

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMLC068281B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator CONOCOPHILLIPS COMPANY

3a. Address PO Box 2197, Houston, TX 77252

3b. Phone No. (include area code)
(281) 293-17484. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 20/T26S/R32E/NMP

7. If Unit of CA/Agreement, Name and/or No.

NMNM138329X

8. Well Name and No. ZIA HILLS 20 FEDERAL COM/115H

9. API Well No. 3002545724

10. Field and Pool or Exploratory Area
WOLFCAMP/Wolfcamp11. 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 recompleate 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 recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

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

Change BHL to 50' FSL & 330' FEL Lot 1 ~~32~~-26S-32E Lea Co, NM

Revised C-102 and drill plan attached.

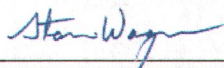
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

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 / 734 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.027094 / LONG: -103.690964 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 0 FNL / 658 FEL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.006164 / LONG: -103.69073 (TVD: 11880 feet, MD: 19500 feet)

PPP: NENE / 0 FNL / 656 FEL / TWSP: 26S / RANGE: 32E / SECTION: 29 / LAT: 32.020856 / LONG: -103.690726 (TVD: 11880 feet, MD: 14200 feet)

PPP: NESE / 2315 FSL / 660 FEL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.027219 / LONG: -103.690725 (TVD: 11796 feet, MD: 11900 feet)

BHL: LOT 1 / 50 FNL / 660 FEL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.000358 / LONG: -103.690731 (TVD: 11880 feet, MD: 21643 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 30-025-45724	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code	5 Property Name ZIA HILLS 20 FED COM	6 Well Number 115H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3141.3'

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	734'	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 1	32	26-S	32-E		50'	SOUTH	330'	EAST	LEA

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

16 CORNER DATA NEW MEXICO EAST - NAD 83 A - FOUND IRON PIPE W/ BRASS CAP N: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:369251.80' 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' SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=740408.02 LAT.= 32.02709366° N Y=374187.18 LONG.= -103.69096261° W 2270' FSL, 734' FEL - SECTION 20 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=740811.95 LAT.= 32.02720812° N Y=374231.22 LONG.= -103.68965843° W 2310' FSL, 330' FEL - SECTION 20 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=740867.37 LAT.= 32.00049638° N Y=364514.04 LONG.= -103.68966634° W 100' FSL, 330' FEL - SECTION 32 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=740867.37 LAT.= 32.00035893° N Y=364464.04 LONG.= -103.68966621° W 50' FSL, 330' FEL - SECTION 32	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stan Wagner</i> 4/7/22 Signature Date Stan Wagner Printed Name E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MARK J. MURRAY NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 12177 Date of Survey Signature and Seal of Professional Surveyor 3/18/2022 Certificate Number
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ConocoPhillips - Zia Hills 20 Fed Com 115H

1. Geologic Formations

TVD of target	11,902' EOL	Pilot hole depth	NA
MD at TD:	21,543'	Deepest expected fresh water:	405'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1077	Water	
Top of Salt	1407	Salt	
Base of Salt	4109	Salt	
Lamar	4306	Salt Water	
Bell Canyon	4363	Salt Water	
Cherry Canyon	5258	Oil/Gas	
Brushy Canyon	6794	Oil/Gas	
Bone Spring	8359	Oil/Gas	
1st Bone Spring Sand	9328	Oil/Gas	
2nd Bone Spring Sand	9988	Oil/Gas	
3rd Bone Spring Carb	10404	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	1357	10.75"	45.5	J55	BTC	3.37	1.14	12.89	12.89
9.875"	0	8500	7.625"	29.7	L80	BTC	1.48	1.05	2.71	2.85
8.750"	8500	11072	7.625"	29.7	P110	Wedge 513	1.42	1.49	2.86	1.72
6.75"	0	10872	5.5"	23	P110	TXP BTC	1.88	2.22	2.66	2.66
6.75"	10872	21,543	5.5"	23	P110	Wedge 441	1.88	2.22	2.66	2.42
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

ConocoPhillips - Zia Hills 20 Fed Com 115H

	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 115H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	647	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
	1006	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

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

ConocoPhillips - Zia Hills 20 Fed Com 115H

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 115H

5. Mud Program

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

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

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

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

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

ConocoPhillips - Zia Hills 20 Fed Com 115H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7740 psi at 11902' 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 #115H

OWB

PWP1

Anticollision Report

05 April, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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	11,453.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,453.0	21,543.7	PWP1 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FED COM #110H - OWB - PWP1	2,416.4	2,417.2	143.9	135.3	16.845	CC
ZIA HILLS 20 FED COM #110H - OWB - PWP1	2,500.0	2,500.0	143.9	135.2	16.546	ES
ZIA HILLS 20 FED COM #110H - OWB - PWP1	2,600.0	2,598.1	144.8	136.0	16.437	SF
ZIA HILLS 20 FED COM #111H - OWB - PWP1	2,908.2	2,907.7	137.1	127.8	14.799	CC, ES, SF
ZIA HILLS 20 FED COM #112H - OWB - PWP1	2,416.4	2,417.1	144.6	136.0	16.916	CC
ZIA HILLS 20 FED COM #112H - OWB - PWP1	3,400.0	3,392.4	145.6	135.8	14.866	ES
ZIA HILLS 20 FED COM #112H - OWB - PWP1	11,300.0	11,288.2	182.1	156.7	7.176	SF
ZIA HILLS 20 FED COM #114H - OWB - PWP1	2,500.0	2,499.5	33.1	26.2	4.794	CC, ES
ZIA HILLS 20 FED COM #114H - OWB - PWP1	21,544.2	21,284.9	456.3	295.8	2.842	SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #1H - OWB - AWP	9,281.7	11,962.4	99.6	38.1	1.619	Advise and Monitor, CC, I
BUCK 20 FEDERAL #5H - OWB - AWP	8,863.8	10,769.1	732.1	682.8	14.863	CC, ES
BUCK 20 FEDERAL #5H - OWB - AWP	8,900.0	10,769.6	733.0	683.6	14.842	SF
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,416.3	2,417.3	772.7	759.9	60.523	CC
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,500.0	2,500.0	772.7	759.6	58.989	ES
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	2,800.0	2,743.0	793.3	779.4	57.093	SF
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	2,500.0	2,499.9	747.7	739.9	96.048	CC, ES
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	2,600.0	2,580.0	750.1	742.2	95.336	SF
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	2,416.6	2,416.8	723.4	710.6	56.442	CC
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	2,500.0	2,500.0	723.4	710.3	54.998	ES
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	10,300.0	10,791.9	960.8	915.6	21.248	SF
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,235.2	10,389.9	194.3	172.9	9.093	CC, ES
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	10,400.0	10,425.0	251.7	220.7	8.132	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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FED COM #110H - OWB - PWP1	21,544.2	11,300.0				Out of Range @TD
ZIA HILLS 20 FED COM #111H - OWB - PWP1	21,544.2	11,450.0				Out of Range @TD
ZIA HILLS 20 FED COM #112H - OWB - PWP1	21,544.2	11,300.0				Out of Range @TD
ZIA HILLS 20 FED COM #114H - OWB - PWP1	21,544.2	21,284.9	456.3	295.8	2.842	SF
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #1H - OWB - AWP	21,544.2	13,905.0				Out of Range @TD
BUCK 20 FEDERAL #5H - OWB - AWP	21,544.2	12,764.0				Out of Range @TD
ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1	21,544.2	20,575.6				Out of Range @TD
ZIA HILLS UNIT 2032 BS #14H - OWB - PWP1	21,544.2	20,638.3				Out of Range @TD
ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1	21,544.2	20,609.3				Out of Range @TD
ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1	21,544.2	20,167.2				Out of Range @TD

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
0.0	0.0	0.8	0.8	3.0	3.0	-13.53	139.9	-33.6	143.9				
100.0	100.0	100.8	100.8	3.0	3.0	-13.53	139.9	-33.6	143.9	137.9	6.00	23.972	
200.0	200.0	200.8	200.8	3.0	3.0	-13.53	139.9	-33.6	143.9	137.8	6.01	23.935	
300.0	300.0	300.8	300.8	3.0	3.0	-13.53	139.9	-33.6	143.9	137.8	6.03	23.853	
400.0	400.0	400.8	400.8	3.0	3.0	-13.53	139.9	-33.6	143.9	137.8	6.06	23.730	
500.0	500.0	500.8	500.8	3.1	3.1	-13.53	139.9	-33.6	143.9	137.7	6.10	23.565	
600.0	600.0	600.8	600.8	3.1	3.1	-13.53	139.9	-33.6	143.9	137.7	6.16	23.363	
700.0	700.0	700.8	700.8	3.1	3.1	-13.53	139.9	-33.6	143.9	137.6	6.22	23.126	
800.0	800.0	800.8	800.8	3.2	3.2	-13.53	139.9	-33.6	143.9	137.6	6.29	22.857	
900.0	900.0	900.8	900.8	3.2	3.2	-13.53	139.9	-33.6	143.9	137.5	6.38	22.561	
1,000.0	1,000.0	1,000.8	1,000.8	3.2	3.2	-13.53	139.9	-33.6	143.9	137.4	6.47	22.240	
1,100.0	1,100.0	1,100.8	1,100.8	3.3	3.3	-13.53	139.9	-33.6	143.9	137.3	6.57	21.898	
1,200.0	1,200.0	1,200.8	1,200.8	3.4	3.4	-13.53	139.9	-33.6	143.9	137.2	6.68	21.539	
1,300.0	1,300.0	1,300.8	1,300.8	3.4	3.4	-13.53	139.9	-33.6	143.9	137.1	6.80	21.167	
1,400.0	1,400.0	1,400.8	1,400.8	3.5	3.5	-13.53	139.9	-33.6	143.9	136.9	6.92	20.784	
1,500.0	1,500.0	1,500.8	1,500.8	3.5	3.5	-13.53	139.9	-33.6	143.9	136.8	7.05	20.394	
1,600.0	1,600.0	1,600.8	1,600.8	3.6	3.6	-13.53	139.9	-33.6	143.9	136.7	7.19	20.000	
1,700.0	1,700.0	1,700.8	1,700.8	3.7	3.7	-13.53	139.9	-33.6	143.9	136.5	7.34	19.602	
1,800.0	1,800.0	1,800.8	1,800.8	3.8	3.8	-13.53	139.9	-33.6	143.9	136.4	7.49	19.205	

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
1,900.0	1,900.0	1,900.8	1,900.8	3.9	3.9	-13.53	139.9	-33.6	143.9	136.2	7.65	18.810		
2,000.0	2,000.0	2,000.8	2,000.8	3.9	3.9	-13.53	139.9	-33.6	143.9	136.0	7.81	18.417		
2,100.0	2,100.0	2,100.8	2,100.8	4.0	4.0	-13.53	139.9	-33.6	143.9	135.9	7.98	18.030		
2,200.0	2,200.0	2,200.8	2,200.8	4.1	4.1	-13.53	139.9	-33.6	143.9	135.7	8.15	17.648		
2,300.0	2,300.0	2,300.8	2,300.8	4.2	4.2	-13.53	139.9	-33.6	143.9	135.5	8.33	17.273		
2,400.0	2,400.0	2,400.8	2,400.8	4.3	4.3	-13.53	139.9	-33.6	143.9	135.3	8.51	16.905		
2,416.4	2,416.4	2,417.2	2,417.2	4.3	4.3	-13.53	139.9	-33.6	143.9	135.3	8.54	16.845 CC		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-13.53	139.9	-33.6	143.9	135.2	8.69	16.546 ES		
2,600.0	2,600.0	2,598.1	2,598.1	4.5	4.5	-92.51	140.4	-35.2	144.8	136.0	8.81	16.437 SF		
2,700.0	2,699.8	2,694.7	2,694.6	4.5	4.5	-96.00	142.0	-39.9	148.2	139.3	8.84	16.770		
2,800.0	2,799.5	2,790.1	2,789.6	4.6	4.6	-101.32	144.5	-47.6	154.9	146.2	8.80	17.610		
2,900.0	2,898.7	2,887.4	2,886.3	4.6	4.6	-107.76	147.8	-57.2	165.6	156.9	8.71	19.011		
3,000.0	2,997.7	2,984.6	2,983.0	4.7	4.7	-114.07	151.0	-66.8	179.0	170.4	8.61	20.786		
3,100.0	3,096.8	3,081.8	3,079.7	4.7	4.7	-119.47	154.2	-76.5	194.3	185.7	8.53	22.773		
3,200.0	3,195.8	3,179.1	3,176.4	4.8	4.8	-124.08	157.5	-86.1	211.0	202.6	8.48	24.890		
3,300.0	3,294.8	3,276.3	3,273.2	4.8	4.9	-128.00	160.7	-95.7	229.0	220.5	8.46	27.073		
3,400.0	3,393.8	3,373.5	3,369.9	4.9	4.9	-131.35	163.9	-105.4	247.8	239.3	8.46	29.277		
3,500.0	3,492.9	3,470.8	3,466.6	5.0	5.0	-134.23	167.2	-115.0	267.3	258.8	8.50	31.465		
3,600.0	3,591.9	3,568.0	3,563.3	5.1	5.1	-136.71	170.4	-124.6	287.4	278.9	8.55	33.614		
3,700.0	3,690.9	3,665.2	3,660.0	5.1	5.2	-138.88	173.6	-134.3	308.0	299.4	8.63	35.707		
3,800.0	3,789.9	3,762.5	3,756.7	5.2	5.2	-140.77	176.9	-143.9	328.9	320.2	8.72	37.734		
3,900.0	3,889.0	3,859.7	3,853.4	5.3	5.3	-142.44	180.1	-153.5	350.2	341.4	8.82	39.687		
4,000.0	3,988.0	3,957.0	3,950.1	5.4	5.4	-143.91	183.4	-163.2	371.7	362.7	8.94	41.564		
4,100.0	4,087.0	4,054.2	4,046.8	5.5	5.5	-145.23	186.6	-172.8	393.4	384.3	9.07	43.363		
4,200.0	4,186.0	4,151.4	4,143.5	5.5	5.6	-146.41	189.8	-182.4	415.3	406.1	9.21	45.084		
4,300.0	4,285.1	4,248.7	4,240.2	5.6	5.7	-147.47	193.1	-192.1	437.3	428.0	9.36	46.727		
4,400.0	4,384.1	4,345.9	4,336.9	5.7	5.7	-148.43	196.3	-201.7	459.5	450.0	9.51	48.295		
4,500.0	4,483.1	4,443.1	4,433.6	5.8	5.8	-149.30	199.5	-211.3	481.8	472.1	9.68	49.790		
4,600.0	4,582.2	4,540.4	4,530.3	5.9	5.9	-150.09	202.8	-221.0	504.2	494.3	9.84	51.214		
4,700.0	4,681.2	4,637.6	4,627.0	6.0	6.0	-150.82	206.0	-230.6	526.6	516.6	10.02	52.570		
4,800.0	4,780.2	4,734.8	4,723.7	6.1	6.1	-151.49	209.2	-240.2	549.2	539.0	10.20	53.862		
4,900.0	4,879.2	4,832.1	4,820.4	6.2	6.2	-152.10	212.5	-249.9	571.8	561.4	10.38	55.092		
5,000.0	4,978.3	4,929.3	4,917.1	6.3	6.3	-152.67	215.7	-259.5	594.4	583.9	10.57	56.262		
5,100.0	5,077.3	5,026.5	5,013.8	6.4	6.4	-153.20	218.9	-269.2	617.2	606.4	10.76	57.377		
5,200.0	5,176.3	5,123.8	5,110.5	6.5	6.5	-153.69	222.2	-278.8	639.9	629.0	10.95	58.438		
5,300.0	5,275.3	5,221.0	5,207.2	6.6	6.6	-154.14	225.4	-288.4	662.7	651.6	11.15	59.448		
5,400.0	5,374.4	5,318.2	5,303.9	6.7	6.7	-154.57	228.7	-298.1	685.6	674.2	11.35	60.411		
5,487.6	5,461.2	5,403.5	5,388.6	6.8	6.8	-154.92	231.5	-306.5	705.6	694.1	11.53	61.217		
5,500.0	5,473.4	5,415.5	5,400.6	6.8	6.8	-154.98	231.9	-307.7	708.4	696.9	11.55	61.327		
5,600.0	5,572.6	5,512.9	5,497.5	6.9	6.9	-155.41	235.1	-317.4	730.3	718.6	11.76	62.121		
5,700.0	5,672.0	5,610.8	5,594.8	7.0	7.0	-155.76	238.4	-327.0	750.8	738.8	11.96	62.750		
5,800.0	5,771.5	5,709.0	5,692.5	7.2	7.1	-156.03	241.7	-336.8	769.6	757.4	12.17	63.223		
5,900.0	5,871.2	5,807.4	5,790.4	7.3	7.2	-156.23	244.9	-346.5	786.9	774.5	12.38	63.548		
6,000.0	5,971.0	5,906.2	5,888.6	7.4	7.3	-156.37	248.2	-356.3	802.6	790.0	12.59	63.739		
6,100.0	6,071.0	6,005.2	5,987.1	7.5	7.4	-156.45	251.5	-366.1	816.8	804.0	12.80	63.801		
6,200.0	6,170.9	6,104.4	6,085.7	7.6	7.6	-156.48	254.8	-376.0	829.3	816.3	13.01	63.734		
6,287.6	6,258.6	6,191.5	6,172.4	7.6	7.6	-78.69	257.7	-384.6	839.0	825.9	13.17	63.693		
6,300.0	6,270.9	6,203.8	6,184.6	7.7	7.7	-78.68	258.1	-385.8	840.3	827.1	13.19	63.697		
6,400.0	6,370.9	6,303.2	6,283.5	7.7	7.8	-78.59	261.4	-395.7	850.7	837.3	13.35	63.730		
6,500.0	6,470.9	6,402.7	6,382.4	7.8	7.9	-78.50	264.7	-405.5	861.1	847.6	13.51	63.756		
6,600.0	6,570.9	6,519.1	6,498.3	7.9	8.0	-78.41	268.3	-416.0	870.5	856.8	13.65	63.756		
6,700.0	6,670.9	6,636.6	6,615.5	8.0	8.1	-78.34	271.1	-424.3	877.9	864.1	13.81	63.588		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
6,800.0	6,770.9	6,754.5	6,733.2	8.2	8.3	-78.29	273.1	-430.4	883.3	869.3	13.96	63.253		
6,900.0	6,870.9	6,872.5	6,851.1	8.3	8.4	-78.26	274.4	-434.2	886.6	872.5	14.13	62.753		
7,000.0	6,970.9	6,990.7	6,969.3	8.4	8.5	-78.25	274.9	-435.6	887.9	873.7	14.27	62.205		
7,100.0	7,070.9	7,093.1	7,071.7	8.5	8.6	-78.25	274.9	-435.6	888.0	873.6	14.38	61.747		
7,200.0	7,170.9	7,193.1	7,171.7	8.6	8.7	-78.25	274.9	-435.6	888.0	873.5	14.48	61.315		
7,300.0	7,270.9	7,293.1	7,271.7	8.7	8.8	-78.25	274.9	-435.6	888.0	873.4	14.58	60.885		
7,400.0	7,370.9	7,393.1	7,371.7	8.8	8.9	-78.25	274.9	-435.6	888.0	873.3	14.69	60.458		
7,500.0	7,470.9	7,493.1	7,471.7	8.9	9.0	-78.25	274.9	-435.6	888.0	873.2	14.79	60.034		
7,600.0	7,570.9	7,593.1	7,571.7	9.0	9.1	-78.25	274.9	-435.6	888.0	873.1	14.90	59.613		
7,700.0	7,670.9	7,693.1	7,671.7	9.1	9.2	-78.25	274.9	-435.6	888.0	873.0	15.00	59.195		
7,800.0	7,770.9	7,793.1	7,771.7	9.2	9.4	-78.25	274.9	-435.6	888.0	872.9	15.11	58.780		
7,900.0	7,870.9	7,893.1	7,871.7	9.3	9.5	-78.25	274.9	-435.6	888.0	872.8	15.21	58.368		
8,000.0	7,970.9	7,993.1	7,971.7	9.4	9.6	-78.25	274.9	-435.6	888.0	872.6	15.32	57.960		
8,100.0	8,070.9	8,093.1	8,071.7	9.5	9.7	-78.25	274.9	-435.6	888.0	872.5	15.43	57.554		
8,200.0	8,170.9	8,193.1	8,171.7	9.6	9.8	-78.25	274.9	-435.6	888.0	872.4	15.54	57.152		
8,300.0	8,270.9	8,293.1	8,271.7	9.8	9.9	-78.25	274.9	-435.6	888.0	872.3	15.65	56.753		
8,400.0	8,370.9	8,393.1	8,371.7	9.9	10.0	-78.25	274.9	-435.6	888.0	872.2	15.76	56.357		
8,500.0	8,470.9	8,493.1	8,471.7	10.0	10.1	-78.25	274.9	-435.6	888.0	872.1	15.87	55.965		
8,600.0	8,570.9	8,593.1	8,571.7	10.1	10.2	-78.25	274.9	-435.6	888.0	872.0	15.98	55.576		
8,700.0	8,670.9	8,693.1	8,671.7	10.2	10.3	-78.25	274.9	-435.6	888.0	871.9	16.09	55.190		
8,800.0	8,770.9	8,793.1	8,771.7	10.3	10.4	-78.25	274.9	-435.6	888.0	871.8	16.20	54.808		
8,900.0	8,870.9	8,893.1	8,871.7	10.4	10.5	-78.25	274.9	-435.6	888.0	871.6	16.31	54.429		
9,000.0	8,970.9	8,993.1	8,971.7	10.5	10.7	-78.25	274.9	-435.6	888.0	871.5	16.43	54.054		
9,100.0	9,070.9	9,093.1	9,071.7	10.7	10.8	-78.25	274.9	-435.6	888.0	871.4	16.54	53.682		
9,200.0	9,170.9	9,193.1	9,171.7	10.8	10.9	-78.25	274.9	-435.6	888.0	871.3	16.66	53.313		
9,300.0	9,270.9	9,293.1	9,271.7	10.9	11.0	-78.25	274.9	-435.6	888.0	871.2	16.77	52.948		
9,400.0	9,370.9	9,393.1	9,371.7	11.0	11.1	-78.25	274.9	-435.6	888.0	871.1	16.89	52.586		
9,500.0	9,470.9	9,493.1	9,471.7	11.1	11.2	-78.25	274.9	-435.6	888.0	871.0	17.00	52.227		
9,600.0	9,570.9	9,593.1	9,571.7	11.2	11.3	-78.25	274.9	-435.6	888.0	870.8	17.12	51.872		
9,700.0	9,670.9	9,693.1	9,671.7	11.3	11.4	-78.25	274.9	-435.6	888.0	870.7	17.24	51.520		
9,800.0	9,770.9	9,793.1	9,771.7	11.5	11.6	-78.25	274.9	-435.6	888.0	870.6	17.35	51.172		
9,900.0	9,870.9	9,893.1	9,871.7	11.6	11.7	-78.25	274.9	-435.6	888.0	870.5	17.47	50.827		
10,000.0	9,970.9	9,993.1	9,971.7	11.7	11.8	-78.25	274.9	-435.6	888.0	870.4	17.59	50.485		
10,100.0	10,070.9	10,093.1	10,071.7	11.8	11.9	-78.25	274.9	-435.6	888.0	870.3	17.71	50.147		
10,200.0	10,170.9	10,193.1	10,171.7	11.9	12.0	-78.25	274.9	-435.6	888.0	870.1	17.83	49.812		
10,300.0	10,270.9	10,293.1	10,271.7	12.0	12.1	-78.25	274.9	-435.6	888.0	870.0	17.95	49.480		
10,400.0	10,370.9	10,393.1	10,371.7	12.2	12.3	-78.25	274.9	-435.6	888.0	869.9	18.07	49.151		
10,500.0	10,470.9	10,493.1	10,471.7	12.3	12.4	-78.25	274.9	-435.6	888.0	869.8	18.19	48.826		
10,600.0	10,570.9	10,593.1	10,571.7	12.4	12.5	-78.25	274.9	-435.6	888.0	869.7	18.31	48.504		
10,700.0	10,670.9	10,693.1	10,671.7	12.5	12.6	-78.25	274.9	-435.6	888.0	869.5	18.43	48.185		
10,800.0	10,770.9	10,793.1	10,771.7	12.6	12.7	-78.25	274.9	-435.6	888.0	869.4	18.55	47.869		
10,900.0	10,870.9	10,893.1	10,871.7	12.8	12.8	-78.25	274.9	-435.6	888.0	869.3	18.67	47.557		
11,000.0	10,970.9	10,993.1	10,971.7	12.9	13.0	-78.25	274.9	-435.6	888.0	869.2	18.79	47.248		
11,100.0	11,070.9	11,093.1	11,071.7	13.0	13.1	-78.25	274.9	-435.6	888.0	869.0	18.92	46.941		
11,200.0	11,170.9	11,193.1	11,171.7	13.1	13.2	-78.25	274.9	-435.6	888.0	868.9	19.04	46.638		
11,209.7	11,180.7	11,202.9	11,181.5	13.1	13.2	-78.25	274.9	-435.6	888.0	868.9	19.05	46.610		
11,300.0	11,270.9	11,288.3	11,266.9	13.2	13.3	-78.24	275.0	-435.7	888.0	868.9	19.15	46.377		
11,400.0	11,370.9	11,359.4	11,337.5	13.4	13.3	-77.79	282.1	-435.7	890.2	870.8	19.38	45.942		
11,453.6	11,424.5	11,396.1	11,373.5	13.4	13.4	-77.30	289.9	-435.7	892.8	873.3	19.46	45.885		
11,475.0	11,445.9	11,410.4	11,387.2	13.4	13.4	99.99	293.7	-435.8	894.2	874.6	19.53	45.781		
11,500.0	11,470.8	11,425.0	11,401.2	13.4	13.4	100.06	298.0	-435.8	896.3	876.6	19.65	45.612		
11,525.0	11,495.7	11,441.6	11,416.9	13.5	13.4	100.20	303.3	-435.8	898.9	879.1	19.78	45.453		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #110H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11275-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (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)			
11,550.0	11,520.3	11,455.8	11,430.2	13.5	13.4	100.28	308.4	-435.9	902.1	882.2	19.94	45.238	
11,575.0	11,544.6	11,469.1	11,442.5	13.5	13.5	100.31	313.4	-435.9	905.9	885.7	20.14	44.987	
11,600.0	11,568.6	11,481.4	11,453.7	13.6	13.5	100.28	318.4	-435.9	910.3	889.9	20.36	44.700	
11,625.0	11,592.3	11,492.5	11,463.8	13.6	13.5	100.16	323.2	-436.0	915.3	894.7	20.62	44.381	
11,650.0	11,615.4	11,500.0	11,470.5	13.6	13.5	99.81	326.5	-436.0	921.1	900.1	20.95	43.968	
11,675.0	11,638.1	11,511.6	11,480.8	13.7	13.5	99.60	331.9	-436.0	927.5	906.2	21.24	43.666	
11,700.0	11,660.1	11,519.6	11,487.7	13.7	13.5	99.14	335.7	-436.0	934.6	913.0	21.59	43.286	
11,725.0	11,681.5	11,525.0	11,492.5	13.7	13.5	98.46	338.4	-436.1	942.4	920.4	21.99	42.863	
11,750.0	11,702.2	11,532.5	11,498.9	13.8	13.5	97.81	342.1	-436.1	950.9	928.6	22.36	42.528	
11,775.0	11,722.2	11,537.5	11,503.2	13.8	13.6	96.92	344.7	-436.1	960.2	937.4	22.77	42.168	
11,800.0	11,741.3	11,541.6	11,506.7	13.8	13.6	95.89	346.9	-436.1	970.0	946.8	23.19	41.831	
11,825.0	11,759.6	11,550.0	11,513.8	13.9	13.6	95.04	351.4	-436.1	980.5	957.0	23.53	41.669	
11,850.0	11,776.9	11,550.0	11,513.8	13.9	13.6	93.56	351.4	-436.1	991.6	967.6	23.99	41.331	

