

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No. NMLC068281B
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator CONOCOPHILLIPS COMPANY		7. If Unit of CA/Agreement, Name and/or No. NMNM138329X
3a. Address PO Box 2197, Houston, TX 77252	3b. Phone No. (include area code) (281) 293-1748	8. Well Name and No. ZIA HILLS 20 FEDERAL COM/114H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SEC 20/T26S/R32E/NMP		9. API Well No. 3002545723
		10. Field and Pool or Exploratory Area WOLFCAMP/Wolfcamp
		11. Country or Parish, State LEA/NM

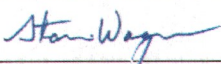
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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

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

ConocoPhillips requests a revision to our approved APD for this well to reflect a change in BHL.

Change BHL to 50' FSL & 750' FEL Lot 1, 2-26S-32E Lea Co, NM
Revised C-102 and drill plan attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) STAN WAGNER / Ph: (432) 253-9685	Regulatory Advisor Title
Signature 	Date 04/12/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Petroleum Engineer Title	Date 06/23/2022
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 CARLSBAD	

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 / 2270 FSL / 767 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.027094 / LONG: -103.691069 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 0 FNL / 988 FEL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.006162 / LONG: -103.691795 (TVD: 11730 feet, MD: 19450 feet)

PPP: NENE / 0 FNL / 986 FEL / TWSP: 26S / RANGE: 32E / SECTION: 29 / LAT: 32.020853 / LONG: -103.69179 (TVD: 11730 feet, MD: 13950 feet)

PPP: NESE / 2315 FSL / 990 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.027217 / LONG: -103.691789 (TVD: 11616 feet, MD: 11700 feet)

BHL: LOT 1 / 50 FSL / 990 FEL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.000358 / LONG: -103.691794 (TVD: 11730 feet, MD: 21501 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 30-025-45723	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code	5 Property Name ZIA HILLS 20 FED COM	6 Well Number 114H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3140.8'

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		2270'	SOUTH	767'	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
LOT 1	32	26-S	32-E		50'	SOUTH	750'	EAST	LEA
12 Dedicated Acres 13,383.35 Unit	13 Joint or Infill Infill	14 Consolidation Code Unit	15 Order No. R-20080						

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 SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=740374.96 LAT.= 32.02709343° N Y=374186.90 LONG.= -103.69106929° W 2270' FSL, 767' FEL - SECTION 20 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=740391.96 LAT.= 32.02720506° N Y=374227.61 LONG.= -103.69101367° W 2310' FSL, 750' FEL - SECTION 20 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=740447.37 LAT.= 32.00049593° N Y=364511.38 LONG.= -103.69102118° W 100' FSL, 750' FEL - SECTION 32 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=740447.37 LAT.= 32.00035848° N Y=364461.38 LONG.= -103.69102104° W 50' FSL, 750' FEL - SECTION 32 CORNER DATA NEW MEXICO EAST - NAD 83 A - FOUND IRON PIPE W/ BRASS CAP N:377224.61' E:735795.66' B - FOUND IRON PIPE W/ BRASS CAP N:377246.91' E:738461.95' C - FOUND IRON PIPE W/ BRASS CAP N:377269.22' E:741128.24' D - FOUND IRON PIPE W/ BRASS CAP N:374596.59' E:741140.55' E - FOUND IRON PIPE W/ BRASS CAP N:371924.06' E:741150.79' F - FOUND IRON PIPE W/ BRASS CAP N:371924.06' E:741169.27' G - FOUND IRON PIPE W/ BRASS CAP N:366579.65' E:741183.39' H - FOUND IRON PIPE W/ BRASS CAP N:364417.70' E:741198.03' I - FOUND IRON PIPE W/ BRASS CAP N:364399.29' E:738540.93' J - FOUND IRON PIPE W/ BRASS CAP N:364380.94' E:735885.41' K - FOUND IRON PIPE W/ BRASS CAP N:366535.81' E:735872.97' L - FOUND IRON PIPE W/ BRASS CAP N:369206.20' E:735852.74' M - FOUND IRON PIPE W/ BRASS CAP N:371879.35' E:735833.03' N - FOUND IRON PIPE W/ BRASS CAP N:374544.72' E:735819.04' O - FOUND IRON PIPE W/ BRASS CAP N:371901.14' E:738488.27' P - FOUND IRON PIPE W/ BRASS CAP N:366557.63' E:738529.56'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stan Wagner</i> 4/7/2022 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. MARK J. MURRAY NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 12177 Date of Survey Signature and Seal of Professional Surveyor 3/18/2022 Certificate Number
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ConocoPhillips - Zia Hills 20 Fed Com 114H

1. Geologic Formations

TVD of target	11,723' EOL	Pilot hole depth	NA
MD at TD:	21,285'	Deepest expected fresh water:	405'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1068	Water	
Top of Salt	1401	Salt	
Base of Salt	4110	Salt	
Lamar	4308	Salt Water	
Bell Canyon	4364	Salt Water	
Cherry Canyon	5259	Oil/Gas	
Brushy Canyon	6796	Oil/Gas	
Bone Spring	8360	Oil/Gas	
1st Bone Spring Sand	9328	Oil/Gas	
2nd Bone Spring Sand	9988	Oil/Gas	
3rd Bone Spring Carb	10405	Oil/Gas	
3rd Bone Spring Sand	11122	Oil/Gas	
Wolfcamp	11553	Oil/Gas	
Wolfcamp A	11762	Target - Oil/Gas	
Wolfcamp B	12087	Not Penetrated	Abnormal Press.

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1351	10.75"	45.5	J55	BTC	3.38	1.14	12.95	12.95
9.875"	0	8500	7.625"	29.7	L80	BTC	1.48	1.07	2.71	2.85
8.750"	8500	11072	7.625"	29.7	P110	Wedge 513	1.42	1.51	2.86	1.72
6.75"	0	10872	5.5"	23	P110	TXP BTC	1.91	2.25	2.70	2.70
6.75"	10872	21,285	5.5"	23	P110	Wedge 441	1.91	2.25	2.70	2.46
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 114H

	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 114H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	505	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	982	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 114H

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	7620 psi at 11723' 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 #114H

OWB

PWP1

Anticollision Report

05 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	4/5/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,028.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,028.0	21,284.9	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR 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	11,246.2	11,285.7	927.0	909.0	51.540	CC, ES
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	11,600.0	11,525.0	993.0	973.5	50.968	SF
ZIA HILLS 20 FED COM #110H - OWB - PWP1	2,725.7	2,722.9	137.8	128.7	15.109	CC, ES
ZIA HILLS 20 FED COM #110H - OWB - PWP1	2,800.0	2,795.4	138.4	129.2	15.026	SF
ZIA HILLS 20 FED COM #111H - OWB - PWP1	11,246.2	11,246.9	100.8	71.2	3.406	CC, ES
ZIA HILLS 20 FED COM #111H - OWB - PWP1	11,250.0	11,250.7	100.8	71.2	3.406	SF
ZIA HILLS 20 FED COM #112H - OWB - PWP1	2,646.5	2,642.3	154.8	146.1	17.800	CC, ES
ZIA HILLS 20 FED COM #112H - OWB - PWP1	2,700.0	2,693.8	155.2	146.4	17.702	SF
ZIA HILLS 20 FED COM #115H - OWB - PWP1	2,416.5	2,417.0	33.1	26.2	4.834	CC
ZIA HILLS 20 FED COM #115H - OWB - PWP1	2,500.0	2,500.0	33.1	26.2	4.795	ES
ZIA HILLS 20 FED COM #115H - OWB - PWP1	21,284.9	21,544.1	456.3	288.3	2.716	SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #1H - OWB - AWP	9,251.6	12,023.2	348.6	287.1	5.666	CC, ES, SF
BUCK 20 FEDERAL #5H - OWB - AWP	8,835.3	10,815.2	281.9	233.0	5.768	CC, ES, SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	13,061.7	13,484.0	891.6	833.6	15.368	CC
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	21,284.9	21,712.5	921.4	749.5	5.362	ES, SF
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,416.2	2,417.7	747.8	735.0	58.452	CC
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,500.0	2,500.0	747.8	734.7	56.972	ES
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	4,600.0	4,478.4	990.7	970.0	47.730	SF
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	2,416.5	2,416.9	723.5	715.8	93.563	CC
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	2,500.0	2,500.0	723.5	715.6	92.250	ES
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	5,100.0	4,999.5	988.7	977.2	85.718	SF
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	10,225.0	10,844.1	510.5	466.2	11.539	CC, ES, SF
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,000.0	10,172.0	285.2	260.7	11.642	SF
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,170.2	10,293.5	249.2	229.2	12.438	CC, ES

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

ConocoPhillips

Anticollision Report

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Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
*ZIA HILLS 20 FED COM #103H - OWB - PWP1	21,284.9	11,475.0				Out of Range @TD
ZIA HILLS 20 FED COM #110H - OWB - PWP1	21,284.9	11,300.0				Out of Range @TD
ZIA HILLS 20 FED COM #111H - OWB - PWP1	21,284.9	11,425.0				Out of Range @TD
ZIA HILLS 20 FED COM #112H - OWB - PWP1	21,284.9	11,300.0				Out of Range @TD
ZIA HILLS 20 FED COM #115H - OWB - PWP1	21,284.9	21,544.1	456.3	288.3	2.716	SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #1H - OWB - AWP	21,284.9	13,905.0				Out of Range @TD
BUCK 20 FEDERAL #5H - OWB - AWP	21,284.9	12,764.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	21,284.9	21,712.5	921.4	749.5	5.362	ES, SF
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	21,284.9	20,579.8				Out of Range @TD
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	21,284.9	20,639.3				Out of Range @TD
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	21,284.9	20,610.2				Out of Range @TD
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	21,284.9	20,168.2				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+IFR1+MS											
Rule Assigned:											
Reference	Vertical	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor
5,100.0	5,099.3	5,248.0	5,225.5	7.2	6.4	-66.92	429.2	-893.9	997.3	987.0	10.24
5,200.0	5,199.3	5,347.2	5,324.0	7.3	6.5	-66.64	429.2	-881.8	986.0	975.6	10.40
5,300.0	5,299.3	5,446.5	5,422.5	7.4	6.6	-66.36	429.2	-869.7	974.9	964.3	10.57
5,400.0	5,399.3	5,535.8	5,511.3	7.5	6.7	-66.10	429.2	-859.2	964.1	953.3	10.73
5,500.0	5,499.3	5,622.1	5,597.1	7.7	6.8	-65.89	429.2	-850.3	954.6	943.7	10.88
5,600.0	5,599.3	5,708.6	5,683.2	7.8	6.9	-65.70	429.2	-842.7	946.6	935.5	11.03
5,700.0	5,699.3	5,800.0	5,774.4	7.9	7.0	-65.53	429.2	-836.0	939.9	928.7	11.19
5,800.0	5,799.3	5,882.2	5,856.5	8.0	7.0	-65.41	429.2	-831.3	934.6	923.3	11.34
5,900.0	5,899.3	5,969.3	5,943.4	8.2	7.1	-65.31	429.2	-827.5	930.7	919.2	11.49
6,000.0	5,999.3	6,056.4	6,030.5	8.3	7.2	-65.25	429.2	-825.1	928.2	916.5	11.65
6,100.0	6,099.3	6,143.6	6,117.7	8.4	7.3	-65.22	429.2	-824.0	927.1	915.3	11.79
6,149.2	6,148.5	6,188.6	6,162.8	8.5	7.3	-65.22	429.2	-823.9	927.0	915.1	11.85
6,200.0	6,199.3	6,239.4	6,213.6	8.5	7.4	-65.22	429.2	-823.9	927.0	915.1	11.90
6,300.0	6,299.3	6,339.4	6,313.6	8.6	7.5	-65.22	429.2	-823.9	927.0	915.0	12.00
6,400.0	6,399.3	6,439.4	6,413.6	8.8	7.5	-65.22	429.2	-823.9	927.0	914.9	12.10
6,500.0	6,499.3	6,539.4	6,513.6	8.9	7.6	-65.22	429.2	-823.9	927.0	914.8	12.20
6,600.0	6,599.3	6,639.4	6,613.6	9.0	7.7	-65.22	429.2	-823.9	927.0	914.7	12.30

