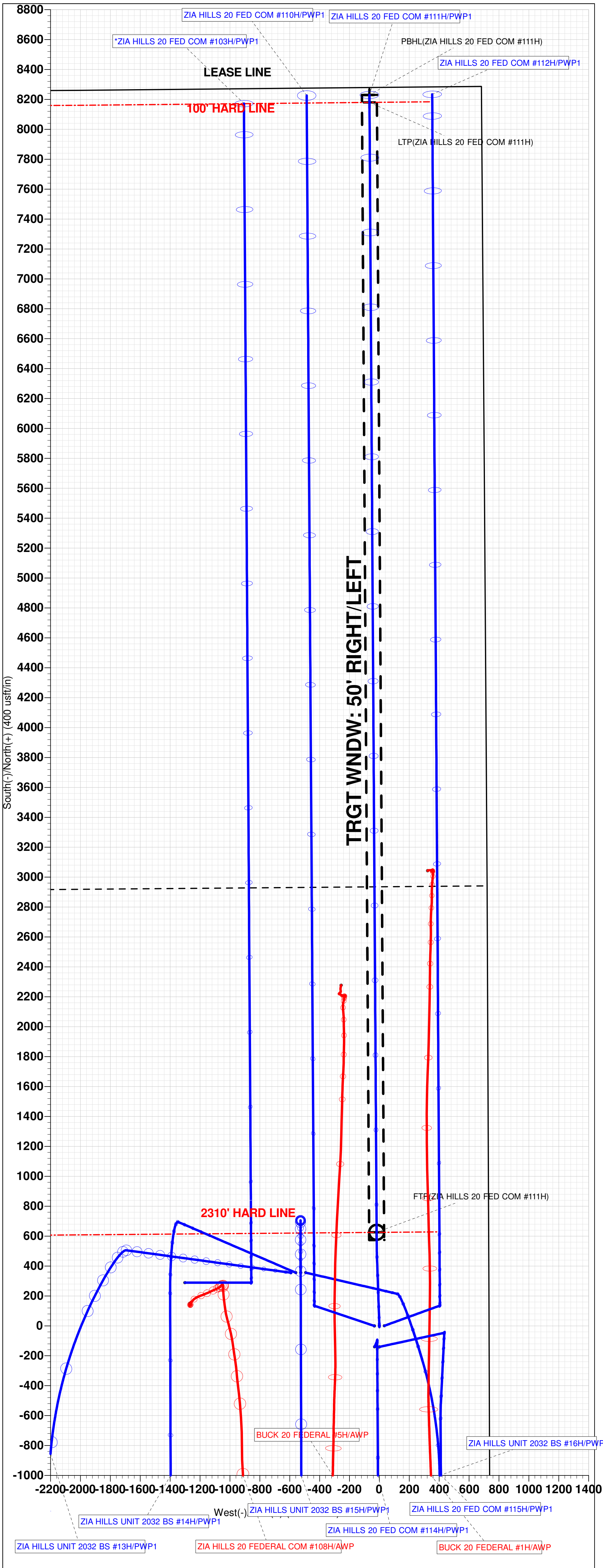
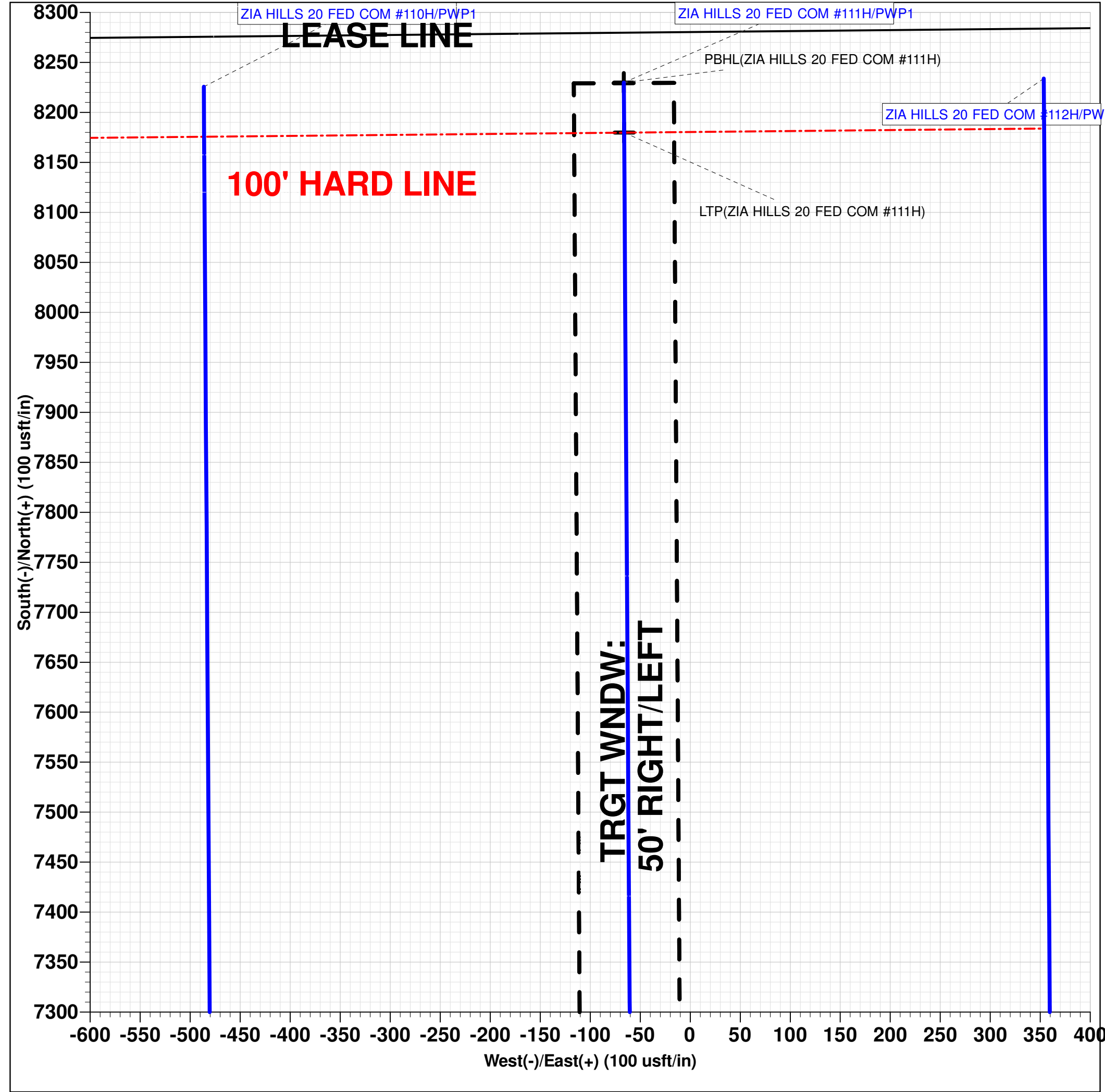
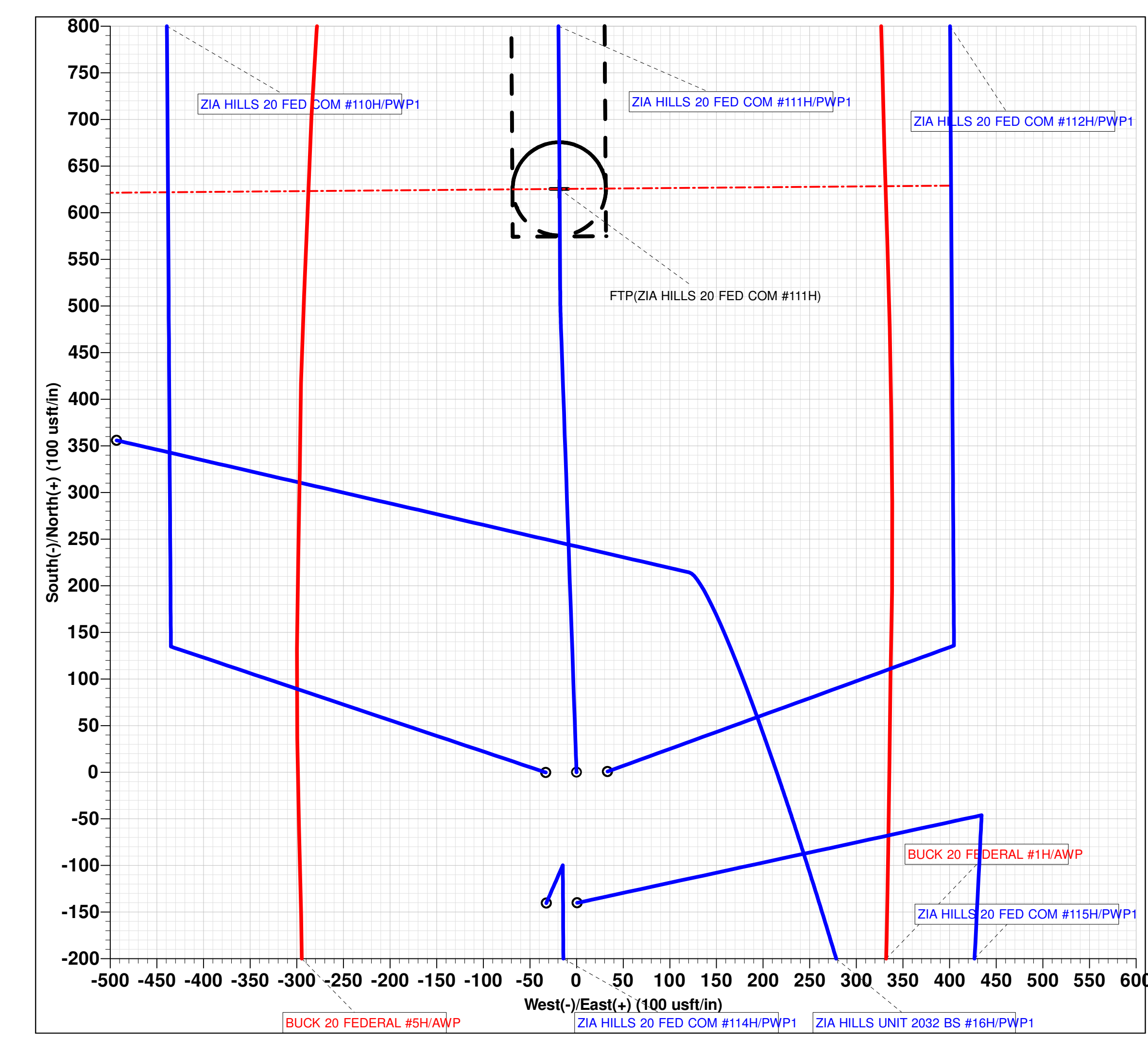
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS 20 FED COM PROJECT
Well: ZIA HILLS 20 FED COM #111H
Wellbore: OWB
Design: PWP1
GL: 3142.2
KB=31' @ 3173.2usft (N 894)