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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)				
0.0	0.0	0.9	0.9	3.0	3.0	-0.27	140.1	-0.7	140.1					
100.0	100.0	100.9	100.9	3.0	3.0	-0.27	140.1	-0.7	140.1	134.1	6.00	23.346		
200.0	200.0	200.9	200.9	3.0	3.0	-0.27	140.1	-0.7	140.1	134.1	6.01	23.308		
300.0	300.0	300.9	300.9	3.0	3.0	-0.27	140.1	-0.7	140.1	134.1	6.03	23.225		
400.0	400.0	400.9	400.9	3.0	3.0	-0.27	140.1	-0.7	140.1	134.0	6.06	23.100		
500.0	500.0	500.9	500.9	3.1	3.1	-0.27	140.1	-0.7	140.1	134.0	6.11	22.933		
600.0	600.0	600.9	600.9	3.1	3.1	-0.27	140.1	-0.7	140.1	133.9	6.16	22.729		
700.0	700.0	700.9	700.9	3.1	3.1	-0.27	140.1	-0.7	140.1	133.9	6.23	22.489		
800.0	800.0	800.9	800.9	3.2	3.2	-0.27	140.1	-0.7	140.1	133.8	6.31	22.218		
900.0	900.0	900.9	900.9	3.2	3.2	-0.27	140.1	-0.7	140.1	133.7	6.39	21.920		
1,000.0	1,000.0	1,000.9	1,000.9	3.2	3.2	-0.27	140.1	-0.7	140.1	133.6	6.49	21.597		
1,100.0	1,100.0	1,100.9	1,100.9	3.3	3.3	-0.27	140.1	-0.7	140.1	133.5	6.59	21.254		
1,200.0	1,200.0	1,200.9	1,200.9	3.4	3.4	-0.27	140.1	-0.7	140.1	133.4	6.70	20.894		
1,300.0	1,300.0	1,300.9	1,300.9	3.4	3.4	-0.27	140.1	-0.7	140.1	133.3	6.83	20.521		
1,400.0	1,400.0	1,400.9	1,400.9	3.5	3.5	-0.27	140.1	-0.7	140.1	133.1	6.96	20.139		
1,500.0	1,500.0	1,500.9	1,500.9	3.5	3.5	-0.27	140.1	-0.7	140.1	133.0	7.09	19.750		
1,600.0	1,600.0	1,600.9	1,600.9	3.6	3.6	-0.27	140.1	-0.7	140.1	132.9	7.24	19.356		
1,700.0	1,700.0	1,700.9	1,700.9	3.7	3.7	-0.27	140.1	-0.7	140.1	132.7	7.39	18.962		
1,800.0	1,800.0	1,800.9	1,800.9	3.8	3.8	-0.27	140.1	-0.7	140.1	132.5	7.55	18.567		
1,900.0	1,900.0	1,900.9	1,900.9	3.9	3.9	-0.27	140.1	-0.7	140.1	132.4	7.71	18.175		
2,000.0	2,000.0	2,000.9	2,000.9	3.9	3.9	-0.27	140.1	-0.7	140.1	132.2	7.88	17.787		
2,100.0	2,100.0	2,100.9	2,100.9	4.0	4.0	-0.27	140.1	-0.7	140.1	132.0	8.05	17.404		
2,200.0	2,200.0	2,200.9	2,200.9	4.1	4.1	-0.27	140.1	-0.7	140.1	131.9	8.23	17.027		
2,300.0	2,300.0	2,300.9	2,300.9	4.2	4.2	-0.27	140.1	-0.7	140.1	131.7	8.41	16.658		
2,400.0	2,400.0	2,400.9	2,400.9	4.3	4.3	-0.27	140.1	-0.7	140.1	131.5	8.60	16.296		
2,500.0	2,500.0	2,500.9	2,500.9	4.4	4.4	-0.27	140.1	-0.7	140.1	131.3	8.79	15.942		
2,600.0	2,600.0	2,600.9	2,600.9	4.5	4.5	-78.75	140.1	-0.7	139.7	130.8	8.95	15.608		
2,700.0	2,699.8	2,700.7	2,700.7	4.5	4.6	-80.89	140.1	-0.7	138.8	129.7	9.08	15.280		
2,800.0	2,799.5	2,800.4	2,800.4	4.6	4.7	-84.48	140.1	-0.7	137.7	128.5	9.19	14.976		
2,900.0	2,898.7	2,899.6	2,899.6	4.6	4.8	-89.53	140.1	-0.7	137.1	127.8	9.26	14.804		
2,908.2	2,906.8	2,907.7	2,907.7	4.6	4.8	-90.00	140.1	-0.7	137.1	127.8	9.26	14.799 CC, ES, SF		
3,000.0	2,997.7	2,998.6	2,998.6	4.7	4.9	-95.27	140.1	-0.7	137.6	128.4	9.27	14.854		
3,100.0	3,096.8	3,097.7	3,097.7	4.7	5.0	-100.92	140.1	-0.7	139.6	130.4	9.23	15.125		
3,200.0	3,195.8	3,196.7	3,196.7	4.8	5.1	-106.35	140.1	-0.7	142.9	133.8	9.17	15.596		
3,300.0	3,294.8	3,295.7	3,295.7	4.8	5.2	-111.50	140.1	-0.7	147.5	138.4	9.08	16.246		
3,400.0	3,393.8	3,394.7	3,394.7	4.9	5.3	-116.32	140.1	-0.7	153.2	144.2	8.99	17.045		
3,500.0	3,492.9	3,493.8	3,493.8	5.0	5.4	-120.76	140.1	-0.7	159.9	151.0	8.90	17.965		
3,600.0	3,591.9	3,592.8	3,592.8	5.1	5.5	-124.83	140.1	-0.7	167.5	158.7	8.83	18.974		
3,700.0	3,690.9	3,691.8	3,691.8	5.1	5.6	-128.53	140.1	-0.7	175.9	167.1	8.77	20.045		
3,800.0	3,789.9	3,790.8	3,790.8	5.2	5.8	-131.89	140.1	-0.7	184.9	176.2	8.74	21.153		
3,900.0	3,889.0	3,889.9	3,889.9	5.3	5.9	-134.92	140.1	-0.7	194.5	185.8	8.73	22.277		
4,000.0	3,988.0	3,988.9	3,988.9	5.4	6.0	-137.67	140.1	-0.7	204.6	195.9	8.74	23.402		
4,100.0	4,087.0	4,087.9	4,087.9	5.5	6.1	-140.16	140.1	-0.7	215.2	206.4	8.78	24.515		
4,200.0	4,186.0	4,186.9	4,186.9	5.5	6.2	-142.41	140.1	-0.7	226.1	217.2	8.83	25.607		
4,300.0	4,285.1	4,286.0	4,286.0	5.6	6.3	-144.45	140.1	-0.7	237.3	228.4	8.90	26.671		
4,400.0	4,384.1	4,385.0	4,385.0	5.7	6.4	-146.31	140.1	-0.7	248.8	239.8	8.98	27.705		
4,500.0	4,483.1	4,484.0	4,484.0	5.8	6.6	-148.01	140.1	-0.7	260.5	251.4	9.08	28.705		
4,600.0	4,582.2	4,583.1	4,583.1	5.9	6.7	-149.55	140.1	-0.7	272.4	263.3	9.18	29.672		
4,700.0	4,681.2	4,682.1	4,682.1	6.0	6.8	-150.97	140.1	-0.7	284.6	275.3	9.30	30.604		
4,800.0	4,780.2	4,781.1	4,781.1	6.1	6.9	-152.27	140.1	-0.7	296.8	287.4	9.42	31.501		
4,900.0	4,879.2	4,880.1	4,880.1	6.2	7.0	-153.47	140.1	-0.7	309.2	299.7	9.55	32.366		
5,000.0	4,978.3	4,979.2	4,979.2	6.3	7.1	-154.57	140.1	-0.7	321.8	312.1	9.69	33.197		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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)				
5,100.0	5,077.3	5,078.2	5,078.2	6.4	7.3	-155.60	140.1	-0.7	334.4	324.6	9.84	33.998		
5,200.0	5,176.3	5,177.2	5,177.2	6.5	7.4	-156.54	140.1	-0.7	347.2	337.2	9.98	34.769		
5,300.0	5,275.3	5,276.2	5,276.2	6.6	7.5	-157.42	140.1	-0.7	360.0	349.8	10.14	35.510		
5,400.0	5,374.4	5,375.3	5,375.3	6.7	7.6	-158.24	140.1	-0.7	372.9	362.6	10.29	36.225		
5,487.6	5,461.2	5,462.1	5,462.1	6.8	7.7	-158.92	140.1	-0.7	384.3	373.8	10.43	36.829		
5,500.0	5,473.4	5,474.3	5,474.3	6.8	7.7	-159.01	140.1	-0.7	385.9	375.4	10.45	36.911		
5,600.0	5,572.6	5,573.5	5,573.5	6.9	7.9	-159.72	140.1	-0.7	397.9	387.3	10.62	37.482		
5,700.0	5,672.0	5,672.9	5,672.9	7.0	8.0	-160.29	140.1	-0.7	408.3	397.6	10.78	37.885		
5,800.0	5,771.5	5,772.4	5,772.4	7.2	8.1	-160.76	140.1	-0.7	417.2	406.2	10.94	38.127		
5,900.0	5,871.2	5,872.1	5,872.1	7.3	8.2	-161.12	140.1	-0.7	424.4	413.3	11.10	38.215		
6,000.0	5,971.0	5,971.9	5,971.9	7.4	8.3	-161.39	140.1	-0.7	430.0	418.7	11.27	38.159		
6,100.0	6,071.0	6,071.9	6,071.9	7.5	8.5	-161.58	140.1	-0.7	433.9	422.5	11.43	37.964		
6,200.0	6,170.9	6,171.8	6,171.8	7.6	8.6	-161.68	140.1	-0.7	436.2	424.6	11.59	37.632		
6,287.6	6,258.6	6,259.5	6,259.5	7.6	8.7	-83.94	140.1	-0.7	436.8	425.1	11.70	37.319		
6,300.0	6,270.9	6,271.8	6,271.8	7.7	8.7	-83.94	140.1	-0.7	436.8	425.1	11.72	37.280		
6,400.0	6,370.9	6,371.8	6,371.8	7.7	8.8	-83.94	140.1	-0.7	436.8	425.0	11.82	36.965		
6,500.0	6,470.9	6,471.8	6,471.8	7.8	9.0	-83.94	140.1	-0.7	436.8	424.9	11.92	36.652		
6,600.0	6,570.9	6,571.8	6,571.8	7.9	9.1	-83.94	140.1	-0.7	436.8	424.8	12.02	36.343		
6,700.0	6,670.9	6,671.8	6,671.8	8.0	9.2	-83.94	140.1	-0.7	436.8	424.7	12.12	36.037		
6,800.0	6,770.9	6,771.8	6,771.8	8.2	9.3	-83.94	140.1	-0.7	436.8	424.6	12.22	35.733		
6,900.0	6,870.9	6,871.8	6,871.8	8.3	9.5	-83.94	140.1	-0.7	436.8	424.5	12.33	35.433		
7,000.0	6,970.9	6,971.8	6,971.8	8.4	9.6	-83.94	140.1	-0.7	436.8	424.4	12.43	35.135		
7,100.0	7,070.9	7,071.8	7,071.8	8.5	9.7	-83.94	140.1	-0.7	436.8	424.3	12.54	34.841		
7,200.0	7,170.9	7,171.8	7,171.8	8.6	9.8	-83.94	140.1	-0.7	436.8	424.2	12.64	34.550		
7,300.0	7,270.9	7,271.8	7,271.8	8.7	10.0	-83.94	140.1	-0.7	436.8	424.1	12.75	34.261		
7,400.0	7,370.9	7,371.8	7,371.8	8.8	10.1	-83.94	140.1	-0.7	436.8	424.0	12.86	33.976		
7,500.0	7,470.9	7,471.8	7,471.8	8.9	10.2	-83.94	140.1	-0.7	436.8	423.8	12.96	33.694		
7,600.0	7,570.9	7,571.8	7,571.8	9.0	10.3	-83.94	140.1	-0.7	436.8	423.7	13.07	33.415		
7,700.0	7,670.9	7,671.8	7,671.8	9.1	10.5	-83.94	140.1	-0.7	436.8	423.6	13.18	33.139		
7,800.0	7,770.9	7,771.8	7,771.8	9.2	10.6	-83.94	140.1	-0.7	436.8	423.5	13.29	32.866		
7,900.0	7,870.9	7,871.8	7,871.8	9.3	10.7	-83.94	140.1	-0.7	436.8	423.4	13.40	32.596		
8,000.0	7,970.9	7,971.8	7,971.8	9.4	10.8	-83.94	140.1	-0.7	436.8	423.3	13.51	32.329		
8,100.0	8,070.9	8,071.8	8,071.8	9.5	11.0	-83.94	140.1	-0.7	436.8	423.2	13.62	32.065		
8,200.0	8,170.9	8,171.8	8,171.8	9.6	11.1	-83.94	140.1	-0.7	436.8	423.1	13.73	31.804		
8,300.0	8,270.9	8,271.8	8,271.8	9.8	11.2	-83.94	140.1	-0.7	436.8	423.0	13.85	31.546		
8,400.0	8,370.9	8,371.8	8,371.8	9.9	11.4	-83.94	140.1	-0.7	436.8	422.8	13.96	31.292		
8,500.0	8,470.9	8,471.8	8,471.8	10.0	11.5	-83.94	140.1	-0.7	436.8	422.7	14.07	31.040		
8,600.0	8,570.9	8,571.8	8,571.8	10.1	11.6	-83.94	140.1	-0.7	436.8	422.6	14.19	30.791		
8,700.0	8,670.9	8,671.8	8,671.8	10.2	11.7	-83.94	140.1	-0.7	436.8	422.5	14.30	30.545		
8,800.0	8,770.9	8,771.8	8,771.8	10.3	11.9	-83.94	140.1	-0.7	436.8	422.4	14.42	30.302		
8,900.0	8,870.9	8,871.8	8,871.8	10.4	12.0	-83.94	140.1	-0.7	436.8	422.3	14.53	30.062		
9,000.0	8,970.9	8,971.8	8,971.8	10.5	12.1	-83.94	140.1	-0.7	436.8	422.2	14.65	29.825		
9,100.0	9,070.9	9,071.8	9,071.8	10.7	12.2	-83.94	140.1	-0.7	436.8	422.0	14.76	29.590		
9,200.0	9,170.9	9,171.8	9,171.8	10.8	12.4	-83.94	140.1	-0.7	436.8	421.9	14.88	29.359		
9,300.0	9,270.9	9,271.8	9,271.8	10.9	12.5	-83.94	140.1	-0.7	436.8	421.8	15.00	29.130		
9,400.0	9,370.9	9,371.8	9,371.8	11.0	12.6	-83.94	140.1	-0.7	436.8	421.7	15.11	28.904		
9,500.0	9,470.9	9,471.8	9,471.8	11.1	12.8	-83.94	140.1	-0.7	436.8	421.6	15.23	28.681		
9,600.0	9,570.9	9,571.8	9,571.8	11.2	12.9	-83.94	140.1	-0.7	436.8	421.5	15.35	28.460		
9,700.0	9,670.9	9,671.8	9,671.8	11.3	13.0	-83.94	140.1	-0.7	436.8	421.3	15.47	28.242		
9,800.0	9,770.9	9,771.8	9,771.8	11.5	13.1	-83.94	140.1	-0.7	436.8	421.2	15.59	28.027		
9,900.0	9,870.9	9,871.8	9,871.8	11.6	13.3	-83.94	140.1	-0.7	436.8	421.1	15.70	27.814		
10,000.0	9,970.9	9,971.8	9,971.8	11.7	13.4	-83.94	140.1	-0.7	436.8	421.0	15.82	27.604		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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)				
10,100.0	10,070.9	10,071.8	10,071.8	11.8	13.5	-83.94	140.1	-0.7	436.8	420.9	15.94	27.397		
10,200.0	10,170.9	10,171.8	10,171.8	11.9	13.7	-83.94	140.1	-0.7	436.8	420.7	16.06	27.192		
10,300.0	10,270.9	10,271.8	10,271.8	12.0	13.8	-83.94	140.1	-0.7	436.8	420.6	16.18	26.989		
10,400.0	10,370.9	10,371.8	10,371.8	12.2	13.9	-83.94	140.1	-0.7	436.8	420.5	16.31	26.789		
10,500.0	10,470.9	10,471.8	10,471.8	12.3	14.0	-83.94	140.1	-0.7	436.8	420.4	16.43	26.591		
10,600.0	10,570.9	10,571.8	10,571.8	12.4	14.2	-83.94	140.1	-0.7	436.8	420.3	16.55	26.396		
10,700.0	10,670.9	10,671.8	10,671.8	12.5	14.3	-83.94	140.1	-0.7	436.8	420.1	16.67	26.203		
10,800.0	10,770.9	10,771.8	10,771.8	12.6	14.4	-83.94	140.1	-0.7	436.8	420.0	16.79	26.013		
10,900.0	10,870.9	10,871.8	10,871.8	12.8	14.6	-83.94	140.1	-0.7	436.8	419.9	16.91	25.824		
11,000.0	10,970.9	10,971.8	10,971.8	12.9	14.7	-83.94	140.1	-0.7	436.8	419.8	17.04	25.638		
11,100.0	11,070.9	11,071.8	11,071.8	13.0	14.8	-83.94	140.1	-0.7	436.8	419.6	17.16	25.455		
11,200.0	11,170.9	11,171.8	11,171.8	13.1	14.9	-83.94	140.1	-0.7	436.8	419.5	17.28	25.273		
11,300.0	11,270.9	11,271.8	11,271.8	13.2	15.1	-83.94	140.1	-0.7	436.8	419.4	17.41	25.094		
11,400.0	11,370.9	11,371.8	11,371.8	13.4	15.2	-83.94	140.1	-0.7	436.8	419.3	17.53	24.917		
11,405.4	11,376.3	11,377.2	11,377.2	13.4	15.2	-83.94	140.1	-0.7	436.8	419.3	17.54	24.909		
11,453.6	11,424.5	11,424.4	11,424.4	13.4	15.3	-83.93	140.2	-0.7	436.8	419.2	17.58	24.846		
11,475.0	11,445.9	11,443.3	11,443.3	13.4	15.3	93.39	140.8	-0.7	437.0	419.4	17.58	24.852		
11,500.0	11,470.8	11,465.1	11,465.0	13.4	15.3	93.77	142.6	-0.8	437.4	419.8	17.59	24.866		
11,525.0	11,495.7	11,486.3	11,486.0	13.5	15.3	94.36	145.2	-0.8	438.1	420.5	17.61	24.882		
11,550.0	11,520.3	11,506.6	11,506.0	13.5	15.3	95.11	148.6	-1.0	439.2	421.5	17.65	24.887		
11,575.0	11,544.6	11,525.0	11,524.1	13.5	15.4	95.92	152.4	-1.1	440.8	423.0	17.73	24.857		
11,600.0	11,568.6	11,543.7	11,542.2	13.6	15.4	96.86	156.9	-1.3	443.0	425.1	17.86	24.807		
11,625.0	11,592.3	11,560.2	11,558.1	13.6	15.4	97.73	161.5	-1.4	445.9	427.9	18.06	24.692		
11,650.0	11,615.4	11,575.0	11,572.1	13.6	15.4	98.48	166.1	-1.6	449.7	431.4	18.35	24.503		
11,675.0	11,638.1	11,588.9	11,585.2	13.7	15.4	99.16	170.9	-1.7	454.5	435.8	18.73	24.265		
11,700.0	11,660.1	11,600.0	11,595.5	13.7	15.5	99.51	174.9	-1.9	460.3	441.0	19.24	23.926		
11,725.0	11,681.5	11,611.8	11,606.4	13.7	15.5	99.86	179.5	-2.0	467.1	447.4	19.78	23.617		
11,750.0	11,702.2	11,621.1	11,614.9	13.8	15.5	99.85	183.2	-2.2	475.1	454.7	20.43	23.257		
11,775.0	11,722.2	11,625.0	11,618.4	13.8	15.5	99.11	184.9	-2.2	484.3	463.0	21.28	22.765		
11,800.0	11,741.3	11,635.8	11,628.2	13.8	15.5	99.00	189.6	-2.4	494.6	472.7	21.90	22.584		
11,825.0	11,759.6	11,641.4	11,633.2	13.9	15.5	98.15	192.0	-2.5	505.9	483.3	22.68	22.311		
11,850.0	11,776.9	11,650.0	11,640.8	13.9	15.5	97.50	196.0	-2.6	518.4	495.1	23.32	22.231		
11,875.0	11,793.3	11,650.0	11,640.8	14.0	15.5	95.62	196.0	-2.6	531.7	507.5	24.20	21.973		
11,900.0	11,808.7	11,650.0	11,640.8	14.0	15.5	93.54	196.0	-2.6	546.0	521.0	25.02	21.822		
11,925.0	11,823.0	11,650.0	11,640.8	14.0	15.5	91.27	196.0	-2.6	561.1	535.3	25.77	21.770		
11,950.0	11,836.2	11,650.0	11,640.8	14.0	15.5	88.82	196.0	-2.6	576.9	550.5	26.45	21.811		
11,975.0	11,848.3	11,650.0	11,640.8	14.1	15.5	86.21	196.0	-2.6	593.3	566.3	27.05	21.936		
12,000.0	11,859.2	11,650.0	11,640.8	14.1	15.5	83.46	196.0	-2.6	610.3	582.7	27.57	22.136		
12,025.0	11,869.0	11,650.0	11,640.8	14.1	15.5	80.59	196.0	-2.6	627.6	599.6	28.01	22.404		
12,050.0	11,877.5	11,650.0	11,640.8	14.2	15.5	77.63	196.0	-2.6	645.3	617.0	28.39	22.732		
12,075.0	11,884.8	11,650.0	11,640.8	14.2	15.5	74.61	196.0	-2.6	663.3	634.6	28.70	23.116		
12,100.0	11,890.8	11,650.0	11,640.8	14.2	15.5	71.56	196.0	-2.6	681.6	652.6	28.94	23.548		
12,125.0	11,895.5	11,642.6	11,634.2	14.2	15.5	67.71	192.6	-2.5	699.8	670.5	29.33	23.857		
12,150.0	11,899.0	11,639.0	11,631.0	14.2	15.5	64.37	191.0	-2.4	718.1	688.6	29.56	24.295		
12,175.0	11,901.1	11,635.0	11,627.4	14.2	15.5	61.12	189.2	-2.4	736.5	706.7	29.74	24.761		
12,200.0	11,902.0	11,625.0	11,618.4	14.3	15.5	57.49	184.9	-2.2	754.7	724.7	30.03	25.134		
12,203.6	11,902.0	11,625.0	11,618.4	14.3	15.5	57.11	184.9	-2.2	757.3	727.3	30.02	25.222		
12,281.4	11,902.0	11,616.5	11,610.7	14.3	15.5	54.35	181.4	-2.1	816.3	786.1	30.22	27.010		
12,300.0	11,902.0	11,613.6	11,608.0	14.3	15.5	54.10	180.2	-2.1	831.0	800.8	30.28	27.447		
12,400.0	11,902.0	11,600.0	11,595.5	14.4	15.5	52.95	174.9	-1.9	912.3	881.9	30.48	29.935		
12,500.0	11,902.0	11,586.2	11,582.6	14.4	15.4	51.80	169.9	-1.7	996.5	965.9	30.66	32.504		