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - *ZIA HILLS 20 FED COM #103H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11452-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance	Rule Assigned:	Minimum Separation		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)	Minimum Separation (usft)	Separation Factor		
6,700.0	6,699.3	6,739.4	6,713.6	9.1	7.8	-65.22	429.2	-823.9	927.0	914.6	12.40	74.734		
6,800.0	6,799.3	6,839.4	6,813.6	9.3	7.9	-65.22	429.2	-823.9	927.0	914.5	12.51	74.108		
6,900.0	6,899.3	6,939.4	6,913.6	9.4	8.0	-65.22	429.2	-823.9	927.0	914.4	12.61	73.486		
7,000.0	6,999.3	7,039.4	7,013.6	9.5	8.1	-65.22	429.2	-823.9	927.0	914.3	12.72	72.868		
7,100.0	7,099.3	7,139.4	7,113.6	9.6	8.2	-65.22	429.2	-823.9	927.0	914.2	12.83	72.253		
7,200.0	7,199.3	7,239.4	7,213.6	9.8	8.3	-65.22	429.2	-823.9	927.0	914.0	12.94	71.641		
7,300.0	7,299.3	7,339.4	7,313.6	9.9	8.4	-65.22	429.2	-823.9	927.0	913.9	13.05	71.034		
7,400.0	7,399.3	7,439.4	7,413.6	10.0	8.5	-65.22	429.2	-823.9	927.0	913.8	13.16	70.431		
7,500.0	7,499.3	7,539.4	7,513.6	10.1	8.6	-65.22	429.2	-823.9	927.0	913.7	13.27	69.833		
7,600.0	7,599.3	7,639.4	7,613.6	10.3	8.7	-65.22	429.2	-823.9	927.0	913.6	13.39	69.239		
7,700.0	7,699.3	7,739.4	7,713.6	10.4	8.8	-65.22	429.2	-823.9	927.0	913.5	13.50	68.650		
7,800.0	7,799.3	7,839.4	7,813.6	10.5	8.9	-65.22	429.2	-823.9	927.0	913.4	13.62	68.066		
7,900.0	7,899.3	7,939.4	7,913.6	10.6	9.0	-65.22	429.2	-823.9	927.0	913.3	13.74	67.486		
8,000.0	7,999.3	8,039.4	8,013.6	10.8	9.1	-65.22	429.2	-823.9	927.0	913.1	13.85	66.912		
8,100.0	8,099.3	8,139.4	8,113.6	10.9	9.2	-65.22	429.2	-823.9	927.0	913.0	13.97	66.343		
8,200.0	8,199.3	8,239.4	8,213.6	11.0	9.3	-65.22	429.2	-823.9	927.0	912.9	14.09	65.779		
8,300.0	8,299.3	8,339.4	8,313.6	11.2	9.4	-65.22	429.2	-823.9	927.0	912.8	14.21	65.220		
8,400.0	8,399.3	8,439.4	8,413.6	11.3	9.5	-65.22	429.2	-823.9	927.0	912.7	14.33	64.667		
8,500.0	8,499.3	8,539.4	8,513.6	11.4	9.6	-65.22	429.2	-823.9	927.0	912.5	14.46	64.119		
8,600.0	8,599.3	8,639.4	8,613.6	11.5	9.7	-65.22	429.2	-823.9	927.0	912.4	14.58	63.577		
8,700.0	8,699.3	8,739.4	8,713.6	11.7	9.8	-65.22	429.2	-823.9	927.0	912.3	14.70	63.040		
8,800.0	8,799.3	8,839.4	8,813.6	11.8	9.9	-65.22	429.2	-823.9	927.0	912.2	14.83	62.508		
8,900.0	8,899.3	8,939.4	8,913.6	11.9	10.0	-65.22	429.2	-823.9	927.0	912.0	14.96	61.982		
9,000.0	8,999.3	9,039.4	9,013.6	12.0	10.1	-65.22	429.2	-823.9	927.0	911.9	15.08	61.462		
9,100.0	9,099.3	9,139.4	9,113.6	12.2	10.2	-65.22	429.2	-823.9	927.0	911.8	15.21	60.947		
9,200.0	9,199.3	9,239.4	9,213.6	12.3	10.3	-65.22	429.2	-823.9	927.0	911.6	15.34	60.438		
9,300.0	9,299.3	9,339.4	9,313.6	12.4	10.4	-65.22	429.2	-823.9	927.0	911.5	15.47	59.935		
9,400.0	9,399.3	9,439.4	9,413.6	12.6	10.5	-65.22	429.2	-823.9	927.0	911.4	15.60	59.437		
9,500.0	9,499.3	9,539.4	9,513.6	12.7	10.6	-65.22	429.2	-823.9	927.0	911.3	15.73	58.944		
9,600.0	9,599.3	9,639.4	9,613.6	12.8	10.7	-65.22	429.2	-823.9	927.0	911.1	15.86	58.457		
9,700.0	9,699.3	9,739.4	9,713.6	12.9	10.9	-65.22	429.2	-823.9	927.0	911.0	15.99	57.976		
9,800.0	9,799.3	9,839.4	9,813.6	13.1	11.0	-65.22	429.2	-823.9	927.0	910.9	16.12	57.500		
9,900.0	9,899.3	9,939.4	9,913.6	13.2	11.1	-65.22	429.2	-823.9	927.0	910.7	16.25	57.030		
10,000.0	9,999.3	10,039.4	10,013.6	13.3	11.2	-65.22	429.2	-823.9	927.0	910.6	16.39	56.565		
10,100.0	10,099.3	10,139.4	10,113.6	13.5	11.3	-65.22	429.2	-823.9	927.0	910.5	16.52	56.105		
10,200.0	10,199.3	10,239.4	10,213.6	13.6	11.4	-65.22	429.2	-823.9	927.0	910.3	16.66	55.651		
10,300.0	10,299.3	10,339.4	10,313.6	13.7	11.5	-65.22	429.2	-823.9	927.0	910.2	16.79	55.202		
10,400.0	10,399.3	10,439.4	10,413.6	13.8	11.6	-65.22	429.2	-823.9	927.0	910.1	16.93	54.759		
10,500.0	10,499.3	10,539.4	10,513.6	14.0	11.7	-65.22	429.2	-823.9	927.0	909.9	17.07	54.320		
10,600.0	10,599.3	10,639.4	10,613.6	14.1	11.9	-65.22	429.2	-823.9	927.0	909.8	17.20	53.888		
10,700.0	10,699.3	10,739.4	10,713.6	14.2	12.0	-65.22	429.2	-823.9	927.0	909.6	17.34	53.460		
10,800.0	10,799.3	10,839.4	10,813.6	14.4	12.1	-65.22	429.2	-823.9	927.0	909.5	17.48	53.037		
10,900.0	10,899.3	10,939.4	10,913.6	14.5	12.2	-65.22	429.2	-823.9	927.0	909.4	17.62	52.620		
11,000.0	10,999.3	11,039.4	11,013.6	14.6	12.3	-65.22	429.2	-823.9	927.0	909.2	17.76	52.207		
11,100.0	11,099.3	11,139.4	11,113.6	14.7	12.4	-65.22	429.2	-823.9	927.0	909.1	17.86	51.895		
11,200.0	11,199.3	11,239.4	11,213.6	14.7	12.5	-65.22	429.2	-823.9	927.0	909.0	17.94	51.661		
11,246.2	11,245.5	11,285.7	11,259.8	14.7	12.6	-65.22	429.2	-823.9	927.0	909.0	17.99	51.540 CC, ES		
11,250.0	11,249.3	11,289.4	11,263.6	14.7	12.6	115.10	429.2	-823.9	927.0	909.0	17.99	51.530		
11,275.0	11,274.2	11,314.4	11,288.5	14.7	12.6	115.11	429.2	-823.9	927.4	909.3	18.02	51.471		
11,300.0	11,299.1	11,339.3	11,313.4	14.7	12.7	115.13	429.2	-823.9	928.3	910.2	18.05	51.420		
11,325.0	11,323.9	11,364.1	11,338.2	14.7	12.7	115.16	429.2	-823.9	929.8	911.7	18.10	51.379		
11,350.0	11,348.4	11,388.6	11,362.7	14.7	12.7	115.19	429.2	-823.9	931.8	913.7	18.15	51.347		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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	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)			
11,375.0	11,372.7	11,412.9	11,387.0	14.7	12.7	115.23	429.2	-823.9	934.4	916.2	18.20	51.333		
11,400.0	11,396.6	11,436.8	11,410.9	14.8	12.8	115.27	429.2	-823.9	937.7	919.4	18.27	51.336		
11,425.0	11,420.1	11,452.4	11,426.5	14.8	12.8	115.13	429.2	-823.9	941.5	923.2	18.34	51.349		
11,450.0	11,443.1	11,468.5	11,442.6	14.8	12.8	114.98	429.5	-824.0	946.2	927.8	18.42	51.368		
11,475.0	11,465.6	11,475.0	11,449.1	14.8	12.8	114.52	429.7	-824.0	951.8	933.2	18.55	51.319		
11,500.0	11,487.5	11,490.7	11,464.7	14.8	12.8	114.26	430.7	-824.0	958.2	939.6	18.67	51.312		
11,525.0	11,508.7	11,500.0	11,474.0	14.8	12.8	113.73	431.6	-824.0	965.6	946.8	18.84	51.242		
11,550.0	11,529.2	11,510.0	11,484.0	14.9	12.8	113.15	432.7	-824.0	973.9	954.8	19.03	51.172		
11,575.0	11,548.9	11,525.0	11,498.8	14.9	12.8	112.69	434.7	-824.0	983.1	963.8	19.20	51.189		
11,600.0	11,567.8	11,525.0	11,498.8	14.9	12.8	111.48	434.7	-824.0	993.0	973.5	19.48	50.968 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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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)				
0.0	0.0	1.3	1.3	3.0	3.0	-0.24	140.1	-0.6	140.1					
100.0	100.0	101.3	101.3	3.0	3.0	-0.24	140.1	-0.6	140.1	134.1	6.00	23.354		
200.0	200.0	201.3	201.3	3.0	3.0	-0.24	140.1	-0.6	140.1	134.1	6.01	23.316		
300.0	300.0	301.3	301.3	3.0	3.0	-0.24	140.1	-0.6	140.1	134.1	6.03	23.233		
400.0	400.0	401.3	401.3	3.0	3.0	-0.24	140.1	-0.6	140.1	134.1	6.06	23.108		
500.0	500.0	501.3	501.3	3.1	3.1	-0.24	140.1	-0.6	140.1	134.0	6.11	22.941		
600.0	600.0	601.3	601.3	3.1	3.1	-0.24	140.1	-0.6	140.1	134.0	6.16	22.737		
700.0	700.0	701.3	701.3	3.1	3.1	-0.24	140.1	-0.6	140.1	133.9	6.23	22.497		
800.0	800.0	801.3	801.3	3.2	3.2	-0.24	140.1	-0.6	140.1	133.8	6.31	22.226		
900.0	900.0	901.3	901.3	3.2	3.2	-0.24	140.1	-0.6	140.1	133.7	6.39	21.927		
1,000.0	1,000.0	1,001.3	1,001.3	3.2	3.2	-0.24	140.1	-0.6	140.1	133.7	6.49	21.604		
1,100.0	1,100.0	1,101.3	1,101.3	3.3	3.3	-0.24	140.1	-0.6	140.1	133.5	6.59	21.260		
1,200.0	1,200.0	1,201.3	1,201.3	3.4	3.4	-0.24	140.1	-0.6	140.1	133.4	6.71	20.901		
1,300.0	1,300.0	1,301.3	1,301.3	3.4	3.4	-0.24	140.1	-0.6	140.1	133.3	6.83	20.528		
1,400.0	1,400.0	1,401.3	1,401.3	3.5	3.5	-0.24	140.1	-0.6	140.1	133.2	6.96	20.145		
1,500.0	1,500.0	1,501.3	1,501.3	3.5	3.5	-0.24	140.1	-0.6	140.1	133.0	7.09	19.756		
1,600.0	1,600.0	1,601.3	1,601.3	3.6	3.6	-0.24	140.1	-0.6	140.1	132.9	7.24	19.362		
1,700.0	1,700.0	1,701.3	1,701.3	3.7	3.7	-0.24	140.1	-0.6	140.1	132.8	7.39	18.968		
1,800.0	1,800.0	1,801.3	1,801.3	3.8	3.8	-0.24	140.1	-0.6	140.1	132.6	7.55	18.573		
1,900.0	1,900.0	1,901.3	1,901.3	3.9	3.9	-0.24	140.1	-0.6	140.1	132.4	7.71	18.181		
2,000.0	2,000.0	2,001.3	2,001.3	3.9	3.9	-0.24	140.1	-0.6	140.1	132.3	7.88	17.793		
2,100.0	2,100.0	2,101.3	2,101.3	4.0	4.0	-0.24	140.1	-0.6	140.1	132.1	8.05	17.410		
2,200.0	2,200.0	2,201.3	2,201.3	4.1	4.1	-0.24	140.1	-0.6	140.1	131.9	8.23	17.033		
2,300.0	2,300.0	2,301.3	2,301.3	4.2	4.2	-0.24	140.1	-0.6	140.1	131.7	8.41	16.663		
2,400.0	2,400.0	2,401.3	2,401.3	4.3	4.3	-0.24	140.1	-0.6	140.1	131.5	8.60	16.301		
2,500.0	2,500.0	2,501.3	2,501.3	4.4	4.4	-0.24	140.1	-0.6	140.1	131.4	8.79	15.947		
2,516.6	2,516.6	2,517.6	2,517.6	4.4	4.4	-23.78	140.2	-0.6	140.1	131.3	8.82	15.895		
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	-24.73	140.7	-2.2	139.1	130.2	8.95	15.541		
2,700.0	2,699.9	2,697.7	2,697.6	4.6	4.5	-27.31	142.3	-7.1	137.9	128.8	9.09	15.171		
2,725.7	2,725.6	2,722.9	2,722.7	4.6	4.5	-28.19	142.9	-8.8	137.8	128.7	9.12	15.109 CC, ES		
2,800.0	2,799.9	2,795.4	2,794.8	4.7	4.6	-31.17	145.0	-15.0	138.4	129.2	9.21	15.026 SF		
2,900.0	2,899.8	2,894.6	2,893.5	4.8	4.6	-35.70	148.3	-24.8	140.5	131.2	9.31	15.085		
3,000.0	2,999.7	2,994.0	2,992.4	4.9	4.7	-40.07	151.6	-34.7	143.4	134.0	9.40	15.260		
3,100.0	3,099.7	3,093.3	3,091.2	5.0	4.8	-44.25	154.9	-44.5	147.2	137.7	9.47	15.543		
3,200.0	3,199.6	3,192.7	3,190.0	5.1	4.8	-48.20	158.2	-54.4	151.7	142.2	9.53	15.918		
3,300.0	3,299.6	3,292.1	3,288.8	5.2	4.9	-51.91	161.5	-64.2	156.9	147.4	9.58	16.376		
3,400.0	3,399.5	3,391.4	3,387.6	5.3	5.0	-55.37	164.8	-74.1	162.8	153.1	9.63	16.902		
3,500.0	3,499.4	3,490.8	3,486.4	5.4	5.0	-58.58	168.1	-83.9	169.1	159.5	9.67	17.485		
3,600.0	3,599.4	3,590.1	3,585.3	5.5	5.1	-61.55	171.4	-93.8	176.0	166.3	9.72	18.114		
3,700.0	3,699.3	3,689.5	3,684.1	5.6	5.2	-64.30	174.7	-103.6	183.3	173.6	9.76	18.779		
3,721.2	3,720.5	3,710.6	3,705.0	5.6	5.2	-64.85	175.4	-105.7	184.9	175.2	9.77	18.924		
3,800.0	3,799.3	3,788.9	3,782.9	5.7	5.3	-66.74	178.0	-113.5	191.2	181.4	9.82	19.480		
3,900.0	3,899.3	3,888.3	3,881.8	5.8	5.3	-68.55	181.4	-123.3	200.1	190.2	9.90	20.215		
3,921.2	3,920.5	3,909.4	3,902.8	5.8	5.4	-45.35	182.1	-125.4	202.0	192.1	9.92	20.368		
4,000.0	3,999.3	3,987.8	3,980.7	5.9	5.4	-46.34	184.7	-133.2	209.5	199.5	10.02	20.917		
4,100.0	4,099.3	4,087.2	4,079.6	6.0	5.5	-47.50	188.0	-143.0	219.0	208.9	10.14	21.599		
4,200.0	4,199.3	4,186.7	4,178.5	6.1	5.6	-48.56	191.3	-152.9	228.6	218.3	10.27	22.263		
4,300.0	4,299.3	4,286.1	4,277.4	6.3	5.7	-49.54	194.6	-162.7	238.3	227.9	10.40	22.909		
4,400.0	4,399.3	4,385.6	4,376.3	6.4	5.8	-50.44	197.9	-172.6	248.0	237.5	10.54	23.538		
4,500.0	4,499.3	4,485.0	4,475.2	6.5	5.9	-51.27	201.2	-182.4	257.8	247.1	10.68	24.148		
4,600.0	4,599.3	4,584.5	4,574.2	6.6	6.0	-52.04	204.5	-192.3	267.6	256.8	10.82	24.740		
4,700.0	4,699.3	4,683.9	4,673.1	6.7	6.1	-52.75	207.8	-202.1	277.5	266.6	10.96	25.314		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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)				
4,800.0	4,799.3	4,783.4	4,772.0	6.8	6.2	-53.42	211.1	-212.0	287.5	276.4	11.11	25.870		
4,900.0	4,899.3	4,882.8	4,870.9	7.0	6.3	-54.04	214.4	-221.9	297.4	286.2	11.26	26.409		
5,000.0	4,999.3	4,982.3	4,969.8	7.1	6.4	-54.63	217.8	-231.7	307.4	296.0	11.42	26.931		
5,100.0	5,099.3	5,081.7	5,068.7	7.2	6.5	-55.17	221.1	-241.6	317.4	305.9	11.57	27.436		
5,200.0	5,199.3	5,181.2	5,167.6	7.3	6.6	-55.68	224.4	-251.4	327.5	315.8	11.73	27.926		
5,300.0	5,299.3	5,280.6	5,266.5	7.4	6.7	-56.17	227.7	-261.3	337.6	325.7	11.89	28.399		
5,400.0	5,399.3	5,380.1	5,365.4	7.5	6.8	-56.62	231.0	-271.1	347.7	335.6	12.05	28.858		
5,500.0	5,499.3	5,479.5	5,464.3	7.7	6.9	-57.05	234.3	-281.0	357.8	345.6	12.21	29.302		
5,600.0	5,599.3	5,579.0	5,563.2	7.8	7.0	-57.45	237.6	-290.8	367.9	355.6	12.38	29.732		
5,700.0	5,699.3	5,678.4	5,662.1	7.9	7.1	-57.83	240.9	-300.7	378.1	365.5	12.54	30.147		
5,800.0	5,799.3	5,777.9	5,761.0	8.0	7.2	-58.20	244.2	-310.5	388.3	375.5	12.71	30.550		
5,900.0	5,899.3	5,877.4	5,859.9	8.2	7.3	-58.54	247.5	-320.4	398.4	385.6	12.88	30.940		
6,000.0	5,999.3	5,976.8	5,958.9	8.3	7.4	-58.87	250.8	-330.3	408.6	395.6	13.05	31.317		
6,100.0	6,099.3	6,076.3	6,057.8	8.4	7.5	-59.18	254.2	-340.1	418.8	405.6	13.22	31.683		
6,200.0	6,199.3	6,175.7	6,156.7	8.5	7.6	-59.48	257.5	-350.0	429.1	415.7	13.39	32.037		
6,300.0	6,299.3	6,275.2	6,255.6	8.6	7.7	-59.76	260.8	-359.8	439.3	425.7	13.57	32.380		
6,400.0	6,399.3	6,374.6	6,354.5	8.8	7.9	-60.03	264.1	-369.7	449.5	435.8	13.74	32.712		
6,500.0	6,499.3	6,479.8	6,459.2	8.9	8.0	-60.29	267.4	-379.7	459.4	445.5	13.91	33.015		
6,600.0	6,599.3	6,588.1	6,567.1	9.0	8.1	-60.50	270.3	-388.1	467.5	453.4	14.09	33.176		
6,700.0	6,699.3	6,696.7	6,675.4	9.1	8.2	-60.66	272.5	-394.6	473.7	459.4	14.28	33.184		
6,800.0	6,799.3	6,805.4	6,784.1	9.3	8.3	-60.77	274.0	-399.2	478.1	463.6	14.47	33.043		
6,900.0	6,899.3	6,914.4	6,893.0	9.4	8.4	-60.83	274.9	-401.9	480.6	465.9	14.67	32.764		
7,000.0	6,999.3	7,022.0	7,000.6	9.5	8.6	-60.85	275.1	-402.6	481.3	466.4	14.85	32.400		
7,100.0	7,099.3	7,122.0	7,100.6	9.6	8.7	-60.85	275.1	-402.6	481.3	466.3	15.01	32.059		
7,200.0	7,199.3	7,222.0	7,200.6	9.8	8.8	-60.85	275.1	-402.6	481.3	466.1	15.17	31.725		
7,300.0	7,299.3	7,322.0	7,300.6	9.9	8.9	-60.85	275.1	-402.6	481.3	465.9	15.33	31.396		
7,400.0	7,399.3	7,422.0	7,400.6	10.0	9.0	-60.85	275.1	-402.6	481.3	465.8	15.49	31.074		
7,500.0	7,499.3	7,522.0	7,500.6	10.1	9.1	-60.85	275.1	-402.6	481.3	465.6	15.65	30.757		
7,600.0	7,599.3	7,622.0	7,600.6	10.3	9.2	-60.85	275.1	-402.6	481.3	465.5	15.81	30.446		
7,700.0	7,699.3	7,722.0	7,700.6	10.4	9.3	-60.85	275.1	-402.6	481.3	465.3	15.97	30.140		
7,800.0	7,799.3	7,822.0	7,800.6	10.5	9.4	-60.85	275.1	-402.6	481.3	465.1	16.13	29.840		
7,900.0	7,899.3	7,922.0	7,900.6	10.6	9.5	-60.85	275.1	-402.6	481.3	465.0	16.29	29.545		
8,000.0	7,999.3	8,022.0	8,000.6	10.8	9.6	-60.85	275.1	-402.6	481.3	464.8	16.45	29.255		
8,100.0	8,099.3	8,122.0	8,100.6	10.9	9.7	-60.85	275.1	-402.6	481.3	464.7	16.61	28.971		
8,200.0	8,199.3	8,222.0	8,200.6	11.0	9.8	-60.85	275.1	-402.6	481.3	464.5	16.77	28.691		
8,300.0	8,299.3	8,322.0	8,300.6	11.2	9.9	-60.85	275.1	-402.6	481.3	464.3	16.94	28.416		
8,400.0	8,399.3	8,422.0	8,400.6	11.3	10.0	-60.85	275.1	-402.6	481.3	464.2	17.10	28.146		
8,500.0	8,499.3	8,522.0	8,500.6	11.4	10.1	-60.85	275.1	-402.6	481.3	464.0	17.26	27.880		
8,600.0	8,599.3	8,622.0	8,600.6	11.5	10.2	-60.85	275.1	-402.6	481.3	463.8	17.43	27.619		
8,700.0	8,699.3	8,722.0	8,700.6	11.7	10.4	-60.85	275.1	-402.6	481.3	463.7	17.59	27.363		
8,800.0	8,799.3	8,822.0	8,800.6	11.8	10.5	-60.85	275.1	-402.6	481.3	463.5	17.75	27.110		
8,900.0	8,899.3	8,922.0	8,900.6	11.9	10.6	-60.85	275.1	-402.6	481.3	463.3	17.92	26.862		
9,000.0	8,999.3	9,022.0	9,000.6	12.0	10.7	-60.85	275.1	-402.6	481.3	463.2	18.08	26.618		
9,100.0	9,099.3	9,122.0	9,100.6	12.2	10.8	-60.85	275.1	-402.6	481.3	463.0	18.24	26.378		
9,200.0	9,199.3	9,222.0	9,200.6	12.3	10.9	-60.85	275.1	-402.6	481.3	462.9	18.41	26.142		
9,300.0	9,299.3	9,322.0	9,300.6	12.4	11.0	-60.85	275.1	-402.6	481.3	462.7	18.57	25.910		
9,400.0	9,399.3	9,422.0	9,400.6	12.6	11.1	-60.85	275.1	-402.6	481.3	462.5	18.74	25.682		
9,500.0	9,499.3	9,522.0	9,500.6	12.7	11.3	-60.85	275.1	-402.6	481.3	462.4	18.90	25.457		
9,600.0	9,599.3	9,622.0	9,600.6	12.8	11.4	-60.85	275.1	-402.6	481.3	462.2	19.07	25.236		
9,700.0	9,699.3	9,722.0	9,700.6	12.9	11.5	-60.85	275.1	-402.6	481.3	462.0	19.24	25.019		
9,800.0	9,799.3	9,822.0	9,800.6	13.1	11.6	-60.85	275.1	-402.6	481.3	461.9	19.40	24.805		
9,900.0	9,899.3	9,922.0	9,900.6	13.2	11.7	-60.85	275.1	-402.6	481.3	461.7	19.57	24.594		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
10,000.0	9,999.3	10,022.0	10,000.6	13.3	11.8	-60.85	275.1	-402.6	481.3	461.5	19.73	24.387		
10,100.0	10,099.3	10,122.0	10,100.6	13.5	11.9	-60.85	275.1	-402.6	481.3	461.4	19.90	24.183		
10,200.0	10,199.3	10,222.0	10,200.6	13.6	12.1	-60.85	275.1	-402.6	481.3	461.2	20.07	23.982		
10,300.0	10,299.3	10,322.0	10,300.6	13.7	12.2	-60.85	275.1	-402.6	481.3	461.0	20.23	23.784		
10,400.0	10,399.3	10,422.0	10,400.6	13.8	12.3	-60.85	275.1	-402.6	481.3	460.9	20.40	23.589		
10,500.0	10,499.3	10,522.0	10,500.6	14.0	12.4	-60.85	275.1	-402.6	481.3	460.7	20.57	23.397		
10,600.0	10,599.3	10,622.0	10,600.6	14.1	12.5	-60.85	275.1	-402.6	481.3	460.5	20.74	23.208		
10,700.0	10,699.3	10,722.0	10,700.6	14.2	12.6	-60.85	275.1	-402.6	481.3	460.4	20.90	23.022		
10,800.0	10,799.3	10,822.0	10,800.6	14.4	12.8	-60.85	275.1	-402.6	481.3	460.2	21.07	22.839		
10,900.0	10,899.3	10,922.0	10,900.6	14.5	12.9	-60.85	275.1	-402.6	481.3	460.0	21.24	22.659		
11,000.0	10,999.3	11,022.0	11,000.6	14.6	13.0	-60.85	275.1	-402.6	481.3	459.9	21.41	22.481		
11,100.0	11,099.3	11,122.0	11,100.6	14.7	13.1	-60.85	275.1	-402.6	481.3	459.7	21.54	22.342		
11,200.0	11,199.3	11,222.0	11,200.6	14.7	13.2	-60.85	275.1	-402.6	481.3	459.6	21.64	22.244		
11,246.2	11,245.5	11,268.2	11,246.8	14.7	13.2	-60.85	275.1	-402.6	481.3	459.6	21.67	22.208		
11,250.0	11,249.3	11,272.0	11,250.6	14.7	13.2	-60.85	275.1	-402.6	481.3	459.6	21.67	22.205		
11,275.0	11,274.2	11,289.9	11,268.5	14.7	13.3	-60.85	275.1	-402.6	481.3	460.1	21.72	22.183		
11,300.0	11,299.1	11,306.4	11,285.0	14.7	13.3	-60.85	275.1	-402.6	481.3	460.1	21.72	22.183		
11,325.0	11,323.9	11,325.0	11,303.5	14.7	13.3	-60.85	277.7	-402.6	486.2	464.3	21.98	22.119		
11,350.0	11,348.4	11,338.2	11,316.6	14.7	13.3	-60.85	279.2	-402.6	490.1	467.9	22.23	22.048		
11,375.0	11,372.7	11,350.0	11,328.3	14.7	13.3	-60.85	280.9	-402.6	495.1	472.6	22.55	21.955		
11,400.0	11,396.6	11,367.4	11,345.4	14.8	13.3	-60.85	283.9	-402.6	501.2	478.4	22.85	21.934		
11,425.0	11,420.1	11,380.8	11,358.5	14.8	13.3	-60.85	286.6	-402.7	508.6	485.3	23.24	21.883		
11,450.0	11,443.1	11,393.2	11,370.6	14.8	13.4	-60.85	289.5	-402.7	517.1	493.4	23.67	21.846		
11,475.0	11,465.6	11,400.0	11,377.2	14.8	13.4	-60.85	291.2	-402.7	526.9	502.7	24.22	21.750		
11,500.0	11,487.5	11,415.1	11,391.8	14.8	13.4	-60.85	295.3	-402.7	537.8	513.1	24.63	21.835		
11,525.0	11,508.7	11,425.0	11,401.2	14.8	13.4	-60.85	298.2	-402.7	549.8	524.7	25.13	21.881		
11,550.0	11,529.2	11,433.1	11,408.8	14.9	13.4	-60.85	300.8	-402.8	563.0	537.4	25.65	21.948		
11,575.0	11,548.9	11,440.5	11,415.9	14.9	13.4	-60.85	303.2	-402.8	577.3	551.1	26.17	22.061		
11,600.0	11,567.8	11,450.0	11,424.8	14.9	13.4	-60.85	306.5	-402.8	592.5	565.9	26.61	22.271		
11,625.0	11,585.8	11,450.0	11,424.8	14.9	13.4	-60.85	306.5	-402.8	608.8	581.5	27.22	22.366		
11,650.0	11,602.8	11,457.3	11,431.6	15.0	13.4	-60.85	309.2	-402.8	625.8	598.2	27.62	22.655		
11,675.0	11,618.9	11,461.2	11,435.2	15.0	13.5	-60.85	310.6	-402.8	643.7	615.6	28.06	22.939		
11,700.0	11,634.0	11,464.3	11,438.0	15.0	13.5	-60.85	311.8	-402.8	662.2	633.7	28.47	23.263		
11,725.0	11,648.0	11,466.6	11,440.2	15.0	13.5	-60.85	312.7	-402.8	681.4	652.5	28.84	23.627		
11,750.0	11,660.9	11,475.0	11,447.9	15.0	13.5	-60.85	316.1	-402.8	701.1	672.1	29.03	24.150		
11,775.0	11,672.6	11,475.0	11,447.9	15.1	13.5	-60.85	316.1	-402.8	721.2	691.9	29.36	24.568		
11,800.0	11,683.2	11,475.0	11,447.9	15.1	13.5	-60.85	316.1	-402.8	741.7	712.1	29.63	25.031		
11,825.0	11,692.6	11,475.0	11,447.9	15.1	13.5	-60.85	316.1	-402.8	762.5	732.6	29.86	25.535		
11,850.0	11,700.7	11,475.0	11,447.9	15.1	13.5	-60.85	316.1	-402.8	783.4	753.4	30.04	26.076		
11,875.0	11,707.7	11,467.3	11,440.8	15.1	13.5	-60.85	313.0	-402.8	804.4	774.1	30.33	26.519		
11,900.0	11,713.3	11,465.6	11,439.2	15.2	13.5	-60.85	312.3	-402.8	825.6	795.1	30.47	27.097		
11,925.0	11,717.7	11,463.4	11,437.2	15.2	13.5	-60.85	311.5	-402.8	846.7	816.1	30.57	27.697		
11,950.0	11,720.7	11,460.9	11,434.9	15.2	13.5	-60.85	310.5	-402.8	867.7	837.1	30.64	28.317		
11,975.0	11,722.5	11,457.9	11,432.1	15.2	13.4	-60.85	309.4	-402.8	888.6	857.9	30.69	28.953		
11,996.2	11,723.0	11,450.0	11,424.8	15.2	13.4	-60.85	306.5	-402.8	906.2	875.4	30.80	29.422		
12,000.0	11,723.0	11,450.0	11,424.8	15.2	13.4	-60.85	306.5	-402.8	909.3	878.5	30.79	29.530		
12,100.0	11,723.0	11,450.0	11,424.8	15.2	13.4	-60.85	306.5	-402.8	993.4	962.7	30.65	32.414		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #111H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11417-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)					
0.0	0.0	1.4	1.4	3.0	3.0	12.99		140.4	32.4	144.1				
100.0	100.0	101.4	101.4	3.0	3.0	12.99		140.4	32.4	144.1	138.1	6.00	24.007	
200.0	200.0	201.4	201.4	3.0	3.0	12.99		140.4	32.4	144.1	138.0	6.01	23.969	
300.0	300.0	301.4	301.4	3.0	3.0	12.99		140.4	32.4	144.1	138.0	6.03	23.887	
400.0	400.0	401.4	401.4	3.0	3.0	12.99		140.4	32.4	144.1	138.0	6.06	23.763	
500.0	500.0	501.4	501.4	3.1	3.1	12.99		140.4	32.4	144.1	138.0	6.10	23.597	
600.0	600.0	601.4	601.4	3.1	3.1	12.99		140.4	32.4	144.1	137.9	6.16	23.394	
700.0	700.0	701.4	701.4	3.1	3.1	12.99		140.4	32.4	144.1	137.8	6.22	23.156	
800.0	800.0	801.4	801.4	3.2	3.2	12.99		140.4	32.4	144.1	137.8	6.29	22.886	
900.0	900.0	901.4	901.4	3.2	3.2	12.99		140.4	32.4	144.1	137.7	6.38	22.588	
1,000.0	1,000.0	1,001.4	1,001.4	3.2	3.2	12.99		140.4	32.4	144.1	137.6	6.47	22.266	
1,100.0	1,100.0	1,101.4	1,101.4	3.3	3.3	12.99		140.4	32.4	144.1	137.5	6.57	21.923	
1,200.0	1,200.0	1,201.4	1,201.4	3.4	3.4	12.99		140.4	32.4	144.1	137.4	6.68	21.563	
1,300.0	1,300.0	1,301.4	1,301.4	3.4	3.4	12.99		140.4	32.4	144.1	137.3	6.80	21.189	
1,400.0	1,400.0	1,401.4	1,401.4	3.5	3.5	12.99		140.4	32.4	144.1	137.1	6.92	20.805	
1,500.0	1,500.0	1,501.4	1,501.4	3.5	3.5	12.99		140.4	32.4	144.1	137.0	7.06	20.414	
1,600.0	1,600.0	1,601.4	1,601.4	3.6	3.6	12.99		140.4	32.4	144.1	136.9	7.20	20.018	
1,700.0	1,700.0	1,701.4	1,701.4	3.7	3.7	12.99		140.4	32.4	144.1	136.7	7.34	19.619	
1,800.0	1,800.0	1,801.4	1,801.4	3.8	3.8	12.99		140.4	32.4	144.1	136.6	7.49	19.221	
1,900.0	1,900.0	1,901.4	1,901.4	3.9	3.9	12.99		140.4	32.4	144.1	136.4	7.65	18.824	
2,000.0	2,000.0	2,001.4	2,001.4	3.9	3.9	12.99		140.4	32.4	144.1	136.2	7.82	18.431	
2,100.0	2,100.0	2,101.4	2,101.4	4.0	4.0	12.99		140.4	32.4	144.1	136.1	7.98	18.042	
2,200.0	2,200.0	2,201.4	2,201.4	4.1	4.1	12.99		140.4	32.4	144.1	135.9	8.16	17.660	
2,300.0	2,300.0	2,301.4	2,301.4	4.2	4.2	12.99		140.4	32.4	144.1	135.7	8.34	17.283	
2,400.0	2,400.0	2,401.4	2,401.4	4.3	4.3	12.99		140.4	32.4	144.1	135.5	8.52	16.915	
2,500.0	2,500.0	2,501.4	2,501.4	4.4	4.4	12.99		140.4	32.4	144.1	135.4	8.70	16.554	
2,600.0	2,600.0	2,601.4	2,601.4	4.5	4.5	-10.65		140.4	32.4	142.3	133.5	8.89	16.006	
2,700.0	2,699.9	2,701.3	2,701.3	4.6	4.6	-10.92		140.4	32.4	138.9	129.8	9.09	15.285	
2,800.0	2,799.9	2,801.3	2,801.3	4.7	4.7	-11.20		140.4	32.4	135.5	126.2	9.29	14.589	
2,900.0	2,899.8	2,901.2	2,901.2	4.8	4.8	-11.49		140.4	32.4	132.1	122.6	9.49	13.918	
3,000.0	2,999.7	3,001.1	3,001.1	4.9	4.9	-11.80		140.4	32.4	128.6	119.0	9.69	13.271	
3,100.0	3,099.7	3,101.1	3,101.1	5.0	5.0	-12.13		140.4	32.4	125.2	115.3	9.90	12.647	
3,200.0	3,199.6	3,201.0	3,201.0	5.1	5.1	-12.48		140.4	32.4	121.8	111.7	10.11	12.047	
3,300.0	3,299.6	3,301.0	3,301.0	5.2	5.2	-12.84		140.4	32.4	118.4	108.1	10.33	11.468	
3,400.0	3,399.5	3,400.9	3,400.9	5.3	5.3	-13.23		140.4	32.4	115.0	104.5	10.54	10.912	
3,500.0	3,499.4	3,500.8	3,500.8	5.4	5.4	-13.64		140.4	32.4	111.6	100.9	10.76	10.375	
3,600.0	3,599.4	3,600.8	3,600.8	5.5	5.5	-14.07		140.4	32.4	108.2	97.3	10.98	9.859	
3,700.0	3,699.3	3,700.7	3,700.7	5.6	5.7	-14.54		140.4	32.4	104.9	93.7	11.20	9.363	
3,721.2	3,720.5	3,721.9	3,721.9	5.6	5.7	-14.64		140.4	32.4	104.1	92.9	11.25	9.260	
3,800.0	3,799.3	3,800.7	3,800.7	5.7	5.8	-14.95		140.4	32.4	102.0	90.6	11.42	8.931	
3,900.0	3,899.3	3,900.7	3,900.7	5.8	5.9	-15.13		140.4	32.4	100.8	89.2	11.64	8.657	
3,921.2	3,920.5	3,921.9	3,921.9	5.8	5.9	8.38		140.4	32.4	100.8	89.1	11.69	8.619	
4,000.0	3,999.3	4,000.7	4,000.7	5.9	6.0	8.38		140.4	32.4	100.8	88.9	11.87	8.490	
4,100.0	4,099.3	4,100.7	4,100.7	6.0	6.1	8.38		140.4	32.4	100.8	88.7	12.10	8.331	
4,200.0	4,199.3	4,200.7	4,200.7	6.1	6.2	8.38		140.4	32.4	100.8	88.4	12.32	8.177	
4,300.0	4,299.3	4,300.7	4,300.7	6.3	6.3	8.38		140.4	32.4	100.8	88.2	12.55	8.028	
4,400.0	4,399.3	4,400.7	4,400.7	6.4	6.5	8.38		140.4	32.4	100.8	88.0	12.78	7.883	
4,500.0	4,499.3	4,500.7	4,500.7	6.5	6.6	8.38		140.4	32.4	100.8	87.8	13.01	7.743	
4,600.0	4,599.3	4,600.7	4,600.7	6.6	6.7	8.38		140.4	32.4	100.8	87.5	13.25	7.607	
4,700.0	4,699.3	4,700.7	4,700.7	6.7	6.8	8.38		140.4	32.4	100.8	87.3	13.48	7.475	
4,800.0	4,799.3	4,800.7	4,800.7	6.8	6.9	8.38		140.4	32.4	100.8	87.1	13.72	7.347	
4,900.0	4,899.3	4,900.7	4,900.7	7.0	7.0	8.38		140.4	32.4	100.8	86.8	13.95	7.223	