WELL DETAILS: ZIA HILLS 20 FED COM #111H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374270.12	699220.20	32° 1' 38.473 N	103° 41' 25.770 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP(ZIA HILLS 20 FED COM #111H)	11894.0	625.7	-18.4	374895.78	699201.78	32° 1' 44.665 N
LTP(ZIA HILLS 20 FED COM #111H)	11894.0	8179.9	-66.0	382450.00	699154.15	32° 2' 59.425 N
PBHL(ZIA HILLS 20 FED COM #111H)	11894.0	8229.9	-66.4	382500.00	699153.79	32° 2' 59.920 N



ZIA HILLS 20 FED COM #111H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
11416.5	0.00	0.00	11416.5	0.0	0.0	0.00	0.00	0.0	Start Build 12.00
12166.5	90.00	358.00	11894.0	477.2	-16.7	12.00	358.00	477.3	Start DLS 4.00 TFO 90.01
12207.4	90.00	359.64	11894.0	518.1	-17.5	4.00	90.01	518.2	Start 7712.0 hold at 12207.4 MD
19919.4	90.00	359.64	11894.0	8229.9	-66.4	0.00	0.00	8230.1	TD at 19919.4



TRGT WNDW: 10' ABOVE/BELOW

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

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

CONDITIONS

Action 110903

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 110903
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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