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance	Rule Assigned:							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.7	0.7	3.0	3.0	13.02	140.8	32.6	144.6					
100.0	100.0	100.7	100.7	3.0	3.0	13.02	140.8	32.6	144.6	138.6	6.00	24.091		
200.0	200.0	200.7	200.7	3.0	3.0	13.02	140.8	32.6	144.6	138.6	6.01	24.053		
300.0	300.0	300.7	300.7	3.0	3.0	13.02	140.8	32.6	144.6	138.5	6.03	23.971		
400.0	400.0	400.7	400.7	3.0	3.0	13.02	140.8	32.6	144.6	138.5	6.06	23.847		
500.0	500.0	500.7	500.7	3.1	3.1	13.02	140.8	32.6	144.6	138.5	6.10	23.681		
600.0	600.0	600.7	600.7	3.1	3.1	13.02	140.8	32.6	144.6	138.4	6.16	23.477		
700.0	700.0	700.7	700.7	3.1	3.1	13.02	140.8	32.6	144.6	138.3	6.22	23.238		
800.0	800.0	800.7	800.7	3.2	3.2	13.02	140.8	32.6	144.6	138.3	6.29	22.968		
900.0	900.0	900.7	900.7	3.2	3.2	13.02	140.8	32.6	144.6	138.2	6.38	22.669		
1,000.0	1,000.0	1,000.7	1,000.7	3.2	3.2	13.02	140.8	32.6	144.6	138.1	6.47	22.346		
1,100.0	1,100.0	1,100.7	1,100.7	3.3	3.3	13.02	140.8	32.6	144.6	138.0	6.57	22.001		
1,200.0	1,200.0	1,200.7	1,200.7	3.4	3.4	13.02	140.8	32.6	144.6	137.9	6.68	21.640		
1,300.0	1,300.0	1,300.7	1,300.7	3.4	3.4	13.02	140.8	32.6	144.6	137.8	6.80	21.265		
1,400.0	1,400.0	1,400.7	1,400.7	3.5	3.5	13.02	140.8	32.6	144.6	137.6	6.92	20.880		
1,500.0	1,500.0	1,500.7	1,500.7	3.5	3.5	13.02	140.8	32.6	144.6	137.5	7.06	20.487		
1,600.0	1,600.0	1,600.7	1,600.7	3.6	3.6	13.02	140.8	32.6	144.6	137.4	7.20	20.090		
1,700.0	1,700.0	1,700.7	1,700.7	3.7	3.7	13.02	140.8	32.6	144.6	137.2	7.34	19.690		
1,800.0	1,800.0	1,800.7	1,800.7	3.8	3.8	13.02	140.8	32.6	144.6	137.1	7.49	19.290		
1,900.0	1,900.0	1,900.7	1,900.7	3.9	3.9	13.02	140.8	32.6	144.6	136.9	7.65	18.892		
2,000.0	2,000.0	2,000.7	2,000.7	3.9	3.9	13.02	140.8	32.6	144.6	136.7	7.82	18.498		
2,100.0	2,100.0	2,100.7	2,100.7	4.0	4.0	13.02	140.8	32.6	144.6	136.6	7.98	18.108		
2,200.0	2,200.0	2,200.7	2,200.7	4.1	4.1	13.02	140.8	32.6	144.6	136.4	8.16	17.723		
2,300.0	2,300.0	2,300.7	2,300.7	4.2	4.2	13.02	140.8	32.6	144.6	136.2	8.33	17.346		
2,400.0	2,400.0	2,400.7	2,400.7	4.3	4.3	13.02	140.8	32.6	144.6	136.0	8.52	16.976		
2,416.4	2,416.4	2,417.1	2,417.1	4.3	4.3	13.02	140.8	32.6	144.6	136.0	8.55	16.916 CC		
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	13.02	140.8	32.6	144.6	135.9	8.70	16.615		
2,600.0	2,600.0	2,598.1	2,598.1	4.5	4.5	-64.79	141.4	34.2	144.7	135.9	8.85	16.347		
2,700.0	2,699.8	2,695.5	2,695.4	4.5	4.5	-64.93	143.0	38.9	145.2	136.2	8.97	16.182		
2,800.0	2,799.5	2,792.9	2,792.4	4.6	4.6	-65.16	145.6	46.7	145.9	136.8	9.09	16.054		
2,900.0	2,898.7	2,892.7	2,891.7	4.6	4.6	-65.99	149.0	56.6	146.2	137.0	9.22	15.868		
3,000.0	2,997.7	2,992.7	2,991.1	4.7	4.7	-67.45	152.3	66.5	145.9	136.6	9.34	15.618		
3,100.0	3,096.8	3,092.6	3,090.4	4.7	4.8	-68.92	155.6	76.4	145.7	136.2	9.46	15.394		
3,200.0	3,195.8	3,192.5	3,189.8	4.8	4.8	-70.39	159.0	86.3	145.5	136.0	9.58	15.195		
3,295.7	3,290.6	3,288.2	3,285.0	4.8	4.9	-71.80	162.2	95.8	145.5	135.8	9.68	15.026		
3,300.0	3,294.8	3,292.4	3,289.2	4.8	4.9	-71.86	162.3	96.2	145.5	135.8	9.69	15.019		
3,400.0	3,393.8	3,392.4	3,388.6	4.9	5.0	-73.33	165.7	106.1	145.6	135.8	9.79	14.866 ES		
3,500.0	3,492.9	3,492.3	3,488.0	5.0	5.0	-74.80	169.0	116.0	145.7	135.8	9.89	14.734		
3,600.0	3,591.9	3,592.2	3,587.3	5.1	5.1	-76.27	172.3	125.9	145.9	136.0	9.98	14.622		
3,700.0	3,690.9	3,692.2	3,686.7	5.1	5.2	-77.73	175.7	135.8	146.3	136.2	10.07	14.529		
3,800.0	3,789.9	3,792.1	3,786.1	5.2	5.3	-79.18	179.0	145.7	146.7	136.6	10.15	14.454		
3,900.0	3,889.0	3,892.0	3,885.5	5.3	5.3	-80.63	182.4	155.6	147.2	137.0	10.23	14.395		
4,000.0	3,988.0	3,992.0	3,984.9	5.4	5.4	-82.06	185.7	165.5	147.9	137.6	10.30	14.352		
4,100.0	4,087.0	4,091.9	4,084.3	5.5	5.5	-83.48	189.1	175.4	148.6	138.2	10.37	14.323		
4,200.0	4,186.0	4,191.8	4,183.6	5.5	5.6	-84.88	192.4	185.3	149.4	138.9	10.44	14.307		
4,300.0	4,285.1	4,291.7	4,283.0	5.6	5.7	-86.27	195.7	195.2	150.3	139.8	10.51	14.303		
4,400.0	4,384.1	4,391.7	4,382.4	5.7	5.8	-87.64	199.1	205.1	151.3	140.7	10.57	14.310		
4,500.0	4,483.1	4,491.6	4,481.8	5.8	5.9	-89.00	202.4	215.0	152.3	141.7	10.63	14.326		
4,600.0	4,582.2	4,591.5	4,581.2	5.9	6.0	-90.33	205.8	224.9	153.5	142.8	10.69	14.350		
4,700.0	4,681.2	4,691.5	4,680.6	6.0	6.1	-91.64	209.1	234.8	154.7	143.9	10.76	14.381		
4,800.0	4,780.2	4,791.4	4,779.9	6.1	6.2	-92.94	212.4	244.7	156.0	145.2	10.82	14.418		
4,900.0	4,879.2	4,891.3	4,879.3	6.2	6.3	-94.21	215.8	254.6	157.4	146.5	10.89	14.460		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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)				
5,000.0	4,978.3	4,991.3	4,978.7	6.3	6.4	-95.45	219.1	264.5	158.9	147.9	10.95	14.505		
5,100.0	5,077.3	5,091.2	5,078.1	6.4	6.5	-96.68	222.5	274.3	160.4	149.4	11.02	14.553		
5,200.0	5,176.3	5,191.1	5,177.5	6.5	6.6	-97.88	225.8	284.2	162.0	150.9	11.09	14.603		
5,300.0	5,275.3	5,291.0	5,276.8	6.6	6.7	-99.05	229.1	294.1	163.7	152.5	11.17	14.653		
5,400.0	5,374.4	5,391.0	5,376.2	6.7	6.8	-100.20	232.5	304.0	165.4	154.2	11.25	14.704		
5,487.6	5,461.2	5,478.6	5,463.3	6.8	6.9	-101.19	235.4	312.7	167.0	155.7	11.33	14.747		
5,500.0	5,473.4	5,490.9	5,475.6	6.8	6.9	-101.33	235.8	313.9	167.3	155.9	11.34	14.753		
5,600.0	5,572.6	5,590.9	5,575.0	6.9	7.0	-102.09	239.2	323.8	168.9	157.5	11.44	14.758		
5,700.0	5,672.0	5,690.9	5,674.5	7.0	7.1	-102.26	242.5	333.7	170.2	158.6	11.58	14.694		
5,800.0	5,771.5	5,790.8	5,773.9	7.2	7.2	-101.85	245.8	343.6	171.1	159.4	11.75	14.561		
5,900.0	5,871.2	5,890.8	5,873.3	7.3	7.3	-100.87	249.2	353.5	171.7	159.8	11.95	14.368		
6,000.0	5,971.0	5,990.7	5,972.7	7.4	7.4	-99.33	252.5	363.4	172.1	159.9	12.18	14.132		
6,100.0	6,071.0	6,090.5	6,071.9	7.5	7.5	-97.22	255.9	373.3	172.3	159.9	12.43	13.863		
6,200.0	6,170.9	6,190.2	6,171.0	7.6	7.6	-94.55	259.2	383.2	172.7	160.0	12.73	13.565		
6,287.6	6,258.6	6,277.4	6,257.8	7.6	7.7	-13.99	262.1	391.8	173.2	160.2	13.05	13.277		
6,300.0	6,270.9	6,289.7	6,270.0	7.7	7.8	-13.56	262.5	393.0	173.4	160.3	13.10	13.234		
6,400.0	6,370.9	6,389.1	6,368.9	7.7	7.9	-10.16	265.8	402.9	174.6	161.1	13.51	12.920		
6,500.0	6,470.9	6,489.2	6,468.5	7.8	8.0	-7.08	268.9	412.0	176.3	162.4	13.91	12.670		
6,600.0	6,570.9	6,589.6	6,568.6	7.9	8.1	-4.60	271.4	419.4	178.0	163.7	14.27	12.474		
6,700.0	6,670.9	6,690.2	6,669.1	8.0	8.2	-2.71	273.4	425.2	179.6	165.0	14.58	12.317		
6,800.0	6,770.9	6,791.0	6,769.8	8.2	8.3	-1.38	274.8	429.3	180.8	166.0	14.84	12.182		
6,900.0	6,870.9	6,892.0	6,870.7	8.3	8.4	-0.60	275.6	431.8	181.6	166.5	15.07	12.051		
7,000.0	6,970.9	6,992.9	6,971.6	8.4	8.5	-0.36	275.8	432.6	181.9	166.6	15.28	11.901		
7,100.0	7,070.9	7,092.9	7,071.6	8.5	8.6	-0.36	275.8	432.6	181.9	166.4	15.50	11.735		
7,200.0	7,170.9	7,192.9	7,171.6	8.6	8.7	-0.36	275.8	432.6	181.9	166.1	15.71	11.573		
7,300.0	7,270.9	7,292.9	7,271.6	8.7	8.8	-0.36	275.8	432.6	181.9	165.9	15.93	11.414		
7,400.0	7,370.9	7,392.9	7,371.6	8.8	8.9	-0.36	275.8	432.6	181.9	165.7	16.15	11.258		
7,500.0	7,470.9	7,492.9	7,471.6	8.9	9.0	-0.36	275.8	432.6	181.9	165.5	16.37	11.106		
7,600.0	7,570.9	7,592.9	7,571.6	9.0	9.1	-0.36	275.8	432.6	181.9	165.3	16.60	10.957		
7,700.0	7,670.9	7,692.9	7,671.6	9.1	9.2	-0.36	275.8	432.6	181.9	165.0	16.82	10.811		
7,800.0	7,770.9	7,792.9	7,771.6	9.2	9.4	-0.36	275.8	432.6	181.9	164.8	17.05	10.668		
7,900.0	7,870.9	7,892.9	7,871.6	9.3	9.5	-0.36	275.8	432.6	181.9	164.6	17.27	10.529		
8,000.0	7,970.9	7,992.9	7,971.6	9.4	9.6	-0.36	275.8	432.6	181.9	164.4	17.50	10.392		
8,100.0	8,070.9	8,092.9	8,071.6	9.5	9.7	-0.36	275.8	432.6	181.9	164.1	17.73	10.258		
8,200.0	8,170.9	8,192.9	8,171.6	9.6	9.8	-0.36	275.8	432.6	181.9	163.9	17.96	10.127		
8,300.0	8,270.9	8,292.9	8,271.6	9.8	9.9	-0.36	275.8	432.6	181.9	163.7	18.19	9.999		
8,400.0	8,370.9	8,392.9	8,371.6	9.9	10.0	-0.36	275.8	432.6	181.9	163.4	18.42	9.874		
8,500.0	8,470.9	8,492.9	8,471.6	10.0	10.1	-0.36	275.8	432.6	181.9	163.2	18.65	9.751		
8,600.0	8,570.9	8,592.9	8,571.6	10.1	10.2	-0.36	275.8	432.6	181.9	163.0	18.88	9.631		
8,700.0	8,670.9	8,692.9	8,671.6	10.2	10.3	-0.36	275.8	432.6	181.9	162.7	19.12	9.513		
8,800.0	8,770.9	8,792.9	8,771.6	10.3	10.4	-0.36	275.8	432.6	181.9	162.5	19.35	9.398		
8,900.0	8,870.9	8,892.9	8,871.6	10.4	10.5	-0.36	275.8	432.6	181.9	162.3	19.59	9.285		
9,000.0	8,970.9	8,992.9	8,971.6	10.5	10.7	-0.36	275.8	432.6	181.9	162.0	19.82	9.175		
9,100.0	9,070.9	9,092.9	9,071.6	10.7	10.8	-0.36	275.8	432.6	181.9	161.8	20.06	9.067		
9,200.0	9,170.9	9,192.9	9,171.6	10.8	10.9	-0.36	275.8	432.6	181.9	161.6	20.29	8.961		
9,300.0	9,270.9	9,292.9	9,271.6	10.9	11.0	-0.36	275.8	432.6	181.9	161.3	20.53	8.857		
9,400.0	9,370.9	9,392.9	9,371.6	11.0	11.1	-0.36	275.8	432.6	181.9	161.1	20.77	8.755		
9,500.0	9,470.9	9,492.9	9,471.6	11.1	11.2	-0.36	275.8	432.6	181.9	160.8	21.01	8.656		
9,600.0	9,570.9	9,592.9	9,571.6	11.2	11.3	-0.36	275.8	432.6	181.9	160.6	21.25	8.558		
9,700.0	9,670.9	9,692.9	9,671.6	11.3	11.4	-0.36	275.8	432.6	181.9	160.4	21.49	8.462		
9,800.0	9,770.9	9,792.9	9,771.6	11.5	11.6	-0.36	275.8	432.6	181.9	160.1	21.73	8.369		
9,900.0	9,870.9	9,892.9	9,871.6	11.6	11.7	-0.36	275.8	432.6	181.9	159.9	21.97	8.277		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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)				
10,000.0	9,970.9	9,992.9	9,971.6	11.7	11.8	-0.36	275.8	432.6	181.9	159.6	22.21	8.187		
10,100.0	10,070.9	10,092.9	10,071.6	11.8	11.9	-0.36	275.8	432.6	181.9	159.4	22.46	8.098		
10,200.0	10,170.9	10,192.9	10,171.6	11.9	12.0	-0.36	275.8	432.6	181.9	159.2	22.70	8.012		
10,300.0	10,270.9	10,292.9	10,271.6	12.0	12.1	-0.36	275.8	432.6	181.9	158.9	22.94	7.927		
10,400.0	10,370.9	10,392.9	10,371.6	12.2	12.3	-0.36	275.8	432.6	181.9	158.7	23.19	7.844		
10,500.0	10,470.9	10,492.9	10,471.6	12.3	12.4	-0.36	275.8	432.6	181.9	158.4	23.43	7.762		
10,600.0	10,570.9	10,592.9	10,571.6	12.4	12.5	-0.36	275.8	432.6	181.9	158.2	23.67	7.682		
10,700.0	10,670.9	10,692.9	10,671.6	12.5	12.6	-0.36	275.8	432.6	181.9	157.9	23.92	7.603		
10,800.0	10,770.9	10,792.9	10,771.6	12.6	12.7	-0.36	275.8	432.6	181.9	157.7	24.16	7.526		
10,900.0	10,870.9	10,892.9	10,871.6	12.8	12.8	-0.36	275.8	432.6	181.9	157.4	24.41	7.450		
11,000.0	10,970.9	10,992.9	10,971.6	12.9	13.0	-0.36	275.8	432.6	181.9	157.2	24.66	7.376		
11,100.0	11,070.9	11,092.9	11,071.6	13.0	13.1	-0.36	275.8	432.6	181.9	157.0	24.90	7.303		
11,200.0	11,170.9	11,192.9	11,171.6	13.1	13.2	-0.36	275.8	432.6	181.9	156.7	25.15	7.231		
11,209.8	11,180.7	11,202.7	11,181.4	13.1	13.2	-0.36	275.8	432.6	181.9	156.7	25.17	7.225		
11,300.0	11,270.9	11,288.2	11,266.9	13.2	13.3	-0.36	276.0	432.5	182.1	156.7	25.37	7.176 SF		
11,400.0	11,370.9	11,359.8	11,338.0	13.4	13.3	-0.49	283.2	432.1	192.2	165.6	26.52	7.247		
11,453.6	11,424.5	11,400.0	11,377.3	13.4	13.4	-0.62	291.9	431.6	203.6	176.2	27.42	7.425		
11,475.0	11,445.9	11,411.1	11,388.0	13.4	13.4	176.49	294.9	431.4	209.7	181.6	28.12	7.457		
11,500.0	11,470.8	11,425.0	11,401.3	13.4	13.4	176.38	298.9	431.1	218.8	189.9	28.91	7.567		
11,525.0	11,495.7	11,442.5	11,417.8	13.5	13.4	176.24	304.6	430.8	229.8	200.4	29.37	7.823		
11,550.0	11,520.3	11,456.9	11,431.3	13.5	13.5	176.10	309.7	430.4	242.6	212.6	30.00	8.086		
11,575.0	11,544.6	11,470.2	11,443.6	13.5	13.5	175.94	314.8	430.1	257.1	226.5	30.63	8.396		
11,600.0	11,568.6	11,482.5	11,454.8	13.6	13.5	175.76	319.8	429.8	273.2	242.0	31.22	8.751		
11,625.0	11,592.3	11,493.7	11,465.0	13.6	13.5	175.55	324.6	429.5	290.8	259.0	31.79	9.145		
11,650.0	11,615.4	11,500.0	11,470.5	13.6	13.5	175.30	327.4	429.3	309.6	277.0	32.59	9.499		
11,675.0	11,638.1	11,512.9	11,482.0	13.7	13.5	175.02	333.4	428.9	329.5	296.7	32.82	10.039		
11,700.0	11,660.1	11,525.0	11,492.5	13.7	13.5	174.69	339.3	428.6	350.5	317.5	33.01	10.617		
11,725.0	11,681.5	11,525.0	11,492.5	13.7	13.5	174.17	339.3	428.6	372.3	338.4	33.83	11.003		
11,750.0	11,702.2	11,533.8	11,500.1	13.8	13.6	173.61	343.7	428.3	394.8	360.8	34.02	11.604		
11,775.0	11,722.2	11,538.8	11,504.4	13.8	13.6	172.82	346.3	428.1	418.0	383.7	34.34	12.173		
11,800.0	11,741.3	11,542.9	11,507.9	13.8	13.6	171.72	348.5	428.0	441.8	407.1	34.61	12.764		
11,825.0	11,759.6	11,550.0	11,513.9	13.9	13.6	170.29	352.3	427.8	465.9	431.3	34.66	13.444		
11,850.0	11,776.9	11,550.0	11,513.9	13.9	13.6	167.54	352.3	427.8	490.4	455.4	34.97	14.024		
11,875.0	11,793.3	11,550.0	11,513.9	14.0	13.6	162.24	352.3	427.8	515.1	479.9	35.20	14.635		
11,900.0	11,808.7	11,550.0	11,513.9	14.0	13.6	148.63	352.3	427.8	540.0	504.7	35.36	15.273		
11,925.0	11,823.0	11,550.0	11,513.9	14.0	13.6	94.75	352.3	427.8	565.0	529.5	35.45	15.936		
11,950.0	11,836.2	11,550.0	11,513.9	14.0	13.6	32.92	352.3	427.8	590.0	554.5	35.49	16.621		
11,975.0	11,848.3	11,550.0	11,513.9	14.1	13.6	17.16	352.3	427.8	614.9	579.4	35.49	17.327		
12,000.0	11,859.2	11,550.0	11,513.9	14.1	13.6	11.32	352.3	427.8	639.7	604.3	35.43	18.053		
12,025.0	11,869.0	11,550.0	11,513.9	14.1	13.6	8.36	352.3	427.8	664.3	629.0	35.34	18.796		
12,050.0	11,877.5	11,550.0	11,513.9	14.2	13.6	6.58	352.3	427.8	688.7	653.5	35.22	19.556		
12,075.0	11,884.8	11,550.0	11,513.9	14.2	13.6	5.40	352.3	427.8	712.9	677.8	35.06	20.333		
12,100.0	11,890.8	11,540.0	11,505.4	14.2	13.6	4.24	346.9	428.1	736.6	701.4	35.18	20.941		
12,125.0	11,895.5	11,536.6	11,502.5	14.2	13.6	3.61	345.2	428.2	760.0	725.0	35.05	21.681		
12,150.0	11,899.0	11,532.8	11,499.3	14.2	13.6	3.11	343.2	428.3	783.0	748.1	34.91	22.427		
12,175.0	11,901.1	11,525.0	11,492.5	14.2	13.5	2.67	339.3	428.6	805.6	770.7	34.86	23.110		
12,200.0	11,902.0	11,525.0	11,492.5	14.3	13.5	2.42	339.3	428.6	827.6	793.0	34.57	23.940		
12,203.6	11,902.0	11,525.0	11,492.5	14.3	13.5	2.39	339.3	428.6	830.7	796.2	34.52	24.062		
12,281.4	11,902.0	11,510.4	11,479.8	14.3	13.5	-3.34	332.2	429.0	898.9	864.8	34.02	26.420		
12,300.0	11,902.0	11,500.0	11,470.5	14.3	13.5	-3.30	327.4	429.3	915.4	881.3	34.07	26.864		