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #111H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11417-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,999.3	5,000.7	5,000.7	7.1	7.2	8.38	140.4	32.4	100.8	86.6	14.19	7.102		
5,100.0	5,099.3	5,100.7	5,100.7	7.2	7.3	8.38	140.4	32.4	100.8	86.3	14.43	6.985		
5,200.0	5,199.3	5,200.7	5,200.7	7.3	7.4	8.38	140.4	32.4	100.8	86.1	14.66	6.872		
5,300.0	5,299.3	5,300.7	5,300.7	7.4	7.5	8.38	140.4	32.4	100.8	85.9	14.90	6.762		
5,400.0	5,399.3	5,400.7	5,400.7	7.5	7.6	8.38	140.4	32.4	100.8	85.6	15.14	6.654		
5,500.0	5,499.3	5,500.7	5,500.7	7.7	7.8	8.38	140.4	32.4	100.8	85.4	15.38	6.550		
5,600.0	5,599.3	5,600.7	5,600.7	7.8	7.9	8.38	140.4	32.4	100.8	85.1	15.62	6.449		
5,700.0	5,699.3	5,700.7	5,700.7	7.9	8.0	8.38	140.4	32.4	100.8	84.9	15.87	6.351		
5,800.0	5,799.3	5,800.7	5,800.7	8.0	8.1	8.38	140.4	32.4	100.8	84.7	16.11	6.255		
5,900.0	5,899.3	5,900.7	5,900.7	8.2	8.3	8.38	140.4	32.4	100.8	84.4	16.35	6.162		
6,000.0	5,999.3	6,000.7	6,000.7	8.3	8.4	8.38	140.4	32.4	100.8	84.2	16.60	6.072		
6,100.0	6,099.3	6,100.7	6,100.7	8.4	8.5	8.38	140.4	32.4	100.8	83.9	16.84	5.984		
6,200.0	6,199.3	6,200.7	6,200.7	8.5	8.6	8.38	140.4	32.4	100.8	83.7	17.08	5.898		
6,300.0	6,299.3	6,300.7	6,300.7	8.6	8.8	8.38	140.4	32.4	100.8	83.4	17.33	5.815		
6,400.0	6,399.3	6,400.7	6,400.7	8.8	8.9	8.38	140.4	32.4	100.8	83.2	17.58	5.733		
6,500.0	6,499.3	6,500.7	6,500.7	8.9	9.0	8.38	140.4	32.4	100.8	82.9	17.82	5.654		
6,600.0	6,599.3	6,600.7	6,600.7	9.0	9.1	8.38	140.4	32.4	100.8	82.7	18.07	5.577		
6,700.0	6,699.3	6,700.7	6,700.7	9.1	9.2	8.38	140.4	32.4	100.8	82.5	18.32	5.502		
6,800.0	6,799.3	6,800.7	6,800.7	9.3	9.4	8.38	140.4	32.4	100.8	82.2	18.56	5.428		
6,900.0	6,899.3	6,900.7	6,900.7	9.4	9.5	8.38	140.4	32.4	100.8	82.0	18.81	5.357		
7,000.0	6,999.3	7,000.7	7,000.7	9.5	9.6	8.38	140.4	32.4	100.8	81.7	19.06	5.287		
7,100.0	7,099.3	7,100.7	7,100.7	9.6	9.7	8.38	140.4	32.4	100.8	81.5	19.31	5.219		
7,200.0	7,199.3	7,200.7	7,200.7	9.8	9.9	8.38	140.4	32.4	100.8	81.2	19.56	5.153		
7,300.0	7,299.3	7,300.7	7,300.7	9.9	10.0	8.38	140.4	32.4	100.8	81.0	19.81	5.088		
7,400.0	7,399.3	7,400.7	7,400.7	10.0	10.1	8.38	140.4	32.4	100.8	80.7	20.05	5.025		
7,500.0	7,499.3	7,500.7	7,500.7	10.1	10.3	8.38	140.4	32.4	100.8	80.5	20.30	4.963		
7,600.0	7,599.3	7,600.7	7,600.7	10.3	10.4	8.38	140.4	32.4	100.8	80.2	20.55	4.902		
7,700.0	7,699.3	7,700.7	7,700.7	10.4	10.5	8.38	140.4	32.4	100.8	80.0	20.80	4.843		
7,800.0	7,799.3	7,800.7	7,800.7	10.5	10.6	8.38	140.4	32.4	100.8	79.7	21.06	4.786		
7,900.0	7,899.3	7,900.7	7,900.7	10.6	10.8	8.38	140.4	32.4	100.8	79.5	21.31	4.729		
8,000.0	7,999.3	8,000.7	8,000.7	10.8	10.9	8.38	140.4	32.4	100.8	79.2	21.56	4.674		
8,100.0	8,099.3	8,100.7	8,100.7	10.9	11.0	8.38	140.4	32.4	100.8	79.0	21.81	4.620		
8,200.0	8,199.3	8,200.7	8,200.7	11.0	11.1	8.38	140.4	32.4	100.8	78.7	22.06	4.568		
8,300.0	8,299.3	8,300.7	8,300.7	11.2	11.3	8.38	140.4	32.4	100.8	78.5	22.31	4.516		
8,400.0	8,399.3	8,400.7	8,400.7	11.3	11.4	8.38	140.4	32.4	100.8	78.2	22.56	4.466		
8,500.0	8,499.3	8,500.7	8,500.7	11.4	11.5	8.38	140.4	32.4	100.8	77.9	22.82	4.416		
8,600.0	8,599.3	8,600.7	8,600.7	11.5	11.6	8.38	140.4	32.4	100.8	77.7	23.07	4.368		
8,700.0	8,699.3	8,700.7	8,700.7	11.7	11.8	8.38	140.4	32.4	100.8	77.4	23.32	4.321		
8,800.0	8,799.3	8,800.7	8,800.7	11.8	11.9	8.38	140.4	32.4	100.8	77.2	23.58	4.274		
8,900.0	8,899.3	8,900.7	8,900.7	11.9	12.0	8.38	140.4	32.4	100.8	76.9	23.83	4.229		
9,000.0	8,999.3	9,000.7	9,000.7	12.0	12.2	8.38	140.4	32.4	100.8	76.7	24.08	4.184		
9,100.0	9,099.3	9,100.7	9,100.7	12.2	12.3	8.38	140.4	32.4	100.8	76.4	24.34	4.141		
9,200.0	9,199.3	9,200.7	9,200.7	12.3	12.4	8.38	140.4	32.4	100.8	76.2	24.59	4.098		
9,300.0	9,299.3	9,300.7	9,300.7	12.4	12.5	8.38	140.4	32.4	100.8	75.9	24.84	4.056		
9,400.0	9,399.3	9,400.7	9,400.7	12.6	12.7	8.38	140.4	32.4	100.8	75.7	25.10	4.015		
9,500.0	9,499.3	9,500.7	9,500.7	12.7	12.8	8.38	140.4	32.4	100.8	75.4	25.35	3.975		
9,600.0	9,599.3	9,600.7	9,600.7	12.8	12.9	8.38	140.4	32.4	100.8	75.2	25.61	3.935		
9,700.0	9,699.3	9,700.7	9,700.7	12.9	13.1	8.38	140.4	32.4	100.8	74.9	25.86	3.897		
9,800.0	9,799.3	9,800.7	9,800.7	13.1	13.2	8.38	140.4	32.4	100.8	74.7	26.11	3.859		
9,900.0	9,899.3	9,900.7	9,900.7	13.2	13.3	8.38	140.4	32.4	100.8	74.4	26.37	3.821		
10,000.0	9,999.3	10,000.7	10,000.7	13.3	13.4	8.38	140.4	32.4	100.8	74.1	26.62	3.785		
10,100.0	10,099.3	10,100.7	10,100.7	13.5	13.6	8.38	140.4	32.4	100.8	73.9	26.88	3.749		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #111H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11417-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.0	10,199.3	10,200.7	10,200.7	13.6	13.7	8.38	140.4	32.4	100.8	73.6	27.13	3.714		
10,300.0	10,299.3	10,300.7	10,300.7	13.7	13.8	8.38	140.4	32.4	100.8	73.4	27.39	3.679		
10,400.0	10,399.3	10,400.7	10,400.7	13.8	14.0	8.38	140.4	32.4	100.8	73.1	27.64	3.645		
10,500.0	10,499.3	10,500.7	10,500.7	14.0	14.1	8.38	140.4	32.4	100.8	72.9	27.90	3.612		
10,600.0	10,599.3	10,600.7	10,600.7	14.1	14.2	8.38	140.4	32.4	100.8	72.6	28.16	3.579		
10,700.0	10,699.3	10,700.7	10,700.7	14.2	14.3	8.38	140.4	32.4	100.8	72.4	28.41	3.547		
10,800.0	10,799.3	10,800.7	10,800.7	14.4	14.5	8.38	140.4	32.4	100.8	72.1	28.67	3.515		
10,900.0	10,899.3	10,900.7	10,900.7	14.5	14.6	8.38	140.4	32.4	100.8	71.8	28.92	3.484		
11,000.0	10,999.3	11,000.7	11,000.7	14.6	14.7	8.38	140.4	32.4	100.8	71.6	29.18	3.453		
11,100.0	11,099.3	11,100.7	11,100.7	14.7	14.9	8.38	140.4	32.4	100.8	71.4	29.38	3.430		
11,200.0	11,199.3	11,200.7	11,200.7	14.7	15.0	8.38	140.4	32.4	100.8	71.2	29.52	3.414		
11,246.2	11,245.5	11,246.9	11,246.9	14.7	15.0	8.38	140.4	32.4	100.8	71.2	29.59	3.406 CC, ES		
11,250.0	11,249.3	11,250.7	11,250.7	14.7	15.0	-171.30	140.4	32.4	100.8	71.2	29.59	3.406 SF		
11,275.0	11,274.2	11,275.6	11,275.6	14.7	15.1	-171.36	140.4	32.4	101.6	72.0	29.63	3.430		
11,300.0	11,299.1	11,300.5	11,300.5	14.7	15.1	-171.50	140.4	32.4	103.8	74.1	29.68	3.496		
11,325.0	11,323.9	11,325.3	11,325.3	14.7	15.1	-171.71	140.4	32.4	107.2	77.4	29.73	3.605		
11,350.0	11,348.4	11,349.8	11,349.8	14.7	15.2	-171.98	140.4	32.4	111.9	82.1	29.79	3.756		
11,375.0	11,372.7	11,374.1	11,374.1	14.7	15.2	-172.29	140.4	32.4	117.9	88.0	29.84	3.949		
11,400.0	11,396.6	11,398.0	11,398.0	14.8	15.2	-172.62	140.4	32.4	125.1	95.2	29.90	4.183		
11,425.0	11,420.1	11,420.4	11,420.4	14.8	15.3	-172.94	140.4	32.4	133.6	103.6	29.96	4.458		
11,450.0	11,443.1	11,438.1	11,438.1	14.8	15.3	-173.18	140.9	32.4	143.9	113.8	30.05	4.788		
11,475.0	11,465.6	11,454.7	11,454.6	14.8	15.3	-173.42	141.9	32.3	156.1	125.9	30.19	5.171		
11,500.0	11,487.5	11,470.1	11,470.0	14.8	15.3	-173.62	143.4	32.3	170.2	139.8	30.39	5.601		
11,525.0	11,508.7	11,484.2	11,484.0	14.8	15.3	-173.78	145.2	32.2	185.9	155.3	30.61	6.074		
11,550.0	11,529.2	11,500.0	11,499.6	14.9	15.3	-173.99	147.6	32.1	203.2	172.5	30.75	6.609		
11,575.0	11,548.9	11,508.6	11,508.0	14.9	15.4	-173.93	149.2	32.1	221.8	190.7	31.11	7.130		
11,600.0	11,567.8	11,518.8	11,518.0	14.9	15.4	-173.89	151.3	32.0	241.6	210.3	31.36	7.705		
11,625.0	11,585.8	11,525.0	11,524.1	14.9	15.4	-173.64	152.6	32.0	262.5	230.8	31.71	8.278		
11,650.0	11,602.8	11,535.5	11,534.3	15.0	15.4	-173.51	155.1	31.9	284.3	252.4	31.83	8.930		
11,675.0	11,618.9	11,542.2	11,540.7	15.0	15.4	-173.11	156.8	31.8	306.8	274.8	32.04	9.576		
11,700.0	11,634.0	11,550.0	11,548.3	15.0	15.4	-172.65	158.9	31.7	330.0	297.9	32.15	10.266		
11,725.0	11,648.0	11,550.0	11,548.3	15.0	15.4	-171.38	158.9	31.7	353.8	321.3	32.47	10.896		
11,750.0	11,660.9	11,555.8	11,553.8	15.0	15.4	-170.11	160.5	31.7	378.0	345.4	32.53	11.617		
11,775.0	11,672.6	11,558.4	11,556.4	15.1	15.4	-167.62	161.3	31.7	402.5	369.8	32.65	12.326		
11,800.0	11,683.2	11,560.3	11,558.1	15.1	15.4	-162.72	161.8	31.6	427.2	394.5	32.74	13.048		
11,825.0	11,692.6	11,561.4	11,559.2	15.1	15.4	-149.83	162.2	31.6	452.1	419.3	32.81	13.779		
11,850.0	11,700.7	11,561.7	11,559.5	15.1	15.4	-94.68	162.3	31.6	477.1	444.2	32.85	14.521		
11,875.0	11,707.7	11,561.4	11,559.2	15.1	15.4	-30.59	162.2	31.6	502.0	469.2	32.88	15.270		
11,900.0	11,713.3	11,560.5	11,558.4	15.2	15.4	-15.57	161.9	31.6	527.0	494.1	32.88	16.026		
11,925.0	11,717.7	11,559.1	11,557.0	15.2	15.4	-10.13	161.5	31.7	551.8	518.9	32.87	16.789		
11,950.0	11,720.7	11,557.1	11,555.1	15.2	15.4	-7.39	160.9	31.7	576.4	543.5	32.83	17.555		
11,975.0	11,722.5	11,550.0	11,548.3	15.2	15.4	-5.60	158.9	31.7	600.8	567.9	32.88	18.272		
11,996.2	11,723.0	11,550.0	11,548.3	15.2	15.4	-4.77	158.9	31.7	621.3	588.5	32.77	18.956		
12,000.0	11,723.0	11,550.0	11,548.3	15.2	15.4	-4.77	158.9	31.7	624.9	592.1	32.75	19.078		
12,100.0	11,723.0	11,540.6	11,539.2	15.2	15.4	-4.56	156.4	31.8	721.2	688.7	32.50	22.191		
12,200.0	11,723.0	11,525.0	11,524.1	15.2	15.4	-4.25	152.6	32.0	818.1	785.7	32.42	25.238		
12,300.0	11,723.0	11,525.0	11,524.1	15.3	15.4	-4.25	152.6	32.0	915.4	883.2	32.18	28.443		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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, 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)				
0.0	0.0	1.2	1.2	3.0	3.0	24.94	141.1	65.6	155.6					
100.0	100.0	101.2	101.2	3.0	3.0	24.94	141.1	65.6	155.6	149.6	6.00	25.937		
200.0	200.0	201.2	201.2	3.0	3.0	24.94	141.1	65.6	155.6	149.6	6.01	25.900		
300.0	300.0	301.2	301.2	3.0	3.0	24.94	141.1	65.6	155.6	149.6	6.03	25.820		
400.0	400.0	401.2	401.2	3.0	3.0	24.94	141.1	65.6	155.6	149.6	6.06	25.698		
500.0	500.0	501.2	501.2	3.1	3.1	24.94	141.1	65.6	155.6	149.5	6.09	25.536		
600.0	600.0	601.2	601.2	3.1	3.1	24.94	141.1	65.6	155.6	149.5	6.14	25.336		
700.0	700.0	701.2	701.2	3.1	3.1	24.94	141.1	65.6	155.6	149.4	6.20	25.101		
800.0	800.0	801.2	801.2	3.2	3.2	24.94	141.1	65.6	155.6	149.4	6.27	24.834		
900.0	900.0	901.2	901.2	3.2	3.2	24.94	141.1	65.6	155.6	149.3	6.34	24.539		
1,000.0	1,000.0	1,001.2	1,001.2	3.2	3.2	24.94	141.1	65.6	155.6	149.2	6.43	24.218		
1,100.0	1,100.0	1,101.2	1,101.2	3.3	3.3	24.94	141.1	65.6	155.6	149.1	6.52	23.875		
1,200.0	1,200.0	1,201.2	1,201.2	3.4	3.4	24.94	141.1	65.6	155.6	149.0	6.62	23.514		
1,300.0	1,300.0	1,301.2	1,301.2	3.4	3.4	24.94	141.1	65.6	155.6	148.9	6.73	23.137		
1,400.0	1,400.0	1,401.2	1,401.2	3.5	3.5	24.94	141.1	65.6	155.6	148.8	6.84	22.749		
1,500.0	1,500.0	1,501.2	1,501.2	3.5	3.5	24.94	141.1	65.6	155.6	148.7	6.96	22.351		
1,600.0	1,600.0	1,601.2	1,601.2	3.6	3.6	24.94	141.1	65.6	155.6	148.5	7.09	21.947		
1,700.0	1,700.0	1,701.2	1,701.2	3.7	3.7	24.94	141.1	65.6	155.6	148.4	7.23	21.540		
1,800.0	1,800.0	1,801.2	1,801.2	3.8	3.8	24.94	141.1	65.6	155.6	148.3	7.37	21.130		
1,900.0	1,900.0	1,901.2	1,901.2	3.9	3.9	24.94	141.1	65.6	155.6	148.1	7.51	20.721		
2,000.0	2,000.0	2,001.2	2,001.2	3.9	3.9	24.94	141.1	65.6	155.6	148.0	7.66	20.313		
2,100.0	2,100.0	2,101.2	2,101.2	4.0	4.0	24.94	141.1	65.6	155.6	147.8	7.82	19.909		
2,200.0	2,200.0	2,201.2	2,201.2	4.1	4.1	24.94	141.1	65.6	155.6	147.7	7.98	19.510		
2,300.0	2,300.0	2,301.2	2,301.2	4.2	4.2	24.94	141.1	65.6	155.6	147.5	8.14	19.116		
2,400.0	2,400.0	2,401.2	2,401.2	4.3	4.3	24.94	141.1	65.6	155.6	147.3	8.31	18.728		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	24.94	141.1	65.6	155.6	147.2	8.48	18.351		
2,516.7	2,516.7	2,517.2	2,517.2	4.4	4.4	1.44	141.1	65.7	155.6	147.1	8.51	18.294		
2,600.0	2,600.0	2,597.5	2,597.5	4.5	4.5	1.88	141.7	67.2	155.1	146.5	8.64	17.955		
2,646.5	2,646.5	2,642.3	2,642.3	4.5	4.5	2.40	142.3	69.0	154.8	146.1	8.70	17.800 CC, ES		
2,700.0	2,699.9	2,693.8	2,693.6	4.6	4.5	3.22	143.2	71.8	155.2	146.4	8.77	17.702 SF		
2,800.0	2,799.9	2,789.8	2,789.3	4.7	4.6	5.36	145.8	79.5	157.8	149.0	8.87	17.787		
2,900.0	2,899.8	2,889.0	2,888.0	4.8	4.6	7.94	149.1	89.3	162.2	153.3	8.97	18.080		
3,000.0	2,999.7	2,988.6	2,987.0	4.9	4.7	10.40	152.5	99.2	167.0	157.9	9.08	18.396		
3,100.0	3,099.7	3,088.3	3,086.1	5.0	4.7	12.72	155.8	109.0	172.0	162.8	9.18	18.732		
3,200.0	3,199.6	3,187.9	3,185.2	5.1	4.8	14.91	159.1	118.9	177.3	168.0	9.29	19.084		
3,300.0	3,299.6	3,287.5	3,284.3	5.2	4.9	16.97	162.4	128.8	182.9	173.5	9.40	19.448		
3,400.0	3,399.5	3,387.2	3,383.4	5.3	5.0	18.90	165.8	138.6	188.6	179.1	9.52	19.821		
3,500.0	3,499.4	3,486.8	3,482.5	5.4	5.0	20.72	169.1	148.5	194.6	185.0	9.63	20.201		
3,600.0	3,599.4	3,586.4	3,581.6	5.5	5.1	22.42	172.4	158.4	200.8	191.0	9.75	20.584		
3,700.0	3,699.3	3,686.1	3,680.7	5.6	5.2	24.03	175.8	168.2	207.1	197.2	9.88	20.969		
3,721.2	3,720.5	3,707.2	3,701.7	5.6	5.2	24.36	176.5	170.3	208.4	198.5	9.90	21.051		
3,800.0	3,799.3	3,785.7	3,779.7	5.7	5.3	25.50	179.1	178.1	214.0	204.0	10.00	21.397		
3,900.0	3,899.3	3,885.2	3,878.7	5.8	5.3	26.70	182.4	188.0	222.6	212.5	10.14	21.948		
3,921.2	3,920.5	3,906.3	3,899.7	5.8	5.4	50.43	183.1	190.1	224.7	214.5	10.17	22.083		
4,000.0	3,999.3	3,984.7	3,977.6	5.9	5.4	51.15	185.7	197.8	232.4	222.1	10.28	22.606		
4,100.0	4,099.3	4,084.1	4,076.6	6.0	5.5	52.01	189.1	207.7	242.2	231.8	10.42	23.251		
4,200.0	4,199.3	4,183.6	4,175.5	6.1	5.6	52.79	192.4	217.5	252.1	241.6	10.56	23.878		
4,300.0	4,299.3	4,283.0	4,274.4	6.3	5.7	53.52	195.7	227.4	262.1	251.4	10.70	24.487		
4,400.0	4,399.3	4,382.5	4,373.3	6.4	5.8	54.19	199.0	237.2	272.0	261.2	10.85	25.076		
4,500.0	4,499.3	4,481.9	4,472.2	6.5	5.9	54.82	202.4	247.1	282.1	271.1	11.00	25.648		
4,600.0	4,599.3	4,581.4	4,571.1	6.6	6.0	55.40	205.7	256.9	292.1	280.9	11.15	26.201		
4,700.0	4,699.3	4,680.8	4,670.0	6.7	6.1	55.95	209.0	266.8	302.2	290.9	11.30	26.737		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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, 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		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,799.3	4,780.3	4,768.9	6.8	6.2	56.46	212.3	276.6	312.3	300.8	11.46	27.256	
4,900.0	4,899.3	4,879.8	4,867.8	7.0	6.3	56.93	215.7	286.5	322.4	310.8	11.61	27.759	
5,000.0	4,999.3	4,979.2	4,966.7	7.1	6.4	57.38	219.0	296.3	332.5	320.7	11.77	28.245	
5,100.0	5,099.3	5,078.7	5,065.6	7.2	6.5	57.80	222.3	306.2	342.7	330.7	11.93	28.715	
5,200.0	5,199.3	5,178.1	5,164.5	7.3	6.6	58.20	225.6	316.0	352.8	340.7	12.10	29.170	
5,300.0	5,299.3	5,277.6	5,263.4	7.4	6.7	58.58	229.0	325.9	363.0	350.8	12.26	29.611	
5,400.0	5,399.3	5,377.0	5,362.3	7.5	6.8	58.93	232.3	335.7	373.2	360.8	12.43	30.037	
5,500.0	5,499.3	5,476.5	5,461.3	7.7	6.9	59.27	235.6	345.6	383.4	370.9	12.59	30.450	
5,600.0	5,599.3	5,575.9	5,560.2	7.8	7.0	59.59	238.9	355.4	393.7	380.9	12.76	30.849	
5,700.0	5,699.3	5,675.4	5,659.1	7.9	7.1	59.89	242.3	365.3	403.9	391.0	12.93	31.236	
5,800.0	5,799.3	5,774.8	5,758.0	8.0	7.2	60.17	245.6	375.1	414.2	401.1	13.10	31.610	
5,900.0	5,899.3	5,874.3	5,856.9	8.2	7.3	60.45	248.9	385.0	424.4	411.2	13.27	31.973	
6,000.0	5,999.3	5,973.7	5,955.8	8.3	7.4	60.71	252.2	394.8	434.7	421.3	13.45	32.324	
6,100.0	6,099.3	6,073.2	6,054.7	8.4	7.5	60.96	255.6	404.7	445.0	431.4	13.62	32.664	
6,200.0	6,199.3	6,172.6	6,153.6	8.5	7.6	61.19	258.9	414.5	455.3	441.5	13.80	32.994	
6,300.0	6,299.3	6,272.1	6,252.5	8.6	7.7	61.42	262.2	424.4	465.6	451.6	13.98	33.313	
6,400.0	6,399.3	6,371.5	6,351.4	8.8	7.9	61.64	265.5	434.2	475.9	461.7	14.15	33.622	
6,500.0	6,499.3	6,478.5	6,457.9	8.9	8.0	61.85	268.9	444.1	485.5	471.2	14.33	33.883	
6,600.0	6,599.3	6,587.4	6,566.4	9.0	8.1	62.01	271.6	452.3	493.4	478.9	14.51	33.995	
6,700.0	6,699.3	6,696.5	6,675.4	9.1	8.2	62.14	273.8	458.6	499.3	484.6	14.70	33.960	
6,800.0	6,799.3	6,805.9	6,784.6	9.3	8.3	62.22	275.2	462.9	503.4	488.5	14.90	33.781	
6,900.0	6,899.3	6,915.4	6,894.1	9.4	8.4	62.26	276.0	465.2	505.6	490.5	15.11	33.470	
7,000.0	6,999.3	7,021.8	7,000.5	9.5	8.6	62.27	276.1	465.6	506.0	490.7	15.29	33.102	
7,100.0	7,099.3	7,121.8	7,100.5	9.6	8.7	62.27	276.1	465.6	506.0	490.6	15.44	32.767	
7,200.0	7,199.3	7,221.8	7,200.5	9.8	8.8	62.27	276.1	465.6	506.0	490.4	15.60	32.438	
7,300.0	7,299.3	7,321.8	7,300.5	9.9	8.9	62.27	276.1	465.6	506.0	490.3	15.76	32.115	
7,400.0	7,399.3	7,421.8	7,400.5	10.0	9.0	62.27	276.1	465.6	506.0	490.1	15.91	31.797	
7,500.0	7,499.3	7,521.8	7,500.5	10.1	9.1	62.27	276.1	465.6	506.0	490.0	16.07	31.485	
7,600.0	7,599.3	7,621.8	7,600.5	10.3	9.2	62.27	276.1	465.6	506.0	489.8	16.23	31.178	
7,700.0	7,699.3	7,721.8	7,700.5	10.4	9.3	62.27	276.1	465.6	506.0	489.6	16.39	30.877	
7,800.0	7,799.3	7,821.8	7,800.5	10.5	9.4	62.27	276.1	465.6	506.0	489.5	16.55	30.580	
7,900.0	7,899.3	7,921.8	7,900.5	10.6	9.5	62.27	276.1	465.6	506.0	489.3	16.71	30.289	
8,000.0	7,999.3	8,021.8	8,000.5	10.8	9.6	62.27	276.1	465.6	506.0	489.2	16.87	30.003	
8,100.0	8,099.3	8,121.8	8,100.5	10.9	9.7	62.27	276.1	465.6	506.0	489.0	17.03	29.722	
8,200.0	8,199.3	8,221.8	8,200.5	11.0	9.8	62.27	276.1	465.6	506.0	488.8	17.19	29.445	
8,300.0	8,299.3	8,321.8	8,300.5	11.2	9.9	62.27	276.1	465.6	506.0	488.7	17.35	29.173	
8,400.0	8,399.3	8,421.8	8,400.5	11.3	10.0	62.27	276.1	465.6	506.0	488.5	17.51	28.906	
8,500.0	8,499.3	8,521.8	8,500.5	11.4	10.1	62.27	276.1	465.6	506.0	488.4	17.67	28.643	
8,600.0	8,599.3	8,621.8	8,600.5	11.5	10.2	62.27	276.1	465.6	506.0	488.2	17.83	28.384	
8,700.0	8,699.3	8,721.8	8,700.5	11.7	10.4	62.27	276.1	465.6	506.0	488.0	17.99	28.130	
8,800.0	8,799.3	8,821.8	8,800.5	11.8	10.5	62.27	276.1	465.6	506.0	487.9	18.15	27.880	
8,900.0	8,899.3	8,921.8	8,900.5	11.9	10.6	62.27	276.1	465.6	506.0	487.7	18.31	27.633	
9,000.0	8,999.3	9,021.8	9,000.5	12.0	10.7	62.27	276.1	465.6	506.0	487.6	18.47	27.391	
9,100.0	9,099.3	9,121.8	9,100.5	12.2	10.8	62.27	276.1	465.6	506.0	487.4	18.64	27.153	
9,200.0	9,199.3	9,221.8	9,200.5	12.3	10.9	62.27	276.1	465.6	506.0	487.2	18.80	26.918	
9,300.0	9,299.3	9,321.8	9,300.5	12.4	11.0	62.27	276.1	465.6	506.0	487.1	18.96	26.688	
9,400.0	9,399.3	9,421.8	9,400.5	12.6	11.1	62.27	276.1	465.6	506.0	486.9	19.12	26.461	
9,500.0	9,499.3	9,521.8	9,500.5	12.7	11.3	62.27	276.1	465.6	506.0	486.7	19.29	26.237	
9,600.0	9,599.3	9,621.8	9,600.5	12.8	11.4	62.27	276.1	465.6	506.0	486.6	19.45	26.017	
9,700.0	9,699.3	9,721.8	9,700.5	12.9	11.5	62.27	276.1	465.6	506.0	486.4	19.61	25.800	
9,800.0	9,799.3	9,821.8	9,800.5	13.1	11.6	62.27	276.1	465.6	506.0	486.3	19.78	25.587	
9,900.0	9,899.3	9,921.8	9,900.5	13.2	11.7	62.27	276.1	465.6	506.0	486.1	19.94	25.377	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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, 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)	Ellipses (usft)				
10,000.0	9,999.3	10,021.8	10,000.5	13.3	11.8	62.27	276.1	465.6	506.0	485.9	20.10	25.170		
10,100.0	10,099.3	10,121.8	10,100.5	13.5	11.9	62.27	276.1	465.6	506.0	485.8	20.27	24.966		
10,200.0	10,199.3	10,221.8	10,200.5	13.6	12.1	62.27	276.1	465.6	506.0	485.6	20.43	24.766		
10,300.0	10,299.3	10,321.8	10,300.5	13.7	12.2	62.27	276.1	465.6	506.0	485.4	20.60	24.568		
10,400.0	10,399.3	10,421.8	10,400.5	13.8	12.3	62.27	276.1	465.6	506.0	485.3	20.76	24.373		
10,500.0	10,499.3	10,521.8	10,500.5	14.0	12.4	62.27	276.1	465.6	506.0	485.1	20.93	24.181		
10,600.0	10,599.3	10,621.8	10,600.5	14.1	12.5	62.27	276.1	465.6	506.0	484.9	21.09	23.992		
10,700.0	10,699.3	10,721.8	10,700.5	14.2	12.6	62.27	276.1	465.6	506.0	484.8	21.26	23.806		
10,800.0	10,799.3	10,821.8	10,800.5	14.4	12.8	62.27	276.1	465.6	506.0	484.6	21.42	23.623		
10,900.0	10,899.3	10,921.8	10,900.5	14.5	12.9	62.27	276.1	465.6	506.0	484.4	21.59	23.442		
11,000.0	10,999.3	11,021.8	11,000.5	14.6	13.0	62.27	276.1	465.6	506.0	484.3	21.75	23.263		
11,100.0	11,099.3	11,121.8	11,100.5	14.7	13.1	62.27	276.1	465.6	506.0	484.1	21.88	23.125		
11,200.0	11,199.3	11,221.8	11,200.5	14.7	13.2	62.27	276.1	465.6	506.0	484.1	21.98	23.024		
11,246.2	11,245.5	11,268.0	11,246.7	14.7	13.3	62.27	276.1	465.6	506.0	484.0	22.02	22.983		
11,250.0	11,249.3	11,271.8	11,250.5	14.7	13.3	-117.41	276.1	465.6	506.0	484.0	22.02	22.980		
11,275.0	11,274.2	11,290.4	11,269.1	14.7	13.3	-117.44	276.4	465.6	506.6	484.5	22.07	22.956		
11,300.0	11,299.1	11,307.6	11,286.3	14.7	13.3	-117.51	277.2	465.6	508.1	485.9	22.17	22.919		
11,325.0	11,323.9	11,325.0	11,303.6	14.7	13.3	-117.64	278.7	465.5	510.6	488.2	22.32	22.872		
11,350.0	11,348.4	11,340.7	11,319.2	14.7	13.3	-117.74	280.5	465.3	514.1	491.6	22.54	22.811		
11,375.0	11,372.7	11,356.3	11,334.6	14.7	13.3	-117.85	282.9	465.2	518.7	495.9	22.80	22.748		
11,400.0	11,396.6	11,375.0	11,353.0	14.8	13.4	-118.12	286.4	465.0	524.4	501.3	23.08	22.722		
11,425.0	11,420.1	11,384.9	11,362.6	14.8	13.4	-117.92	288.5	464.8	531.1	507.7	23.48	22.624		
11,450.0	11,443.1	11,400.0	11,377.3	14.8	13.4	-117.95	292.2	464.6	539.1	515.2	23.85	22.602		
11,475.0	11,465.6	11,409.5	11,386.5	14.8	13.4	-117.56	294.7	464.5	548.2	523.9	24.32	22.542		
11,500.0	11,487.5	11,425.0	11,401.3	14.8	13.4	-117.50	299.2	464.2	558.5	533.7	24.71	22.599		
11,525.0	11,508.7	11,425.0	11,401.3	14.8	13.4	-116.13	299.2	464.2	569.8	544.5	25.35	22.476		
11,550.0	11,529.2	11,438.6	11,414.1	14.9	13.4	-115.71	303.6	463.9	582.3	556.5	25.76	22.604		
11,575.0	11,548.9	11,450.0	11,424.9	14.9	13.4	-114.99	307.5	463.6	595.9	569.7	26.19	22.754		
11,600.0	11,567.8	11,450.0	11,424.9	14.9	13.4	-113.02	307.5	463.6	610.5	583.7	26.80	22.778		
11,625.0	11,585.8	11,458.4	11,432.7	14.9	13.5	-111.66	310.5	463.5	626.0	598.8	27.22	22.993		
11,650.0	11,602.8	11,463.1	11,437.0	15.0	13.5	-109.71	312.3	463.3	642.4	614.7	27.68	23.206		
11,675.0	11,618.9	11,466.9	11,440.6	15.0	13.5	-107.43	313.8	463.2	659.6	631.5	28.12	23.461		
11,700.0	11,634.0	11,475.0	11,448.0	15.0	13.5	-105.40	317.0	463.0	677.6	649.2	28.42	23.839		
11,725.0	11,648.0	11,475.0	11,448.0	15.0	13.5	-102.17	317.0	463.0	696.1	667.3	28.84	24.137		
11,750.0	11,660.9	11,475.0	11,448.0	15.0	13.5	-98.67	317.0	463.0	715.3	686.1	29.21	24.485		
11,775.0	11,672.6	11,475.0	11,448.0	15.1	13.5	-94.91	317.0	463.0	734.9	705.3	29.54	24.880		
11,800.0	11,683.2	11,475.0	11,448.0	15.1	13.5	-90.92	317.0	463.0	754.8	725.0	29.81	25.319		
11,825.0	11,692.6	11,475.0	11,448.0	15.1	13.5	-86.76	317.0	463.0	775.1	745.1	30.04	25.799		
11,850.0	11,700.7	11,475.0	11,448.0	15.1	13.5	-82.48	317.0	463.0	795.6	765.4	30.23	26.317		
11,875.0	11,707.7	11,475.0	11,448.0	15.1	13.5	-78.13	317.0	463.0	816.3	785.9	30.38	26.869		
11,900.0	11,713.3	11,475.0	11,448.0	15.2	13.5	-73.80	317.0	463.0	837.1	806.6	30.49	27.453		
11,925.0	11,717.7	11,475.0	11,448.0	15.2	13.5	-69.54	317.0	463.0	857.9	827.3	30.57	28.066		
11,950.0	11,720.7	11,465.4	11,439.1	15.2	13.5	-64.46	313.2	463.3	878.5	847.7	30.77	28.552		
11,975.0	11,722.5	11,462.3	11,436.2	15.2	13.5	-60.31	312.0	463.4	899.0	868.2	30.83	29.166		
11,996.2	11,723.0	11,459.3	11,433.6	15.2	13.5	-56.98	310.9	463.4	916.4	885.5	30.85	29.700		
12,000.0	11,723.0	11,458.8	11,433.1	15.2	13.5	-56.94	310.7	463.4	919.5	888.6	30.86	29.797		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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)	Reference	Offset	Semi Major Axis (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	0.5	0.5	3.0	3.0	89.51		0.3	33.1	33.1					
100.0	100.0	100.5	100.5	3.0	3.0	89.51		0.3	33.1	33.1	27.1	6.00	5.510		
200.0	200.0	200.5	200.5	3.0	3.0	89.51		0.3	33.1	33.1	27.1	6.00	5.507		
300.0	300.0	300.5	300.5	3.0	3.0	89.51		0.3	33.1	33.1	27.1	6.01	5.502		
400.0	400.0	400.5	400.5	3.0	3.0	89.51		0.3	33.1	33.1	27.0	6.02	5.494		
500.0	500.0	500.5	500.5	3.1	3.1	89.51		0.3	33.1	33.1	27.0	6.03	5.482		
600.0	600.0	600.5	600.5	3.1	3.1	89.51		0.3	33.1	33.1	27.0	6.05	5.468		
700.0	700.0	700.5	700.5	3.1	3.1	89.51		0.3	33.1	33.1	27.0	6.07	5.451		
800.0	800.0	800.5	800.5	3.2	3.2	89.51		0.3	33.1	33.1	27.0	6.09	5.431		
900.0	900.0	900.5	900.5	3.2	3.2	89.51		0.3	33.1	33.1	26.9	6.11	5.409		
1,000.0	1,000.0	1,000.5	1,000.5	3.2	3.2	89.51		0.3	33.1	33.1	26.9	6.14	5.384		
1,100.0	1,100.0	1,100.5	1,100.5	3.3	3.3	89.51		0.3	33.1	33.1	26.9	6.17	5.357		
1,200.0	1,200.0	1,200.5	1,200.5	3.4	3.4	89.51		0.3	33.1	33.1	26.9	6.21	5.328		
1,300.0	1,300.0	1,300.5	1,300.5	3.4	3.4	89.51		0.3	33.1	33.1	26.8	6.24	5.296		
1,400.0	1,400.0	1,400.5	1,400.5	3.5	3.5	89.51		0.3	33.1	33.1	26.8	6.28	5.262		
1,500.0	1,500.0	1,500.5	1,500.5	3.5	3.5	89.51		0.3	33.1	33.1	26.7	6.33	5.227		
1,600.0	1,600.0	1,600.5	1,600.5	3.6	3.6	89.51		0.3	33.1	33.1	26.7	6.37	5.189		
1,700.0	1,700.0	1,700.5	1,700.5	3.7	3.7	89.51		0.3	33.1	33.1	26.6	6.42	5.150		
1,800.0	1,800.0	1,800.5	1,800.5	3.8	3.8	89.51		0.3	33.1	33.1	26.6	6.47	5.109		
1,900.0	1,900.0	1,900.5	1,900.5	3.9	3.9	89.51		0.3	33.1	33.1	26.5	6.52	5.068		
2,000.0	2,000.0	2,000.5	2,000.5	3.9	3.9	89.51		0.3	33.1	33.1	26.5	6.58	5.024		
2,100.0	2,100.0	2,100.5	2,100.5	4.0	4.0	89.51		0.3	33.1	33.1	26.4	6.64	4.980		
2,200.0	2,200.0	2,200.5	2,200.5	4.1	4.1	89.51		0.3	33.1	33.1	26.4	6.70	4.935		
2,300.0	2,300.0	2,300.5	2,300.5	4.2	4.2	89.51		0.3	33.1	33.1	26.3	6.76	4.889		
2,400.0	2,400.0	2,400.5	2,400.5	4.3	4.3	89.51		0.3	33.1	33.1	26.2	6.83	4.842		
2,416.5	2,416.5	2,417.0	2,417.0	4.3	4.3	89.51		0.3	33.1	33.1	26.2	6.84	4.834 CC		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	89.51		0.3	33.1	33.1	26.2	6.90	4.795 ES		
2,600.0	2,600.0	2,599.4	2,599.3	4.5	4.5	68.04		0.6	34.7	34.1	27.1	6.97	4.893		
2,700.0	2,699.9	2,698.1	2,697.9	4.6	4.5	71.03		1.7	39.7	37.9	30.8	7.04	5.380		
2,800.0	2,799.9	2,796.5	2,795.9	4.7	4.6	72.04		3.5	48.0	45.0	37.9	7.11	6.328		
2,900.0	2,899.8	2,894.3	2,893.0	4.8	4.6	71.66		6.0	59.5	55.4	48.2	7.18	7.711		
3,000.0	2,999.7	2,993.4	2,991.2	4.9	4.7	70.92		8.9	73.0	67.6	60.3	7.27	9.301		
3,100.0	3,099.7	3,092.7	3,089.5	5.0	4.7	70.40		11.9	86.5	79.8	72.4	7.36	10.846		
3,200.0	3,199.6	3,191.9	3,187.8	5.1	4.8	70.02		14.8	100.0	92.0	84.5	7.45	12.343		
3,300.0	3,299.6	3,291.2	3,286.1	5.2	4.8	69.73		17.7	113.5	104.2	96.6	7.56	13.792		
3,400.0	3,399.5	3,390.4	3,384.4	5.3	4.9	69.50		20.6	127.0	116.4	108.8	7.66	15.193		
3,500.0	3,499.4	3,489.7	3,482.7	5.4	5.0	69.32		23.6	140.5	128.6	120.9	7.77	16.545		
3,600.0	3,599.4	3,588.9	3,580.9	5.5	5.0	69.16		26.5	154.0	140.9	133.0	7.89	17.849		
3,700.0	3,699.3	3,688.2	3,679.2	5.6	5.1	69.03		29.4	167.5	153.1	145.1	8.01	19.105		
3,721.2	3,720.5	3,709.2	3,700.1	5.6	5.1	69.01		30.0	170.4	155.7	147.6	8.04	19.365		
3,800.0	3,799.3	3,787.4	3,777.5	5.7	5.2	68.84		32.3	181.0	165.5	157.3	8.14	20.329		
3,900.0	3,899.3	3,886.5	3,875.6	5.8	5.3	68.20		35.3	194.5	178.5	170.2	8.28	21.550		
3,921.2	3,920.5	3,907.5	3,896.4	5.8	5.3	91.53		35.9	197.3	181.4	173.1	8.32	21.810		
4,000.0	3,999.3	3,985.6	3,973.7	5.9	5.4	90.75		38.2	208.0	192.1	183.6	8.44	22.765		
4,100.0	4,099.3	4,084.6	4,071.8	6.0	5.4	89.88		41.1	221.4	205.6	197.1	8.59	23.937		
4,200.0	4,199.3	4,183.6	4,169.8	6.1	5.5	89.12		44.0	234.9	219.3	210.5	8.75	25.065		
4,300.0	4,299.3	4,282.6	4,267.9	6.3	5.6	88.44		46.9	248.4	232.9	224.0	8.91	26.150		
4,400.0	4,399.3	4,381.7	4,366.0	6.4	5.7	87.85		49.9	261.8	246.6	237.6	9.07	27.194		
4,500.0	4,499.3	4,480.7	4,464.0	6.5	5.8	87.31		52.8	275.3	260.4	251.1	9.23	28.199		
4,600.0	4,599.3	4,579.7	4,562.1	6.6	5.9	86.83		55.7	288.8	274.1	264.7	9.40	29.166		
4,700.0	4,699.3	4,678.7	4,660.1	6.7	6.0	86.39		58.6	302.2	287.8	278.3	9.56	30.096		
4,800.0	4,799.3	4,777.8	4,758.2	6.8	6.1	86.00		61.5	315.7	301.6	291.9	9.73	30.992		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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)				
4,900.0	4,899.3	4,876.8	4,856.3	7.0	6.2	85.63	64.5	329.2	315.4	305.5	9.90	31.855		
5,000.0	4,999.3	4,975.8	4,954.3	7.1	6.3	85.30	67.4	342.7	329.2	319.1	10.07	32.685		
5,100.0	5,099.3	5,074.9	5,052.4	7.2	6.4	85.00	70.3	356.1	343.0	332.8	10.24	33.485		
5,200.0	5,199.3	5,173.9	5,150.5	7.3	6.5	84.72	73.2	369.6	356.8	346.4	10.42	34.255		
5,300.0	5,299.3	5,272.9	5,248.5	7.4	6.6	84.46	76.1	383.1	370.6	360.0	10.59	34.997		
5,400.0	5,399.3	5,371.9	5,346.6	7.5	6.7	84.22	79.1	396.5	384.5	373.7	10.77	35.713		
5,500.0	5,499.3	5,471.0	5,444.6	7.7	6.8	83.99	82.0	410.0	398.3	387.4	10.94	36.403		
5,600.0	5,599.3	5,576.3	5,549.1	7.8	6.9	83.78	84.9	423.7	411.5	400.4	11.11	37.040		
5,700.0	5,699.3	5,683.4	5,655.5	7.9	7.0	83.60	87.5	435.7	422.9	411.6	11.28	37.497		
5,800.0	5,799.3	5,791.0	5,762.5	8.0	7.1	83.46	89.7	445.7	432.4	421.0	11.45	37.771		
5,900.0	5,899.3	5,898.8	5,870.1	8.2	7.3	83.36	91.5	453.9	440.1	428.5	11.62	37.867		
6,000.0	5,999.3	6,007.0	5,978.0	8.3	7.4	83.28	92.8	460.0	445.9	434.1	11.80	37.790		
6,100.0	6,099.3	6,115.3	6,086.3	8.4	7.5	83.22	93.7	464.2	449.9	437.9	11.98	37.547		
6,200.0	6,199.3	6,223.8	6,194.7	8.5	7.6	83.20	94.2	466.4	451.9	439.8	12.16	37.165		
6,300.0	6,299.3	6,328.8	6,299.8	8.6	7.7	83.19	94.3	466.8	452.2	439.9	12.30	36.774		
6,400.0	6,399.3	6,428.8	6,399.8	8.8	7.8	83.19	94.3	466.8	452.2	439.8	12.41	36.444		
6,500.0	6,499.3	6,528.8	6,499.8	8.9	7.9	83.19	94.3	466.8	452.2	439.7	12.52	36.117		
6,600.0	6,599.3	6,628.8	6,599.8	9.0	8.0	83.19	94.3	466.8	452.2	439.6	12.63	35.795		
6,700.0	6,699.3	6,728.8	6,699.8	9.1	8.1	83.19	94.3	466.8	452.2	439.5	12.75	35.477		
6,800.0	6,799.3	6,828.8	6,799.8	9.3	8.2	83.19	94.3	466.8	452.2	439.4	12.86	35.162		
6,900.0	6,899.3	6,928.8	6,899.8	9.4	8.3	83.19	94.3	466.8	452.2	439.3	12.98	34.852		
7,000.0	6,999.3	7,028.8	6,999.8	9.5	8.4	83.19	94.3	466.8	452.2	439.2	13.09	34.546		
7,100.0	7,099.3	7,128.8	7,099.8	9.6	8.5	83.19	94.3	466.8	452.2	439.0	13.21	34.244		
7,200.0	7,199.3	7,228.8	7,199.8	9.8	8.6	83.19	94.3	466.8	452.2	438.9	13.32	33.946		
7,300.0	7,299.3	7,328.8	7,299.8	9.9	8.7	83.19	94.3	466.8	452.2	438.8	13.44	33.651		
7,400.0	7,399.3	7,428.8	7,399.8	10.0	8.8	83.19	94.3	466.8	452.2	438.7	13.56	33.361		
7,500.0	7,499.3	7,528.8	7,499.8	10.1	8.9	83.19	94.3	466.8	452.2	438.6	13.67	33.074		
7,600.0	7,599.3	7,628.8	7,599.8	10.3	9.0	83.19	94.3	466.8	452.2	438.5	13.79	32.792		
7,700.0	7,699.3	7,728.8	7,699.8	10.4	9.1	83.19	94.3	466.8	452.2	438.3	13.91	32.513		
7,800.0	7,799.3	7,828.8	7,799.8	10.5	9.2	83.19	94.3	466.8	452.2	438.2	14.03	32.237		
7,900.0	7,899.3	7,928.8	7,899.8	10.6	9.3	83.19	94.3	466.8	452.2	438.1	14.15	31.966		
8,000.0	7,999.3	8,028.8	7,999.8	10.8	9.5	83.19	94.3	466.8	452.2	438.0	14.27	31.698		
8,100.0	8,099.3	8,128.8	8,099.8	10.9	9.6	83.19	94.3	466.8	452.2	437.9	14.39	31.433		
8,200.0	8,199.3	8,228.8	8,199.8	11.0	9.7	83.19	94.3	466.8	452.2	437.7	14.51	31.172		
8,300.0	8,299.3	8,328.8	8,299.8	11.2	9.8	83.19	94.3	466.8	452.2	437.6	14.63	30.915		
8,400.0	8,399.3	8,428.8	8,399.8	11.3	9.9	83.19	94.3	466.8	452.2	437.5	14.75	30.661		
8,500.0	8,499.3	8,528.8	8,499.8	11.4	10.0	83.19	94.3	466.8	452.2	437.4	14.87	30.410		
8,600.0	8,599.3	8,628.8	8,599.8	11.5	10.1	83.19	94.3	466.8	452.2	437.3	14.99	30.163		
8,700.0	8,699.3	8,728.8	8,699.8	11.7	10.2	83.19	94.3	466.8	452.2	437.1	15.12	29.919		
8,800.0	8,799.3	8,828.8	8,799.8	11.8	10.3	83.19	94.3	466.8	452.2	437.0	15.24	29.678		
8,900.0	8,899.3	8,928.8	8,899.8	11.9	10.5	83.19	94.3	466.8	452.2	436.9	15.36	29.441		
9,000.0	8,999.3	9,028.8	8,999.8	12.0	10.6	83.19	94.3	466.8	452.2	436.8	15.48	29.207		
9,100.0	9,099.3	9,128.8	9,099.8	12.2	10.7	83.19	94.3	466.8	452.2	436.6	15.61	28.975		
9,200.0	9,199.3	9,228.8	9,199.8	12.3	10.8	83.19	94.3	466.8	452.2	436.5	15.73	28.747		
9,300.0	9,299.3	9,328.8	9,299.8	12.4	10.9	83.19	94.3	466.8	452.2	436.4	15.86	28.522		
9,400.0	9,399.3	9,428.8	9,399.8	12.6	11.0	83.19	94.3	466.8	452.2	436.3	15.98	28.300		
9,500.0	9,499.3	9,528.8	9,499.8	12.7	11.1	83.19	94.3	466.8	452.2	436.1	16.11	28.081		
9,600.0	9,599.3	9,628.8	9,599.8	12.8	11.3	83.19	94.3	466.8	452.2	436.0	16.23	27.864		
9,700.0	9,699.3	9,728.8	9,699.8	12.9	11.4	83.19	94.3	466.8	452.2	435.9	16.36	27.651		
9,800.0	9,799.3	9,828.8	9,799.8	13.1	11.5	83.19	94.3	466.8	452.2	435.8	16.48	27.440		
9,900.0	9,899.3	9,928.8	9,899.8	13.2	11.6	83.19	94.3	466.8	452.2	435.6	16.61	27.232		
10,000.0	9,999.3	10,028.8	9,999.8	13.3	11.7	83.19	94.3	466.8	452.2	435.5	16.73	27.027		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #115H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11453-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,100.0	10,099.3	10,128.8	10,099.8	13.5	11.8	83.19	94.3	466.8	452.2	435.4	16.86	26.825		
10,200.0	10,199.3	10,228.8	10,199.8	13.6	12.0	83.19	94.3	466.8	452.2	435.3	16.99	26.625		
10,300.0	10,299.3	10,328.8	10,299.8	13.7	12.1	83.19	94.3	466.8	452.2	435.1	17.11	26.428		
10,400.0	10,399.3	10,428.8	10,399.8	13.8	12.2	83.19	94.3	466.8	452.2	435.0	17.24	26.233		
10,500.0	10,499.3	10,528.8	10,499.8	14.0	12.3	83.19	94.3	466.8	452.2	434.9	17.37	26.040		
10,600.0	10,599.3	10,628.8	10,599.8	14.1	12.4	83.19	94.3	466.8	452.2	434.8	17.49	25.851		
10,700.0	10,699.3	10,728.8	10,699.8	14.2	12.6	83.19	94.3	466.8	452.2	434.6	17.62	25.663		
10,800.0	10,799.3	10,828.8	10,799.8	14.4	12.7	83.19	94.3	466.8	452.2	434.5	17.75	25.478		
10,900.0	10,899.3	10,928.8	10,899.8	14.5	12.8	83.19	94.3	466.8	452.2	434.4	17.88	25.296		
11,000.0	10,999.3	11,028.8	10,999.8	14.6	12.9	83.19	94.3	466.8	452.2	434.2	18.01	25.115		
11,100.0	11,099.3	11,128.8	11,099.8	14.7	13.0	83.19	94.3	466.8	452.2	434.1	18.11	24.973		
11,200.0	11,199.3	11,228.8	11,199.8	14.7	13.2	83.19	94.3	466.8	452.2	434.1	18.19	24.856		
11,246.2	11,245.5	11,275.1	11,246.0	14.7	13.2	83.19	94.3	466.8	452.2	434.0	18.24	24.795		
11,250.0	11,249.3	11,278.8	11,249.8	14.7	13.2	-96.49	94.3	466.8	452.2	434.0	18.24	24.790		
11,275.0	11,274.2	11,303.8	11,274.7	14.7	13.2	-96.58	94.3	466.8	452.3	434.1	18.28	24.744		
11,300.0	11,299.1	11,328.7	11,299.6	14.7	13.3	-96.82	94.3	466.8	452.6	434.3	18.34	24.678		
11,325.0	11,323.9	11,353.5	11,324.4	14.7	13.3	-97.20	94.3	466.8	453.0	434.6	18.42	24.591		
11,350.0	11,348.4	11,378.0	11,348.9	14.7	13.3	-97.71	94.3	466.8	453.7	435.1	18.53	24.486		
11,375.0	11,372.7	11,402.3	11,373.2	14.7	13.4	-98.34	94.3	466.8	454.5	435.9	18.66	24.363		
11,400.0	11,396.6	11,426.2	11,397.1	14.8	13.4	-99.07	94.3	466.8	455.7	436.9	18.80	24.232		
11,425.0	11,420.1	11,449.7	11,420.6	14.8	13.4	-99.89	94.3	466.8	457.2	438.2	18.98	24.086		
11,450.0	11,443.1	11,479.0	11,449.9	14.8	13.4	-101.02	93.6	466.7	458.9	439.8	19.17	23.943		
11,475.0	11,465.6	11,510.3	11,481.1	14.8	13.4	-102.18	90.9	466.6	460.7	441.4	19.37	23.780		
11,500.0	11,487.5	11,542.7	11,513.1	14.8	13.4	-103.33	86.0	466.4	462.5	442.9	19.61	23.583		
11,525.0	11,508.7	11,576.0	11,545.6	14.8	13.4	-104.46	78.7	466.0	464.3	444.4	19.89	23.341		
11,550.0	11,529.2	11,610.4	11,578.5	14.9	13.4	-105.56	68.8	465.5	466.1	445.8	20.22	23.045		
11,575.0	11,548.9	11,645.7	11,611.5	14.9	13.4	-106.62	56.2	464.9	467.7	447.1	20.61	22.692		
11,600.0	11,567.8	11,682.2	11,644.4	14.9	13.5	-107.63	40.7	464.1	469.2	448.1	21.06	22.282		
11,625.0	11,585.8	11,719.6	11,676.9	14.9	13.5	-108.60	22.2	463.2	470.5	449.0	21.56	21.820		
11,650.0	11,602.8	11,758.0	11,708.7	15.0	13.5	-109.49	0.6	462.2	471.6	449.5	22.12	21.317		
11,675.0	11,618.9	11,797.2	11,739.2	15.0	13.6	-110.32	-24.0	461.0	472.5	449.8	22.73	20.789		
11,700.0	11,634.0	11,837.3	11,768.2	15.0	13.6	-111.06	-51.6	459.6	473.0	449.7	23.36	20.252		
11,725.0	11,648.0	11,878.1	11,795.3	15.0	13.6	-111.70	-82.1	458.1	473.3	449.3	23.99	19.725		
11,750.0	11,660.9	11,919.4	11,819.9	15.0	13.7	-112.25	-115.3	456.5	473.2	448.6	24.61	19.224		
11,775.0	11,672.6	11,961.1	11,841.7	15.1	13.7	-112.68	-150.7	454.8	472.7	447.5	25.19	18.762		
11,800.0	11,683.2	12,003.1	11,860.5	15.1	13.8	-113.00	-188.2	452.9	471.8	446.1	25.71	18.352		
11,825.0	11,692.6	12,045.1	11,875.9	15.1	13.8	-113.20	-227.2	451.0	470.6	444.5	26.15	17.999		
11,850.0	11,700.7	12,086.9	11,887.8	15.1	13.8	-113.28	-267.3	449.1	469.0	442.5	26.48	17.709		
11,875.0	11,707.7	12,128.5	11,896.1	15.1	13.9	-113.24	-307.9	447.1	467.0	440.3	26.71	17.485		
11,900.0	11,713.3	12,169.5	11,900.7	15.2	13.9	-113.08	-348.6	445.1	464.6	437.8	26.82	17.324		
11,925.0	11,717.7	12,203.6	11,902.0	15.2	13.9	-112.91	-382.6	443.4	461.9	435.1	26.81	17.232		
11,950.0	11,720.7	12,225.7	11,902.0	15.2	13.9	-112.89	-404.7	442.5	459.7	432.9	26.79	17.161		
11,975.0	11,722.5	12,245.0	11,902.0	15.2	13.9	-112.92	-424.0	442.0	458.2	431.4	26.83	17.080		
11,996.2	11,723.0	12,261.4	11,902.0	15.2	13.9	-112.96	-440.4	441.8	457.7	430.7	26.92	17.001		
12,000.0	11,723.0	12,264.3	11,902.0	15.2	13.9	-112.96	-443.3	441.8	457.6	430.7	26.94	16.986		
12,043.7	11,723.0	12,302.9	11,902.0	15.2	14.0	-112.97	-481.9	441.9	457.5	430.3	27.19	16.824		
12,100.0	11,723.0	12,359.2	11,902.0	15.2	14.0	-112.97	-538.2	442.2	457.5	429.9	27.54	16.610		
12,200.0	11,723.0	12,459.2	11,902.0	15.2	14.1	-112.97	-638.2	442.7	457.5	429.2	28.23	16.203		
12,300.0	11,723.0	12,559.2	11,902.0	15.3	14.2	-112.97	-738.2	443.3	457.5	428.5	29.01	15.770		
12,400.0	11,723.0	12,659.2	11,902.0	15.3	14.3	-112.97	-838.2	443.8	457.4	427.6	29.86	15.320		
12,500.0	11,723.0	12,759.2	11,902.0	15.3	14.5	-112.97	-938.2	444.4	457.4	426.7	30.78	14.861		
12,600.0	11,723.0	12,859.2	11,902.0	15.4	14.8	-112.97	-1,038.2	444.9	457.4	425.7	31.76	14.401		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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 +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,700.0	11,723.0	12,959.2	11,902.0	15.4	15.2	-112.97	-1,138.2	445.4	457.4	424.6	32.81	13.943		
12,800.0	11,723.0	13,059.2	11,902.0	15.5	15.6	-112.97	-1,238.2	446.0	457.4	423.5	33.90	13.492		
12,900.0	11,723.0	13,159.2	11,902.0	15.6	16.2	-112.97	-1,338.2	446.5	457.4	422.3	35.04	13.052		
13,000.0	11,723.0	13,259.2	11,902.0	15.8	16.8	-112.97	-1,438.2	447.1	457.4	421.1	36.23	12.624		
13,100.0	11,723.0	13,359.2	11,902.0	16.4	17.4	-112.97	-1,538.2	447.6	457.4	419.9	37.45	12.211		
13,200.0	11,723.0	13,459.2	11,902.0	17.1	18.1	-112.97	-1,638.2	448.2	457.3	418.6	38.71	11.813		
13,300.0	11,723.0	13,559.2	11,902.0	17.8	18.8	-112.97	-1,738.2	448.7	457.3	417.3	40.01	11.432		
13,400.0	11,723.0	13,659.2	11,902.0	18.5	19.5	-112.97	-1,838.2	449.3	457.3	416.0	41.33	11.066		
13,500.0	11,723.0	13,759.2	11,902.0	19.3	20.2	-112.97	-1,938.2	449.8	457.3	414.6	42.68	10.716		
13,600.0	11,723.0	13,859.2	11,902.0	20.1	20.9	-112.98	-2,038.2	450.4	457.3	413.3	44.05	10.382		
13,700.0	11,723.0	13,959.2	11,902.0	20.8	21.7	-112.98	-2,138.2	450.9	457.3	411.8	45.44	10.064		
13,800.0	11,723.0	14,059.2	11,902.0	21.6	22.5	-112.98	-2,238.2	451.5	457.3	410.4	46.85	9.760		
13,900.0	11,723.0	14,159.2	11,902.0	22.4	23.2	-112.98	-2,338.2	452.0	457.3	409.0	48.28	9.470		
14,000.0	11,723.0	14,259.2	11,902.0	23.2	24.0	-112.98	-2,438.2	452.5	457.3	407.5	49.73	9.194		
14,100.0	11,723.0	14,359.2	11,902.0	24.0	24.8	-112.98	-2,538.2	453.1	457.2	406.0	51.19	8.932		
14,200.0	11,723.0	14,459.2	11,902.0	24.8	25.6	-112.98	-2,638.2	453.6	457.2	404.6	52.67	8.681		
14,300.0	11,723.0	14,559.2	11,902.0	25.6	26.4	-112.98	-2,738.2	454.2	457.2	403.1	54.16	8.442		
14,400.0	11,723.0	14,659.2	11,902.0	26.4	27.2	-112.98	-2,838.2	454.7	457.2	401.5	55.66	8.214		
14,500.0	11,723.0	14,759.2	11,902.0	27.2	28.0	-112.98	-2,938.2	455.3	457.2	400.0	57.17	7.997		
14,600.0	11,723.0	14,859.2	11,902.0	28.1	28.8	-112.98	-3,038.2	455.8	457.2	398.5	58.69	7.789		
14,700.0	11,723.0	14,959.2	11,902.0	28.9	29.6	-112.98	-3,138.2	456.4	457.2	396.9	60.22	7.591		
14,800.0	11,723.0	15,059.2	11,902.0	29.7	30.4	-112.98	-3,238.2	456.9	457.2	395.4	61.76	7.402		
14,900.0	11,723.0	15,159.2	11,902.0	30.5	31.2	-112.98	-3,338.2	457.5	457.1	393.8	63.31	7.221		
15,000.0	11,723.0	15,259.2	11,902.0	31.3	32.0	-112.98	-3,438.2	458.0	457.1	392.3	64.86	7.047		
15,100.0	11,723.0	15,359.2	11,902.0	32.2	32.9	-112.99	-3,538.2	458.6	457.1	390.7	66.43	6.882		
15,200.0	11,723.0	15,459.2	11,902.0	33.0	33.7	-112.99	-3,638.2	459.1	457.1	389.1	67.99	6.723		
15,300.0	11,723.0	15,559.2	11,902.0	33.8	34.5	-112.99	-3,738.2	459.6	457.1	387.5	69.57	6.571		
15,400.0	11,723.0	15,659.2	11,902.0	34.6	35.3	-112.99	-3,838.2	460.2	457.1	385.9	71.14	6.425		
15,500.0	11,723.0	15,759.2	11,902.0	35.5	36.1	-112.99	-3,938.2	460.7	457.1	384.3	72.73	6.284		
15,600.0	11,723.0	15,859.2	11,902.0	36.3	37.0	-112.99	-4,038.2	461.3	457.1	382.7	74.32	6.150		
15,700.0	11,723.0	15,959.2	11,902.0	37.1	37.8	-112.99	-4,138.2	461.8	457.0	381.1	75.91	6.021		
15,800.0	11,723.0	16,059.2	11,902.0	38.0	38.6	-112.99	-4,238.2	462.4	457.0	379.5	77.51	5.896		
15,900.0	11,723.0	16,159.2	11,902.0	38.8	39.5	-112.99	-4,338.2	462.9	457.0	377.9	79.11	5.777		
16,000.0	11,723.0	16,259.2	11,902.0	39.7	40.3	-112.99	-4,438.2	463.5	457.0	376.3	80.72	5.662		
16,100.0	11,723.0	16,359.2	11,902.0	40.5	41.1	-112.99	-4,538.2	464.0	457.0	374.7	82.32	5.551		
16,200.0	11,723.0	16,459.2	11,902.0	41.3	42.0	-112.99	-4,638.2	464.6	457.0	373.0	83.94	5.444		
16,300.0	11,723.0	16,559.2	11,902.0	42.2	42.8	-112.99	-4,738.2	465.1	457.0	371.4	85.55	5.341		
16,400.0	11,723.0	16,659.2	11,902.0	43.0	43.6	-112.99	-4,838.2	465.7	457.0	369.8	87.17	5.242		
16,500.0	11,723.0	16,759.2	11,902.0	43.9	44.5	-112.99	-4,938.2	466.2	456.9	368.1	88.79	5.146		
16,600.0	11,723.0	16,859.2	11,902.0	44.7	45.3	-113.00	-5,038.2	466.7	456.9	366.5	90.42	5.054		
16,700.0	11,723.0	16,959.2	11,902.0	45.5	46.2	-113.00	-5,138.2	467.3	456.9	364.9	92.04	4.964		
16,800.0	11,723.0	17,059.2	11,902.0	46.4	47.0	-113.00	-5,238.2	467.8	456.9	363.2	93.67	4.878		
16,900.0	11,723.0	17,159.2	11,902.0	47.2	47.8	-113.00	-5,338.2	468.4	456.9	361.6	95.30	4.794		
17,000.0	11,723.0	17,259.2	11,902.0	48.1	48.7	-113.00	-5,438.2	468.9	456.9	359.9	96.93	4.713		
17,100.0	11,723.0	17,359.2	11,902.0	48.9	49.5	-113.00	-5,538.2	469.5	456.9	358.3	98.57	4.635		
17,200.0	11,723.0	17,459.2	11,902.0	49.8	50.4	-113.00	-5,638.2	470.0	456.9	356.6	100.21	4.559		
17,300.0	11,723.0	17,559.2	11,902.0	50.6	51.2	-113.00	-5,738.2	470.6	456.8	355.0	101.84	4.486		
17,400.0	11,723.0	17,659.2	11,902.0	51.5	52.0	-113.00	-5,838.2	471.1	456.8	353.3	103.49	4.414		
17,500.0	11,723.0	17,759.2	11,902.0	52.3	52.9	-113.00	-5,938.1	471.7	456.8	351.7	105.13	4.345		
17,600.0	11,723.0	17,859.2	11,902.0	53.1	53.7	-113.00	-6,038.1	472.2	456.8	350.0	106.77	4.278		
17,700.0	11,723.0	17,959.2	11,902.0	54.0	54.6	-113.00	-6,138.1	472.8	456.8	348.4	108.42	4.213		
17,800.0	11,723.0	18,059.2	11,902.0	54.8	55.4	-113.00	-6,238.1	473.3	456.8	346.7	110.06	4.150		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
17,900.0	11,723.0	18,159.2	11,902.0	55.7	56.3	-113.00	-6,338.1	473.8	456.8	345.1	111.71	4.089	
18,000.0	11,723.0	18,259.2	11,902.0	56.5	57.1	-113.00	-6,438.1	474.4	456.8	343.4	113.36	4.029	
18,100.0	11,723.0	18,359.2	11,902.0	57.4	58.0	-113.01	-6,538.1	474.9	456.7	341.7	115.01	3.971	
18,200.0	11,723.0	18,459.2	11,902.0	58.2	58.8	-113.01	-6,638.1	475.5	456.7	340.1	116.66	3.915	
18,300.0	11,723.0	18,559.2	11,902.0	59.1	59.7	-113.01	-6,738.1	476.0	456.7	338.4	118.32	3.860	
18,400.0	11,723.0	18,659.2	11,902.0	59.9	60.5	-113.01	-6,838.1	476.6	456.7	336.7	119.97	3.807	
18,500.0	11,723.0	18,759.2	11,902.0	60.8	61.4	-113.01	-6,938.1	477.1	456.7	335.1	121.63	3.755	
18,600.0	11,723.0	18,859.2	11,902.0	61.6	62.2	-113.01	-7,038.1	477.7	456.7	333.4	123.28	3.704	
18,700.0	11,723.0	18,959.2	11,902.0	62.5	63.0	-113.01	-7,138.1	478.2	456.7	331.7	124.94	3.655	
18,800.0	11,723.0	19,059.2	11,902.0	63.3	63.9	-113.01	-7,238.1	478.8	456.7	330.1	126.60	3.607	
18,900.0	11,723.0	19,159.2	11,902.0	64.2	64.7	-113.01	-7,338.1	479.3	456.6	328.4	128.26	3.560	
19,000.0	11,723.0	19,259.2	11,902.0	65.0	65.6	-113.01	-7,438.1	479.9	456.6	326.7	129.92	3.515	
19,100.0	11,723.0	19,359.2	11,902.0	65.9	66.4	-113.01	-7,538.1	480.4	456.6	325.0	131.58	3.470	
19,200.0	11,723.0	19,459.2	11,902.0	66.7	67.3	-113.01	-7,638.1	480.9	456.6	323.4	133.24	3.427	
19,300.0	11,723.0	19,559.2	11,902.0	67.6	68.1	-113.01	-7,738.1	481.5	456.6	321.7	134.90	3.385	
19,400.0	11,723.0	19,659.2	11,902.0	68.4	69.0	-113.01	-7,838.1	482.0	456.6	320.0	136.57	3.343	
19,500.0	11,723.0	19,759.2	11,902.0	69.3	69.8	-113.01	-7,938.1	482.6	456.6	318.3	138.23	3.303	
19,600.0	11,723.0	19,859.2	11,902.0	70.1	70.7	-113.01	-8,038.1	483.1	456.6	316.7	139.90	3.264	
19,700.0	11,723.0	19,959.2	11,902.0	71.0	71.5	-113.02	-8,138.1	483.7	456.5	315.0	141.56	3.225	
19,800.0	11,723.0	20,059.2	11,902.0	71.8	72.4	-113.02	-8,238.1	484.2	456.5	313.3	143.23	3.187	
19,900.0	11,723.0	20,159.2	11,902.0	72.7	73.2	-113.02	-8,338.1	484.8	456.5	311.6	144.89	3.151	
20,000.0	11,723.0	20,259.2	11,902.0	73.5	74.1	-113.02	-8,438.1	485.3	456.5	309.9	146.56	3.115	
20,100.0	11,723.0	20,359.2	11,902.0	74.4	74.9	-113.02	-8,538.1	485.9	456.5	308.3	148.23	3.080	
20,200.0	11,723.0	20,459.2	11,902.0	75.2	75.8	-113.02	-8,638.1	486.4	456.5	306.6	149.90	3.045	
20,300.0	11,723.0	20,559.2	11,902.0	76.1	76.6	-113.02	-8,738.1	487.0	456.5	304.9	151.57	3.012	
20,400.0	11,723.0	20,659.2	11,902.0	77.0	77.5	-113.02	-8,838.1	487.5	456.5	303.2	153.24	2.979	
20,500.0	11,723.0	20,759.2	11,902.0	77.8	78.4	-113.02	-8,938.1	488.0	456.4	301.5	154.91	2.947	
20,600.0	11,723.0	20,859.2	11,902.0	78.7	79.2	-113.02	-9,038.1	488.6	456.4	299.9	156.58	2.915	
20,700.0	11,723.0	20,959.2	11,902.0	79.5	80.1	-113.02	-9,138.1	489.1	456.4	298.2	158.25	2.884	
20,800.0	11,723.0	21,059.2	11,902.0	80.4	80.9	-113.02	-9,238.1	489.7	456.4	296.5	159.92	2.854	
20,900.0	11,723.0	21,159.2	11,902.0	81.2	81.8	-113.02	-9,338.1	490.2	456.4	294.8	161.59	2.824	
21,000.0	11,723.0	21,259.2	11,902.0	82.1	82.6	-113.02	-9,438.1	490.8	456.4	293.1	163.26	2.795	
21,100.0	11,723.0	21,359.2	11,902.0	82.9	83.5	-113.02	-9,538.1	491.3	456.4	291.4	164.94	2.767	
21,200.0	11,723.0	21,459.2	11,902.0	83.8	84.3	-113.03	-9,638.1	491.9	456.4	289.7	166.61	2.739	
21,284.9	11,723.0	21,544.1	11,902.0	84.5	85.0	-113.03	-9,723.0	492.3	456.3	288.3	168.03	2.716 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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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	8,399.3	12,039.8	9,235.8	11.3	54.7	93.68	18.3	365.9	920.1	872.4	47.69	19.292		
8,500.0	8,499.3	12,037.7	9,235.8	11.4	54.7	93.33	20.4	366.0	828.4	779.7	48.76	16.990		
8,600.0	8,599.3	12,035.6	9,235.9	11.5	54.6	93.00	22.4	366.0	738.9	688.9	50.06	14.761		
8,700.0	8,699.3	12,033.6	9,235.9	11.7	54.6	92.67	24.5	366.0	652.5	600.8	51.66	12.630		
8,800.0	8,799.3	12,031.7	9,235.9	11.8	54.6	92.34	26.4	366.1	570.5	516.8	53.62	10.640		
8,900.0	8,899.3	12,029.7	9,236.0	11.9	54.5	92.03	28.3	366.1	495.1	439.2	55.94	8.851		
9,000.0	8,999.3	12,027.8	9,236.0	12.0	54.5	91.72	30.2	366.1	429.9	371.5	58.43	7.357		
9,100.0	9,099.3	12,026.0	9,236.0	12.2	54.5	91.41	32.1	366.2	380.1	319.6	60.52	6.281		
9,200.0	9,199.3	12,024.2	9,236.1	12.3	54.4	91.11	33.9	366.2	352.4	290.9	61.47	5.733		
9,251.6	9,250.9	12,023.2	9,236.1	12.4	54.4	90.96	34.8	366.2	348.6	287.1	61.52	5.666 CC, ES, SF		
9,300.0	9,299.3	12,022.4	9,236.1	12.4	54.4	90.82	35.7	366.2	351.9	290.5	61.43	5.729		
9,400.0	9,399.3	12,020.6	9,236.1	12.6	54.4	90.53	37.4	366.3	378.8	318.2	60.62	6.250		
9,500.0	9,499.3	12,018.9	9,236.2	12.7	54.4	90.25	39.2	366.3	428.0	369.1	58.91	7.266		
9,600.0	9,599.3	12,017.2	9,236.2	12.8	54.3	89.97	40.8	366.3	492.8	435.8	56.93	8.656		
9,700.0	9,699.3	12,015.6	9,236.2	12.9	54.3	89.70	42.5	366.4	567.9	512.7	55.18	10.291		
9,800.0	9,799.3	12,013.9	9,236.3	13.1	54.3	89.43	44.1	366.4	649.7	595.9	53.82	12.071		
9,900.0	9,899.3	12,012.3	9,236.3	13.2	54.3	89.17	45.7	366.4	736.0	683.2	52.84	13.931		
10,000.0	9,999.3	12,012.8	9,236.3	13.3	54.3	89.25	45.3	366.4	825.5	773.3	52.17	15.824		
10,100.0	10,099.3	12,011.1	9,236.3	13.5	54.2	88.96	47.0	366.4	917.1	865.4	51.71	17.736		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,900.0	7,899.3	10,810.4	8,834.8	10.6	42.0	-90.43	38.5	-264.3	976.9	938.0	38.88	25.124	
8,000.0	7,999.3	10,811.0	8,834.8	10.8	42.0	-90.56	37.9	-264.2	881.6	842.2	39.39	22.384	
8,100.0	8,099.3	10,811.6	8,834.8	10.9	42.0	-90.68	37.4	-264.2	787.5	747.5	39.98	19.697	
8,200.0	8,199.3	10,812.1	8,834.8	11.0	42.0	-90.79	36.8	-264.2	695.1	654.3	40.71	17.075	
8,300.0	8,299.3	10,812.7	8,834.8	11.2	42.0	-90.90	36.3	-264.2	605.0	563.4	41.62	14.537	
8,400.0	8,399.3	10,813.2	8,834.8	11.3	42.0	-91.01	35.7	-264.2	518.6	475.8	42.80	12.118	
8,500.0	8,499.3	10,813.7	8,834.8	11.4	42.0	-91.11	35.2	-264.2	438.1	393.8	44.32	9.885	
8,600.0	8,599.3	10,814.2	8,834.8	11.5	42.0	-91.21	34.7	-264.2	367.2	321.1	46.14	7.959	
8,700.0	8,699.3	10,814.6	8,834.8	11.7	42.0	-91.30	34.3	-264.2	312.7	264.9	47.84	6.537	
8,800.0	8,799.3	10,815.1	8,834.8	11.8	42.0	-91.39	33.8	-264.1	284.1	235.4	48.71	5.833	
8,835.3	8,834.6	10,815.2	8,834.8	11.8	42.0	-91.42	33.7	-264.1	281.9	233.0	48.88	5.768	CC, ES, SF
8,900.0	8,899.3	10,815.5	8,834.8	11.9	42.0	-91.48	33.4	-264.1	289.2	240.1	49.18	5.881	
9,000.0	8,999.3	10,815.9	8,834.8	12.0	42.1	-91.57	33.0	-264.1	326.5	277.5	49.01	6.661	
9,100.0	9,099.3	10,816.4	8,834.8	12.2	42.1	-91.65	32.6	-264.1	386.7	338.7	48.02	8.052	
9,200.0	9,199.3	10,816.7	8,834.8	12.3	42.1	-91.73	32.2	-264.1	460.9	414.0	46.94	9.821	
9,300.0	9,299.3	10,817.1	8,834.8	12.4	42.1	-91.81	31.8	-264.1	543.5	497.4	46.09	11.793	
9,400.0	9,399.3	10,817.5	8,834.8	12.6	42.1	-91.88	31.4	-264.1	631.1	585.6	45.52	13.866	
9,500.0	9,499.3	10,817.9	8,834.8	12.7	42.1	-91.96	31.1	-264.1	722.0	676.8	45.17	15.983	
9,600.0	9,599.3	10,818.2	8,834.8	12.8	42.1	-92.03	30.7	-264.1	815.0	770.0	44.99	18.116	
9,700.0	9,699.3	10,818.5	8,834.8	12.9	42.1	-92.10	30.4	-264.1	909.5	864.6	44.92	20.244	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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:
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													0.0 usft
Rule Assigned:													Offset Well Error:
Warning													3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,525.0	11,508.7	12,043.0	11,808.8	14.8	38.6	97.69	-78.7	-933.7	994.8	946.2	48.52	20.502	
11,550.0	11,529.2	12,061.3	11,814.7	14.9	38.7	97.85	-95.9	-931.2	988.4	939.9	48.49	20.383	
11,575.0	11,548.9	12,073.0	11,818.4	14.9	38.7	98.20	-106.9	-929.6	982.6	934.1	48.43	20.288	
11,600.0	11,567.8	12,089.4	11,823.5	14.9	38.7	98.37	-122.4	-927.6	977.2	928.8	48.40	20.189	
11,625.0	11,585.8	12,105.0	11,828.2	14.9	38.8	98.54	-137.1	-925.9	972.3	923.9	48.37	20.100	
11,650.0	11,602.8	12,118.1	11,832.1	15.0	38.8	98.75	-149.5	-924.6	967.9	919.6	48.34	20.023	
11,675.0	11,618.9	12,135.0	11,837.1	15.0	38.8	98.85	-165.6	-923.0	964.0	915.6	48.34	19.943	
11,700.0	11,634.0	12,158.6	11,844.0	15.0	38.9	98.82	-188.1	-920.9	960.4	912.0	48.38	19.852	
11,725.0	11,648.0	12,197.7	11,854.8	15.0	38.9	98.56	-225.5	-917.2	956.9	908.4	48.52	19.724	
11,750.0	11,660.9	12,254.0	11,867.5	15.0	39.0	98.05	-279.9	-910.8	952.9	904.1	48.75	19.547	
11,775.0	11,672.6	12,282.1	11,872.0	15.1	39.1	98.03	-307.4	-907.5	948.8	899.9	48.82	19.432	
11,800.0	11,683.2	12,304.0	11,874.9	15.1	39.1	98.12	-329.0	-904.9	944.8	896.0	48.87	19.334	
11,825.0	11,692.6	12,323.2	11,876.7	15.1	39.1	98.24	-348.0	-902.9	941.2	892.3	48.91	19.246	
11,850.0	11,700.7	12,342.2	11,877.7	15.1	39.2	98.32	-367.0	-901.2	938.0	889.1	48.95	19.162	
11,875.0	11,707.7	12,363.0	11,878.1	15.1	39.2	98.36	-387.7	-899.5	935.1	886.1	49.01	19.081	
11,900.0	11,713.3	12,387.5	11,878.2	15.2	39.2	98.36	-412.1	-897.6	932.5	883.4	49.09	18.995	
11,925.0	11,717.7	12,412.2	11,878.1	15.2	39.3	98.40	-436.7	-895.7	930.0	880.8	49.18	18.910	
11,950.0	11,720.7	12,437.1	11,877.9	15.2	39.3	98.48	-461.5	-893.8	927.8	878.5	49.28	18.826	
11,975.0	11,722.5	12,450.0	11,877.7	15.2	39.3	98.64	-474.4	-892.8	925.8	876.5	49.35	18.761	
11,996.2	11,723.0	12,470.3	11,877.4	15.2	39.4	98.76	-494.7	-891.4	924.4	874.9	49.46	18.691	
12,000.0	11,723.0	12,472.6	11,877.3	15.2	39.4	98.76	-496.9	-891.3	924.2	874.7	49.47	18.682	
12,100.0	11,723.0	12,544.0	11,876.8	15.2	39.5	98.75	-568.3	-888.7	920.8	870.9	49.94	18.437	
12,200.0	11,723.0	12,627.5	11,876.9	15.2	39.7	98.76	-651.8	-887.7	920.0	869.5	50.54	18.205	
12,300.0	11,723.0	12,747.9	11,877.7	15.3	39.9	98.83	-772.1	-885.1	918.6	867.3	51.30	17.907	
12,400.0	11,723.0	12,867.6	11,880.3	15.3	40.2	99.05	-891.5	-877.8	913.2	861.1	52.18	17.502	
12,500.0	11,723.0	12,945.4	11,878.0	15.3	40.5	98.94	-969.3	-874.9	909.5	856.6	52.91	17.191	
12,600.0	11,723.0	13,037.7	11,875.2	15.4	40.7	98.78	-1,061.5	-873.0	907.6	853.9	53.71	16.899	
12,700.0	11,723.0	13,147.9	11,879.7	15.4	41.0	99.09	-1,171.6	-868.9	905.1	850.4	54.64	16.564	
12,800.0	11,723.0	13,256.2	11,881.6	15.5	41.3	99.24	-1,279.8	-864.6	902.0	846.4	55.58	16.228	
12,900.0	11,723.0	13,381.8	11,881.6	15.6	41.6	99.31	-1,405.1	-857.3	896.9	840.3	56.64	15.835	
13,000.0	11,723.0	13,443.7	11,879.9	15.8	41.8	99.23	-1,466.9	-854.2	892.1	834.7	57.48	15.521	
13,061.7	11,723.0	13,484.0	11,877.8	16.1	42.0	99.10	-1,507.1	-854.0	891.6	833.6	58.01	15.368 CC	
13,100.0	11,723.0	13,506.1	11,876.5	16.4	42.1	99.02	-1,529.2	-854.4	892.0	833.7	58.34	15.291	
13,200.0	11,723.0	13,581.9	11,873.0	17.1	42.4	98.76	-1,604.8	-857.0	895.3	836.0	59.31	15.095	
13,300.0	11,723.0	13,696.9	11,871.2	17.8	42.8	98.60	-1,719.8	-860.9	898.9	838.5	60.44	14.872	
13,400.0	11,723.0	13,796.7	11,875.4	18.5	43.1	98.85	-1,819.4	-862.3	901.5	840.0	61.50	14.657	
13,500.0	11,723.0	13,889.8	11,878.7	19.3	43.4	99.03	-1,912.4	-864.6	905.0	842.5	62.54	14.471	
13,600.0	11,723.0	13,993.2	11,881.0	20.1	43.8	99.14	-2,015.8	-867.0	908.2	844.6	63.65	14.269	
13,700.0	11,723.0	14,096.5	11,881.9	20.8	44.1	99.16	-2,119.1	-869.9	911.7	846.9	64.78	14.073	
13,800.0	11,723.0	14,219.5	11,880.9	21.6	44.6	99.08	-2,242.1	-871.5	913.4	847.4	66.05	13.829	
13,900.0	11,723.0	14,326.5	11,881.2	22.4	44.9	99.10	-2,349.0	-870.8	913.3	846.1	67.24	13.582	
14,000.0	11,723.0	14,423.5	11,881.4	23.2	45.3	99.11	-2,446.0	-870.0	913.1	844.7	68.38	13.353	
14,100.0	11,723.0	14,529.8	11,882.1	24.0	45.7	99.16	-2,552.3	-868.7	912.5	842.9	69.59	13.112	
14,152.2	11,723.0	14,575.2	11,882.2	24.4	45.9	99.17	-2,597.7	-868.2	912.3	842.2	70.17	13.002	
14,200.0	11,723.0	14,618.7	11,882.0	24.8	46.0	99.16	-2,641.2	-868.2	912.5	841.8	70.71	12.904	
14,300.0	11,723.0	14,723.8	11,881.7	25.6	46.5	99.14	-2,746.3	-867.7	912.6	840.6	71.95	12.684	
14,316.7	11,723.0	14,739.7	11,881.7	25.7	46.5	99.14	-2,762.2	-867.6	912.5	840.4	72.14	12.649	
14,400.0	11,723.0	14,821.5	11,881.3	26.4	46.9	99.11	-2,844.0	-867.3	912.7	839.6	73.14	12.478	
14,483.7	11,723.0	14,906.7	11,881.6	27.1	47.2	99.13	-2,929.2	-866.8	912.7	838.5	74.18	12.304	
14,500.0	11,723.0	14,921.5	11,881.7	27.2	47.3	99.14	-2,944.1	-866.7	912.7	838.3	74.37	12.272	
14,600.0	11,723.0	15,014.6	11,882.4	28.1	47.7	99.18	-3,037.1	-866.7	913.3	837.8	75.55	12.088	
14,700.0	11,723.0	15,116.0	11,883.2	28.9	48.1	99.22	-3,138.6	-867.0	914.3	837.5	76.81	11.903	