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

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COMPASS 5000.15 Build 91E

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	3.0	-90.49	-0.3	-33.1	33.1					
100.0	100.0	99.5	99.5	3.0	3.0	3.0	-90.49	-0.3	-33.1	33.1	27.1	6.00	5.510		
200.0	200.0	199.5	199.5	3.0	3.0	3.0	-90.49	-0.3	-33.1	33.1	27.1	6.00	5.508		
300.0	300.0	299.5	299.5	3.0	3.0	3.0	-90.49	-0.3	-33.1	33.1	27.1	6.01	5.502		
400.0	400.0	399.5	399.5	3.0	3.0	3.0	-90.49	-0.3	-33.1	33.1	27.0	6.02	5.494		
500.0	500.0	499.5	499.5	3.1	3.1	3.1	-90.49	-0.3	-33.1	33.1	27.0	6.03	5.482		
600.0	600.0	599.5	599.5	3.1	3.1	3.1	-90.49	-0.3	-33.1	33.1	27.0	6.05	5.468		
700.0	700.0	699.5	699.5	3.1	3.1	3.1	-90.49	-0.3	-33.1	33.1	27.0	6.07	5.451		
800.0	800.0	799.5	799.5	3.2	3.2	3.2	-90.49	-0.3	-33.1	33.1	27.0	6.09	5.431		
900.0	900.0	899.5	899.5	3.2	3.2	3.2	-90.49	-0.3	-33.1	33.1	26.9	6.11	5.409		
1,000.0	1,000.0	999.5	999.5	3.2	3.2	3.2	-90.49	-0.3	-33.1	33.1	26.9	6.14	5.384		
1,100.0	1,100.0	1,099.5	1,099.5	3.3	3.3	3.3	-90.49	-0.3	-33.1	33.1	26.9	6.17	5.357		
1,200.0	1,200.0	1,199.5	1,199.5	3.4	3.4	3.4	-90.49	-0.3	-33.1	33.1	26.9	6.21	5.328		
1,300.0	1,300.0	1,299.5	1,299.5	3.4	3.4	3.4	-90.49	-0.3	-33.1	33.1	26.8	6.24	5.296		
1,400.0	1,400.0	1,399.5	1,399.5	3.5	3.5	3.5	-90.49	-0.3	-33.1	33.1	26.8	6.28	5.262		
1,500.0	1,500.0	1,499.5	1,499.5	3.5	3.5	3.5	-90.49	-0.3	-33.1	33.1	26.7	6.33	5.227		
1,600.0	1,600.0	1,599.5	1,599.5	3.6	3.6	3.6	-90.49	-0.3	-33.1	33.1	26.7	6.37	5.189		
1,700.0	1,700.0	1,699.5	1,699.5	3.7	3.7	3.7	-90.49	-0.3	-33.1	33.1	26.6	6.42	5.150		
1,800.0	1,800.0	1,799.5	1,799.5	3.8	3.8	3.8	-90.49	-0.3	-33.1	33.1	26.6	6.47	5.110		
1,900.0	1,900.0	1,899.5	1,899.5	3.9	3.9	3.9	-90.49	-0.3	-33.1	33.1	26.5	6.52	5.068		
2,000.0	2,000.0	1,999.5	1,999.5	3.9	3.9	3.9	-90.49	-0.3	-33.1	33.1	26.5	6.58	5.025		
2,100.0	2,100.0	2,099.5	2,099.5	4.0	4.0	4.0	-90.49	-0.3	-33.1	33.1	26.4	6.64	4.980		
2,200.0	2,200.0	2,199.5	2,199.5	4.1	4.1	4.1	-90.49	-0.3	-33.1	33.1	26.4	6.70	4.935		
2,300.0	2,300.0	2,299.5	2,299.5	4.2	4.2	4.2	-90.49	-0.3	-33.1	33.1	26.3	6.76	4.889		
2,400.0	2,400.0	2,399.5	2,399.5	4.3	4.3	4.3	-90.49	-0.3	-33.1	33.1	26.2	6.83	4.842		
2,500.0	2,500.0	2,499.5	2,499.5	4.4	4.4	4.4	-90.49	-0.3	-33.1	33.1	26.2	6.90	4.794 CC, ES		
2,600.0	2,600.0	2,599.9	2,599.9	4.5	4.5	4.5	-166.17	1.3	-32.4	34.1	27.1	6.97	4.893		
2,700.0	2,699.8	2,699.8	2,699.8	4.5	4.6	4.6	-163.15	4.5	-31.0	37.9	30.9	7.04	5.384		
2,800.0	2,799.5	2,799.6	2,799.4	4.6	4.7	4.7	-162.13	7.7	-29.6	45.1	38.0	7.12	6.343		
2,900.0	2,898.7	2,899.0	2,898.8	4.6	4.8	4.8	-162.50	10.9	-28.2	55.7	48.5	7.19	7.742		
3,000.0	2,997.7	2,998.3	2,998.0	4.7	4.9	4.9	-163.24	14.1	-26.8	67.9	60.6	7.27	9.331		
3,100.0	3,096.8	3,097.5	3,097.2	4.7	5.0	5.0	-163.75	17.2	-25.4	80.1	72.7	7.36	10.875		
3,200.0	3,195.8	3,196.8	3,196.4	4.8	5.1	5.1	-164.13	20.4	-24.1	92.3	84.8	7.46	12.372		
3,300.0	3,294.8	3,296.0	3,295.6	4.8	5.2	5.2	-164.42	23.6	-22.7	104.5	96.9	7.56	13.821		
3,400.0	3,393.8	3,395.3	3,394.8	4.9	5.3	5.3	-164.65	26.8	-21.3	116.7	109.0	7.67	15.222		
3,500.0	3,492.9	3,494.5	3,494.0	5.0	5.4	5.4	-164.83	29.9	-19.9	128.9	121.2	7.78	16.575		
3,600.0	3,591.9	3,593.8	3,593.1	5.1	5.5	5.5	-164.98	33.1	-18.5	141.1	133.3	7.89	17.880		
3,700.0	3,690.9	3,693.0	3,692.3	5.1	5.6	5.6	-165.11	36.3	-17.1	153.4	145.4	8.01	19.138		
3,800.0	3,789.9	3,791.5	3,790.8	5.2	5.7	5.7	-165.36	39.1	-15.9	165.7	157.6	8.14	20.360		
3,900.0	3,889.0	3,889.6	3,888.8	5.3	5.8	5.8	-166.06	40.3	-15.4	178.7	170.4	8.28	21.578		
4,000.0	3,988.0	3,988.2	3,987.5	5.4	5.9	5.9	-167.03	40.4	-15.4	192.2	183.8	8.43	22.792		
4,100.0	4,087.0	4,087.3	4,086.5	5.5	6.0	6.0	-167.90	40.4	-15.4	205.8	197.2	8.59	23.967		
4,200.0	4,186.0	4,186.3	4,185.5	5.5	6.1	6.1	-168.66	40.4	-15.4	219.5	210.7	8.74	25.099		
4,300.0	4,285.1	4,285.3	4,284.6	5.6	6.2	6.2	-169.34	40.4	-15.4	233.1	224.2	8.90	26.188		
4,400.0	4,384.1	4,384.3	4,383.6	5.7	6.3	6.3	-169.93	40.4	-15.4	246.8	237.8	9.06	27.236		
4,500.0	4,483.1	4,483.4	4,482.6	5.8	6.5	6.5	-170.47	40.4	-15.4	260.5	251.3	9.22	28.245		
4,600.0	4,582.2	4,582.4	4,581.7	5.9	6.6	6.6	-170.95	40.4	-15.4	274.3	264.9	9.39	29.216		
4,700.0	4,681.2	4,681.4	4,680.7	6.0	6.7	6.7	-171.38	40.4	-15.4	288.0	278.5	9.55	30.152		
4,800.0	4,780.2	4,780.5	4,779.7	6.1	6.8	6.8	-171.78	40.4	-15.4	301.8	292.1	9.72	31.052		
4,900.0	4,879.2	4,879.5	4,878.7	6.2	6.9	6.9	-172.14	40.4	-15.4	315.6	305.7	9.89	31.920		
5,000.0	4,978.3	4,978.5	4,977.8	6.3	7.0	7.0	-172.47	40.4	-15.4	329.4	319.3	10.06	32.755		
5,100.0	5,077.3	5,077.5	5,076.8	6.4	7.2	7.2	-172.78	40.4	-15.4	343.2	333.0	10.23	33.560		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,200.0	5,176.3	5,176.6	5,175.8	6.5	7.3	-173.06	40.4	-15.4	357.0	346.6	10.40	34.336		
5,300.0	5,275.3	5,275.6	5,274.8	6.6	7.4	-173.32	40.4	-15.4	370.8	360.3	10.57	35.084		
5,400.0	5,374.4	5,374.6	5,373.9	6.7	7.5	-173.56	40.4	-15.4	384.6	373.9	10.74	35.805		
5,487.6	5,461.2	5,461.4	5,460.7	6.8	7.6	-173.76	40.4	-15.4	396.8	385.9	10.90	36.416		
5,500.0	5,473.4	5,473.6	5,472.9	6.8	7.6	-173.78	40.4	-15.4	398.5	387.6	10.92	36.500		
5,600.0	5,572.6	5,572.8	5,572.1	6.9	7.8	-173.99	40.4	-15.4	411.2	400.1	11.09	37.077		
5,700.0	5,672.0	5,672.2	5,671.5	7.0	7.9	-174.16	40.4	-15.4	422.3	411.0	11.27	37.485		
5,800.0	5,771.5	5,771.8	5,771.0	7.2	8.0	-174.30	40.4	-15.4	431.6	420.2	11.44	37.731		
5,900.0	5,871.2	5,871.5	5,870.7	7.3	8.1	-174.40	40.4	-15.4	439.2	427.6	11.61	37.823		
6,000.0	5,971.0	5,971.3	5,970.5	7.4	8.2	-174.48	40.4	-15.4	445.1	433.3	11.78	37.766		
6,100.0	6,071.0	6,071.2	6,070.5	7.5	8.4	-174.54	40.4	-15.4	449.2	437.2	11.96	37.568		
6,200.0	6,170.9	6,171.2	6,170.4	7.6	8.5	-174.57	40.4	-15.4	451.6	439.5	12.13	37.234		
6,287.6	6,258.6	6,258.8	6,258.1	7.6	8.6	-96.81	40.4	-15.4	452.2	440.0	12.25	36.912		
6,300.0	6,270.9	6,271.2	6,270.4	7.7	8.6	-96.81	40.4	-15.4	452.2	440.0	12.27	36.871		
6,400.0	6,370.9	6,371.2	6,370.4	7.7	8.7	-96.81	40.4	-15.4	452.2	439.9	12.38	36.539		
6,500.0	6,470.9	6,471.2	6,470.4	7.8	8.9	-96.81	40.4	-15.4	452.2	439.8	12.49	36.211		
6,600.0	6,570.9	6,571.2	6,570.4	7.9	9.0	-96.81	40.4	-15.4	452.2	439.6	12.60	35.888		
6,700.0	6,670.9	6,671.2	6,670.4	8.0	9.1	-96.81	40.4	-15.4	452.2	439.5	12.71	35.568		
6,800.0	6,770.9	6,771.2	6,770.4	8.2	9.2	-96.81	40.4	-15.4	452.2	439.4	12.83	35.253		
6,900.0	6,870.9	6,871.2	6,870.4	8.3	9.4	-96.81	40.4	-15.4	452.2	439.3	12.94	34.941		
7,000.0	6,970.9	6,971.2	6,970.4	8.4	9.5	-96.81	40.4	-15.4	452.2	439.2	13.06	34.634		
7,100.0	7,070.9	7,071.2	7,070.4	8.5	9.6	-96.81	40.4	-15.4	452.2	439.1	13.17	34.331		
7,200.0	7,170.9	7,171.2	7,170.4	8.6	9.7	-96.81	40.4	-15.4	452.2	439.0	13.29	34.031		
7,300.0	7,270.9	7,271.2	7,270.4	8.7	9.9	-96.81	40.4	-15.4	452.2	438.8	13.41	33.736		
7,400.0	7,370.9	7,371.2	7,370.4	8.8	10.0	-96.81	40.4	-15.4	452.2	438.7	13.52	33.444		
7,500.0	7,470.9	7,471.2	7,470.4	8.9	10.1	-96.81	40.4	-15.4	452.2	438.6	13.64	33.157		
7,600.0	7,570.9	7,571.2	7,570.4	9.0	10.2	-96.81	40.4	-15.4	452.2	438.5	13.76	32.873		
7,700.0	7,670.9	7,671.2	7,670.4	9.1	10.4	-96.81	40.4	-15.4	452.2	438.4	13.88	32.593		
7,800.0	7,770.9	7,771.2	7,770.4	9.2	10.5	-96.81	40.4	-15.4	452.2	438.3	13.99	32.316		
7,900.0	7,870.9	7,871.2	7,870.4	9.3	10.6	-96.81	40.4	-15.4	452.2	438.1	14.11	32.044		
8,000.0	7,970.9	7,971.2	7,970.4	9.4	10.7	-96.81	40.4	-15.4	452.2	438.0	14.23	31.775		
8,100.0	8,070.9	8,071.2	8,070.4	9.5	10.9	-96.81	40.4	-15.4	452.2	437.9	14.35	31.509		
8,200.0	8,170.9	8,171.2	8,170.4	9.6	11.0	-96.81	40.4	-15.4	452.2	437.8	14.47	31.247		
8,300.0	8,270.9	8,271.2	8,270.4	9.8	11.1	-96.81	40.4	-15.4	452.2	437.7	14.59	30.989		
8,400.0	8,370.9	8,371.2	8,370.4	9.9	11.2	-96.81	40.4	-15.4	452.2	437.5	14.72	30.734		
8,500.0	8,470.9	8,471.2	8,470.4	10.0	11.4	-96.81	40.4	-15.4	452.2	437.4	14.84	30.482		
8,600.0	8,570.9	8,571.2	8,570.4	10.1	11.5	-96.81	40.4	-15.4	452.2	437.3	14.96	30.234		
8,700.0	8,670.9	8,671.2	8,670.4	10.2	11.6	-96.81	40.4	-15.4	452.2	437.2	15.08	29.989		
8,800.0	8,770.9	8,771.2	8,770.4	10.3	11.8	-96.81	40.4	-15.4	452.2	437.0	15.20	29.747		
8,900.0	8,870.9	8,871.2	8,870.4	10.4	11.9	-96.81	40.4	-15.4	452.2	436.9	15.33	29.509		
9,000.0	8,970.9	8,971.2	8,970.4	10.5	12.0	-96.81	40.4	-15.4	452.2	436.8	15.45	29.274		
9,100.0	9,070.9	9,071.2	9,070.4	10.7	12.1	-96.81	40.4	-15.4	452.2	436.7	15.57	29.042		
9,200.0	9,170.9	9,171.2	9,170.4	10.8	12.3	-96.81	40.4	-15.4	452.2	436.6	15.70	28.813		
9,300.0	9,270.9	9,271.2	9,270.4	10.9	12.4	-96.81	40.4	-15.4	452.2	436.4	15.82	28.587		
9,400.0	9,370.9	9,371.2	9,370.4	11.0	12.5	-96.81	40.4	-15.4	452.2	436.3	15.94	28.364		
9,500.0	9,470.9	9,471.2	9,470.4	11.1	12.6	-96.81	40.4	-15.4	452.2	436.2	16.07	28.144		
9,600.0	9,570.9	9,571.2	9,570.4	11.2	12.8	-96.81	40.4	-15.4	452.2	436.1	16.19	27.927		
9,700.0	9,670.9	9,671.2	9,670.4	11.3	12.9	-96.81	40.4	-15.4	452.2	435.9	16.32	27.712		
9,800.0	9,770.9	9,771.2	9,770.4	11.5	13.0	-96.81	40.4	-15.4	452.2	435.8	16.44	27.501		
9,900.0	9,870.9	9,871.2	9,870.4	11.6	13.2	-96.81	40.4	-15.4	452.2	435.7	16.57	27.292		
10,000.0	9,970.9	9,971.2	9,970.4	11.7	13.3	-96.81	40.4	-15.4	452.2	435.6	16.70	27.086		
10,100.0	10,070.9	10,071.2	10,070.4	11.8	13.4	-96.81	40.4	-15.4	452.2	435.4	16.82	26.883		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres		Minimum Separation	Separation Factor	Warning
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
10,200.0	10,170.9	10,171.2	10,170.4	11.9	13.5	-96.81		40.4	-15.4	452.2	435.3	16.95	26.682	
10,300.0	10,270.9	10,271.2	10,270.4	12.0	13.7	-96.81		40.4	-15.4	452.2	435.2	17.08	26.484	
10,400.0	10,370.9	10,371.2	10,370.4	12.2	13.8	-96.81		40.4	-15.4	452.2	435.0	17.20	26.289	
10,500.0	10,470.9	10,471.2	10,470.4	12.3	13.9	-96.81		40.4	-15.4	452.2	434.9	17.33	26.096	
10,600.0	10,570.9	10,571.2	10,570.4	12.4	14.1	-96.81		40.4	-15.4	452.2	434.8	17.46	25.905	
10,700.0	10,670.9	10,671.2	10,670.4	12.5	14.2	-96.81		40.4	-15.4	452.2	434.7	17.59	25.717	
10,800.0	10,770.9	10,771.2	10,770.4	12.6	14.3	-96.81		40.4	-15.4	452.2	434.5	17.71	25.531	
10,900.0	10,870.9	10,871.2	10,870.4	12.8	14.4	-96.81		40.4	-15.4	452.2	434.4	17.84	25.348	
11,000.0	10,970.9	10,971.2	10,970.4	12.9	14.6	-96.81		40.4	-15.4	452.2	434.3	17.97	25.167	
11,100.0	11,070.9	11,071.2	11,070.4	13.0	14.7	-96.81		40.4	-15.4	452.2	434.2	18.08	25.014	
11,200.0	11,170.9	11,171.2	11,170.4	13.1	14.7	-96.81		40.4	-15.4	452.2	434.1	18.17	24.889	
11,205.7	11,176.6	11,176.8	11,176.1	13.1	14.7	-96.81		40.4	-15.4	452.2	434.1	18.18	24.883	
11,300.0	11,270.9	11,268.7	11,268.0	13.2	14.7	-96.87		39.9	-15.4	452.3	434.0	18.28	24.744	
11,400.0	11,370.9	11,357.1	11,355.3	13.4	14.7	-98.41		27.6	-15.3	454.1	435.5	18.67	24.327	
11,453.6	11,424.5	11,400.0	11,396.6	13.4	14.8	-99.87		15.9	-15.2	456.5	437.5	18.96	24.073	
11,475.0	11,445.9	11,419.0	11,414.5	13.4	14.8	76.44		9.5	-15.2	457.7	438.6	19.12	23.935	
11,500.0	11,470.8	11,439.0	11,433.1	13.4	14.8	75.52		2.0	-15.1	459.1	439.8	19.34	23.746	
11,525.0	11,495.7	11,458.8	11,451.1	13.5	14.8	74.63		-6.1	-15.1	460.6	441.0	19.56	23.541	
11,550.0	11,520.3	11,478.4	11,468.6	13.5	14.8	73.78		-14.9	-15.1	462.0	442.2	19.81	23.320	
11,575.0	11,544.6	11,500.0	11,487.5	13.5	14.8	72.90		-25.5	-15.0	463.4	443.3	20.05	23.113	
11,600.0	11,568.6	11,517.1	11,502.1	13.6	14.8	72.20		-34.4	-14.9	464.7	444.3	20.35	22.833	
11,625.0	11,592.3	11,536.3	11,518.0	13.6	14.9	71.47		-45.0	-14.9	466.0	445.3	20.65	22.570	
11,650.0	11,615.4	11,555.3	11,533.4	13.6	14.9	70.78		-56.2	-14.8	467.2	446.2	20.95	22.296	
11,675.0	11,638.1	11,575.0	11,548.9	13.7	14.9	70.11		-68.4	-14.8	468.3	447.1	21.26	22.027	
11,700.0	11,660.1	11,592.9	11,562.5	13.7	14.9	69.52		-80.0	-14.7	469.4	447.7	21.61	21.722	
11,725.0	11,681.5	11,611.6	11,576.2	13.7	14.9	68.96		-92.7	-14.6	470.3	448.3	21.95	21.428	
11,750.0	11,702.2	11,630.1	11,589.3	13.8	14.9	68.44		-105.8	-14.5	471.1	448.8	22.29	21.131	
11,775.0	11,722.2	11,650.0	11,602.8	13.8	15.0	67.94		-120.4	-14.5	471.8	449.2	22.62	20.859	
11,800.0	11,741.3	11,667.0	11,613.9	13.8	15.0	67.53		-133.3	-14.4	472.4	449.4	23.00	20.542	
11,825.0	11,759.6	11,685.3	11,625.2	13.9	15.0	67.15		-147.6	-14.3	472.8	449.5	23.35	20.253	
11,850.0	11,776.9	11,703.6	11,636.0	13.9	15.0	66.80		-162.4	-14.2	473.1	449.4	23.69	19.970	
11,875.0	11,793.3	11,725.0	11,648.0	14.0	15.0	66.46		-180.2	-14.1	473.3	449.3	23.98	19.740	
11,900.0	11,808.7	11,739.9	11,655.8	14.0	15.0	66.26		-192.9	-14.1	473.3	448.9	24.36	19.428	
11,925.0	11,823.0	11,758.0	11,664.7	14.0	15.1	66.05		-208.6	-14.0	473.1	448.4	24.68	19.172	
11,950.0	11,836.2	11,775.0	11,672.6	14.0	15.1	65.90		-223.6	-13.9	472.8	447.8	24.99	18.915	
11,975.0	11,848.3	11,794.1	11,680.8	14.1	15.1	65.78		-240.9	-13.8	472.3	447.0	25.26	18.695	
12,000.0	11,859.2	11,812.1	11,687.9	14.1	15.1	65.71		-257.4	-13.7	471.6	446.1	25.53	18.475	
12,025.0	11,869.0	11,830.1	11,694.3	14.1	15.1	65.69		-274.2	-13.6	470.8	445.0	25.77	18.268	
12,050.0	11,877.5	11,850.0	11,700.7	14.2	15.1	65.70		-293.1	-13.5	469.8	443.9	25.97	18.089	
12,075.0	11,884.8	11,866.0	11,705.3	14.2	15.1	65.78		-308.5	-13.4	468.7	442.5	26.19	17.898	
12,100.0	11,890.8	11,884.0	11,709.8	14.2	15.2	65.90		-325.9	-13.3	467.4	441.0	26.35	17.734	
12,125.0	11,895.5	11,900.0	11,713.3	14.2	15.2	66.07		-341.5	-13.2	465.9	439.4	26.50	17.580	
12,150.0	11,899.0	11,920.0	11,716.9	14.2	15.2	66.28		-361.1	-13.1	464.3	437.7	26.60	17.452	
12,175.0	11,901.1	11,938.0	11,719.4	14.2	15.2	66.54		-379.0	-13.0	462.5	435.8	26.68	17.334	
12,200.0	11,902.0	11,956.0	11,721.3	14.3	15.2	66.85		-396.9	-12.9	460.5	433.8	26.73	17.231	
12,203.6	11,902.0	11,958.6	11,721.5	14.3	15.2	66.90		-399.5	-12.9	460.2	433.5	26.73	17.217	
12,281.4	11,902.0	12,022.2	11,723.0	14.3	15.2	67.04		-463.0	-12.5	457.5	430.4	27.07	16.900	
12,300.0	11,902.0	12,040.8	11,723.0	14.3	15.2	67.03		-481.6	-12.4	457.5	430.3	27.17	16.836	
12,400.0	11,902.0	12,140.8	11,723.0	14.4	15.2	67.03		-581.6	-11.9	457.5	429.7	27.76	16.479	
12,500.0	11,902.0	12,240.8	11,723.0	14.4	15.3	67.03		-681.6	-11.3	457.5	429.0	28.44	16.084	
12,600.0	11,902.0	12,340.8	11,723.0	14.5	15.3	67.03		-781.6	-10.8	457.5	428.3	29.20	15.668	
12,700.0	11,902.0	12,440.8	11,723.0	14.6	15.3	67.03		-881.6	-10.2	457.4	427.4	30.02	15.238	

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR							Rule Assigned:						Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,800.0	11,902.0	12,540.8	11,723.0	14.7	15.4	67.03	-981.6	-9.6	457.4	426.5	30.91	14.801		
12,900.0	11,902.0	12,640.8	11,723.0	14.9	15.4	67.03	-1,081.6	-9.1	457.4	425.6	31.85	14.362		
13,000.0	11,902.0	12,740.8	11,723.0	15.1	15.4	67.03	-1,181.6	-8.5	457.4	424.6	32.84	13.927		
13,100.0	11,902.0	12,840.8	11,723.0	15.4	15.5	67.03	-1,281.6	-8.0	457.4	423.5	33.89	13.498		
13,200.0	11,902.0	12,940.8	11,723.0	15.8	15.6	67.03	-1,381.6	-7.4	457.4	422.4	34.97	13.078		
13,300.0	11,902.0	13,040.8	11,723.0	16.2	16.0	67.03	-1,481.6	-6.8	457.4	421.3	36.10	12.670		
13,400.0	11,902.0	13,140.8	11,723.0	16.7	16.6	67.03	-1,581.6	-6.3	457.4	420.1	37.26	12.275		
13,500.0	11,902.0	13,240.8	11,723.0	17.3	17.3	67.03	-1,681.6	-5.7	457.3	418.9	38.45	11.893		
13,600.0	11,902.0	13,340.8	11,723.0	17.8	18.1	67.03	-1,781.6	-5.2	457.3	417.7	39.68	11.526		
13,700.0	11,902.0	13,440.8	11,723.0	18.4	18.8	67.03	-1,881.6	-4.6	457.3	416.4	40.93	11.174		
13,800.0	11,902.0	13,540.8	11,723.0	19.0	19.6	67.03	-1,981.6	-4.0	457.3	415.1	42.20	10.836		
13,900.0	11,902.0	13,640.8	11,723.0	19.7	20.4	67.02	-2,081.6	-3.5	457.3	413.8	43.50	10.512		
14,000.0	11,902.0	13,740.8	11,723.0	20.3	21.2	67.02	-2,181.6	-2.9	457.3	412.5	44.82	10.203		
14,100.0	11,902.0	13,840.8	11,723.0	21.0	21.9	67.02	-2,281.6	-2.4	457.3	411.1	46.16	9.907		
14,200.0	11,902.0	13,940.8	11,723.0	21.6	22.7	67.02	-2,381.6	-1.8	457.3	409.7	47.51	9.625		
14,300.0	11,902.0	14,040.8	11,723.0	22.3	23.5	67.02	-2,481.6	-1.2	457.2	408.4	48.88	9.355		
14,400.0	11,902.0	14,140.8	11,723.0	23.0	24.3	67.02	-2,581.6	-0.7	457.2	407.0	50.26	9.097		
14,500.0	11,902.0	14,240.8	11,723.0	23.7	25.1	67.02	-2,681.6	-0.1	457.2	405.6	51.66	8.851		
14,600.0	11,902.0	14,340.8	11,723.0	24.4	25.9	67.02	-2,781.6	0.4	457.2	404.1	53.07	8.615		
14,700.0	11,902.0	14,440.8	11,723.0	25.1	26.8	67.02	-2,881.6	1.0	457.2	402.7	54.49	8.391		
14,800.0	11,902.0	14,540.8	11,723.0	25.8	27.6	67.02	-2,981.6	1.6	457.2	401.3	55.92	8.176		
14,900.0	11,902.0	14,640.8	11,723.0	26.5	28.4	67.02	-3,081.6	2.1	457.2	399.8	57.36	7.970		
15,000.0	11,902.0	14,740.8	11,723.0	27.2	29.2	67.02	-3,181.6	2.7	457.2	398.3	58.81	7.773		
15,100.0	11,902.0	14,840.8	11,723.0	27.9	30.0	67.02	-3,281.6	3.2	457.1	396.9	60.27	7.585		
15,200.0	11,902.0	14,940.8	11,723.0	28.6	30.8	67.02	-3,381.6	3.8	457.1	395.4	61.73	7.405		
15,300.0	11,902.0	15,040.8	11,723.0	29.3	31.7	67.02	-3,481.6	4.3	457.1	393.9	63.21	7.232		
15,400.0	11,902.0	15,140.8	11,723.0	30.1	32.5	67.01	-3,581.6	4.9	457.1	392.4	64.69	7.067		
15,500.0	11,902.0	15,240.8	11,723.0	30.8	33.3	67.01	-3,681.6	5.5	457.1	390.9	66.17	6.908		
15,600.0	11,902.0	15,340.8	11,723.0	31.5	34.2	67.01	-3,781.6	6.0	457.1	389.4	67.66	6.755		
15,700.0	11,902.0	15,440.8	11,723.0	32.2	35.0	67.01	-3,881.6	6.6	457.1	387.9	69.16	6.609		
15,800.0	11,902.0	15,540.8	11,723.0	33.0	35.8	67.01	-3,981.6	7.1	457.1	386.4	70.66	6.468		
15,900.0	11,902.0	15,640.8	11,723.0	33.7	36.7	67.01	-4,081.6	7.7	457.0	384.9	72.17	6.333		
16,000.0	11,902.0	15,740.8	11,723.0	34.4	37.5	67.01	-4,181.6	8.3	457.0	383.4	73.68	6.203		
16,100.0	11,902.0	15,840.8	11,723.0	35.2	38.3	67.01	-4,281.6	8.8	457.0	381.8	75.19	6.078		
16,200.0	11,902.0	15,940.8	11,723.0	35.9	39.2	67.01	-4,381.6	9.4	457.0	380.3	76.71	5.957		
16,300.0	11,902.0	16,040.8	11,723.0	36.6	40.0	67.01	-4,481.6	9.9	457.0	378.8	78.24	5.841		
16,400.0	11,902.0	16,140.8	11,723.0	37.4	40.8	67.01	-4,581.6	10.5	457.0	377.2	79.76	5.729		
16,500.0	11,902.0	16,240.8	11,723.0	38.1	41.7	67.01	-4,681.6	11.1	457.0	375.7	81.29	5.621		
16,600.0	11,902.0	16,340.8	11,723.0	38.9	42.5	67.01	-4,781.6	11.6	457.0	374.1	82.83	5.517		
16,700.0	11,902.0	16,440.8	11,723.0	39.6	43.4	67.01	-4,881.6	12.2	456.9	372.6	84.36	5.416		
16,800.0	11,902.0	16,540.8	11,723.0	40.3	44.2	67.01	-4,981.6	12.7	456.9	371.0	85.90	5.319		
16,900.0	11,902.0	16,640.8	11,723.0	41.1	45.0	67.00	-5,081.6	13.3	456.9	369.5	87.44	5.225		
17,000.0	11,902.0	16,740.8	11,723.0	41.8	45.9	67.00	-5,181.6	13.9	456.9	367.9	88.99	5.135		
17,100.0	11,902.0	16,840.8	11,723.0	42.6	46.7	67.00	-5,281.6	14.4	456.9	366.4	90.53	5.047		
17,200.0	11,902.0	16,940.8	11,723.0	43.3	47.6	67.00	-5,381.6	15.0	456.9	364.8	92.08	4.962		
17,300.0	11,902.0	17,040.8	11,723.0	44.0	48.4	67.00	-5,481.6	15.5	456.9	363.2	93.63	4.879		
17,400.0	11,902.0	17,140.8	11,723.0	44.8	49.3	67.00	-5,581.6	16.1	456.9	361.7	95.19	4.800		
17,500.0	11,902.0	17,240.8	11,723.0	45.5	50.1	67.00	-5,681.6	16.7	456.8	360.1	96.74	4.722		
17,600.0	11,902.0	17,340.8	11,723.0	46.3	51.0	67.00	-5,781.6	17.2	456.8	358.5	98.30	4.648		
17,700.0	11,902.0	17,440.8	11,723.0	47.0	51.8	67.00	-5,881.6	17.8	456.8	357.0	99.86	4.575		
17,800.0	11,902.0	17,540.8	11,723.0	47.8	52.6	67.00	-5,981.6	18.3	456.8	355.4	101.42	4.504		
17,900.0	11,902.0	17,640.8	11,723.0	48.5	53.5	67.00	-6,081.6	18.9	456.8	353.8	102.98	4.436		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - ZIA HILLS 20 FED COM #114H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11028-MWD+IFR1+FDIR							Rule Assigned:						Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,000.0	11,902.0	17,740.8	11,723.0	49.3	54.3	67.00	-6,181.6	19.5	456.8	352.2	104.54	4.369		
18,100.0	11,902.0	17,840.8	11,723.0	50.0	55.2	67.00	-6,281.6	20.0	456.8	350.7	106.11	4.305		
18,200.0	11,902.0	17,940.8	11,723.0	50.8	56.0	67.00	-6,381.6	20.6	456.8	349.1	107.67	4.242		
18,300.0	11,902.0	18,040.8	11,723.0	51.5	56.9	67.00	-6,481.6	21.1	456.7	347.5	109.24	4.181		
18,400.0	11,902.0	18,140.8	11,723.0	52.3	57.7	66.99	-6,581.6	21.7	456.7	345.9	110.81	4.122		
18,500.0	11,902.0	18,240.8	11,723.0	53.0	58.6	66.99	-6,681.5	22.3	456.7	344.3	112.38	4.064		
18,600.0	11,902.0	18,340.8	11,723.0	53.8	59.4	66.99	-6,781.5	22.8	456.7	342.8	113.95	4.008		
18,700.0	11,902.0	18,440.8	11,723.0	54.5	60.3	66.99	-6,881.5	23.4	456.7	341.2	115.52	3.953		
18,800.0	11,902.0	18,540.8	11,723.0	55.3	61.1	66.99	-6,981.5	23.9	456.7	339.6	117.10	3.900		
18,900.0	11,902.0	18,640.8	11,723.0	56.0	62.0	66.99	-7,081.5	24.5	456.7	338.0	118.67	3.848		
19,000.0	11,902.0	18,740.8	11,723.0	56.8	62.8	66.99	-7,181.5	25.1	456.7	336.4	120.25	3.798		
19,100.0	11,902.0	18,840.8	11,723.0	57.5	63.7	66.99	-7,281.5	25.6	456.6	334.8	121.82	3.749		
19,200.0	11,902.0	18,940.8	11,723.0	58.3	64.5	66.99	-7,381.5	26.2	456.6	333.2	123.40	3.700		
19,300.0	11,902.0	19,040.8	11,723.0	59.0	65.4	66.99	-7,481.5	26.7	456.6	331.6	124.98	3.654		
19,400.0	11,902.0	19,140.8	11,723.0	59.8	66.2	66.99	-7,581.5	27.3	456.6	330.1	126.56	3.608		
19,500.0	11,902.0	19,240.8	11,723.0	60.6	67.1	66.99	-7,681.5	27.9	456.6	328.5	128.14	3.563		
19,600.0	11,902.0	19,340.8	11,723.0	61.3	67.9	66.99	-7,781.5	28.4	456.6	326.9	129.72	3.520		
19,700.0	11,902.0	19,440.8	11,723.0	62.1	68.8	66.99	-7,881.5	29.0	456.6	325.3	131.30	3.477		
19,800.0	11,902.0	19,540.8	11,723.0	62.8	69.6	66.99	-7,981.5	29.5	456.6	323.7	132.88	3.436		
19,900.0	11,902.0	19,640.8	11,723.0	63.6	70.5	66.98	-8,081.5	30.1	456.6	322.1	134.46	3.395		
20,000.0	11,902.0	19,740.8	11,723.0	64.3	71.3	66.98	-8,181.5	30.6	456.5	320.5	136.05	3.356		
20,100.0	11,902.0	19,840.8	11,723.0	65.1	72.2	66.98	-8,281.5	31.2	456.5	318.9	137.63	3.317		
20,200.0	11,902.0	19,940.8	11,723.0	65.8	73.0	66.98	-8,381.5	31.8	456.5	317.3	139.22	3.279		
20,300.0	11,902.0	20,040.8	11,723.0	66.6	73.9	66.98	-8,481.5	32.3	456.5	315.7	140.80	3.242		
20,400.0	11,902.0	20,140.8	11,723.0	67.3	74.7	66.98	-8,581.5	32.9	456.5	314.1	142.39	3.206		
20,500.0	11,902.0	20,240.8	11,723.0	68.1	75.6	66.98	-8,681.5	33.4	456.5	312.5	143.98	3.170		
20,600.0	11,902.0	20,340.8	11,723.0	68.9	76.4	66.98	-8,781.5	34.0	456.5	310.9	145.56	3.136		
20,700.0	11,902.0	20,440.8	11,723.0	69.6	77.3	66.98	-8,881.5	34.6	456.5	309.3	147.15	3.102		
20,800.0	11,902.0	20,540.8	11,723.0	70.4	78.2	66.98	-8,981.5	35.1	456.4	307.7	148.74	3.069		
20,900.0	11,902.0	20,640.8	11,723.0	71.1	79.0	66.98	-9,081.5	35.7	456.4	306.1	150.33	3.036		
21,000.0	11,902.0	20,740.8	11,723.0	71.9	79.9	66.98	-9,181.5	36.2	456.4	304.5	151.92	3.004		
21,100.0	11,902.0	20,840.8	11,723.0	72.6	80.7	66.98	-9,281.5	36.8	456.4	302.9	153.51	2.973		
21,200.0	11,902.0	20,940.8	11,723.0	73.4	81.6	66.98	-9,381.5	37.4	456.4	301.3	155.10	2.943		
21,300.0	11,902.0	21,040.8	11,723.0	74.2	82.4	66.98	-9,481.5	37.9	456.4	299.7	156.69	2.913		
21,400.0	11,902.0	21,140.8	11,723.0	74.9	83.3	66.97	-9,581.5	38.5	456.4	298.1	158.28	2.883		
21,500.0	11,902.0	21,240.8	11,723.0	75.7	84.1	66.97	-9,681.5	39.0	456.4	296.5	159.87	2.854		
21,543.7	11,902.0	21,284.6	11,723.0	76.0	84.5	66.97	-9,725.3	39.3	456.3	295.8	160.57	2.842		
21,544.1	11,902.0	21,284.9	11,723.0	76.0	84.5	66.97	-9,725.6	39.3	456.3	295.8	160.57	2.842		
21,544.2	11,902.0	21,284.9	11,723.0	76.0	84.5	66.97	-9,725.6	39.3	456.3	295.8	160.58	2.842 SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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	Highside	Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
8,300.0	8,270.9	11,982.7	9,236.8	9.8	53.8	-100.75	75.0	333.8	986.4	943.4	43.03	22.922	
8,400.0	8,370.9	11,981.0	9,236.8	9.9	53.8	-99.80	76.8	333.8	887.0	843.7	43.35	20.463	
8,500.0	8,470.9	11,979.2	9,236.9	10.0	53.7	-98.81	78.5	333.9	787.8	744.1	43.69	18.032	
8,600.0	8,570.9	11,977.4	9,236.9	10.1	53.7	-97.77	80.4	333.9	688.7	644.6	44.07	15.628	
8,700.0	8,670.9	11,975.5	9,237.0	10.2	53.7	-96.67	82.3	333.9	590.0	545.4	44.52	13.250	
8,800.0	8,770.9	11,973.4	9,237.0	10.3	53.7	-95.53	84.3	333.9	491.7	446.6	45.11	10.901	
8,900.0	8,870.9	11,971.3	9,237.1	10.4	53.6	-94.33	86.4	334.0	394.3	348.4	45.94	8.583	
9,000.0	8,970.9	11,969.1	9,237.1	10.5	53.6	-93.07	88.6	334.0	298.7	251.3	47.37	6.305	
9,100.0	9,070.9	11,966.8	9,237.2	10.7	53.5	-91.75	90.9	334.0	207.1	156.8	50.31	4.117	
9,200.0	9,170.9	11,964.4	9,237.2	10.8	53.5	-90.37	93.4	334.1	128.8	71.9	56.85	2.265	
9,281.7	9,252.6	11,962.4	9,237.3	10.9	53.5	-89.19	95.4	334.1	99.6	38.1	61.54	1.619 Advise and Monitor, CC, ES, SF	
9,300.0	9,270.9	11,961.9	9,237.3	10.9	53.5	-88.92	95.9	334.1	101.3	39.7	61.56	1.645 Advise and Monitor	
9,400.0	9,370.9	11,959.2	9,237.4	11.0	53.4	-87.39	98.5	334.1	154.7	99.3	55.33	2.795	
9,500.0	9,470.9	11,956.5	9,237.4	11.1	53.4	-85.79	101.3	334.2	239.9	189.2	50.73	4.730	
9,600.0	9,570.9	11,953.5	9,237.5	11.2	53.3	-84.12	104.3	334.2	333.5	284.5	48.94	6.814	
9,700.0	9,670.9	11,950.4	9,237.6	11.3	53.3	-82.36	107.3	334.3	429.9	381.6	48.25	8.910	
9,800.0	9,770.9	11,947.2	9,237.7	11.5	53.2	-80.52	110.6	334.3	527.6	479.6	48.01	10.990	
9,900.0	9,870.9	11,943.7	9,237.8	11.6	53.2	-78.60	114.0	334.4	626.1	578.1	47.99	13.046	
10,000.0	9,970.9	11,940.1	9,237.9	11.7	53.1	-76.59	117.7	334.4	724.9	676.9	48.08	15.078	
10,100.0	10,070.9	11,936.2	9,238.0	11.8	53.1	-74.49	121.5	334.5	824.1	775.8	48.23	17.085	
10,200.0	10,170.9	11,932.1	9,238.2	11.9	53.0	-72.31	125.6	334.5	923.3	874.9	48.43	19.067	