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 47-GYRO-NS, 1311-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,800.0	11,723.0	15,216.2	11,883.9	29.7	48.5	99.25	99.25	-3,238.8	-866.8	914.8	836.7	78.07	11.718	
14,900.0	11,723.0	15,305.7	11,884.3	30.5	48.9	99.27	99.27	-3,328.2	-867.4	916.1	836.8	79.25	11.559	
15,000.0	11,723.0	15,404.7	11,884.9	31.3	49.4	99.28	99.28	-3,427.2	-869.1	918.4	837.9	80.52	11.406	
15,100.0	11,723.0	15,506.5	11,885.6	32.2	49.8	99.31	99.31	-3,529.0	-870.0	919.9	838.1	81.82	11.244	
15,200.0	11,723.0	15,642.1	11,886.2	33.0	50.5	99.34	99.34	-3,664.6	-870.1	920.9	837.5	83.41	11.042	
15,300.0	11,723.0	15,758.3	11,887.2	33.8	51.1	99.44	99.44	-3,780.7	-865.5	917.7	832.9	84.85	10.815	
15,400.0	11,723.0	15,855.4	11,887.7	34.6	51.6	99.51	99.51	-3,877.7	-861.4	914.1	827.9	86.16	10.610	
15,500.0	11,723.0	15,957.9	11,888.4	35.5	52.1	99.59	99.59	-3,980.0	-856.9	910.5	823.0	87.50	10.406	
15,600.0	11,723.0	16,060.5	11,888.6	36.3	52.6	99.65	99.65	-4,082.6	-852.1	906.5	817.6	88.85	10.203	
15,700.0	11,723.0	16,151.0	11,889.0	37.1	53.1	99.72	99.72	-4,173.0	-848.0	902.6	812.5	90.13	10.014	
15,800.0	11,723.0	16,234.6	11,886.5	38.0	53.5	99.57	99.57	-4,256.5	-846.3	900.6	809.3	91.38	9.856	
15,900.0	11,723.0	16,330.8	11,882.1	38.8	54.0	99.30	99.30	-4,352.6	-845.6	899.8	807.0	92.72	9.704	
16,000.0	11,723.0	16,432.1	11,878.1	39.7	54.6	99.05	99.05	-4,453.8	-844.7	898.8	804.7	94.10	9.551	
16,100.0	11,723.0	16,547.1	11,874.9	40.5	55.2	98.85	98.85	-4,568.8	-843.2	897.6	802.0	95.60	9.390	
16,200.0	11,723.0	16,632.7	11,876.7	41.3	55.7	99.00	99.00	-4,654.3	-840.1	895.1	798.2	96.90	9.238	
16,227.8	11,723.0	16,651.6	11,877.5	41.6	55.8	99.05	99.05	-4,673.2	-839.8	895.0	797.7	97.21	9.206	
16,300.0	11,723.0	16,707.4	11,880.1	42.2	56.1	99.21	99.21	-4,728.9	-839.7	895.7	797.7	98.07	9.134	
16,400.0	11,723.0	16,791.5	11,882.3	43.0	56.6	99.33	99.33	-4,812.9	-841.1	898.4	799.1	99.30	9.047	
16,500.0	11,723.0	16,877.0	11,884.1	43.9	57.1	99.40	99.40	-4,898.4	-844.4	903.1	802.6	100.53	8.984	
16,600.0	11,723.0	16,991.9	11,886.4	44.7	57.8	99.50	99.50	-5,013.1	-847.9	906.9	804.8	102.11	8.882	
16,700.0	11,723.0	17,087.0	11,887.7	45.5	58.3	99.54	99.54	-5,108.3	-851.1	911.0	807.5	103.45	8.806	
16,800.0	11,723.0	17,189.9	11,889.7	46.4	58.9	99.63	99.63	-5,211.0	-854.1	914.7	809.8	104.89	8.721	
16,900.0	11,723.0	17,287.8	11,891.8	47.2	59.4	99.72	99.72	-5,308.9	-857.1	918.7	812.4	106.27	8.645	
17,000.0	11,723.0	17,395.6	11,893.0	48.1	60.0	99.76	99.76	-5,416.6	-860.4	922.4	814.6	107.77	8.559	
17,100.0	11,723.0	17,526.4	11,894.1	48.9	60.8	99.80	99.80	-5,547.5	-861.7	924.1	814.6	109.51	8.439	
17,200.0	11,723.0	17,635.1	11,895.1	49.8	61.4	99.87	99.87	-5,656.1	-860.1	923.4	812.4	111.01	8.318	
17,300.0	11,723.0	17,732.6	11,895.5	50.6	62.0	99.91	99.91	-5,753.6	-858.5	922.4	809.9	112.42	8.205	
17,400.0	11,723.0	17,833.8	11,895.3	51.5	62.6	99.90	99.90	-5,854.8	-857.2	921.6	807.8	113.86	8.094	
17,500.0	11,723.0	17,942.7	11,896.1	52.3	63.2	99.97	99.97	-5,963.7	-854.6	919.9	804.6	115.37	7.974	
17,600.0	11,723.0	18,042.3	11,896.7	53.1	63.8	100.03	100.03	-6,063.2	-851.9	918.0	801.1	116.81	7.858	
17,700.0	11,723.0	18,138.8	11,897.2	54.0	64.4	100.09	100.09	-6,159.7	-849.5	916.2	797.9	118.23	7.749	
17,800.0	11,723.0	18,231.7	11,897.8	54.8	64.9	100.13	100.13	-6,252.5	-847.8	915.0	795.3	119.62	7.649	
17,900.0	11,723.0	18,328.6	11,898.3	55.7	65.5	100.17	100.17	-6,349.5	-846.7	914.5	793.5	121.05	7.555	
17,988.7	11,723.0	18,413.3	11,899.0	56.4	66.0	100.22	100.22	-6,434.2	-845.7	914.2	791.9	122.30	7.475	
18,000.0	11,723.0	18,423.4	11,899.1	56.5	66.1	100.23	100.23	-6,444.3	-845.7	914.2	791.7	122.45	7.466	
18,100.0	11,723.0	18,518.0	11,899.4	57.4	66.7	100.24	100.24	-6,538.9	-845.6	914.7	790.9	123.86	7.385	
18,200.0	11,723.0	18,626.7	11,899.9	58.2	67.3	100.26	100.26	-6,647.6	-845.4	915.2	789.8	125.40	7.298	
18,290.6	11,723.0	18,715.3	11,900.6	59.0	67.9	100.31	100.31	-6,736.1	-844.5	914.9	788.2	126.71	7.220	
18,300.0	11,723.0	18,723.9	11,900.6	59.1	67.9	100.31	100.31	-6,744.7	-844.5	914.9	788.1	126.84	7.213	
18,400.0	11,723.0	18,837.5	11,900.7	59.9	68.7	100.33	100.33	-6,858.3	-843.3	914.5	786.1	128.44	7.120	
18,483.8	11,723.0	18,908.5	11,900.8	60.6	69.1	100.34	100.34	-6,929.3	-842.4	913.9	784.3	129.56	7.054	
18,500.0	11,723.0	18,922.0	11,900.9	60.8	69.2	100.34	100.34	-6,942.8	-842.3	913.9	784.1	129.77	7.042	
18,600.0	11,723.0	19,022.0	11,901.4	61.6	69.8	100.37	100.37	-7,042.9	-842.1	914.4	783.1	131.25	6.966	
18,700.0	11,723.0	19,132.4	11,901.8	62.5	70.5	100.40	100.40	-7,153.2	-841.1	914.1	781.3	132.83	6.882	
18,800.0	11,723.0	19,239.0	11,902.1	63.3	71.2	100.43	100.43	-7,259.8	-839.1	912.8	778.5	134.37	6.793	
18,900.0	11,723.0	19,337.3	11,902.3	64.2	71.8	100.47	100.47	-7,358.1	-836.9	911.2	775.4	135.84	6.708	
19,000.0	11,723.0	19,431.8	11,902.7	65.0	72.4	100.50	100.50	-7,452.6	-835.5	910.4	773.1	137.28	6.631	
19,100.0	11,723.0	19,536.5	11,903.7	65.9	73.1	100.58	100.58	-7,557.2	-833.3	909.0	770.2	138.81	6.548	
19,200.0	11,723.0	19,625.3	11,903.6	66.7	73.6	100.59	100.59	-7,646.0	-832.1	908.3	768.1	140.20	6.479	
19,204.2	11,723.0	19,628.9	11,903.6	66.8	73.7	100.59	100.59	-7,649.6	-832.1	908.3	768.0	140.26	6.476	
19,300.0	11,723.0	19,717.2	11,904.1	67.6	74.2	100.61	100.61	-7,737.9	-832.1	908.9	767.3	141.61	6.418	
19,400.0	11,723.0	19,818.0	11,906.6	68.4	74.9	100.76	100.76	-7,838.7	-831.7	909.5	766.3	143.11	6.355	