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - BUCK 20 FEDERAL #5H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYRODATA-NS-GYRO-MS, 7936-MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N-S (usft)	+E-W (usft)						
8,200.0	8,170.9	10,759.7	8,834.3	9.6	41.2	-90.39	89.0	-298.4	988.2	943.7	44.50	22.207		
8,300.0	8,270.9	10,761.3	8,834.3	9.8	41.2	-90.52	87.4	-298.4	924.0	878.5	45.43	20.339		
8,400.0	8,370.9	10,762.8	8,834.3	9.9	41.3	-90.64	85.8	-298.3	866.6	820.2	46.35	18.699		
8,500.0	8,470.9	10,764.2	8,834.3	10.0	41.3	-90.75	84.4	-298.3	817.5	770.3	47.20	17.320		
8,600.0	8,570.9	10,765.6	8,834.4	10.1	41.3	-90.86	83.0	-298.3	778.1	730.2	47.93	16.233		
8,700.0	8,670.9	10,766.9	8,834.4	10.2	41.3	-90.96	81.7	-298.3	750.2	701.6	48.53	15.457		
8,800.0	8,770.9	10,768.3	8,834.4	10.3	41.3	-91.07	80.4	-298.2	734.8	685.8	49.00	14.996		
8,863.8	8,834.7	10,769.1	8,834.4	10.4	41.3	-91.13	79.5	-298.2	732.1	682.8	49.26	14.863 CC, ES		
8,900.0	8,870.9	10,769.6	8,834.4	10.4	41.4	-91.17	79.1	-298.2	733.0	683.6	49.38	14.842 SF		
9,000.0	8,970.9	10,770.8	8,834.4	10.5	41.4	-91.27	77.8	-298.2	744.6	695.0	49.68	14.989		
9,100.0	9,070.9	10,772.0	8,834.4	10.7	41.4	-91.36	76.6	-298.2	769.2	719.4	49.85	15.432		
9,200.0	9,170.9	10,773.2	8,834.5	10.8	41.4	-91.45	75.4	-298.1	805.6	755.7	49.86	16.156		
9,300.0	9,270.9	10,774.3	8,834.5	10.9	41.4	-91.54	74.3	-298.1	852.2	802.4	49.73	17.134		
9,400.0	9,370.9	10,775.4	8,834.5	11.0	41.4	-91.63	73.2	-298.1	907.4	857.9	49.51	18.329		
9,500.0	9,470.9	10,776.5	8,834.5	11.1	41.5	-91.71	72.2	-298.1	969.9	920.6	49.23	19.700		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #13H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR														Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Rule Assigned: Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	1.0	1.0	3.0	3.0	-50.10	495.6	-592.8	772.7						
100.0	100.0	101.0	101.0	3.0	3.0	-50.10	495.6	-592.8	772.7	766.7	6.00	128.709			
200.0	200.0	201.0	201.0	3.0	3.0	-50.10	495.6	-592.8	772.7	766.6	6.04	127.861			
300.0	300.0	301.0	301.0	3.0	3.1	-50.10	495.6	-592.8	772.7	766.5	6.13	126.104			
400.0	400.0	401.0	401.0	3.0	3.2	-50.10	495.6	-592.8	772.7	766.4	6.25	123.571			
500.0	500.0	501.0	501.0	3.1	3.4	-50.10	495.6	-592.8	772.7	766.2	6.42	120.431			
600.0	600.0	601.0	601.0	3.1	3.6	-50.10	495.6	-592.8	772.7	766.0	6.61	116.860			
700.0	700.0	701.0	701.0	3.1	3.8	-50.10	495.6	-592.8	772.7	765.8	6.84	113.016			
800.0	800.0	801.0	801.0	3.2	4.0	-50.10	495.6	-592.8	772.7	765.6	7.09	109.036			
900.0	900.0	901.0	901.0	3.2	4.2	-50.10	495.6	-592.8	772.7	765.3	7.36	105.022			
1,000.0	1,000.0	1,001.0	1,001.0	3.2	4.5	-50.10	495.6	-592.8	772.7	765.0	7.65	101.053			
1,100.0	1,100.0	1,101.0	1,101.0	3.3	4.8	-50.10	495.6	-592.8	772.7	764.7	7.95	97.182			
1,200.0	1,200.0	1,201.0	1,201.0	3.4	5.1	-50.10	495.6	-592.8	772.7	764.4	8.27	93.444			
1,300.0	1,300.0	1,301.0	1,301.0	3.4	5.4	-50.10	495.6	-592.8	772.7	764.1	8.60	89.861			
1,400.0	1,400.0	1,401.0	1,401.0	3.5	5.7	-50.10	495.6	-592.8	772.7	763.7	8.94	86.444			
1,500.0	1,500.0	1,501.0	1,501.0	3.5	6.0	-50.10	495.6	-592.8	772.7	763.4	9.29	83.197			
1,600.0	1,600.0	1,601.0	1,601.0	3.6	6.3	-50.10	495.6	-592.8	772.7	763.0	9.64	80.119			
1,700.0	1,700.0	1,701.0	1,701.0	3.7	6.6	-50.10	495.6	-592.8	772.7	762.6	10.01	77.206			
1,800.0	1,800.0	1,801.0	1,801.0	3.8	6.9	-50.10	495.6	-592.8	772.7	762.3	10.38	74.452			
1,900.0	1,900.0	1,901.0	1,901.0	3.9	7.2	-50.10	495.6	-592.8	772.7	761.9	10.75	71.850			
2,000.0	2,000.0	2,001.0	2,001.0	3.9	7.6	-50.10	495.6	-592.8	772.7	761.5	11.13	69.392			
2,100.0	2,100.0	2,101.0	2,101.0	4.0	7.9	-50.10	495.6	-592.8	772.7	761.1	11.52	67.069			
2,200.0	2,200.0	2,201.0	2,201.0	4.1	8.2	-50.10	495.6	-592.8	772.7	760.7	11.91	64.874			
2,300.0	2,300.0	2,301.0	2,301.0	4.2	8.6	-50.10	495.6	-592.8	772.7	760.4	12.30	62.798			
2,400.0	2,400.0	2,401.0	2,401.0	4.3	8.9	-50.10	495.6	-592.8	772.7	760.0	12.70	60.833			
2,416.3	2,416.3	2,417.3	2,417.3	4.3	9.0	-50.10	495.6	-592.8	772.7	759.9	12.77	60.523 CC			
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-50.10	495.6	-592.8	772.7	759.6	13.10	58.989 ES			
2,600.0	2,600.0	2,582.1	2,582.1	4.5	9.5	-127.97	495.8	-593.9	775.0	761.6	13.40	57.840			
2,700.0	2,699.8	2,663.0	2,662.9	4.5	9.8	-128.24	496.2	-597.4	781.8	768.2	13.65	57.271			
2,800.0	2,799.5	2,743.0	2,742.7	4.6	10.0	-128.67	497.0	-603.0	793.3	779.4	13.90	57.093 SF			
2,900.0	2,898.7	2,821.6	2,820.9	4.6	10.3	-129.24	498.0	-610.6	809.5	795.4	14.13	57.286			
3,000.0	2,997.7	2,900.0	2,898.7	4.7	10.6	-130.18	499.4	-620.4	829.4	815.0	14.37	57.728			
3,100.0	3,096.8	2,982.4	2,980.1	4.7	10.8	-131.20	501.0	-632.7	851.7	837.1	14.62	58.237			
3,200.0	3,195.8	3,078.2	3,074.7	4.8	11.2	-132.35	503.1	-647.5	874.8	859.9	14.95	58.505			
3,300.0	3,294.8	3,173.9	3,169.4	4.8	11.5	-133.43	505.1	-662.2	898.3	883.0	15.29	58.751			
3,400.0	3,393.8	3,269.7	3,264.0	4.9	11.8	-134.46	507.1	-677.0	922.0	906.4	15.63	58.975			
3,500.0	3,492.9	3,365.5	3,358.6	5.0	12.1	-135.45	509.1	-691.8	946.0	930.1	15.99	59.177			
3,600.0	3,591.9	3,461.3	3,453.2	5.1	12.5	-136.38	511.1	-706.5	970.3	954.0	16.35	59.357			
3,700.0	3,690.9	3,557.1	3,547.9	5.1	12.8	-137.27	513.1	-721.3	994.8	978.1	16.72	59.517			

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-48.47	495.7	-559.8	747.7						
100.0	100.0	99.9	99.9	3.0	3.0	-48.47	495.7	-559.8	747.7	741.7	6.00	124.609			
200.0	200.0	199.9	199.9	3.0	3.0	-48.47	495.7	-559.8	747.7	741.7	6.01	124.487			
300.0	300.0	299.9	299.9	3.0	3.0	-48.47	495.7	-559.8	747.7	741.7	6.02	124.223			
400.0	400.0	399.9	399.9	3.0	3.0	-48.47	495.7	-559.8	747.7	741.7	6.04	123.819			
500.0	500.0	499.9	499.9	3.1	3.1	-48.47	495.7	-559.8	747.7	741.6	6.07	123.280			
600.0	600.0	599.9	599.9	3.1	3.1	-48.47	495.7	-559.8	747.7	741.6	6.10	122.611			
700.0	700.0	699.9	699.9	3.1	3.1	-48.47	495.7	-559.8	747.7	741.6	6.14	121.818			
800.0	800.0	799.9	799.9	3.2	3.2	-48.47	495.7	-559.8	747.7	741.5	6.18	120.910			
900.0	900.0	899.9	899.9	3.2	3.2	-48.47	495.7	-559.8	747.7	741.5	6.24	119.893			
1,000.0	1,000.0	999.9	999.9	3.2	3.2	-48.47	495.7	-559.8	747.7	741.4	6.30	118.776			
1,100.0	1,100.0	1,099.9	1,099.9	3.3	3.3	-48.47	495.7	-559.8	747.7	741.4	6.36	117.570			
1,200.0	1,200.0	1,199.9	1,199.9	3.4	3.4	-48.47	495.7	-559.8	747.7	741.3	6.43	116.283			
1,300.0	1,300.0	1,299.9	1,299.9	3.4	3.4	-48.47	495.7	-559.8	747.7	741.2	6.51	114.924			
1,400.0	1,400.0	1,399.9	1,399.9	3.5	3.5	-48.47	495.7	-559.8	747.7	741.1	6.59	113.503			
1,500.0	1,500.0	1,499.9	1,499.9	3.5	3.5	-48.47	495.7	-559.8	747.7	741.0	6.67	112.029			
1,600.0	1,600.0	1,599.9	1,599.9	3.6	3.6	-48.47	495.7	-559.8	747.7	740.9	6.77	110.511			
1,700.0	1,700.0	1,699.9	1,699.9	3.7	3.7	-48.47	495.7	-559.8	747.7	740.8	6.86	108.957			
1,800.0	1,800.0	1,799.9	1,799.9	3.8	3.8	-48.47	495.7	-559.8	747.7	740.7	6.96	107.375			
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	-48.47	495.7	-559.8	747.7	740.6	7.07	105.771			
2,000.0	2,000.0	1,999.9	1,999.9	3.9	3.9	-48.47	495.7	-559.8	747.7	740.5	7.18	104.154			
2,100.0	2,100.0	2,099.9	2,099.9	4.0	4.0	-48.47	495.7	-559.8	747.7	740.4	7.29	102.528			
2,200.0	2,200.0	2,199.9	2,199.9	4.1	4.1	-48.47	495.7	-559.8	747.7	740.3	7.41	100.900			
2,300.0	2,300.0	2,299.9	2,299.9	4.2	4.2	-48.47	495.7	-559.8	747.7	740.2	7.53	99.275			
2,400.0	2,400.0	2,399.9	2,399.9	4.3	4.3	-48.47	495.7	-559.8	747.7	740.1	7.66	97.656			
2,500.0	2,500.0	2,499.9	2,499.9	4.4	4.4	-48.47	495.7	-559.8	747.7	739.9	7.78	96.048 CC, ES			
2,600.0	2,600.0	2,580.0	2,580.0	4.5	4.5	-126.32	496.2	-560.8	750.1	742.2	7.87	95.336 SF			
2,700.0	2,699.8	2,659.6	2,659.6	4.5	4.5	-126.54	497.5	-563.9	757.2	749.2	7.92	95.623			
2,800.0	2,799.5	2,738.5	2,738.2	4.6	4.6	-126.89	499.6	-568.9	769.0	761.0	7.96	96.556			
2,900.0	2,898.7	2,816.1	2,815.5	4.6	4.6	-127.34	502.6	-575.8	785.7	777.6	8.01	98.140			
3,000.0	2,997.7	2,905.1	2,903.8	4.7	4.7	-128.27	506.8	-585.5	805.6	797.6	8.06	99.961			
3,100.0	3,096.8	3,002.1	3,000.1	4.7	4.7	-129.24	511.4	-596.2	826.0	817.9	8.13	101.626			
3,200.0	3,195.8	3,099.0	3,096.3	4.8	4.8	-130.17	516.1	-606.9	846.6	838.4	8.20	103.200			
3,300.0	3,294.8	3,195.9	3,192.5	4.8	4.8	-131.05	520.7	-617.7	867.5	859.2	8.29	104.680			
3,400.0	3,393.8	3,292.9	3,288.8	4.9	4.9	-131.89	525.3	-628.4	888.5	880.1	8.38	106.065			
3,500.0	3,492.9	3,389.8	3,385.0	5.0	5.0	-132.69	529.9	-639.1	909.7	901.2	8.47	107.351			
3,600.0	3,591.9	3,486.8	3,481.2	5.1	5.1	-133.46	534.6	-649.9	931.0	922.4	8.58	108.541			
3,700.0	3,690.9	3,583.7	3,577.5	5.1	5.1	-134.19	539.2	-660.6	952.5	943.8	8.69	109.635			
3,800.0	3,789.9	3,680.6	3,673.7	5.2	5.2	-134.89	543.8	-671.3	974.2	965.4	8.81	110.634			
3,900.0	3,889.0	3,777.6	3,769.9	5.3	5.3	-135.56	548.5	-682.0	996.0	987.0	8.93	111.542			