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,500.0	11,723.0	19,906.3	11,907.9	69.3	75.5	100.83	-7,927.0	-832.0	910.7	766.3	144.47	6.304	
19,600.0	11,723.0	20,000.5	11,908.5	70.1	76.1	100.83	-8,021.2	-834.2	913.6	767.7	145.90	6.262	
19,700.0	11,723.0	20,111.8	11,910.0	71.0	76.8	100.92	-8,132.4	-834.9	915.0	767.4	147.56	6.201	
19,800.0	11,723.0	20,206.6	11,910.5	71.8	77.4	100.92	-8,227.2	-836.1	916.9	767.9	149.00	6.153	
19,900.0	11,723.0	20,304.0	11,911.0	72.7	78.1	100.93	-8,324.6	-837.5	918.9	768.4	150.47	6.107	
20,000.0	11,723.0	20,400.9	11,911.2	73.5	78.7	100.91	-8,421.5	-839.4	921.4	769.5	151.94	6.064	
20,100.0	11,723.0	20,495.9	11,910.8	74.4	79.3	100.86	-8,516.4	-841.6	924.2	770.8	153.38	6.025	
20,200.0	11,723.0	20,605.9	11,910.8	75.2	80.1	100.82	-8,626.4	-844.3	927.2	772.1	155.03	5.981	
20,300.0	11,723.0	20,743.3	11,912.7	76.1	81.0	100.94	-8,763.7	-843.0	927.0	770.1	156.95	5.906	
20,400.0	11,723.0	20,841.8	11,913.7	77.0	81.7	101.02	-8,862.3	-840.3	925.0	766.5	158.47	5.837	
20,500.0	11,723.0	20,932.2	11,914.4	77.8	82.3	101.09	-8,952.6	-838.4	923.7	763.8	159.90	5.776	
20,555.7	11,723.0	20,980.7	11,914.8	78.3	82.6	101.12	-9,001.2	-837.8	923.5	762.8	160.68	5.747	
20,600.0	11,723.0	21,021.0	11,915.1	78.7	82.9	101.13	-9,041.4	-837.7	923.6	762.3	161.31	5.725	
20,700.0	11,723.0	21,120.2	11,915.4	79.5	83.5	101.14	-9,140.6	-837.7	924.2	761.3	162.82	5.676	
20,800.0	11,723.0	21,228.1	11,915.4	80.4	84.2	101.14	-9,248.5	-837.2	924.3	759.8	164.43	5.621	
20,900.0	11,723.0	21,330.2	11,915.5	81.2	84.9	101.15	-9,350.6	-835.9	923.6	757.6	165.98	5.565	
21,000.0	11,723.0	21,427.6	11,916.0	82.1	85.6	101.19	-9,448.0	-835.0	923.3	755.8	167.48	5.513	
21,100.0	11,723.0	21,532.2	11,916.5	82.9	86.3	101.23	-9,552.6	-833.8	922.9	753.8	169.06	5.459	
21,200.0	11,723.0	21,633.4	11,917.7	83.8	87.0	101.31	-9,653.8	-832.0	921.9	751.3	170.60	5.404	
21,284.9	11,723.0	21,712.5	11,918.4	84.5	87.5	101.37	-9,732.8	-830.9	921.4	749.5	171.84	5.362 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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: Reference		0-MWD+IFR1+FDIR 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		
0.0	0.0	1.5	1.5	3.0	3.0	-48.46	495.9	-559.7	747.8						
100.0	100.0	101.5	101.5	3.0	3.0	-48.46	495.9	-559.7	747.8	741.8	6.00	124.563			
200.0	200.0	201.5	201.5	3.0	3.0	-48.46	495.9	-559.7	747.8	741.7	6.04	123.736			
300.0	300.0	301.5	301.5	3.0	3.1	-48.46	495.9	-559.7	747.8	741.7	6.13	122.027			
400.0	400.0	401.5	401.5	3.0	3.2	-48.46	495.9	-559.7	747.8	741.5	6.25	119.567			
500.0	500.0	501.5	501.5	3.1	3.4	-48.46	495.9	-559.7	747.8	741.4	6.42	116.519			
600.0	600.0	601.5	601.5	3.1	3.6	-48.46	495.9	-559.7	747.8	741.2	6.61	113.052			
700.0	700.0	701.5	701.5	3.1	3.8	-48.46	495.9	-559.7	747.8	740.9	6.84	109.323			
800.0	800.0	801.5	801.5	3.2	4.0	-48.46	495.9	-559.7	747.8	740.7	7.09	105.461			
900.0	900.0	901.5	901.5	3.2	4.2	-48.46	495.9	-559.7	747.8	740.4	7.36	101.569			
1,000.0	1,000.0	1,001.5	1,001.5	3.2	4.5	-48.46	495.9	-559.7	747.8	740.1	7.65	97.720			
1,100.0	1,100.0	1,101.5	1,101.5	3.3	4.8	-48.46	495.9	-559.7	747.8	739.8	7.96	93.966			
1,200.0	1,200.0	1,201.5	1,201.5	3.4	5.1	-48.46	495.9	-559.7	747.8	739.5	8.28	90.342			
1,300.0	1,300.0	1,301.5	1,301.5	3.4	5.4	-48.46	495.9	-559.7	747.8	739.2	8.61	86.869			
1,400.0	1,400.0	1,401.5	1,401.5	3.5	5.7	-48.46	495.9	-559.7	747.8	738.8	8.95	83.557			
1,500.0	1,500.0	1,501.5	1,501.5	3.5	6.0	-48.46	495.9	-559.7	747.8	738.5	9.30	80.410			
1,600.0	1,600.0	1,601.5	1,601.5	3.6	6.3	-48.46	495.9	-559.7	747.8	738.1	9.66	77.427			
1,700.0	1,700.0	1,701.5	1,701.5	3.7	6.6	-48.46	495.9	-559.7	747.8	737.8	10.02	74.605			
1,800.0	1,800.0	1,801.5	1,801.5	3.8	6.9	-48.46	495.9	-559.7	747.8	737.4	10.39	71.938			
1,900.0	1,900.0	1,901.5	1,901.5	3.9	7.2	-48.46	495.9	-559.7	747.8	737.0	10.77	69.417			
2,000.0	2,000.0	2,001.5	2,001.5	3.9	7.6	-48.46	495.9	-559.7	747.8	736.6	11.15	67.036			
2,100.0	2,100.0	2,101.5	2,101.5	4.0	7.9	-48.46	495.9	-559.7	747.8	736.2	11.54	64.787			
2,200.0	2,200.0	2,201.5	2,201.5	4.1	8.2	-48.46	495.9	-559.7	747.8	735.8	11.93	62.661			
2,300.0	2,300.0	2,301.5	2,301.5	4.2	8.6	-48.46	495.9	-559.7	747.8	735.4	12.33	60.651			
2,400.0	2,400.0	2,401.5	2,401.5	4.3	8.9	-48.46	495.9	-559.7	747.8	735.1	12.73	58.750			
2,416.2	2,416.2	2,417.7	2,417.7	4.3	9.0	-48.46	495.9	-559.7	747.8	735.0	12.79	58.452	CC		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-48.46	495.9	-559.7	747.8	734.7	13.13	56.972	ES		
2,600.0	2,600.0	2,583.4	2,583.3	4.5	9.5	-72.12	496.0	-560.9	748.5	735.0	13.45	55.637			
2,700.0	2,699.9	2,665.3	2,665.2	4.6	9.8	-72.47	496.5	-564.4	751.0	737.3	13.75	54.608			
2,800.0	2,799.9	2,746.8	2,746.5	4.7	10.0	-72.92	497.3	-570.2	756.0	742.0	14.05	53.827			
2,900.0	2,899.8	2,828.0	2,827.3	4.8	10.3	-73.46	498.4	-578.3	763.5	749.2	14.33	53.279			
3,000.0	2,999.7	2,908.6	2,907.2	4.9	10.6	-74.07	499.8	-588.5	773.5	758.9	14.61	52.949			
3,100.0	3,099.7	2,998.2	2,995.7	5.0	10.9	-74.82	501.7	-602.1	785.6	770.7	14.92	52.640			
3,200.0	3,199.6	3,096.7	3,093.1	5.1	11.2	-75.62	503.7	-617.3	798.2	782.9	15.29	52.216			
3,300.0	3,299.6	3,195.3	3,190.5	5.2	11.6	-76.41	505.8	-632.5	811.0	795.3	15.65	51.813			
3,400.0	3,399.5	3,293.9	3,287.9	5.3	11.9	-77.16	507.9	-647.7	823.9	807.9	16.02	51.429			
3,500.0	3,499.4	3,392.5	3,385.2	5.4	12.2	-77.90	509.9	-662.9	836.9	820.5	16.39	51.064			
3,600.0	3,599.4	3,491.0	3,482.6	5.5	12.6	-78.61	512.0	-678.0	850.1	833.3	16.76	50.715			
3,700.0	3,699.3	3,589.6	3,580.0	5.6	12.9	-79.30	514.1	-693.2	863.4	846.3	17.14	50.383			
3,721.2	3,720.5	3,610.5	3,600.6	5.6	13.0	-79.45	514.5	-696.5	866.2	849.0	17.22	50.314			
3,800.0	3,799.3	3,688.2	3,677.4	5.7	13.3	-80.05	516.2	-708.4	876.9	859.4	17.51	50.068			
3,900.0	3,899.3	3,787.0	3,774.9	5.8	13.6	-80.69	518.2	-723.7	890.8	872.9	17.90	49.772			
3,921.2	3,920.5	3,807.9	3,795.6	5.8	13.7	-57.30	518.7	-726.9	893.8	875.8	17.98	49.707			
4,000.0	3,999.3	3,885.7	3,872.5	5.9	14.0	-57.63	520.3	-738.9	904.9	886.6	18.30	49.452			
4,100.0	4,099.3	3,984.5	3,970.1	6.0	14.3	-58.03	522.4	-754.1	919.1	900.4	18.71	49.138			
4,200.0	4,199.3	4,083.3	4,067.7	6.1	14.7	-58.42	524.5	-769.3	933.4	914.3	19.11	48.836			
4,300.0	4,299.3	4,182.1	4,165.2	6.3	15.0	-58.80	526.5	-784.6	947.7	928.1	19.52	48.544			
4,400.0	4,399.3	4,280.9	4,262.8	6.4	15.4	-59.17	528.6	-799.8	962.0	942.0	19.93	48.263			
4,500.0	4,499.3	4,379.7	4,360.4	6.5	15.7	-59.53	530.7	-815.0	976.3	956.0	20.34	47.992			
4,600.0	4,599.3	4,478.4	4,458.0	6.6	16.1	-59.87	532.8	-830.2	990.7	970.0	20.76	47.730	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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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	0.4	0.4	3.0	3.0	-46.72	496.0	-526.7	723.5						
100.0	100.0	100.4	100.4	3.0	3.0	-46.72	496.0	-526.7	723.5	717.5	6.00	120.572			
200.0	200.0	200.4	200.4	3.0	3.0	-46.72	496.0	-526.7	723.5	717.5	6.01	120.449			
300.0	300.0	300.4	300.4	3.0	3.0	-46.72	496.0	-526.7	723.5	717.5	6.02	120.183			
400.0	400.0	400.4	400.4	3.0	3.0	-46.72	496.0	-526.7	723.5	717.4	6.04	119.778			
500.0	500.0	500.4	500.4	3.1	3.1	-46.72	496.0	-526.7	723.5	717.4	6.07	119.238			
600.0	600.0	600.4	600.4	3.1	3.1	-46.72	496.0	-526.7	723.5	717.4	6.10	118.567			
700.0	700.0	700.4	700.4	3.1	3.1	-46.72	496.0	-526.7	723.5	717.3	6.14	117.773			
800.0	800.0	800.4	800.4	3.2	3.2	-46.72	496.0	-526.7	723.5	717.3	6.19	116.864			
900.0	900.0	900.4	900.4	3.2	3.2	-46.72	496.0	-526.7	723.5	717.2	6.25	115.847			
1,000.0	1,000.0	1,000.4	1,000.4	3.2	3.2	-46.72	496.0	-526.7	723.5	717.2	6.31	114.732			
1,100.0	1,100.0	1,100.4	1,100.4	3.3	3.3	-46.72	496.0	-526.7	723.5	717.1	6.37	113.529			
1,200.0	1,200.0	1,200.4	1,200.4	3.4	3.4	-46.72	496.0	-526.7	723.5	717.0	6.45	112.246			
1,300.0	1,300.0	1,300.4	1,300.4	3.4	3.4	-46.72	496.0	-526.7	723.5	717.0	6.52	110.893			
1,400.0	1,400.0	1,400.4	1,400.4	3.5	3.5	-46.72	496.0	-526.7	723.5	716.9	6.61	109.480			
1,500.0	1,500.0	1,500.4	1,500.4	3.5	3.5	-46.72	496.0	-526.7	723.5	716.8	6.70	108.016			
1,600.0	1,600.0	1,600.4	1,600.4	3.6	3.6	-46.72	496.0	-526.7	723.5	716.7	6.79	106.510			
1,700.0	1,700.0	1,700.4	1,700.4	3.7	3.7	-46.72	496.0	-526.7	723.5	716.6	6.89	104.970			
1,800.0	1,800.0	1,800.4	1,800.4	3.8	3.8	-46.72	496.0	-526.7	723.5	716.5	7.00	103.404			
1,900.0	1,900.0	1,900.4	1,900.4	3.9	3.9	-46.72	496.0	-526.7	723.5	716.4	7.11	101.819			
2,000.0	2,000.0	2,000.4	2,000.4	3.9	3.9	-46.72	496.0	-526.7	723.5	716.3	7.22	100.222			
2,100.0	2,100.0	2,100.4	2,100.4	4.0	4.0	-46.72	496.0	-526.7	723.5	716.1	7.34	98.619			
2,200.0	2,200.0	2,200.4	2,200.4	4.1	4.1	-46.72	496.0	-526.7	723.5	716.0	7.46	97.015			
2,300.0	2,300.0	2,300.4	2,300.4	4.2	4.2	-46.72	496.0	-526.7	723.5	715.9	7.58	95.416			
2,400.0	2,400.0	2,400.4	2,400.4	4.3	4.3	-46.72	496.0	-526.7	723.5	715.8	7.71	93.825			
2,416.5	2,416.5	2,416.9	2,416.9	4.3	4.3	-46.72	496.0	-526.7	723.5	715.8	7.73	93.563 CC			
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-46.72	496.0	-526.7	723.5	715.6	7.84	92.250 ES			
2,600.0	2,600.0	2,581.1	2,581.1	4.5	4.5	-70.36	496.4	-527.8	724.2	716.3	7.95	91.086			
2,700.0	2,699.9	2,661.7	2,661.6	4.6	4.5	-70.66	497.8	-530.9	727.1	719.0	8.05	90.321			
2,800.0	2,799.9	2,742.1	2,741.8	4.7	4.6	-71.01	500.0	-536.1	732.6	724.4	8.15	89.917			
2,900.0	2,899.8	2,822.1	2,821.4	4.8	4.6	-71.42	503.2	-543.3	740.8	732.5	8.24	89.881			
3,000.0	2,999.7	2,915.3	2,914.0	4.9	4.7	-71.93	507.6	-553.5	751.0	742.7	8.35	89.952			
3,100.0	3,099.7	3,014.6	3,012.5	5.0	4.7	-72.46	512.3	-564.5	761.4	753.0	8.46	89.953			
3,200.0	3,199.6	3,113.8	3,111.0	5.1	4.8	-72.97	517.0	-575.5	771.9	763.4	8.58	89.938			
3,300.0	3,299.6	3,213.0	3,209.5	5.2	4.9	-73.48	521.8	-586.5	782.5	773.8	8.70	89.908			
3,400.0	3,399.5	3,312.2	3,307.9	5.3	4.9	-73.96	526.5	-597.5	793.1	784.3	8.83	89.866			
3,500.0	3,499.4	3,411.4	3,406.4	5.4	5.0	-74.44	531.3	-608.5	803.8	794.8	8.95	89.811			
3,600.0	3,599.4	3,510.6	3,504.9	5.5	5.1	-74.90	536.0	-619.4	814.5	805.4	9.08	89.744			
3,700.0	3,699.3	3,609.8	3,603.4	5.6	5.2	-75.36	540.7	-630.4	825.3	816.1	9.20	89.667			
3,721.2	3,720.5	3,630.8	3,624.3	5.6	5.2	-75.45	541.7	-632.7	827.6	818.3	9.23	89.650			
3,800.0	3,799.3	3,709.0	3,701.9	5.7	5.2	-75.85	545.5	-641.4	836.2	826.9	9.34	89.578			
3,900.0	3,899.3	3,808.3	3,800.4	5.8	5.3	-76.24	550.2	-652.4	847.6	838.2	9.47	89.471			
3,921.2	3,920.5	3,829.3	3,821.3	5.8	5.4	-52.79	551.2	-654.7	850.1	840.6	9.51	89.427			
4,000.0	3,999.3	3,907.6	3,899.0	5.9	5.4	-52.94	554.9	-663.4	859.3	849.7	9.63	89.193			
4,100.0	4,099.3	4,006.8	3,997.5	6.0	5.5	-53.13	559.7	-674.4	871.1	861.3	9.80	88.890			
4,200.0	4,199.3	4,106.1	4,096.1	6.1	5.6	-53.32	564.4	-685.3	882.8	872.8	9.97	88.582			
4,300.0	4,299.3	4,205.4	4,194.6	6.3	5.7	-53.49	569.2	-696.3	894.5	884.4	10.13	88.269			
4,400.0	4,399.3	4,304.6	4,293.2	6.4	5.8	-53.67	573.9	-707.3	906.3	896.0	10.30	87.953			
4,500.0	4,499.3	4,403.9	4,391.7	6.5	5.9	-53.84	578.6	-718.3	918.0	907.5	10.48	87.635			
4,600.0	4,599.3	4,503.2	4,490.3	6.6	6.0	-54.00	583.4	-729.3	929.8	919.1	10.65	87.315			
4,700.0	4,699.3	4,602.5	4,588.8	6.7	6.1	-54.16	588.1	-740.3	941.6	930.7	10.82	86.995			
4,800.0	4,799.3	4,701.7	4,687.4	6.8	6.2	-54.32	592.9	-751.3	953.3	942.3	11.00	86.674			