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1														Offset Site Error:	0.0 usft	
Survey Program:		0-MWD+IFR1+FDIR		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.0	0.0	0.2	0.2	3.0	3.0	-46.73	495.9	-526.7	723.4							
100.0	100.0	100.2	100.2	3.0	3.0	-46.73	495.9	-526.7	723.4	717.4	6.00	120.513				
200.0	200.0	200.2	200.2	3.0	3.0	-46.73	495.9	-526.7	723.4	717.4	6.04	119.722				
300.0	300.0	300.2	300.2	3.0	3.1	-46.73	495.9	-526.7	723.4	717.3	6.13	118.074				
400.0	400.0	400.2	400.2	3.0	3.2	-46.73	495.9	-526.7	723.4	717.2	6.25	115.695				
500.0	500.0	500.2	500.2	3.1	3.4	-46.73	495.9	-526.7	723.4	717.0	6.42	112.744				
600.0	600.0	600.2	600.2	3.1	3.6	-46.73	495.9	-526.7	723.4	716.8	6.61	109.386				
700.0	700.0	700.2	700.2	3.1	3.8	-46.73	495.9	-526.7	723.4	716.6	6.84	105.771				
800.0	800.0	800.2	800.2	3.2	4.0	-46.73	495.9	-526.7	723.4	716.4	7.09	102.027				
900.0	900.0	900.2	900.2	3.2	4.2	-46.73	495.9	-526.7	723.4	716.1	7.36	98.251				
1,000.0	1,000.0	1,000.2	1,000.2	3.2	4.5	-46.73	495.9	-526.7	723.4	715.8	7.65	94.518				
1,100.0	1,100.0	1,100.2	1,100.2	3.3	4.8	-46.73	495.9	-526.7	723.4	715.5	7.96	90.877				
1,200.0	1,200.0	1,200.2	1,200.2	3.4	5.1	-46.73	495.9	-526.7	723.4	715.2	8.28	87.363				
1,300.0	1,300.0	1,300.2	1,300.2	3.4	5.4	-46.73	495.9	-526.7	723.4	714.8	8.61	83.994				
1,400.0	1,400.0	1,400.2	1,400.2	3.5	5.7	-46.73	495.9	-526.7	723.4	714.5	8.96	80.782				
1,500.0	1,500.0	1,500.2	1,500.2	3.5	6.0	-46.73	495.9	-526.7	723.4	714.1	9.31	77.730				
1,600.0	1,600.0	1,600.2	1,600.2	3.6	6.3	-46.73	495.9	-526.7	723.4	713.8	9.67	74.838				
1,700.0	1,700.0	1,700.2	1,700.2	3.7	6.6	-46.73	495.9	-526.7	723.4	713.4	10.03	72.102				
1,800.0	1,800.0	1,800.2	1,800.2	3.8	6.9	-46.73	495.9	-526.7	723.4	713.0	10.41	69.516				
1,900.0	1,900.0	1,900.2	1,900.2	3.9	7.2	-46.73	495.9	-526.7	723.4	712.7	10.79	67.073				
2,000.0	2,000.0	2,000.2	2,000.2	3.9	7.6	-46.73	495.9	-526.7	723.4	712.3	11.17	64.766				
2,100.0	2,100.0	2,100.2	2,100.2	4.0	7.9	-46.73	495.9	-526.7	723.4	711.9	11.56	62.587				
2,200.0	2,200.0	2,200.2	2,200.2	4.1	8.2	-46.73	495.9	-526.7	723.4	711.5	11.95	60.527				
2,300.0	2,300.0	2,300.2	2,300.2	4.2	8.6	-46.73	495.9	-526.7	723.4	711.1	12.35	58.580				
2,400.0	2,400.0	2,400.2	2,400.2	4.3	8.9	-46.73	495.9	-526.7	723.4	710.7	12.75	56.739				
2,416.6	2,416.6	2,416.8	2,416.8	4.3	9.0	-46.73	495.9	-526.7	723.4	710.6	12.82	56.442 CC				
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-46.73	495.9	-526.7	723.4	710.3	13.15	54.998 ES				
2,600.0	2,600.0	2,585.3	2,585.3	4.5	9.5	-124.49	497.2	-526.7	725.5	712.0	13.48	53.837				
2,700.0	2,699.8	2,670.3	2,670.2	4.5	9.8	-124.46	501.0	-526.8	731.5	717.7	13.76	53.165				
2,800.0	2,799.5	2,754.8	2,754.5	4.6	10.1	-124.41	507.2	-526.8	741.5	727.5	14.04	52.814				
2,900.0	2,898.7	2,845.8	2,845.0	4.6	10.4	-124.38	516.4	-526.8	755.3	741.0	14.35	52.637				
3,000.0	2,997.7	2,944.6	2,943.2	4.7	10.7	-124.67	526.7	-526.9	770.4	755.7	14.70	52.420				
3,100.0	3,096.8	3,043.4	3,041.5	4.7	11.1	-124.95	537.0	-526.9	785.5	770.4	15.05	52.199				
3,200.0	3,195.8	3,142.2	3,139.7	4.8	11.4	-125.21	547.4	-527.0	800.6	785.1	15.40	51.973				
3,300.0	3,294.8	3,240.9	3,238.0	4.8	11.8	-125.47	557.7	-527.0	815.7	799.9	15.76	51.745				
3,400.0	3,393.8	3,339.7	3,336.2	4.9	12.1	-125.72	568.0	-527.1	830.8	814.7	16.13	51.513				
3,500.0	3,492.9	3,438.5	3,434.5	5.0	12.5	-125.96	578.3	-527.1	845.9	829.4	16.50	51.280				
3,600.0	3,591.9	3,537.3	3,532.7	5.1	12.8	-126.19	588.7	-527.1	861.1	844.2	16.87	51.044				
3,700.0	3,690.9	3,636.1	3,631.0	5.1	13.1	-126.41	599.0	-527.2	876.3	859.0	17.25	50.808				
3,800.0	3,789.9	3,734.9	3,729.2	5.2	13.5	-126.62	609.3	-527.2	891.5	873.8	17.63	50.570				
3,900.0	3,889.0	3,833.7	3,827.4	5.3	13.8	-126.83	619.6	-527.3	906.6	888.6	18.01	50.332				
4,000.0	3,988.0	3,932.4	3,925.7	5.4	14.2	-127.03	630.0	-527.3	921.9	903.5	18.40	50.093				
4,100.0	4,087.0	4,031.2	4,023.9	5.5	14.5	-127.22	640.3	-527.4	937.1	918.3	18.80	49.855				
4,200.0	4,186.0	4,130.0	4,122.2	5.5	14.9	-127.41	650.6	-527.4	952.3	933.1	19.19	49.617				
4,300.0	4,285.1	4,228.8	4,220.4	5.6	15.2	-127.59	660.9	-527.5	967.5	947.9	19.59	49.379				
4,400.0	4,384.1	4,327.6	4,318.7	5.7	15.6	-127.77	671.3	-527.5	982.8	962.8	20.00	49.143				
4,500.0	4,483.1	4,426.4	4,416.9	5.8	15.9	-127.94	681.6	-527.6	998.0	977.6	20.41	48.908				
10,000.0	9,970.9	10,791.9	10,225.0	11.7	36.5	-90.17	91.1	-526.0	992.7	947.8	44.90	22.108				
10,100.0	10,070.9	10,791.9	10,225.0	11.8	36.5	-90.17	91.1	-526.0	971.9	927.0	44.95	21.620				
10,200.0	10,170.9	10,791.9	10,225.0	11.9	36.5	-90.17	91.1	-526.0	961.2	916.2	45.04	21.342				
10,253.8	10,224.8	10,791.9	10,225.0	12.0	36.5	-90.17	91.1	-526.0	959.7	914.6	45.12	21.269				
10,300.0	10,270.9	10,791.9	10,225.0	12.0	36.5	-90.17	91.1	-526.0	960.8	915.6	45.22	21.248 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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #15H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program:	0-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.0	10,370.9	10,791.9	10,225.0	12.2	36.5	-90.17	91.1	-526.0	970.8	925.2	45.51	21.331	
10,500.0	10,470.9	10,791.9	10,225.0	12.3	36.5	-90.17	91.1	-526.0	990.8	944.9	45.86	21.603	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 BS #16H - OWB - PWP1													Offset Site Error:
Survey Program: 0-Standard Keeper 104, 9797-MWD+IFR1+FDIR													0.0 usft
Rule Assigned:													Offset Well Error:
Warning													3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	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	-44.87	496.0	-493.8	699.9				
100.0	100.0	99.5	99.5	3.0	3.0	-44.87	496.0	-493.8	699.9	693.9	6.00	116.646	
200.0	200.0	199.5	199.5	3.0	3.0	-44.87	496.0	-493.8	699.9	693.9	6.01	116.524	
300.0	300.0	299.5	299.5	3.0	3.0	-44.87	496.0	-493.8	699.9	693.9	6.02	116.258	
400.0	400.0	399.5	399.5	3.0	3.0	-44.87	496.0	-493.8	699.9	693.9	6.04	115.852	
500.0	500.0	499.5	499.5	3.1	3.1	-44.87	496.0	-493.8	699.9	693.9	6.07	115.311	
600.0	600.0	599.5	599.5	3.1	3.1	-44.87	496.0	-493.8	699.9	693.8	6.11	114.639	
700.0	700.0	699.5	699.5	3.1	3.1	-44.87	496.0	-493.8	699.9	693.8	6.15	113.845	
800.0	800.0	799.5	799.5	3.2	3.2	-44.87	496.0	-493.8	699.9	693.7	6.20	112.935	
900.0	900.0	899.5	899.5	3.2	3.2	-44.87	496.0	-493.8	699.9	693.7	6.25	111.919	
1,000.0	1,000.0	999.5	999.5	3.2	3.2	-44.87	496.0	-493.8	699.9	693.6	6.32	110.806	
1,100.0	1,100.0	1,099.5	1,099.5	3.3	3.3	-44.87	496.0	-493.8	699.9	693.5	6.39	109.605	
1,200.0	1,200.0	1,199.5	1,199.5	3.4	3.4	-44.87	496.0	-493.8	699.9	693.5	6.46	108.326	
1,300.0	1,300.0	1,299.5	1,299.5	3.4	3.4	-44.87	496.0	-493.8	699.9	693.4	6.54	106.980	
1,400.0	1,400.0	1,399.5	1,399.5	3.5	3.5	-44.87	496.0	-493.8	699.9	693.3	6.63	105.575	
1,500.0	1,500.0	1,499.5	1,499.5	3.5	3.5	-44.87	496.0	-493.8	699.9	693.2	6.72	104.121	
1,600.0	1,600.0	1,599.5	1,599.5	3.6	3.6	-44.87	496.0	-493.8	699.9	693.1	6.82	102.627	
1,700.0	1,700.0	1,699.5	1,699.5	3.7	3.7	-44.87	496.0	-493.8	699.9	693.0	6.92	101.101	
1,800.0	1,800.0	1,799.5	1,799.5	3.8	3.8	-44.87	496.0	-493.8	699.9	692.9	7.03	99.551	
1,900.0	1,900.0	1,899.5	1,899.5	3.9	3.9	-44.87	496.0	-493.8	699.9	692.8	7.14	97.985	
2,000.0	2,000.0	1,999.5	1,999.5	3.9	3.9	-44.87	496.0	-493.8	699.9	692.7	7.26	96.408	
2,100.0	2,100.0	2,099.5	2,099.5	4.0	4.0	-44.87	496.0	-493.8	699.9	692.6	7.38	94.828	
2,200.0	2,200.0	2,199.5	2,199.5	4.1	4.1	-44.87	496.0	-493.8	699.9	692.4	7.51	93.249	
2,300.0	2,300.0	2,299.5	2,299.5	4.2	4.2	-44.87	496.0	-493.8	699.9	692.3	7.63	91.675	
2,400.0	2,400.0	2,399.5	2,399.5	4.3	4.3	-44.87	496.0	-493.8	699.9	692.2	7.77	90.113	
2,500.0	2,500.0	2,499.5	2,499.5	4.4	4.4	-44.87	496.0	-493.8	699.9	692.0	7.90	88.564	
2,600.0	2,600.0	2,625.4	2,625.4	4.5	4.5	-122.69	495.4	-491.1	699.0	691.1	7.96	87.788	
2,700.0	2,699.8	2,751.4	2,751.1	4.5	4.5	-122.83	493.6	-483.1	696.3	688.3	7.95	87.635	
2,800.0	2,799.5	2,851.4	2,850.7	4.6	4.5	-123.10	491.6	-474.5	693.6	685.6	7.94	87.353	
2,890.3	2,889.1	2,941.6	2,940.5	4.6	4.5	-123.52	489.8	-466.8	692.8	684.8	7.93	87.330	
2,900.0	2,898.7	2,951.3	2,950.2	4.6	4.5	-123.57	489.6	-465.9	692.8	684.8	7.93	87.344	
3,000.0	2,997.7	3,051.0	3,049.5	4.7	4.6	-124.15	487.7	-457.4	693.0	685.1	7.93	87.430	
3,100.0	3,096.8	3,150.8	3,148.9	4.7	4.6	-124.74	485.7	-448.9	693.3	685.4	7.93	87.446	
3,200.0	3,195.8	3,250.5	3,248.3	4.8	4.6	-125.32	483.7	-440.3	693.7	685.7	7.94	87.387	
3,300.0	3,294.8	3,350.3	3,347.6	4.8	4.7	-125.90	481.7	-431.8	694.1	686.2	7.96	87.253	
3,400.0	3,393.8	3,450.0	3,447.0	4.9	4.7	-126.48	479.8	-423.2	694.6	686.7	7.98	87.042	
3,500.0	3,492.9	3,549.8	3,546.4	5.0	4.8	-127.06	477.8	-414.7	695.2	687.2	8.01	86.752	
3,600.0	3,591.9	3,649.5	3,645.7	5.1	4.8	-127.63	475.8	-406.2	695.9	687.8	8.06	86.384	
3,700.0	3,690.9	3,749.3	3,745.1	5.1	4.9	-128.21	473.9	-397.6	696.6	688.5	8.11	85.939	
3,800.0	3,789.9	3,849.0	3,844.5	5.2	4.9	-128.79	471.9	-389.1	697.4	689.2	8.16	85.419	
3,900.0	3,889.0	3,948.8	3,943.8	5.3	5.0	-129.36	469.9	-380.5	698.3	690.1	8.23	84.827	
4,000.0	3,988.0	4,048.5	4,043.2	5.4	5.0	-129.93	467.9	-372.0	699.2	690.9	8.31	84.166	
4,100.0	4,087.0	4,148.3	4,142.6	5.5	5.1	-130.51	466.0	-363.5	700.2	691.8	8.39	83.441	
4,200.0	4,186.0	4,248.0	4,241.9	5.5	5.2	-131.08	464.0	-354.9	701.3	692.8	8.48	82.656	
4,300.0	4,285.1	4,347.8	4,341.3	5.6	5.2	-131.64	462.0	-346.4	702.5	693.9	8.59	81.816	
4,400.0	4,384.1	4,447.5	4,440.6	5.7	5.3	-132.21	460.1	-337.8	703.7	695.0	8.70	80.928	
4,500.0	4,483.1	4,547.3	4,540.0	5.8	5.4	-132.77	458.1	-329.3	705.0	696.2	8.81	79.996	
4,600.0	4,582.2	4,647.0	4,639.4	5.9	5.5	-133.33	456.1	-320.7	706.3	697.4	8.94	79.026	
4,700.0	4,681.2	4,746.8	4,738.7	6.0	5.5	-133.89	454.2	-312.2	707.8	698.7	9.07	78.025	
4,800.0	4,780.2	4,846.5	4,838.1	6.1	5.6	-134.45	452.2	-303.7	709.3	700.0	9.21	76.998	
4,900.0	4,879.2	4,946.3	4,937.5	6.2	5.7	-135.01	450.2	-295.1	710.8	701.5	9.36	75.950	
5,000.0	4,978.3	5,046.0	5,036.8	6.3	5.8	-135.56	448.2	-286.6	712.4	702.9	9.51	74.886	

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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)				
5,100.0	5,077.3	5,145.8	5,136.2	6.4	5.9	-136.11	446.3	-278.0	714.1	704.5	9.68	73.812		
5,200.0	5,176.3	5,245.5	5,235.6	6.5	6.0	-136.65	444.3	-269.5	715.9	706.1	9.84	72.732		
5,300.0	5,275.3	5,345.3	5,334.9	6.6	6.1	-137.20	442.3	-261.0	717.7	707.7	10.02	71.651		
5,400.0	5,374.4	5,445.0	5,434.3	6.7	6.2	-137.74	440.4	-252.4	719.6	709.4	10.20	70.571		
5,487.6	5,461.2	5,532.5	5,521.4	6.8	6.2	-138.21	438.6	-244.9	721.3	711.0	10.36	69.629		
5,500.0	5,473.4	5,544.8	5,533.7	6.8	6.2	-138.28	438.4	-243.9	721.6	711.2	10.38	69.496		
5,600.0	5,572.6	5,644.6	5,633.1	6.9	6.3	-138.77	436.4	-235.3	722.7	712.2	10.57	68.373		
5,700.0	5,672.0	5,744.5	5,732.6	7.0	6.4	-139.15	434.4	-226.8	722.7	711.9	10.76	67.174		
5,800.0	5,771.5	5,844.4	5,832.1	7.2	6.5	-139.44	432.5	-218.2	721.3	710.4	10.94	65.904		
5,900.0	5,871.2	5,944.3	5,931.6	7.3	6.6	-139.64	430.5	-209.7	718.6	707.5	11.13	64.570		
6,000.0	5,971.0	6,044.2	6,031.2	7.4	6.7	-139.73	428.5	-201.1	714.6	703.3	11.31	63.198		
6,100.0	6,071.0	6,144.1	6,130.6	7.5	6.8	-139.73	426.6	-192.6	709.3	697.8	11.48	61.783		
6,200.0	6,170.9	6,243.9	6,230.0	7.6	6.9	-139.63	424.6	-184.0	702.6	691.0	11.65	60.306		
6,287.6	6,258.6	6,331.2	6,317.0	7.6	7.0	-61.68	422.9	-176.5	695.7	683.9	11.78	59.047		
6,300.0	6,270.9	6,343.5	6,329.3	7.7	7.0	-61.66	422.6	-175.5	694.7	682.9	11.80	58.878		
6,400.0	6,370.9	6,443.1	6,428.5	7.7	7.1	-61.46	420.6	-167.0	686.2	674.3	11.93	57.523		
6,500.0	6,470.9	6,542.7	6,527.8	7.8	7.2	-61.26	418.7	-158.4	677.7	665.7	12.06	56.189		
6,600.0	6,570.9	6,642.4	6,627.0	7.9	7.3	-61.06	416.7	-149.9	669.3	657.1	12.20	54.876		
6,700.0	6,670.9	6,742.0	6,726.2	8.0	7.4	-60.85	414.7	-141.4	660.8	648.5	12.33	53.584		
6,800.0	6,770.9	6,841.6	6,825.4	8.2	7.6	-60.63	412.8	-132.8	652.4	639.9	12.47	52.313		
6,900.0	6,870.9	6,941.2	6,924.7	8.3	7.7	-60.41	410.8	-124.3	644.0	631.4	12.61	51.064		
7,000.0	6,970.9	7,040.8	7,023.9	8.4	7.8	-60.19	408.8	-115.8	635.6	622.8	12.75	49.836		
7,100.0	7,070.9	7,140.4	7,123.1	8.5	7.9	-59.96	406.9	-107.3	627.1	614.2	12.90	48.629		
7,200.0	7,170.9	7,240.0	7,222.4	8.6	8.0	-59.72	404.9	-98.7	618.7	605.7	13.04	47.443		
7,300.0	7,270.9	7,339.7	7,321.6	8.7	8.1	-59.47	402.9	-90.2	610.4	597.2	13.19	46.278		
7,400.0	7,370.9	7,439.3	7,420.8	8.8	8.2	-59.22	401.0	-81.7	602.0	588.6	13.34	45.134		
7,500.0	7,470.9	7,538.9	7,520.0	8.9	8.3	-58.96	399.0	-73.1	593.6	580.1	13.49	44.010		
7,600.0	7,570.9	7,638.5	7,619.3	9.0	8.4	-58.70	397.0	-64.6	585.3	571.6	13.64	42.907		
7,700.0	7,670.9	7,738.1	7,718.5	9.1	8.5	-58.42	395.1	-56.1	576.9	563.1	13.79	41.824		
7,800.0	7,770.9	7,837.7	7,817.7	9.2	8.7	-58.14	393.1	-47.6	568.6	554.7	13.95	40.761		
7,900.0	7,870.9	7,937.3	7,916.9	9.3	8.8	-57.85	391.1	-39.0	560.3	546.2	14.11	39.717		
8,000.0	7,970.9	8,036.9	8,016.2	9.4	8.9	-57.55	389.2	-30.5	552.0	537.7	14.27	38.693		
8,100.0	8,070.9	8,136.6	8,115.4	9.5	9.0	-57.24	387.2	-22.0	543.7	529.3	14.43	37.688		
8,200.0	8,170.9	8,236.2	8,214.6	9.6	9.1	-56.92	385.2	-13.4	535.4	520.9	14.59	36.702		
8,300.0	8,270.9	8,335.8	8,313.9	9.8	9.2	-56.60	383.3	-4.9	527.2	512.4	14.75	35.735		
8,400.0	8,370.9	8,435.4	8,413.1	9.9	9.3	-56.26	381.3	3.6	519.0	504.1	14.92	34.786		
8,500.0	8,470.9	8,535.0	8,512.3	10.0	9.5	-55.91	379.3	12.1	510.8	495.7	15.09	33.855		
8,600.0	8,570.9	8,634.6	8,611.5	10.1	9.6	-55.55	377.4	20.7	502.6	487.3	15.26	32.942		
8,700.0	8,670.9	8,734.2	8,710.8	10.2	9.7	-55.18	375.4	29.2	494.4	479.0	15.43	32.046		
8,800.0	8,770.9	8,833.8	8,810.0	10.3	9.8	-54.79	373.4	37.7	486.2	470.6	15.60	31.167		
8,900.0	8,870.9	8,933.5	8,909.2	10.4	9.9	-54.39	371.5	46.3	478.1	462.3	15.78	30.306		
9,000.0	8,970.9	9,033.1	9,008.5	10.5	10.0	-53.98	369.5	54.8	470.0	454.1	15.95	29.461		
9,100.0	9,070.9	9,132.7	9,107.7	10.7	10.2	-53.55	367.5	63.3	461.9	445.8	16.13	28.632		
9,200.0	9,170.9	9,232.3	9,206.9	10.8	10.3	-53.11	365.6	71.9	453.9	437.6	16.32	27.820		
9,300.0	9,270.9	9,331.9	9,306.1	10.9	10.4	-52.66	363.6	80.4	445.9	429.4	16.50	27.023		
9,400.0	9,370.9	9,431.5	9,405.4	11.0	10.5	-52.18	361.6	88.9	437.9	421.2	16.69	26.242		
9,500.0	9,470.9	9,531.1	9,504.6	11.1	10.6	-51.69	359.7	97.4	429.9	413.0	16.87	25.476		
9,600.0	9,570.9	9,630.8	9,603.8	11.2	10.8	-51.18	357.7	106.0	422.0	404.9	17.07	24.726		
9,700.0	9,670.9	9,730.4	9,703.0	11.3	10.9	-50.65	355.7	114.5	414.1	396.8	17.26	23.990		
9,800.0	9,770.9	9,830.4	9,803.4	11.5	11.0	-50.54	343.1	131.1	403.0	384.7	18.35	21.963		
9,900.0	9,870.9	10,150.8	10,085.1	11.6	11.1	-61.95	227.9	182.5	356.5	331.1	25.45	14.009		
10,000.0	9,970.9	10,274.3	10,160.1	11.7	11.3	-79.13	135.9	215.4	292.2	264.9	27.34	10.690		

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
10,100.0	10,070.9	10,340.1	10,189.2	11.8	11.4	-94.02	80.0	234.1	232.7	207.6	25.08	9.277	
10,200.0	10,170.9	10,379.6	10,202.6	11.9	11.5	-104.69	44.7	245.5	197.2	175.9	21.33	9.247	
10,235.2	10,206.2	10,389.9	10,205.6	12.0	11.5	-107.59	35.3	248.5	194.3	172.9	21.37	9.093	CC, ES
10,300.0	10,270.9	10,405.5	10,209.8	12.0	11.6	-112.04	20.9	253.0	204.1	179.6	24.48	8.338	
10,400.0	10,370.9	10,425.0	10,214.3	12.2	11.6	-117.53	2.8	258.7	251.7	220.7	30.94	8.132	SF
10,500.0	10,470.9	10,437.4	10,216.7	12.3	11.7	-120.95	-8.8	262.3	323.0	288.0	35.02	9.222	
10,600.0	10,570.9	10,450.0	10,218.9	12.4	11.7	-124.35	-20.7	265.9	406.0	368.8	37.24	10.903	
10,700.0	10,670.9	10,450.0	10,218.9	12.5	11.7	-124.35	-20.7	265.9	495.2	456.5	38.69	12.797	
10,800.0	10,770.9	10,462.7	10,220.8	12.6	11.8	-127.67	-32.7	269.6	587.5	547.9	39.58	14.842	
10,900.0	10,870.9	10,475.0	10,222.2	12.8	11.8	-130.75	-44.4	273.1	682.0	641.7	40.26	16.939	
11,000.0	10,970.9	10,475.0	10,222.2	12.9	11.8	-130.75	-44.4	273.1	777.6	736.8	40.89	19.020	
11,100.0	11,070.9	10,475.0	10,222.2	13.0	11.8	-130.75	-44.4	273.1	874.3	832.9	41.42	21.106	
11,200.0	11,170.9	10,475.0	10,222.2	13.1	11.8	-130.75	-44.4	273.1	971.6	929.7	41.91	23.183	