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	(usft)		
4,900.0	4,899.3	4,801.0	4,785.9	7.0	6.3	-54.47	597.6	-762.3	965.1	953.9	11.18	86.354		
5,000.0	4,999.3	4,900.3	4,884.5	7.1	6.4	-54.62	602.3	-773.3	976.9	965.5	11.35	86.035		
5,100.0	5,099.3	4,999.5	4,983.0	7.2	6.5	-54.77	607.1	-784.2	988.7	977.2	11.53	85.718 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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)					
0.0	0.0	0.7	0.7	3.0	3.0	-44.86	496.2	-493.7	699.9					
100.0	100.0	100.7	100.7	3.0	3.0	-44.86	496.2	-493.7	699.9	693.9	6.00	116.596		
200.0	200.0	200.7	200.7	3.0	3.0	-44.86	496.2	-493.7	699.9	693.9	6.04	115.824		
300.0	300.0	300.7	300.7	3.0	3.1	-44.86	496.2	-493.7	699.9	693.8	6.13	114.222		
400.0	400.0	400.7	400.7	3.0	3.2	-44.86	496.2	-493.7	699.9	693.7	6.25	111.911		
500.0	500.0	500.7	500.7	3.1	3.4	-44.86	496.2	-493.7	699.9	693.5	6.42	109.045		
600.0	600.0	600.7	600.7	3.1	3.6	-44.86	496.2	-493.7	699.9	693.3	6.62	105.786		
700.0	700.0	700.7	700.7	3.1	3.8	-44.86	496.2	-493.7	699.9	693.1	6.84	102.278		
800.0	800.0	800.7	800.7	3.2	4.0	-44.86	496.2	-493.7	699.9	692.8	7.10	98.646		
900.0	900.0	900.7	900.7	3.2	4.2	-44.86	496.2	-493.7	699.9	692.6	7.37	94.984		
1,000.0	1,000.0	1,000.7	1,000.7	3.2	4.5	-44.86	496.2	-493.7	699.9	692.3	7.66	91.364		
1,100.0	1,100.0	1,100.7	1,100.7	3.3	4.8	-44.86	496.2	-493.7	699.9	692.0	7.97	87.834		
1,200.0	1,200.0	1,200.7	1,200.7	3.4	5.1	-44.86	496.2	-493.7	699.9	691.6	8.29	84.426		
1,300.0	1,300.0	1,300.7	1,300.7	3.4	5.4	-44.86	496.2	-493.7	699.9	691.3	8.62	81.161		
1,400.0	1,400.0	1,400.7	1,400.7	3.5	5.7	-44.86	496.2	-493.7	699.9	691.0	8.97	78.048		
1,500.0	1,500.0	1,500.7	1,500.7	3.5	6.0	-44.86	496.2	-493.7	699.9	690.6	9.32	75.091		
1,600.0	1,600.0	1,600.7	1,600.7	3.6	6.3	-44.86	496.2	-493.7	699.9	690.3	9.68	72.289		
1,700.0	1,700.0	1,700.7	1,700.7	3.7	6.6	-44.86	496.2	-493.7	699.9	689.9	10.05	69.639		
1,800.0	1,800.0	1,800.7	1,800.7	3.8	6.9	-44.86	496.2	-493.7	699.9	689.5	10.43	67.134		
1,900.0	1,900.0	1,900.7	1,900.7	3.9	7.2	-44.86	496.2	-493.7	699.9	689.1	10.81	64.768		
2,000.0	2,000.0	2,000.7	2,000.7	3.9	7.6	-44.86	496.2	-493.7	699.9	688.7	11.19	62.534		
2,100.0	2,100.0	2,100.7	2,100.7	4.0	7.9	-44.86	496.2	-493.7	699.9	688.4	11.58	60.424		
2,200.0	2,200.0	2,200.7	2,200.7	4.1	8.2	-44.86	496.2	-493.7	699.9	688.0	11.98	58.431		
2,300.0	2,300.0	2,300.7	2,300.7	4.2	8.6	-44.86	496.2	-493.7	699.9	687.6	12.38	56.546		
2,400.0	2,400.0	2,400.7	2,400.7	4.3	8.9	-44.86	496.2	-493.7	699.9	687.2	12.78	54.764		
2,416.4	2,416.4	2,417.1	2,417.1	4.3	9.0	-44.86	496.2	-493.7	699.9	687.1	12.85	54.481		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-44.86	496.2	-493.7	699.9	686.8	13.18	53.087		
2,600.0	2,600.0	2,585.8	2,585.8	4.5	9.5	-68.40	497.5	-493.7	700.4	686.8	13.53	51.755		
2,700.0	2,699.9	2,670.9	2,670.8	4.6	9.8	-68.41	501.3	-493.7	702.3	688.4	13.87	50.648		
2,800.0	2,799.9	2,755.9	2,755.6	4.7	10.1	-68.27	507.6	-493.7	706.3	692.1	14.20	49.746		
2,900.0	2,899.8	2,847.9	2,847.1	4.8	10.4	-67.98	516.9	-493.8	712.2	697.6	14.56	48.907		
3,000.0	2,999.7	2,947.7	2,946.3	4.9	10.8	-67.66	527.3	-493.8	718.4	703.4	14.96	48.007		
3,100.0	3,099.7	3,047.4	3,045.5	5.0	11.1	-67.34	537.7	-493.9	724.6	709.2	15.37	47.147		
3,200.0	3,199.6	3,147.1	3,144.7	5.1	11.4	-67.03	548.2	-493.9	730.9	715.1	15.78	46.324		
3,300.0	3,299.6	3,246.8	3,243.8	5.2	11.8	-66.72	558.6	-494.0	737.1	721.0	16.19	45.537		
3,400.0	3,399.5	3,346.6	3,343.0	5.3	12.1	-66.42	569.0	-494.0	743.4	726.8	16.60	44.784		
3,500.0	3,499.4	3,446.3	3,442.2	5.4	12.5	-66.12	579.4	-494.0	749.7	732.7	17.02	44.063		
3,600.0	3,599.4	3,546.0	3,541.4	5.5	12.8	-65.83	589.9	-494.1	756.1	738.6	17.43	43.371		
3,700.0	3,699.3	3,645.7	3,640.6	5.6	13.2	-65.54	600.3	-494.1	762.4	744.6	17.85	42.709		
3,721.2	3,720.5	3,666.9	3,661.6	5.6	13.3	-65.48	602.5	-494.1	763.8	745.8	17.94	42.572		
3,800.0	3,799.3	3,745.4	3,739.7	5.7	13.5	-65.27	610.7	-494.2	769.0	750.7	18.27	42.083		
3,900.0	3,899.3	3,845.0	3,838.7	5.8	13.9	-64.91	621.1	-494.2	776.4	757.7	18.70	41.514		
3,921.2	3,920.5	3,866.1	3,859.7	5.8	14.0	-41.30	623.3	-494.2	778.0	759.2	18.79	41.396		
4,000.0	3,999.3	3,944.4	3,937.6	5.9	14.2	-40.91	631.5	-494.3	784.3	765.1	19.15	40.952		
4,100.0	4,099.3	4,043.9	4,036.5	6.0	14.6	-40.42	641.9	-494.3	792.2	772.6	19.61	40.410		
4,200.0	4,199.3	4,143.3	4,135.4	6.1	14.9	-39.94	652.3	-494.4	800.3	780.2	20.06	39.890		
4,300.0	4,299.3	4,242.8	4,234.3	6.3	15.3	-39.47	662.7	-494.4	808.4	787.8	20.52	39.393		
4,400.0	4,399.3	4,342.2	4,333.3	6.4	15.6	-39.00	673.1	-494.5	816.5	795.5	20.98	38.916		
4,500.0	4,499.3	4,441.7	4,432.2	6.5	16.0	-38.55	683.5	-494.5	824.7	803.3	21.44	38.458		
4,600.0	4,599.3	4,541.2	4,531.1	6.6	16.3	-38.10	693.9	-494.5	832.9	811.0	21.91	38.020		
4,700.0	4,699.3	4,640.6	4,630.0	6.7	16.7	-37.67	704.3	-494.6	841.2	818.9	22.37	37.598		
4,800.0	4,799.3	4,740.1	4,728.9	6.8	17.0	-37.24	714.7	-494.6	849.6	826.7	22.84	37.194		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,900.0	4,899.3	4,839.5	4,827.8	7.0	17.4	-36.82	725.1	-494.7	858.0	834.7	23.31	36.805		
5,000.0	4,999.3	4,939.0	4,926.7	7.1	17.8	-36.41	735.5	-494.7	866.4	842.6	23.78	36.431		
5,100.0	5,099.3	5,038.4	5,025.6	7.2	18.1	-36.01	745.8	-494.8	874.9	850.6	24.25	36.072		
5,200.0	5,199.3	5,137.9	5,124.5	7.3	18.5	-35.61	756.2	-494.8	883.4	858.7	24.73	35.726		
5,300.0	5,299.3	5,237.3	5,223.4	7.4	18.8	-35.22	766.6	-494.9	892.0	866.8	25.20	35.393		
5,400.0	5,399.3	5,336.8	5,322.3	7.5	19.2	-34.84	777.0	-494.9	900.6	874.9	25.68	35.072		
5,500.0	5,499.3	5,436.2	5,421.2	7.7	19.5	-34.47	787.4	-495.0	909.2	883.0	26.15	34.763		
5,600.0	5,599.3	5,535.7	5,520.1	7.8	19.9	-34.10	797.8	-495.0	917.9	891.2	26.63	34.466		
5,700.0	5,699.3	5,635.1	5,619.0	7.9	20.2	-33.74	808.2	-495.0	926.6	899.5	27.11	34.178		
5,800.0	5,799.3	5,734.6	5,718.0	8.0	20.6	-33.39	818.6	-495.1	935.3	907.8	27.59	33.901		
5,900.0	5,899.3	5,834.0	5,816.9	8.2	21.0	-33.05	829.0	-495.1	944.1	916.1	28.07	33.634		
6,000.0	5,999.3	5,933.5	5,915.8	8.3	21.3	-32.71	839.4	-495.2	952.9	924.4	28.55	33.376		
6,100.0	6,099.3	6,118.0	6,100.0	8.4	22.0	-32.52	845.2	-495.2	954.1	924.8	29.30	32.558		
6,200.0	6,199.3	6,218.0	6,200.0	8.5	22.3	-32.52	845.2	-495.2	954.1	924.3	29.76	32.055		
6,300.0	6,299.3	6,318.0	6,300.0	8.6	22.7	-32.52	845.2	-495.2	954.1	923.9	30.22	31.568		
6,400.0	6,399.3	6,418.0	6,400.0	8.8	23.0	-32.52	845.2	-495.2	954.1	923.4	30.68	31.094		
6,500.0	6,499.3	6,518.0	6,500.0	8.9	23.4	-32.52	845.2	-495.2	954.1	922.9	31.15	30.634		
6,600.0	6,599.3	6,618.0	6,600.0	9.0	23.7	-32.52	845.2	-495.2	954.1	922.5	31.61	30.187		
6,700.0	6,699.3	6,718.0	6,700.0	9.1	24.1	-32.52	845.2	-495.2	954.1	922.0	32.07	29.752		
6,800.0	6,799.3	6,818.0	6,800.0	9.3	24.4	-32.52	845.2	-495.2	954.1	921.6	32.53	29.329		
6,900.0	6,899.3	6,918.0	6,900.0	9.4	24.8	-32.52	845.2	-495.2	954.1	921.1	32.99	28.918		
7,000.0	6,999.3	7,018.0	7,000.0	9.5	25.1	-32.52	845.2	-495.2	954.1	920.6	33.46	28.518		
7,100.0	7,099.3	7,118.0	7,100.0	9.6	25.5	-32.52	845.2	-495.2	954.1	920.2	33.92	28.129		
7,200.0	7,199.3	7,218.0	7,200.0	9.8	25.8	-32.52	845.2	-495.2	954.1	919.7	34.38	27.749		
7,300.0	7,299.3	7,318.0	7,300.0	9.9	26.2	-32.52	845.2	-495.2	954.1	919.2	34.85	27.380		
7,400.0	7,399.3	7,418.0	7,400.0	10.0	26.6	-32.52	845.2	-495.2	954.1	918.8	35.31	27.020		
7,500.0	7,499.3	7,518.0	7,500.0	10.1	26.9	-32.52	845.2	-495.2	954.1	918.3	35.78	26.669		
7,600.0	7,599.3	7,618.0	7,600.0	10.3	27.3	-32.52	845.2	-495.2	954.1	917.9	36.24	26.327		
7,700.0	7,699.3	7,718.0	7,700.0	10.4	27.6	-32.52	845.2	-495.2	954.1	917.4	36.70	25.994		
7,800.0	7,799.3	7,818.0	7,800.0	10.5	28.0	-32.52	845.2	-495.2	954.1	916.9	37.17	25.668		
7,900.0	7,899.3	7,918.0	7,900.0	10.6	28.3	-32.52	845.2	-495.2	954.1	916.5	37.64	25.351		
8,000.0	7,999.3	8,018.0	8,000.0	10.8	28.7	-32.52	845.2	-495.2	954.1	916.0	38.10	25.041		
8,100.0	8,099.3	8,118.0	8,100.0	10.9	29.0	-32.52	845.2	-495.2	954.1	915.5	38.57	24.738		
8,200.0	8,199.3	8,218.0	8,200.0	11.0	29.4	-32.52	845.2	-495.2	954.1	915.1	39.03	24.443		
8,300.0	8,299.3	8,318.0	8,300.0	11.2	29.7	-32.52	845.2	-495.2	954.1	914.6	39.50	24.154		
8,400.0	8,399.3	8,418.0	8,400.0	11.3	30.1	-32.52	845.2	-495.2	954.1	914.1	39.97	23.872		
8,500.0	8,499.3	8,518.0	8,500.0	11.4	30.5	-32.52	845.2	-495.2	954.1	913.7	40.43	23.596		
8,600.0	8,599.3	8,618.0	8,600.0	11.5	30.8	-32.52	845.2	-495.2	954.1	913.2	40.90	23.327		
8,700.0	8,699.3	8,718.0	8,700.0	11.7	31.2	-32.52	845.2	-495.2	954.1	912.7	41.37	23.063		
8,800.0	8,799.3	8,818.0	8,800.0	11.8	31.5	-32.52	845.2	-495.2	954.1	912.3	41.84	22.805		
8,900.0	8,899.3	8,918.0	8,900.0	11.9	31.9	-32.52	845.2	-495.2	954.1	911.8	42.30	22.553		
9,000.0	8,999.3	9,018.0	9,000.0	12.0	32.2	-32.52	845.2	-495.2	954.1	911.3	42.77	22.306		
9,100.0	9,099.3	9,118.0	9,100.0	12.2	32.6	-32.52	845.2	-495.2	954.1	910.9	43.24	22.065		
9,200.0	9,199.3	9,218.0	9,200.0	12.3	32.9	-32.52	845.2	-495.2	954.1	910.4	43.71	21.829		
9,300.0	9,299.3	9,318.0	9,300.0	12.4	33.3	-32.52	845.2	-495.2	954.1	909.9	44.18	21.597		
9,400.0	9,399.3	9,418.0	9,400.0	12.6	33.7	-32.52	845.2	-495.2	954.1	909.4	44.65	21.370		
9,500.0	9,499.3	10,844.1	10,225.0	12.7	36.5	-90.17	39.1	-492.8	886.7	845.1	41.62	21.302		
9,600.0	9,599.3	10,844.1	10,225.0	12.8	36.5	-90.17	39.1	-492.8	807.0	764.6	42.42	19.025		
9,700.0	9,699.3	10,844.1	10,225.0	12.9	36.5	-90.17	39.1	-492.8	732.3	689.0	43.22	16.944		
9,800.0	9,799.3	10,844.1	10,225.0	13.1	36.5	-90.17	39.1	-492.8	664.2	620.3	43.95	15.112		
9,900.0	9,899.3	10,844.1	10,225.0	13.2	36.5	-90.17	39.1	-492.8	605.1	560.6	44.50	13.598		
10,000.0	9,999.3	10,844.1	10,225.0	13.3	36.5	-90.17	39.1	-492.8	557.9	513.2	44.70	12.479		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,099.3	10,844.1	10,225.0	13.5	36.5	-90.17	39.1	-492.8	525.5	481.0	44.50	11.809		
10,200.0	10,199.3	10,844.1	10,225.0	13.6	36.5	-90.17	39.1	-492.8	511.1	466.8	44.24	11.553		
10,225.0	10,224.3	10,844.1	10,225.0	13.6	36.5	-90.17	39.1	-492.8	510.5	466.2	44.24	11.539	CC, ES, SF	
10,300.0	10,299.3	10,844.1	10,225.0	13.7	36.5	-90.17	39.1	-492.8	515.9	471.5	44.47	11.603		
10,400.0	10,399.3	10,844.1	10,225.0	13.8	36.5	-90.17	39.1	-492.8	539.6	494.6	45.06	11.974		
10,500.0	10,499.3	10,844.1	10,225.0	14.0	36.5	-90.17	39.1	-492.8	579.8	534.3	45.53	12.734		
10,600.0	10,599.3	10,844.1	10,225.0	14.1	36.5	-90.17	39.1	-492.8	633.4	587.7	45.72	13.855		
10,700.0	10,699.3	10,844.1	10,225.0	14.2	36.5	-90.17	39.1	-492.8	697.3	651.6	45.70	15.259		
10,800.0	10,799.3	10,844.1	10,225.0	14.4	36.5	-90.17	39.1	-492.8	768.9	723.3	45.59	16.866		
10,900.0	10,899.3	10,844.1	10,225.0	14.5	36.5	-90.17	39.1	-492.8	846.3	800.8	45.47	18.611		
11,000.0	10,999.3	10,844.1	10,225.0	14.6	36.5	-90.17	39.1	-492.8	928.0	882.6	45.39	20.446		

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													0.0 usft
Rule Assigned:													Offset Well Error:
Warning													3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	
0.0	0.0	0.0	0.0	3.0	3.0	-42.87	496.3	-460.7	677.2				
100.0	100.0	100.0	100.0	3.0	3.0	-42.87	496.3	-460.7	677.2	671.2	6.00	112.861	
200.0	200.0	200.0	200.0	3.0	3.0	-42.87	496.3	-460.7	677.2	671.2	6.01	112.737	
300.0	300.0	300.0	300.0	3.0	3.0	-42.87	496.3	-460.7	677.2	671.2	6.02	112.470	
400.0	400.0	400.0	400.0	3.0	3.0	-42.87	496.3	-460.7	677.2	671.2	6.04	112.062	
500.0	500.0	500.0	500.0	3.1	3.1	-42.87	496.3	-460.7	677.2	671.1	6.07	111.517	
600.0	600.0	600.0	600.0	3.1	3.1	-42.87	496.3	-460.7	677.2	671.1	6.11	110.843	
700.0	700.0	700.0	700.0	3.1	3.1	-42.87	496.3	-460.7	677.2	671.1	6.15	110.046	
800.0	800.0	800.0	800.0	3.2	3.2	-42.87	496.3	-460.7	677.2	671.0	6.21	109.134	
900.0	900.0	900.0	900.0	3.2	3.2	-42.87	496.3	-460.7	677.2	671.0	6.26	108.117	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	-42.87	496.3	-460.7	677.2	670.9	6.33	107.003	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	-42.87	496.3	-460.7	677.2	670.8	6.40	105.803	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	-42.87	496.3	-460.7	677.2	670.7	6.48	104.527	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-42.87	496.3	-460.7	677.2	670.7	6.56	103.185	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-42.87	496.3	-460.7	677.2	670.6	6.65	101.786	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	-42.87	496.3	-460.7	677.2	670.5	6.75	100.340	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	-42.87	496.3	-460.7	677.2	670.4	6.85	98.857	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-42.87	496.3	-460.7	677.2	670.3	6.96	97.344	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	-42.87	496.3	-460.7	677.2	670.2	7.07	95.809	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	-42.87	496.3	-460.7	677.2	670.0	7.18	94.260	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-42.87	496.3	-460.7	677.2	669.9	7.31	92.703	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	-42.87	496.3	-460.7	677.2	669.8	7.43	91.144	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	-42.87	496.3	-460.7	677.2	669.7	7.56	89.589	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	-42.87	496.3	-460.7	677.2	669.5	7.69	88.041	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	-42.87	496.3	-460.7	677.2	669.4	7.83	86.506	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-42.87	496.3	-460.7	677.2	669.2	7.97	84.985	
2,600.0	2,600.0	2,624.2	2,624.2	4.5	4.5	-66.47	495.7	-458.1	674.7	666.7	8.05	83.765	
2,700.0	2,699.9	2,748.0	2,747.7	4.6	4.5	-66.42	493.9	-450.3	668.0	659.9	8.09	82.553	
2,800.0	2,799.9	2,848.4	2,847.7	4.7	4.5	-66.27	491.9	-441.7	659.3	651.1	8.15	80.939	
2,900.0	2,899.8	2,948.0	2,946.9	4.8	4.5	-66.12	490.0	-433.2	650.6	642.4	8.20	79.310	
3,000.0	2,999.7	3,047.6	3,046.2	4.9	4.6	-65.96	488.0	-424.6	642.0	633.7	8.27	77.660	
3,100.0	3,099.7	3,147.2	3,145.4	5.0	4.6	-65.79	486.0	-416.1	633.3	625.0	8.33	75.994	
3,200.0	3,199.6	3,246.9	3,244.6	5.1	4.6	-65.62	484.1	-407.6	624.7	616.3	8.41	74.314	
3,300.0	3,299.6	3,346.5	3,343.8	5.2	4.7	-65.45	482.1	-399.0	616.0	607.6	8.48	72.626	
3,400.0	3,399.5	3,446.1	3,443.1	5.3	4.7	-65.27	480.1	-390.5	607.4	598.8	8.56	70.931	
3,500.0	3,499.4	3,545.7	3,542.3	5.4	4.8	-65.09	478.2	-382.0	598.8	590.1	8.65	69.233	
3,600.0	3,599.4	3,645.3	3,641.5	5.5	4.8	-64.90	476.2	-373.5	590.1	581.4	8.74	67.535	
3,700.0	3,699.3	3,744.9	3,740.7	5.6	4.9	-64.71	474.2	-364.9	581.5	572.7	8.83	65.841	
3,721.2	3,720.5	3,766.0	3,761.8	5.6	4.9	-64.67	473.8	-363.1	579.7	570.9	8.85	65.483	
3,800.0	3,799.3	3,844.5	3,840.0	5.7	4.9	-64.40	472.3	-356.4	573.2	564.2	8.93	64.164	
3,900.0	3,899.3	3,944.1	3,939.2	5.8	5.0	-63.92	470.3	-347.9	565.5	556.5	9.04	62.532	
3,921.2	3,920.5	3,965.3	3,960.2	5.8	5.0	-40.28	469.9	-346.1	564.0	554.9	9.07	62.177	
4,000.0	3,999.3	4,043.7	4,038.4	5.9	5.0	-39.86	468.3	-339.3	558.5	549.3	9.18	60.818	
4,100.0	4,099.3	4,143.4	4,137.7	6.0	5.1	-39.31	466.4	-330.8	551.5	542.2	9.33	59.116	
4,200.0	4,199.3	4,243.0	4,236.9	6.1	5.2	-38.74	464.4	-322.3	544.6	535.1	9.48	57.442	
4,300.0	4,299.3	4,342.6	4,336.1	6.3	5.2	-38.16	462.4	-313.8	537.7	528.0	9.64	55.799	
4,400.0	4,399.3	4,442.2	4,435.3	6.4	5.3	-37.57	460.5	-305.2	530.8	521.0	9.80	54.187	
4,500.0	4,499.3	4,541.8	4,534.6	6.5	5.4	-36.96	458.5	-296.7	524.1	514.1	9.96	52.609	
4,600.0	4,599.3	4,641.4	4,633.8	6.6	5.5	-36.34	456.5	-288.2	517.4	507.2	10.13	51.066	
4,700.0	4,699.3	4,741.0	4,733.0	6.7	5.5	-35.70	454.6	-279.6	510.7	500.4	10.31	49.558	
4,800.0	4,799.3	4,840.7	4,832.2	6.8	5.6	-35.04	452.6	-271.1	504.1	493.7	10.48	48.087	
4,900.0	4,899.3	4,940.3	4,931.5	7.0	5.7	-34.36	450.6	-262.6	497.6	487.0	10.67	46.653	

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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)			
5,000.0	4,999.3	5,039.9	5,030.7	7.1	5.8	-33.67	448.6	-254.1	491.2	480.3	10.85	45.256	
5,100.0	5,099.3	5,139.5	5,129.9	7.2	5.9	-32.96	446.7	-245.5	484.8	473.8	11.05	43.896	
5,200.0	5,199.3	5,239.1	5,229.2	7.3	6.0	-32.23	444.7	-237.0	478.5	467.3	11.24	42.574	
5,300.0	5,299.3	5,338.7	5,328.4	7.4	6.1	-31.48	442.7	-228.5	472.3	460.9	11.44	41.290	
5,400.0	5,399.3	5,438.3	5,427.6	7.5	6.1	-30.71	440.8	-219.9	466.2	454.6	11.64	40.044	
5,500.0	5,499.3	5,537.9	5,526.8	7.7	6.2	-29.92	438.8	-211.4	460.2	448.3	11.85	38.835	
5,600.0	5,599.3	5,637.6	5,626.1	7.8	6.3	-29.11	436.8	-202.9	454.2	442.2	12.06	37.663	
5,700.0	5,699.3	5,737.2	5,725.3	7.9	6.4	-28.28	434.9	-194.3	448.4	436.1	12.27	36.528	
5,800.0	5,799.3	5,836.8	5,824.5	8.0	6.5	-27.42	432.9	-185.8	442.6	430.1	12.49	35.429	
5,900.0	5,899.3	5,936.4	5,923.8	8.2	6.6	-26.55	430.9	-177.3	436.9	424.2	12.71	34.367	
6,000.0	5,999.3	6,036.0	6,023.0	8.3	6.7	-25.65	429.0	-168.8	431.4	418.5	12.94	33.339	
6,100.0	6,099.3	6,135.6	6,122.2	8.4	6.8	-24.73	427.0	-160.2	425.9	412.8	13.17	32.347	
6,200.0	6,199.3	6,235.2	6,221.4	8.5	6.9	-23.79	425.0	-151.7	420.6	407.2	13.40	31.389	
6,300.0	6,299.3	6,334.9	6,320.7	8.6	7.0	-22.82	423.1	-143.2	415.4	401.8	13.64	30.465	
6,400.0	6,399.3	6,434.5	6,419.9	8.8	7.1	-21.82	421.1	-134.6	410.3	396.4	13.87	29.575	
6,500.0	6,499.3	6,534.1	6,519.1	8.9	7.2	-20.81	419.1	-126.1	405.3	391.2	14.12	28.717	
6,600.0	6,599.3	6,633.7	6,618.4	9.0	7.3	-19.77	417.2	-117.6	400.5	386.1	14.36	27.891	
6,700.0	6,699.3	6,733.3	6,717.6	9.1	7.4	-18.70	415.2	-109.1	395.8	381.2	14.61	27.097	
6,800.0	6,799.3	6,832.9	6,816.8	9.3	7.5	-17.61	413.2	-100.5	391.3	376.4	14.86	26.335	
6,900.0	6,899.3	6,932.5	6,916.0	9.4	7.7	-16.49	411.3	-92.0	386.8	371.7	15.11	25.602	
7,000.0	6,999.3	7,032.1	7,015.3	9.5	7.8	-15.35	409.3	-83.5	382.6	367.2	15.36	24.900	
7,100.0	7,099.3	7,131.8	7,114.5	9.6	7.9	-14.18	407.3	-74.9	378.5	362.9	15.62	24.227	
7,200.0	7,199.3	7,231.4	7,213.7	9.8	8.0	-12.99	405.4	-66.4	374.5	358.7	15.88	23.583	
7,300.0	7,299.3	7,331.0	7,312.9	9.9	8.1	-11.77	403.4	-57.9	370.8	354.6	16.14	22.967	
7,400.0	7,399.3	7,430.6	7,412.2	10.0	8.2	-10.53	401.4	-49.4	367.1	350.7	16.41	22.379	
7,500.0	7,499.3	7,530.2	7,511.4	10.1	8.3	-9.26	399.5	-40.8	363.7	347.0	16.67	21.819	
7,600.0	7,599.3	7,629.8	7,610.6	10.3	8.4	-7.98	397.5	-32.3	360.5	343.5	16.94	21.285	
7,700.0	7,699.3	7,729.4	7,709.9	10.4	8.5	-6.67	395.5	-23.8	357.4	340.2	17.20	20.777	
7,800.0	7,799.3	7,829.0	7,809.1	10.5	8.6	-5.33	393.6	-15.2	354.5	337.1	17.47	20.296	
7,900.0	7,899.3	7,928.7	7,908.3	10.6	8.8	-3.98	391.6	-6.7	351.9	334.1	17.74	19.839	
8,000.0	7,999.3	8,028.3	8,007.5	10.8	8.9	-2.61	389.6	1.8	349.4	331.4	18.00	19.407	
8,100.0	8,099.3	8,127.9	8,106.8	10.9	9.0	-1.21	387.6	10.3	347.1	328.9	18.27	19.000	
8,200.0	8,199.3	8,227.5	8,206.0	11.0	9.1	0.20	385.7	18.9	345.1	326.5	18.54	18.616	
8,300.0	8,299.3	8,327.1	8,305.2	11.2	9.2	1.62	383.7	27.4	343.2	324.4	18.80	18.255	
8,400.0	8,399.3	8,426.7	8,404.5	11.3	9.3	3.06	381.7	35.9	341.6	322.5	19.06	17.918	
8,500.0	8,499.3	8,526.3	8,503.7	11.4	9.4	4.51	379.8	44.5	340.2	320.9	19.33	17.602	
8,600.0	8,599.3	8,626.0	8,602.9	11.5	9.6	5.98	377.8	53.0	339.0	319.4	19.59	17.308	
8,700.0	8,699.3	8,725.6	8,702.1	11.7	9.7	7.45	375.8	61.5	338.0	318.2	19.84	17.036	
8,800.0	8,799.3	8,825.2	8,801.4	11.8	9.8	8.93	373.9	70.1	337.3	317.2	20.10	16.784	
8,900.0	8,899.3	8,924.8	8,900.6	11.9	9.9	10.42	371.9	78.6	336.8	316.4	20.35	16.553	
9,000.0	8,999.3	9,024.4	8,999.8	12.0	10.0	11.90	369.9	87.1	336.5	315.9	20.59	16.341	
9,072.9	9,072.2	9,097.0	9,072.2	12.1	10.1	12.99	368.5	93.3	336.4	315.7	20.77	16.198	
9,100.0	9,099.3	9,124.0	9,099.0	12.2	10.2	13.39	368.0	95.6	336.4	315.6	20.84	16.148	
9,200.0	9,199.3	9,223.6	9,198.3	12.3	10.3	14.88	366.0	104.2	336.6	315.5	21.07	15.974	
9,300.0	9,299.3	9,323.2	9,297.5	12.4	10.4	16.37	364.0	112.7	337.0	315.7	21.31	15.817	
9,400.0	9,399.3	9,422.9	9,396.7	12.6	10.5	17.86	362.1	121.2	337.7	316.1	21.54	15.678	
9,500.0	9,499.3	9,522.5	9,496.0	12.7	10.6	19.33	360.1	129.8	338.5	316.8	21.76	15.556	
9,600.0	9,599.3	9,622.1	9,595.2	12.8	10.8	20.80	358.1	138.3	339.6	317.6	21.98	15.450	
9,700.0	9,699.3	9,721.7	9,694.4	12.9	10.9	22.26	356.2	146.8	340.9	318.7	22.20	15.360	
9,800.0	9,799.3	9,850.8	9,822.8	13.1	11.0	24.46	350.7	158.7	341.4	318.9	22.47	15.192	
9,900.0	9,899.3	10,042.7	10,000.8	13.2	11.0	34.66	290.7	190.5	320.5	296.1	24.34	13.166	
10,000.0	9,999.3	10,172.0	10,099.8	13.3	11.2	49.59	213.7	221.0	285.2	260.7	24.50	11.642 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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)						
10,100.0	10,099.3	10,253.8	10,149.5	13.5	11.3	63.54	152.7	242.8	256.4	234.6	21.84	11.739		
10,170.2	10,169.4	10,293.5	10,169.4	13.5	11.3	71.37	120.3	253.9	249.2	229.2	20.04	12.438	CC, ES	
10,200.0	10,199.3	10,307.3	10,175.7	13.6	11.4	74.19	108.7	257.8	250.6	230.7	19.93	12.573		
10,300.0	10,299.3	10,344.1	10,190.7	13.7	11.4	81.82	76.7	268.3	275.5	252.4	23.05	11.952		
10,400.0	10,399.3	10,370.7	10,199.9	13.8	11.5	87.28	53.0	276.0	326.5	298.6	27.87	11.717		
10,500.0	10,499.3	10,390.7	10,205.9	14.0	11.6	91.28	34.8	281.8	394.8	363.1	31.64	12.477		
10,600.0	10,599.3	10,406.3	10,210.0	14.1	11.6	94.31	20.5	286.3	473.4	439.1	34.24	13.823		
10,700.0	10,699.3	10,418.7	10,212.9	14.2	11.6	96.65	8.9	289.9	558.2	522.2	36.07	15.477		
10,800.0	10,799.3	10,425.0	10,214.3	14.4	11.6	97.81	3.1	291.7	647.1	609.6	37.45	17.276		
10,900.0	10,899.3	10,437.2	10,216.7	14.5	11.7	100.02	-8.4	295.3	738.5	700.0	38.46	19.201		
11,000.0	10,999.3	10,450.0	10,218.9	14.6	11.7	102.25	-20.4	299.0	831.7	792.5	39.27	21.178		
11,100.0	11,099.3	10,450.0	10,218.9	14.7	11.7	102.25	-20.4	299.0	926.2	886.0	40.16	23.062		

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

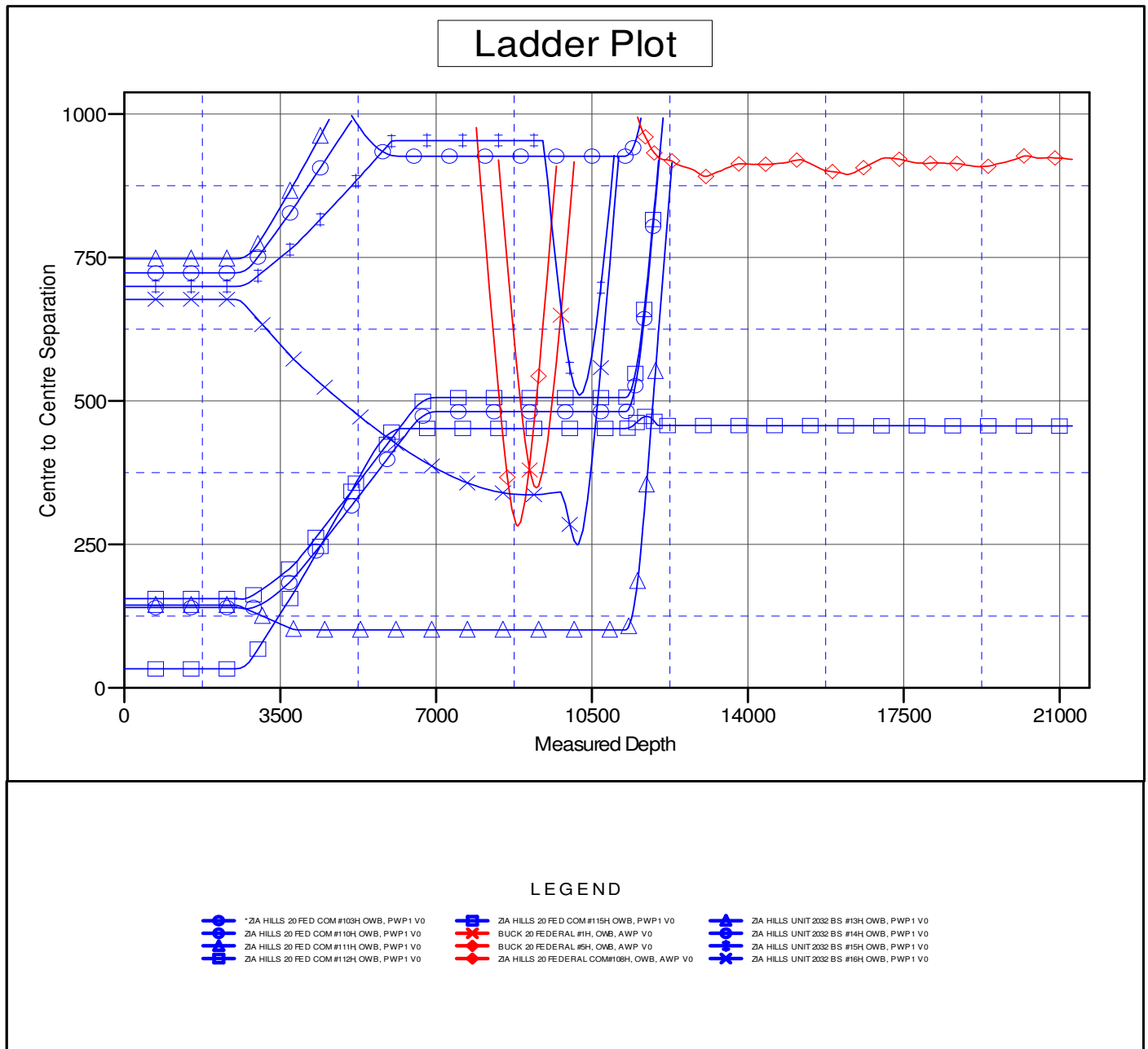
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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' @ 3171.8usft (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 #114H
 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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #114H	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' @ 3171.8usft (N 894)

Offset Depths are relative to Offset Datum

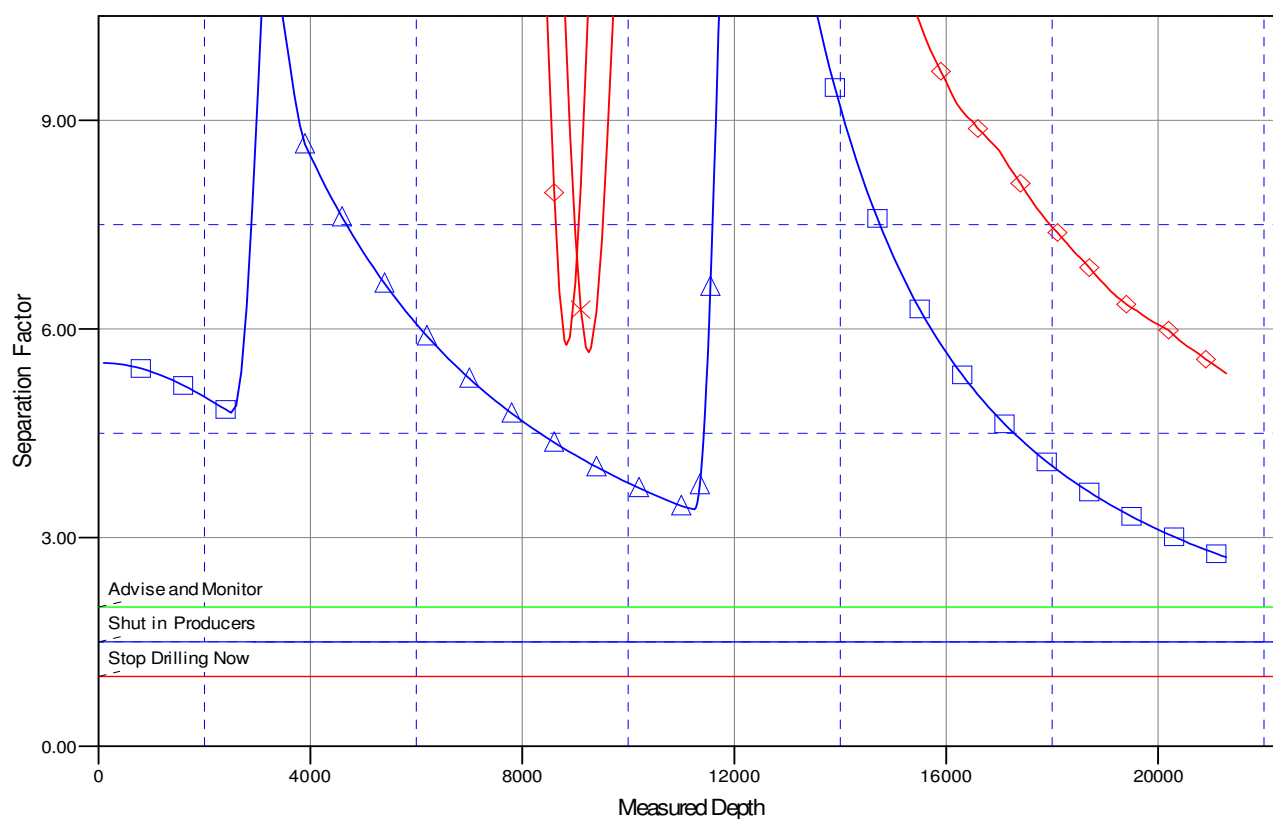
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #114H

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

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

ZIA HILLS 20 FED COM #103H OWB, PWP1 V0
 ZIA HILLS 20 FED COM #110H OWB, PWP1 V0
 ZIA HILLS 20 FED COM #111H OWB, PWP1 V0
 ZIA HILLS 20 FED COM #112H OWB, PWP1 V0

ZIA HILLS 20 FED COM #115H OWB, PWP1 V0
 BUCK 20 FEDERAL #1H, OWB, AWP V0
 BUCK 20 FEDERAL #6H, OWB, AWP V0
 ZIA HILLS 20 FEDERAL COM #108H, OWB, AWP V0

ZIA HILLS UNIT 2032 BS #13H OWB, PWP1 V0
 ZIA HILLS UNIT 2032 BS #14H OWB, PWP1 V0
 ZIA HILLS UNIT 2032 BS #15H OWB, PWP1 V0
 ZIA HILLS UNIT 2032 BS #16H OWB, PWP1 V0

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

4/5/2022 9:29:36AM

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COMPASS 5000.15 Build 91E

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS 20 FED COM PROJECT

ZIA HILLS 20 FED COM #114H

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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Well:	ZIA HILLS 20 FED COM #114H	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 #114H		
Well Position	+N/-S	0.0 usft	Northing: 374,129.75 usft
	+E/-W	0.0 usft	Easting: 699,187.81 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 37.086 N
		Longitude:	103° 41' 26.155 W
		Ground Level:	3,140.8 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2021	2/17/2022	6.46
			Dip Angle (°)
			59.59
			Field Strength (nT)
			47,442.69883986

Design	PWP1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			179.57

Survey Tool Program	Date	4/5/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	11,028.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,028.0	21,284.9	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR 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 #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Well:	ZIA HILLS 20 FED COM #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	23.51	2,600.0	1.6	0.7	-1.6	2.00	2.00	0.00
Start 1121.2 hold at 2600.0 MD									
2,700.0	2.00	23.51	2,699.9	4.8	2.1	-4.8	0.00	0.00	0.00
2,800.0	2.00	23.51	2,799.9	8.0	3.5	-8.0	0.00	0.00	0.00
2,900.0	2.00	23.51	2,899.8	11.2	4.9	-11.2	0.00	0.00	0.00
3,000.0	2.00	23.51	2,999.7	14.4	6.3	-14.4	0.00	0.00	0.00
3,100.0	2.00	23.51	3,099.7	17.6	7.7	-17.5	0.00	0.00	0.00
3,200.0	2.00	23.51	3,199.6	20.8	9.1	-20.7	0.00	0.00	0.00
3,300.0	2.00	23.51	3,299.6	24.0	10.4	-23.9	0.00	0.00	0.00
3,400.0	2.00	23.51	3,399.5	27.2	11.8	-27.1	0.00	0.00	0.00
3,500.0	2.00	23.51	3,499.4	30.4	13.2	-30.3	0.00	0.00	0.00
3,600.0	2.00	23.51	3,599.4	33.6	14.6	-33.5	0.00	0.00	0.00
3,700.0	2.00	23.51	3,699.3	36.8	16.0	-36.7	0.00	0.00	0.00
3,721.2	2.00	23.51	3,720.5	37.5	16.3	-37.4	0.00	0.00	0.00
Start Drop -1.00									
3,800.0	1.21	23.51	3,799.3	39.5	17.2	-39.4	1.00	-1.00	0.00
3,900.0	0.21	23.51	3,899.3	40.6	17.7	-40.5	1.00	-1.00	0.00
3,921.2	0.00	0.00	3,920.5	40.7	17.7	-40.5	1.00	-1.00	0.00
Start 7325.0 hold at 3921.2 MD									
4,000.0	0.00	0.00	3,999.3	40.7	17.7	-40.5	0.00	0.00	0.00
4,100.0	0.00	0.00	4,099.3	40.7	17.7	-40.5	0.00	0.00	0.00
4,200.0	0.00	0.00	4,199.3	40.7	17.7	-40.5	0.00	0.00	0.00
4,300.0	0.00	0.00	4,299.3	40.7	17.7	-40.5	0.00	0.00	0.00
4,400.0	0.00	0.00	4,399.3	40.7	17.7	-40.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,499.3	40.7	17.7	-40.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,599.3	40.7	17.7	-40.5	0.00	0.00	0.00
4,700.0	0.00	0.00	4,699.3	40.7	17.7	-40.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Well:	ZIA HILLS 20 FED COM #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.0	0.00	0.00	4,799.3	40.7	17.7	-40.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,899.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,999.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,100.0	0.00	0.00	5,099.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,199.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,299.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,399.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,499.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,599.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,699.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,799.3	40.7	17.7	-40.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,899.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,999.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,099.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,199.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,299.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,399.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,499.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,599.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,699.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,799.3	40.7	17.7	-40.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,899.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,999.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,099.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,199.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,299.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,399.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,499.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,599.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,699.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,799.3	40.7	17.7	-40.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,899.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,999.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,099.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,199.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,299.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,399.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,499.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,599.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,699.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,799.3	40.7	17.7	-40.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,899.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,999.3	40.7	17.7	-40.5	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Well:	ZIA HILLS 20 FED COM #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,100.0	0.00	0.00	9,099.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,199.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,299.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,399.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,499.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,599.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,699.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,799.3	40.7	17.7	-40.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,899.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,999.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,099.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,199.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,299.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,399.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,499.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,599.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,699.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,799.3	40.7	17.7	-40.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,899.3	40.7	17.7	-40.5	0.00	0.00	0.00
11,000.0	0.00	0.00	10,999.3	40.7	17.7	-40.5	0.00	0.00	0.00
11,100.0	0.00	0.00	11,099.3	40.7	17.7	-40.5	0.00	0.00	0.00
11,200.0	0.00	0.00	11,199.3	40.7	17.7	-40.5	0.00	0.00	0.00
11,246.2	0.00	0.00	11,245.5	40.7	17.7	-40.5	0.00	0.00	0.00
Start DLS 12.00 TFO 179.68									
11,300.0	6.45	179.68	11,299.1	37.7	17.7	-37.5	12.00	12.00	0.00
11,400.0	18.45	179.68	11,396.6	16.1	17.8	-16.0	12.00	12.00	0.00
11,500.0	30.45	179.68	11,487.5	-25.2	18.1	25.3	12.00	12.00	0.00
11,600.0	42.45	179.68	11,567.8	-84.5	18.4	84.6	12.00	12.00	0.00
11,700.0	54.45	179.68	11,634.0	-159.2	18.8	159.3	12.00	12.00	0.00
11,800.0	66.45	179.68	11,683.2	-246.0	19.3	246.2	12.00	12.00	0.00
11,900.0	78.45	179.68	11,713.3	-341.2	19.8	341.3	12.00	12.00	0.00
11,996.2	90.00	179.68	11,723.0	-436.8	20.4	436.9	12.00	12.00	0.00
Start 9288.7 hold at 11996.2 MD									
12,000.0	90.00	179.68	11,723.0	-440.5	20.4	440.7	0.00	0.00	0.00
12,100.0	90.00	179.68	11,723.0	-540.5	21.0	540.7	0.00	0.00	0.00
12,200.0	90.00	179.68	11,723.0	-640.5	21.5	640.7	0.00	0.00	0.00
12,300.0	90.00	179.68	11,723.0	-740.5	22.1	740.7	0.00	0.00	0.00
12,400.0	90.00	179.68	11,723.0	-840.5	22.6	840.7	0.00	0.00	0.00
12,500.0	90.00	179.68	11,723.0	-940.5	23.2	940.7	0.00	0.00	0.00
12,600.0	90.00	179.68	11,723.0	-1,040.5	23.8	1,040.7	0.00	0.00	0.00
12,700.0	90.00	179.68	11,723.0	-1,140.5	24.3	1,140.7	0.00	0.00	0.00
12,800.0	90.00	179.68	11,723.0	-1,240.5	24.9	1,240.7	0.00	0.00	0.00
12,900.0	90.00	179.68	11,723.0	-1,340.5	25.4	1,340.7	0.00	0.00	0.00
13,000.0	90.00	179.68	11,723.0	-1,440.5	26.0	1,440.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Well:	ZIA HILLS 20 FED COM #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	90.00	179.68	11,723.0	-1,540.5	26.5	1,540.7	0.00	0.00	0.00
13,200.0	90.00	179.68	11,723.0	-1,640.5	27.1	1,640.7	0.00	0.00	0.00
13,300.0	90.00	179.68	11,723.0	-1,740.5	27.7	1,740.7	0.00	0.00	0.00
13,400.0	90.00	179.68	11,723.0	-1,840.5	28.2	1,840.7	0.00	0.00	0.00
13,500.0	90.00	179.68	11,723.0	-1,940.5	28.8	1,940.7	0.00	0.00	0.00
13,600.0	90.00	179.68	11,723.0	-2,040.5	29.3	2,040.7	0.00	0.00	0.00
13,700.0	90.00	179.68	11,723.0	-2,140.5	29.9	2,140.7	0.00	0.00	0.00
13,800.0	90.00	179.68	11,723.0	-2,240.5	30.5	2,240.7	0.00	0.00	0.00
13,900.0	90.00	179.68	11,723.0	-2,340.5	31.0	2,340.7	0.00	0.00	0.00
14,000.0	90.00	179.68	11,723.0	-2,440.5	31.6	2,440.7	0.00	0.00	0.00
14,100.0	90.00	179.68	11,723.0	-2,540.5	32.1	2,540.7	0.00	0.00	0.00
14,200.0	90.00	179.68	11,723.0	-2,640.5	32.7	2,640.7	0.00	0.00	0.00
14,300.0	90.00	179.68	11,723.0	-2,740.5	33.3	2,740.7	0.00	0.00	0.00
14,400.0	90.00	179.68	11,723.0	-2,840.5	33.8	2,840.7	0.00	0.00	0.00
14,500.0	90.00	179.68	11,723.0	-2,940.5	34.4	2,940.7	0.00	0.00	0.00
14,600.0	90.00	179.68	11,723.0	-3,040.5	34.9	3,040.7	0.00	0.00	0.00
14,700.0	90.00	179.68	11,723.0	-3,140.5	35.5	3,140.7	0.00	0.00	0.00
14,800.0	90.00	179.68	11,723.0	-3,240.5	36.1	3,240.7	0.00	0.00	0.00
14,900.0	90.00	179.68	11,723.0	-3,340.5	36.6	3,340.7	0.00	0.00	0.00
15,000.0	90.00	179.68	11,723.0	-3,440.5	37.2	3,440.7	0.00	0.00	0.00
15,100.0	90.00	179.68	11,723.0	-3,540.5	37.7	3,540.7	0.00	0.00	0.00
15,200.0	90.00	179.68	11,723.0	-3,640.5	38.3	3,640.7	0.00	0.00	0.00
15,300.0	90.00	179.68	11,723.0	-3,740.5	38.9	3,740.7	0.00	0.00	0.00
15,400.0	90.00	179.68	11,723.0	-3,840.5	39.4	3,840.7	0.00	0.00	0.00
15,500.0	90.00	179.68	11,723.0	-3,940.5	40.0	3,940.7	0.00	0.00	0.00
15,600.0	90.00	179.68	11,723.0	-4,040.5	40.5	4,040.7	0.00	0.00	0.00
15,700.0	90.00	179.68	11,723.0	-4,140.5	41.1	4,140.7	0.00	0.00	0.00
15,800.0	90.00	179.68	11,723.0	-4,240.5	41.7	4,240.7	0.00	0.00	0.00
15,900.0	90.00	179.68	11,723.0	-4,340.5	42.2	4,340.7	0.00	0.00	0.00
16,000.0	90.00	179.68	11,723.0	-4,440.5	42.8	4,440.7	0.00	0.00	0.00
16,100.0	90.00	179.68	11,723.0	-4,540.5	43.3	4,540.7	0.00	0.00	0.00
16,200.0	90.00	179.68	11,723.0	-4,640.5	43.9	4,640.7	0.00	0.00	0.00
16,300.0	90.00	179.68	11,723.0	-4,740.5	44.5	4,740.7	0.00	0.00	0.00
16,400.0	90.00	179.68	11,723.0	-4,840.5	45.0	4,840.7	0.00	0.00	0.00
16,500.0	90.00	179.68	11,723.0	-4,940.5	45.6	4,940.7	0.00	0.00	0.00
16,600.0	90.00	179.68	11,723.0	-5,040.5	46.1	5,040.7	0.00	0.00	0.00
16,700.0	90.00	179.68	11,723.0	-5,140.5	46.7	5,140.7	0.00	0.00	0.00
16,800.0	90.00	179.68	11,723.0	-5,240.5	47.3	5,240.7	0.00	0.00	0.00
16,900.0	90.00	179.68	11,723.0	-5,340.5	47.8	5,340.7	0.00	0.00	0.00
17,000.0	90.00	179.68	11,723.0	-5,440.5	48.4	5,440.7	0.00	0.00	0.00
17,100.0	90.00	179.68	11,723.0	-5,540.5	48.9	5,540.7	0.00	0.00	0.00
17,200.0	90.00	179.68	11,723.0	-5,640.5	49.5	5,640.7	0.00	0.00	0.00
17,300.0	90.00	179.68	11,723.0	-5,740.4	50.1	5,740.7	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Well:	ZIA HILLS 20 FED COM #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,400.0	90.00	179.68	11,723.0	-5,840.4	50.6	5,840.7	0.00	0.00	0.00
17,500.0	90.00	179.68	11,723.0	-5,940.4	51.2	5,940.7	0.00	0.00	0.00
17,600.0	90.00	179.68	11,723.0	-6,040.4	51.7	6,040.7	0.00	0.00	0.00
17,700.0	90.00	179.68	11,723.0	-6,140.4	52.3	6,140.7	0.00	0.00	0.00
17,800.0	90.00	179.68	11,723.0	-6,240.4	52.8	6,240.7	0.00	0.00	0.00
17,900.0	90.00	179.68	11,723.0	-6,340.4	53.4	6,340.7	0.00	0.00	0.00
18,000.0	90.00	179.68	11,723.0	-6,440.4	54.0	6,440.7	0.00	0.00	0.00
18,100.0	90.00	179.68	11,723.0	-6,540.4	54.5	6,540.7	0.00	0.00	0.00
18,200.0	90.00	179.68	11,723.0	-6,640.4	55.1	6,640.7	0.00	0.00	0.00
18,300.0	90.00	179.68	11,723.0	-6,740.4	55.6	6,740.7	0.00	0.00	0.00
18,400.0	90.00	179.68	11,723.0	-6,840.4	56.2	6,840.7	0.00	0.00	0.00
18,500.0	90.00	179.68	11,723.0	-6,940.4	56.8	6,940.7	0.00	0.00	0.00
18,600.0	90.00	179.68	11,723.0	-7,040.4	57.3	7,040.7	0.00	0.00	0.00
18,700.0	90.00	179.68	11,723.0	-7,140.4	57.9	7,140.7	0.00	0.00	0.00
18,800.0	90.00	179.68	11,723.0	-7,240.4	58.4	7,240.7	0.00	0.00	0.00
18,900.0	90.00	179.68	11,723.0	-7,340.4	59.0	7,340.7	0.00	0.00	0.00
19,000.0	90.00	179.68	11,723.0	-7,440.4	59.6	7,440.7	0.00	0.00	0.00
19,100.0	90.00	179.68	11,723.0	-7,540.4	60.1	7,540.7	0.00	0.00	0.00
19,200.0	90.00	179.68	11,723.0	-7,640.4	60.7	7,640.7	0.00	0.00	0.00
19,300.0	90.00	179.68	11,723.0	-7,740.4	61.2	7,740.7	0.00	0.00	0.00
19,400.0	90.00	179.68	11,723.0	-7,840.4	61.8	7,840.7	0.00	0.00	0.00
19,500.0	90.00	179.68	11,723.0	-7,940.4	62.4	7,940.7	0.00	0.00	0.00
19,600.0	90.00	179.68	11,723.0	-8,040.4	62.9	8,040.7	0.00	0.00	0.00
19,700.0	90.00	179.68	11,723.0	-8,140.4	63.5	8,140.7	0.00	0.00	0.00
19,800.0	90.00	179.68	11,723.0	-8,240.4	64.0	8,240.7	0.00	0.00	0.00
19,900.0	90.00	179.68	11,723.0	-8,340.4	64.6	8,340.7	0.00	0.00	0.00
20,000.0	90.00	179.68	11,723.0	-8,440.4	65.2	8,440.7	0.00	0.00	0.00
20,100.0	90.00	179.68	11,723.0	-8,540.4	65.7	8,540.7	0.00	0.00	0.00
20,200.0	90.00	179.68	11,723.0	-8,640.4	66.3	8,640.7	0.00	0.00	0.00
20,300.0	90.00	179.68	11,723.0	-8,740.4	66.8	8,740.7	0.00	0.00	0.00
20,400.0	90.00	179.68	11,723.0	-8,840.4	67.4	8,840.7	0.00	0.00	0.00
20,500.0	90.00	179.68	11,723.0	-8,940.4	68.0	8,940.7	0.00	0.00	0.00
20,600.0	90.00	179.68	11,723.0	-9,040.4	68.5	9,040.7	0.00	0.00	0.00
20,700.0	90.00	179.68	11,723.0	-9,140.4	69.1	9,140.7	0.00	0.00	0.00
20,800.0	90.00	179.68	11,723.0	-9,240.4	69.6	9,240.7	0.00	0.00	0.00
20,900.0	90.00	179.68	11,723.0	-9,340.4	70.2	9,340.7	0.00	0.00	0.00
21,000.0	90.00	179.68	11,723.0	-9,440.4	70.8	9,440.7	0.00	0.00	0.00
21,100.0	90.00	179.68	11,723.0	-9,540.4	71.3	9,540.7	0.00	0.00	0.00
21,200.0	90.00	179.68	11,723.0	-9,640.4	71.9	9,640.7	0.00	0.00	0.00
21,284.9	90.00	179.68	11,723.0	-9,725.3	72.3	9,725.5	0.00	0.00	0.00
TD at 21284.9									

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #114H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3171.8usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3171.8usft (N 894)
Well:	ZIA HILLS 20 FED COM #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL(ZIA HILLS 20 F - plan hits target center - Rectangle (sides W100.0 H9,815.0 D20.0)	0.00	359.68	11,723.0	-9,725.3	72.3	364,404.47	699,260.16	32° 0' 0.839 N	103° 41' 25.987 W
FTP(ZIA HILLS 20 FE - plan misses target center by 198.3usft at 11609.3usft MD (11574.6 TVD, -90.8 N, 18.4 E) - Circle (radius 50.0)	0.00	0.00	11,723.0	40.7	17.0	374,170.46	699,204.81	32° 1' 37.487 N	103° 41' 25.955 W
LTP(ZIA HILLS 20 FE - plan misses target center by 34.9usft at 21200.0usft MD (11723.0 TVD, -9640.4 N, 71.9 E) - Point	0.00	0.00	11,723.0	-9,675.3	72.0	364,454.46	699,259.82	32° 0' 1.334 N	103° 41' 25.987 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2600	2600	2	1	Start 1121.2 hold at 2600.0 MD
3721	3720	37	16	Start Drop -1.00
3921	3920	41	18	Start 7325.0 hold at 3921.2 MD
11,246	11,246	41	18	Start DLS 12.00 TFO 179.68
11,996	11,723	-437	20	Start 9288.7 hold at 11996.2 MD
21,285	11,723	-9725	72	TD at 21284.9

Checked By: _____ Approved By: _____ Date: _____



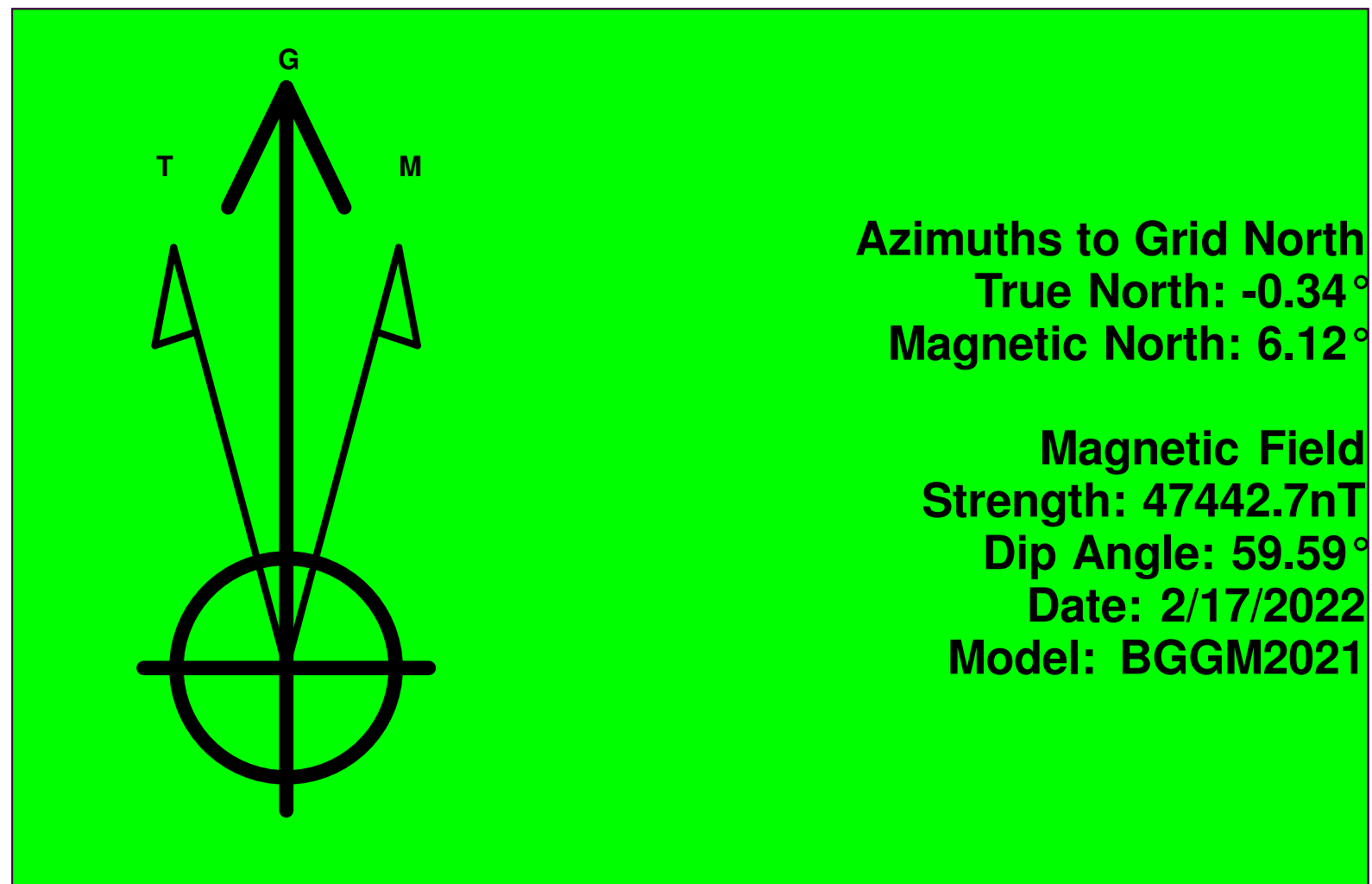
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS 20 FED COM PROJECT
Well: ZIA HILLS 20 FED COM #114H
Wellbore: OWB
Design: PWP1
GL: 3140.8
KB=31' @ 3171.8usft (N 894)

WELL DETAILS: ZIA HILLS 20 FED COM #114H

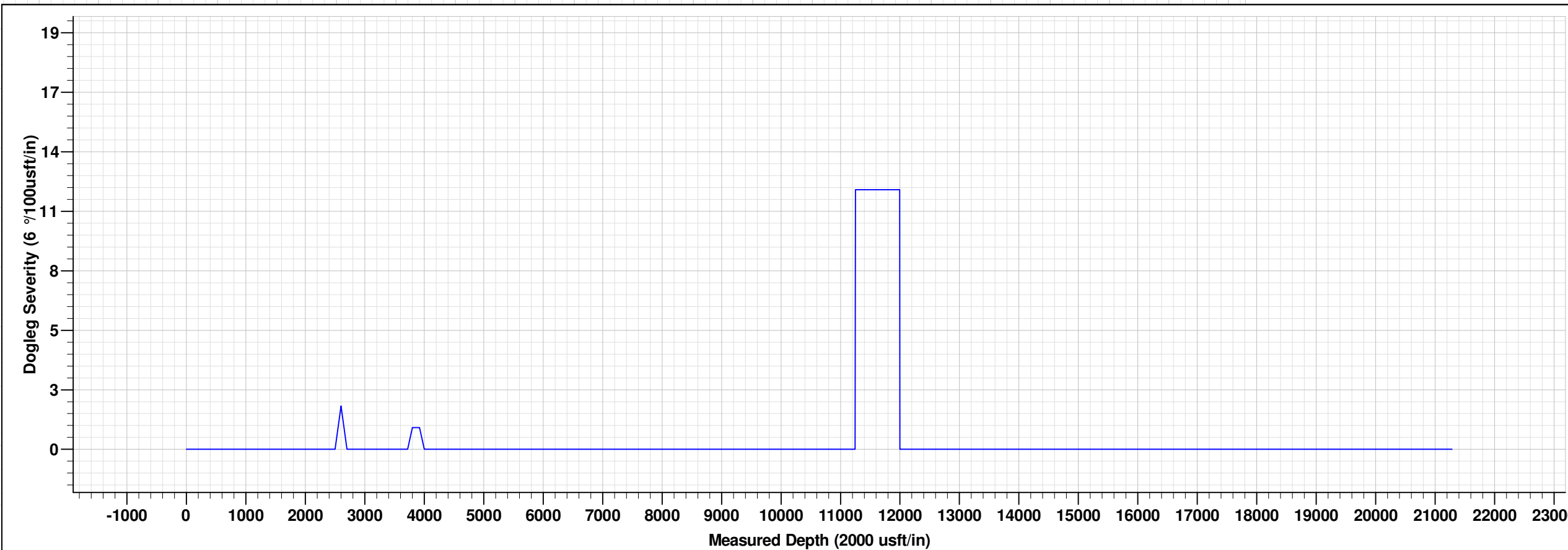
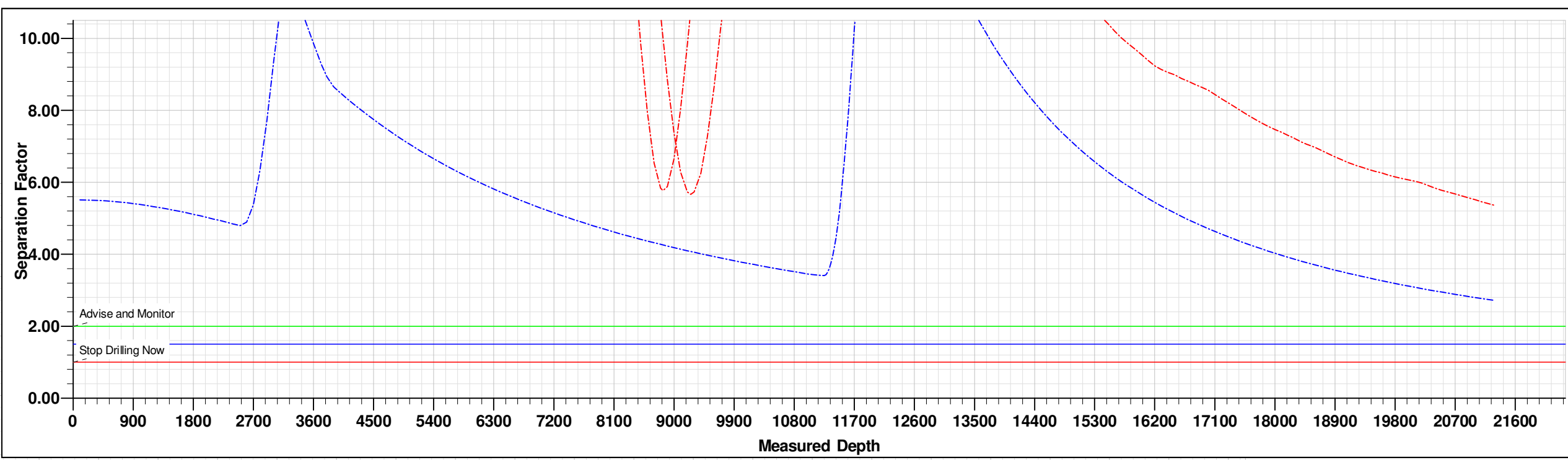
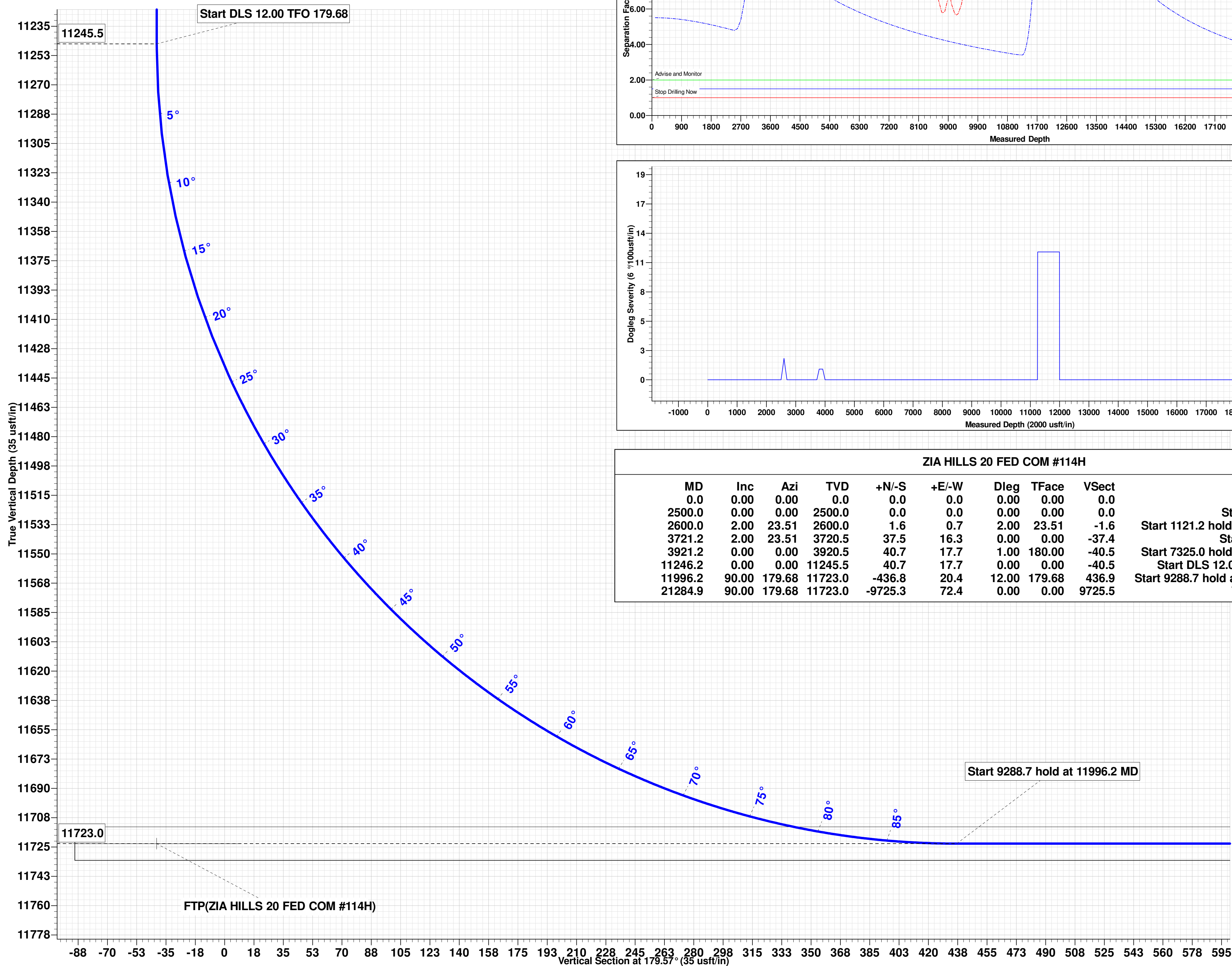
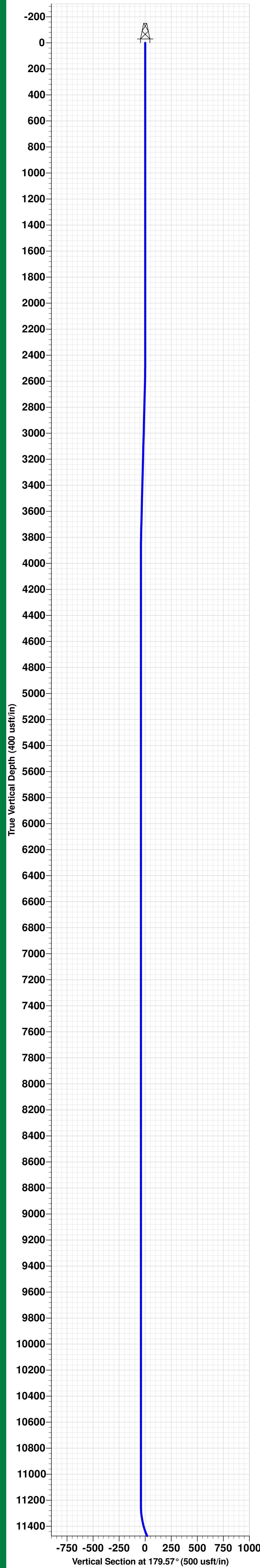
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374129.75	699187.81	32° 1' 37.096 N	103° 41' 26.155 W

DESIGN TARGET DETAILS

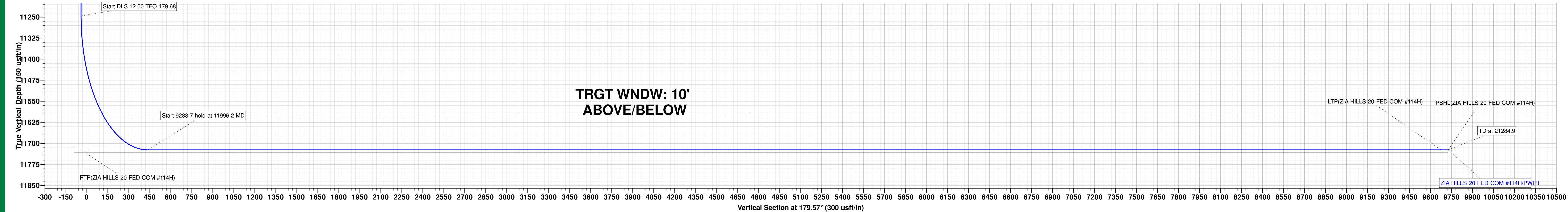
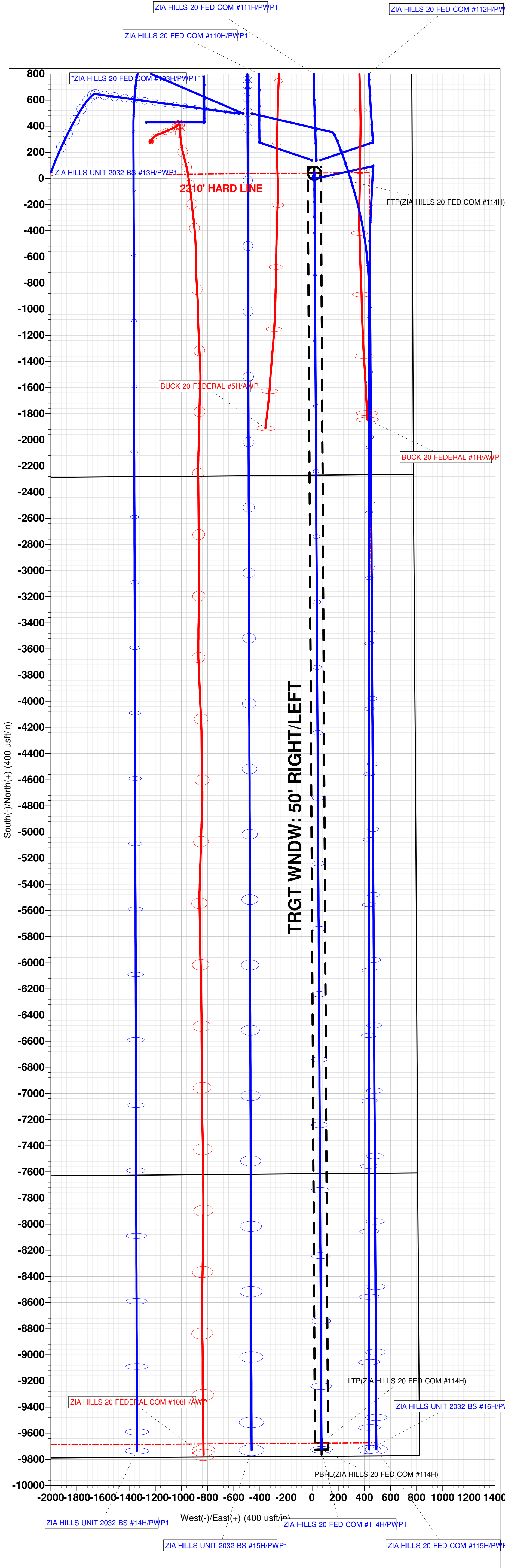
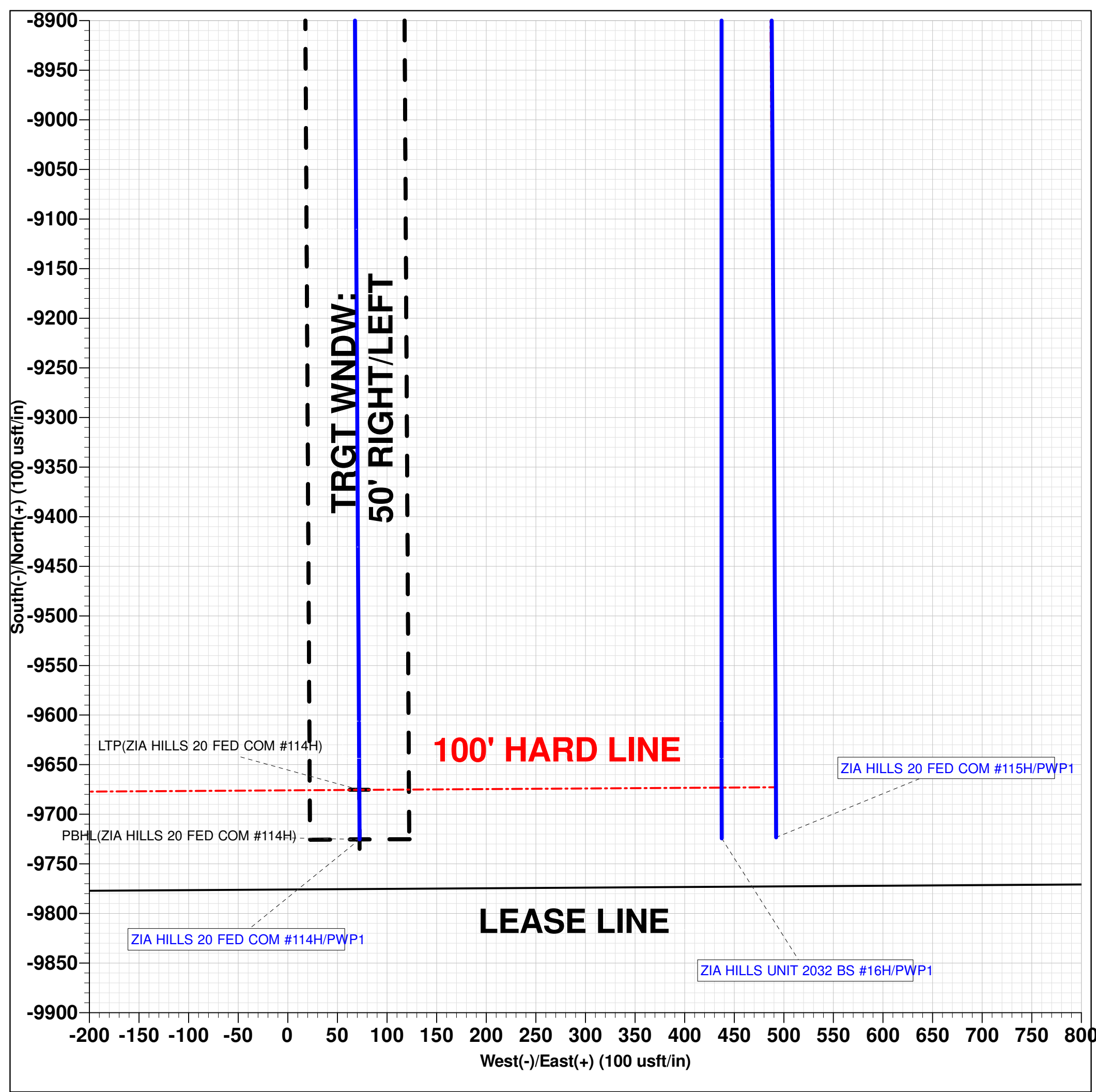
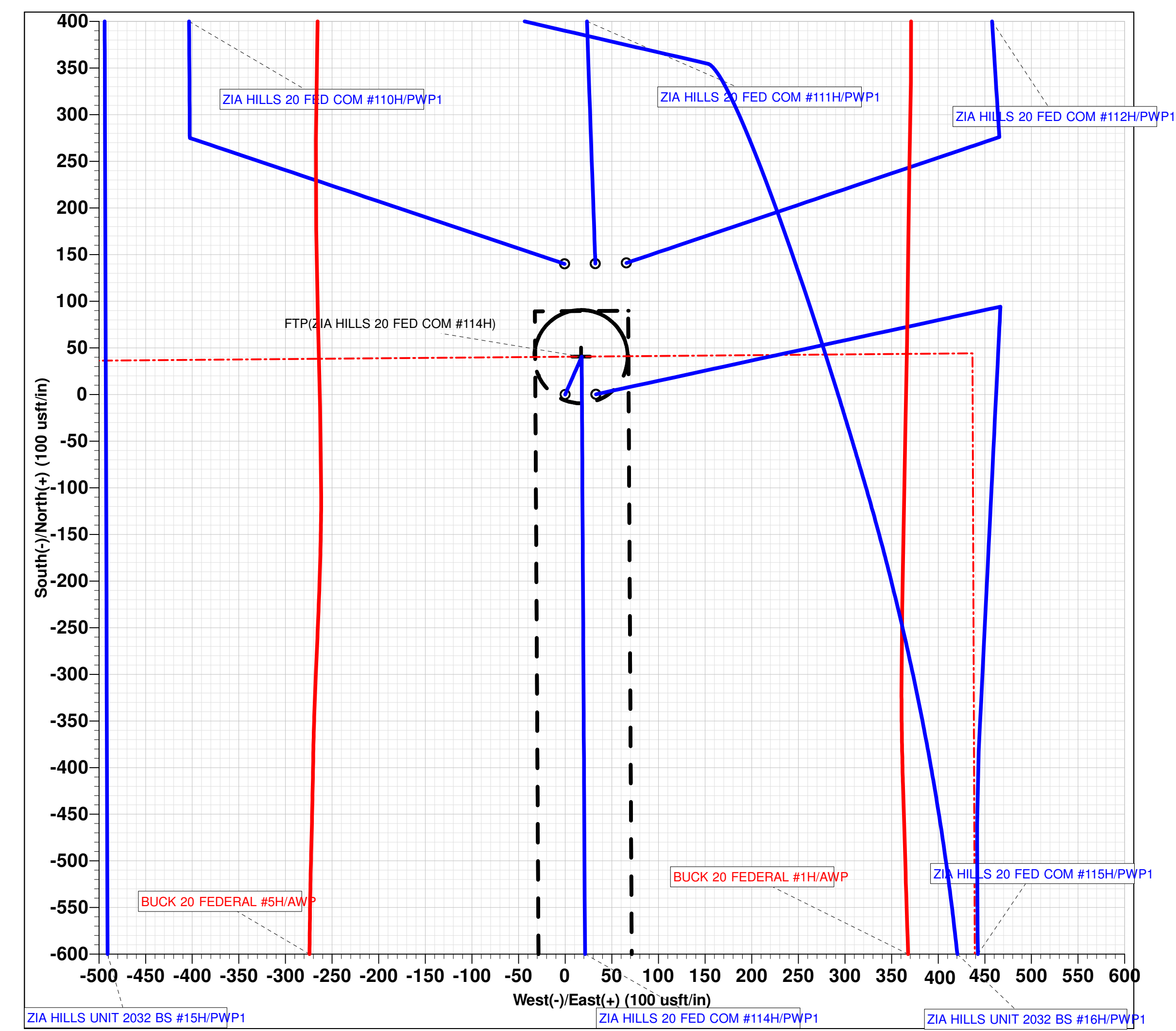
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP(ZIA HILLS 20 FED COM #114H)	11723.0	40.7	17.0	374170.46	699204.81	32° 1' 37.487 N	103° 41' 25.955 W
LTP(ZIA HILLS 20 FED COM #114H)	11723.0	-9675.3	72.0	364454.46	699259.82	32° 0' 1.334 N	103° 41' 25.987 W
PBHL(ZIA HILLS 20 FED COM #114H)	11723.0	-9725.3	72.4	364404.47	699260.16	32° 0' 0.839 N	103° 41' 25.987 W



Azimuths to Grid North
True North: -0.34°
Magnetic North: 6.12°
Magnetic Field
Strength: 47442.7nT
Dip Angle: 59.59°
Date: 2/17/2022
Model: BGGM2021



MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2600.0	2.00	23.51	2600.0	1.6	0.7	2.00	23.51	-1.6	Start 1121.2 hold at 2600.0 MD
3721.2	2.00	23.51	3720.5	37.5	16.3	0.00	0.00	-37.4	Start Drop -1.00
3921.2	0.00	0.00	3920.5	40.7	17.7	1.00	180.00	-40.5	Start 7325.0 hold at 3921.2 MD
11246.2	0.00	0.00	11245.5	40.7	17.7	0.00	0.00	-40.5	Start DLS 12.00 TFO 179.68
11996.2	90.00	179.68	11723.0	-436.8	20.4	12.00	179.68	436.9	Start 9288.7 hold at 11996.2 MD
21284.9	90.00	179.68	11723.0	-9725.3	72.4	0.00	0.00	9725.5	TD at 21284.9



TRGT WNDW: 10'
ABOVE/BELOW

LTP(ZIA HILLS 20 FED COM #114H) PBHL(ZIA HILLS 20 FED COM #114H)

TD at 21284.9

ZIA HILLS 20 FED COM #114H/PWP1

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 130185

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 130185
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/3/2022