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

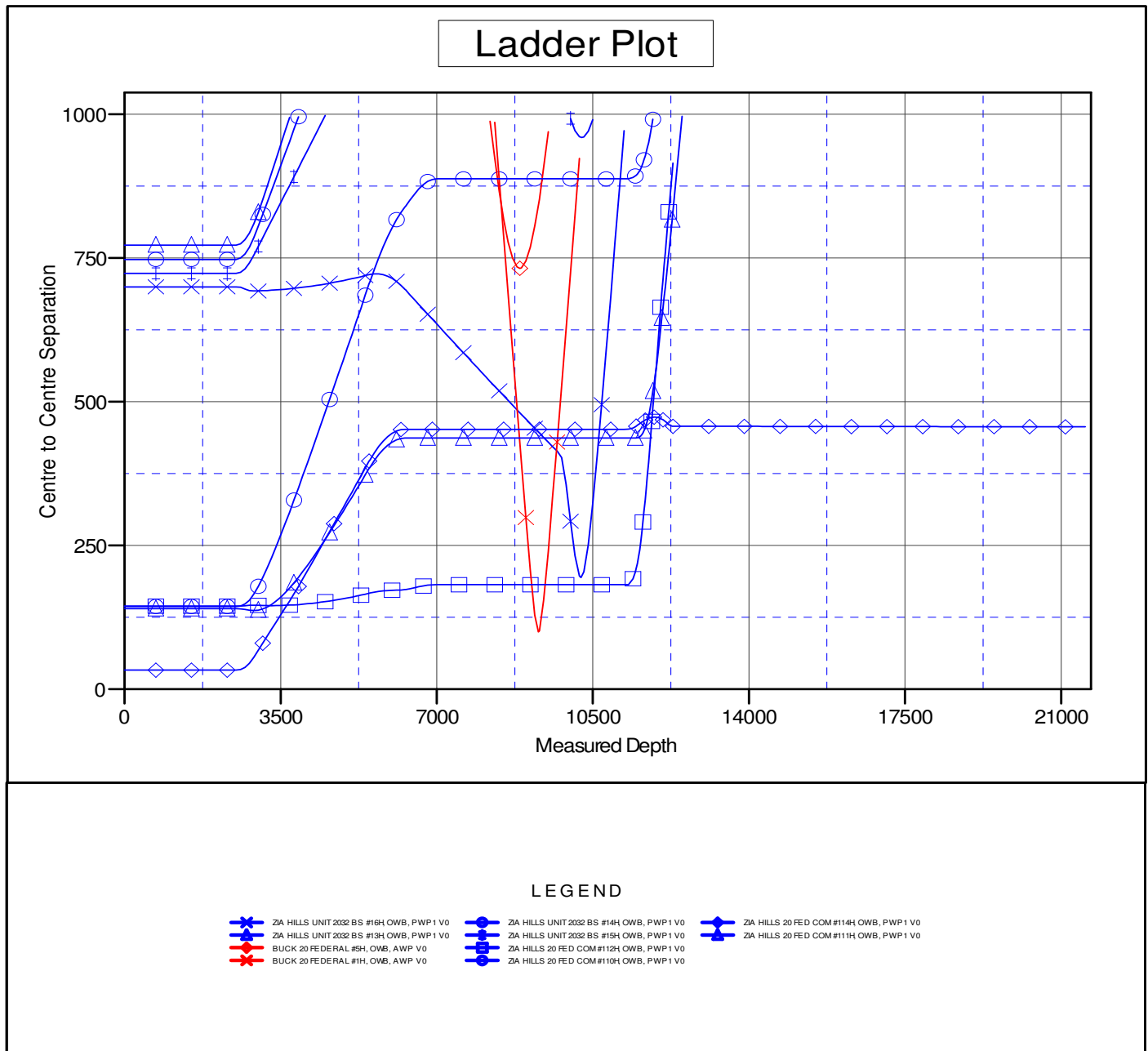
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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' @ 3172.3usft (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 #115H
 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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Reference Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS 20 FED COM #115H	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' @ 3172.3usft (N 894)

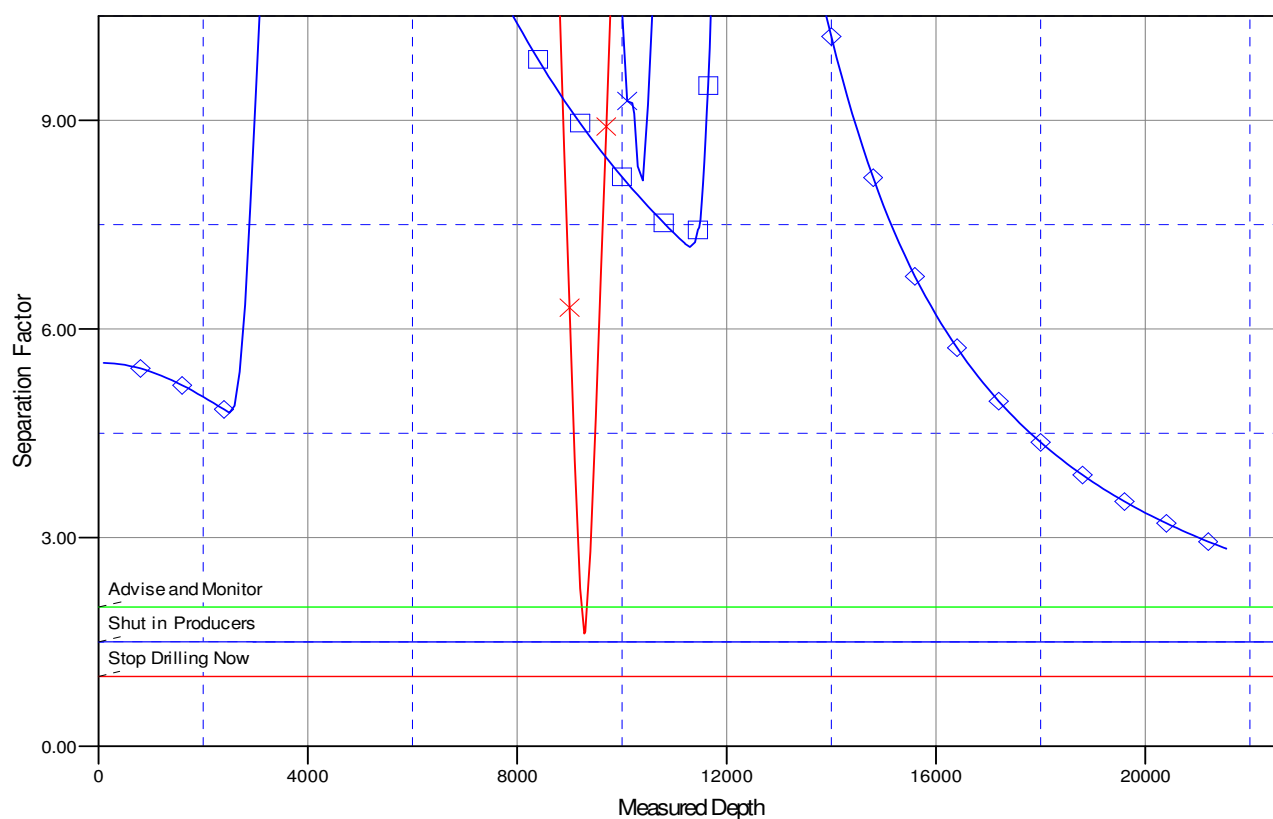
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS 20 FED COM #115H

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

Grid Convergence at Surface is: 0.34°

Separation Factor Plot**LEGEND**

ZA HILLS UNIT 2032 BS #164 OWB, PWP1 V0	ZA HILLS UNIT 2032 BS #164 OWB, PWP1 V0	ZA HILLS 20 FED COM #114H OWB, PWP1 V0
ZA HILLS UNIT 2032 BS #134 OWB, PWP1 V0	ZA HILLS UNIT 2032 BS #154 OWB, PWP1 V0	ZA HILLS 20 FED COM #111H OWB, PWP1 V0
BUCK 20 FEDERAL #5H, OWB, AWP V0	ZA HILLS 20 FED COM #112H OWB, PWP1 V0	
BUCK 20 FEDERAL #1H, OWB, AWP V0	ZA HILLS 20 FED COM #110H OWB, PWP1 V0	

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS 20 FED COM PROJECT

ZIA HILLS 20 FED COM #115H

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 #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Well:	ZIA HILLS 20 FED COM #115H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

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

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

Well	ZIA HILLS 20 FED COM #115H					
Well Position	+N/-S	0.0 usft	Northing:	374,130.03 usft	Latitude:	32° 1' 37.086 N
	+E/-W	0.0 usft	Easting:	699,220.87 usft	Longitude:	103° 41' 25.771 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,141.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2021	2/17/2022	6.46	59.59	47,442.68324863

Design	PWP1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	177.30	

Survey Tool Program	Date	4/5/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,453.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,453.0	21,543.7	PWP1 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Well:	ZIA HILLS 20 FED COM #115H	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	77.77	2,600.0	0.4	1.7	-0.3	2.00	2.00	0.00
2,700.0	4.00	77.77	2,699.8	1.5	6.8	-1.2	2.00	2.00	0.00
2,800.0	6.00	77.77	2,799.5	3.3	15.3	-2.6	2.00	2.00	0.00
2,900.0	8.00	77.77	2,898.7	5.9	27.2	-4.6	2.00	2.00	0.00
Start 2587.6 hold at 2900.0 MD									
3,000.0	8.00	77.77	2,997.7	8.9	40.8	-6.9	0.00	0.00	0.00
3,100.0	8.00	77.77	3,096.8	11.8	54.5	-9.2	0.00	0.00	0.00
3,200.0	8.00	77.77	3,195.8	14.7	68.1	-11.5	0.00	0.00	0.00
3,300.0	8.00	77.77	3,294.8	17.7	81.7	-13.8	0.00	0.00	0.00
3,400.0	8.00	77.77	3,393.8	20.6	95.3	-16.1	0.00	0.00	0.00
3,500.0	8.00	77.77	3,492.9	23.6	108.9	-18.4	0.00	0.00	0.00
3,600.0	8.00	77.77	3,591.9	26.5	122.5	-20.7	0.00	0.00	0.00
3,700.0	8.00	77.77	3,690.9	29.5	136.1	-23.0	0.00	0.00	0.00
3,800.0	8.00	77.77	3,789.9	32.4	149.7	-25.3	0.00	0.00	0.00
3,900.0	8.00	77.77	3,889.0	35.4	163.3	-27.6	0.00	0.00	0.00
4,000.0	8.00	77.77	3,988.0	38.3	176.9	-29.9	0.00	0.00	0.00
4,100.0	8.00	77.77	4,087.0	41.3	190.5	-32.2	0.00	0.00	0.00
4,200.0	8.00	77.77	4,186.0	44.2	204.1	-34.6	0.00	0.00	0.00
4,300.0	8.00	77.77	4,285.1	47.2	217.7	-36.9	0.00	0.00	0.00
4,400.0	8.00	77.77	4,384.1	50.1	231.3	-39.2	0.00	0.00	0.00
4,500.0	8.00	77.77	4,483.1	53.1	244.9	-41.5	0.00	0.00	0.00
4,600.0	8.00	77.77	4,582.2	56.0	258.5	-43.8	0.00	0.00	0.00
4,700.0	8.00	77.77	4,681.2	59.0	272.1	-46.1	0.00	0.00	0.00
4,800.0	8.00	77.77	4,780.2	61.9	285.7	-48.4	0.00	0.00	0.00
4,900.0	8.00	77.77	4,879.2	64.9	299.3	-50.7	0.00	0.00	0.00
5,000.0	8.00	77.77	4,978.3	67.8	312.9	-53.0	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Well:	ZIA HILLS 20 FED COM #115H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	8.00	77.77	5,077.3	70.8	326.5	-55.3	0.00	0.00	0.00	
5,200.0	8.00	77.77	5,176.3	73.7	340.1	-57.6	0.00	0.00	0.00	
5,300.0	8.00	77.77	5,275.3	76.7	353.7	-59.9	0.00	0.00	0.00	
5,400.0	8.00	77.77	5,374.4	79.6	367.3	-62.2	0.00	0.00	0.00	
5,487.6	8.00	77.77	5,461.2	82.2	379.2	-64.2	0.00	0.00	0.00	
Start Drop -1.00										
5,500.0	7.88	77.77	5,473.4	82.6	380.9	-64.5	1.00	-1.00	0.00	
5,600.0	6.88	77.77	5,572.6	85.3	393.4	-66.6	1.00	-1.00	0.00	
5,700.0	5.88	77.77	5,672.0	87.6	404.3	-68.4	1.00	-1.00	0.00	
5,800.0	4.88	77.77	5,771.5	89.6	413.4	-70.0	1.00	-1.00	0.00	
5,900.0	3.88	77.77	5,871.2	91.2	420.9	-71.3	1.00	-1.00	0.00	
6,000.0	2.88	77.77	5,971.0	92.5	426.6	-72.2	1.00	-1.00	0.00	
6,100.0	1.88	77.77	6,071.0	93.3	430.7	-72.9	1.00	-1.00	0.00	
6,200.0	0.88	77.77	6,170.9	93.9	433.0	-73.3	1.00	-1.00	0.00	
6,287.6	0.00	0.00	6,258.6	94.0	433.7	-73.4	1.00	-1.00	0.00	
Start 5165.9 hold at 6287.6 MD										
6,300.0	0.00	0.00	6,270.9	94.0	433.7	-73.4	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,370.9	94.0	433.7	-73.4	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,470.9	94.0	433.7	-73.4	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,570.9	94.0	433.7	-73.4	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,670.9	94.0	433.7	-73.4	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,770.9	94.0	433.7	-73.4	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,870.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,970.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,070.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,170.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,270.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,370.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,470.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,570.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,670.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,770.9	94.0	433.7	-73.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,870.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,970.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,070.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,170.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,270.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,370.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,470.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,570.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,670.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,770.9	94.0	433.7	-73.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,870.9	94.0	433.7	-73.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,970.9	94.0	433.7	-73.4	0.00	0.00	0.00	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Well:	ZIA HILLS 20 FED COM #115H	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	9,070.9	94.0	433.7	-73.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,170.9	94.0	433.7	-73.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,270.9	94.0	433.7	-73.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,370.9	94.0	433.7	-73.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,470.9	94.0	433.7	-73.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,570.9	94.0	433.7	-73.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,670.9	94.0	433.7	-73.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,770.9	94.0	433.7	-73.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,870.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,970.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,070.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,170.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,270.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,370.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,470.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,570.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,670.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,770.9	94.0	433.7	-73.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,870.9	94.0	433.7	-73.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,970.9	94.0	433.7	-73.4	0.00	0.00	0.00
11,100.0	0.00	0.00	11,070.9	94.0	433.7	-73.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,170.9	94.0	433.7	-73.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,270.9	94.0	433.7	-73.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,370.9	94.0	433.7	-73.4	0.00	0.00	0.00
11,453.6	0.00	0.00	11,424.5	94.0	433.7	-73.4	0.00	0.00	0.00
Start Build 12.00									
11,500.0	5.57	182.80	11,470.8	91.7	433.6	-71.2	12.00	12.00	0.00
11,600.0	17.57	182.80	11,568.6	71.8	432.6	-51.3	12.00	12.00	0.00
11,700.0	29.57	182.80	11,660.1	31.9	430.7	-11.5	12.00	12.00	0.00
11,800.0	41.57	182.80	11,741.3	-26.1	427.8	46.3	12.00	12.00	0.00
11,900.0	53.57	182.80	11,808.7	-99.7	424.2	119.6	12.00	12.00	0.00
12,000.0	65.57	182.80	11,859.2	-185.7	420.0	205.3	12.00	12.00	0.00
12,100.0	77.57	182.80	11,890.8	-280.2	415.4	299.5	12.00	12.00	0.00
12,200.0	89.57	182.80	11,902.0	-379.3	410.6	398.3	12.00	12.00	0.00
12,203.6	90.00	182.80	11,902.0	-382.9	410.4	401.8	12.00	12.00	0.00
Start DLS 4.00 TFO -90.00									
12,281.4	90.00	179.69	11,902.0	-460.7	408.7	479.5	4.00	0.00	-4.00
Start 9262.3 hold at 12281.4 MD									
12,300.0	90.00	179.69	11,902.0	-479.3	408.8	498.0	0.00	0.00	0.00
12,400.0	90.00	179.69	11,902.0	-579.3	409.3	598.0	0.00	0.00	0.00
12,500.0	90.00	179.69	11,902.0	-679.3	409.9	697.9	0.00	0.00	0.00
12,600.0	90.00	179.69	11,902.0	-779.3	410.4	797.8	0.00	0.00	0.00
12,700.0	90.00	179.69	11,902.0	-879.3	411.0	897.7	0.00	0.00	0.00
12,800.0	90.00	179.69	11,902.0	-979.3	411.5	997.6	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Well:	ZIA HILLS 20 FED COM #115H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.0	90.00	179.69	11,902.0	-1,079.3	412.1	1,097.5	0.00	0.00	0.00
13,000.0	90.00	179.69	11,902.0	-1,179.3	412.6	1,197.4	0.00	0.00	0.00
13,100.0	90.00	179.69	11,902.0	-1,279.3	413.2	1,297.3	0.00	0.00	0.00
13,200.0	90.00	179.69	11,902.0	-1,379.3	413.7	1,397.3	0.00	0.00	0.00
13,300.0	90.00	179.69	11,902.0	-1,479.3	414.2	1,497.2	0.00	0.00	0.00
13,400.0	90.00	179.69	11,902.0	-1,579.3	414.8	1,597.1	0.00	0.00	0.00
13,500.0	90.00	179.69	11,902.0	-1,679.3	415.3	1,697.0	0.00	0.00	0.00
13,600.0	90.00	179.69	11,902.0	-1,779.3	415.9	1,796.9	0.00	0.00	0.00
13,700.0	90.00	179.69	11,902.0	-1,879.3	416.4	1,896.8	0.00	0.00	0.00
13,800.0	90.00	179.69	11,902.0	-1,979.3	417.0	1,996.7	0.00	0.00	0.00
13,900.0	90.00	179.69	11,902.0	-2,079.3	417.5	2,096.6	0.00	0.00	0.00
14,000.0	90.00	179.69	11,902.0	-2,179.3	418.1	2,196.6	0.00	0.00	0.00
14,100.0	90.00	179.69	11,902.0	-2,279.3	418.6	2,296.5	0.00	0.00	0.00
14,200.0	90.00	179.69	11,902.0	-2,379.3	419.2	2,396.4	0.00	0.00	0.00
14,300.0	90.00	179.69	11,902.0	-2,479.3	419.7	2,496.3	0.00	0.00	0.00
14,400.0	90.00	179.69	11,902.0	-2,579.3	420.3	2,596.2	0.00	0.00	0.00
14,500.0	90.00	179.69	11,902.0	-2,679.3	420.8	2,696.1	0.00	0.00	0.00
14,600.0	90.00	179.69	11,902.0	-2,779.3	421.3	2,796.0	0.00	0.00	0.00
14,700.0	90.00	179.69	11,902.0	-2,879.3	421.9	2,896.0	0.00	0.00	0.00
14,800.0	90.00	179.69	11,902.0	-2,979.3	422.4	2,995.9	0.00	0.00	0.00
14,900.0	90.00	179.69	11,902.0	-3,079.2	423.0	3,095.8	0.00	0.00	0.00
15,000.0	90.00	179.69	11,902.0	-3,179.2	423.5	3,195.7	0.00	0.00	0.00
15,100.0	90.00	179.69	11,902.0	-3,279.2	424.1	3,295.6	0.00	0.00	0.00
15,200.0	90.00	179.69	11,902.0	-3,379.2	424.6	3,395.5	0.00	0.00	0.00
15,300.0	90.00	179.69	11,902.0	-3,479.2	425.2	3,495.4	0.00	0.00	0.00
15,400.0	90.00	179.69	11,902.0	-3,579.2	425.7	3,595.3	0.00	0.00	0.00
15,500.0	90.00	179.69	11,902.0	-3,679.2	426.3	3,695.3	0.00	0.00	0.00
15,600.0	90.00	179.69	11,902.0	-3,779.2	426.8	3,795.2	0.00	0.00	0.00
15,700.0	90.00	179.69	11,902.0	-3,879.2	427.4	3,895.1	0.00	0.00	0.00
15,800.0	90.00	179.69	11,902.0	-3,979.2	427.9	3,995.0	0.00	0.00	0.00
15,900.0	90.00	179.69	11,902.0	-4,079.2	428.4	4,094.9	0.00	0.00	0.00
16,000.0	90.00	179.69	11,902.0	-4,179.2	429.0	4,194.8	0.00	0.00	0.00
16,100.0	90.00	179.69	11,902.0	-4,279.2	429.5	4,294.7	0.00	0.00	0.00
16,200.0	90.00	179.69	11,902.0	-4,379.2	430.1	4,394.6	0.00	0.00	0.00
16,300.0	90.00	179.69	11,902.0	-4,479.2	430.6	4,494.6	0.00	0.00	0.00
16,400.0	90.00	179.69	11,902.0	-4,579.2	431.2	4,594.5	0.00	0.00	0.00
16,500.0	90.00	179.69	11,902.0	-4,679.2	431.7	4,694.4	0.00	0.00	0.00
16,600.0	90.00	179.69	11,902.0	-4,779.2	432.3	4,794.3	0.00	0.00	0.00
16,700.0	90.00	179.69	11,902.0	-4,879.2	432.8	4,894.2	0.00	0.00	0.00
16,800.0	90.00	179.69	11,902.0	-4,979.2	433.4	4,994.1	0.00	0.00	0.00
16,900.0	90.00	179.69	11,902.0	-5,079.2	433.9	5,094.0	0.00	0.00	0.00
17,000.0	90.00	179.69	11,902.0	-5,179.2	434.5	5,193.9	0.00	0.00	0.00
17,100.0	90.00	179.69	11,902.0	-5,279.2	435.0	5,293.9	0.00	0.00	0.00

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Well:	ZIA HILLS 20 FED COM #115H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	EDT 15 Central Prod

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,200.0	90.00	179.69	11,902.0	-5,379.2	435.5	5,393.8	0.00	0.00	0.00
17,300.0	90.00	179.69	11,902.0	-5,479.2	436.1	5,493.7	0.00	0.00	0.00
17,400.0	90.00	179.69	11,902.0	-5,579.2	436.6	5,593.6	0.00	0.00	0.00
17,500.0	90.00	179.69	11,902.0	-5,679.2	437.2	5,693.5	0.00	0.00	0.00
17,600.0	90.00	179.69	11,902.0	-5,779.2	437.7	5,793.4	0.00	0.00	0.00
17,700.0	90.00	179.69	11,902.0	-5,879.2	438.3	5,893.3	0.00	0.00	0.00
17,800.0	90.00	179.69	11,902.0	-5,979.2	438.8	5,993.3	0.00	0.00	0.00
17,900.0	90.00	179.69	11,902.0	-6,079.2	439.4	6,093.2	0.00	0.00	0.00
18,000.0	90.00	179.69	11,902.0	-6,179.2	439.9	6,193.1	0.00	0.00	0.00
18,100.0	90.00	179.69	11,902.0	-6,279.2	440.5	6,293.0	0.00	0.00	0.00
18,200.0	90.00	179.69	11,902.0	-6,379.2	441.0	6,392.9	0.00	0.00	0.00
18,300.0	90.00	179.69	11,902.0	-6,479.2	441.6	6,492.8	0.00	0.00	0.00
18,400.0	90.00	179.69	11,902.0	-6,579.2	442.1	6,592.7	0.00	0.00	0.00
18,500.0	90.00	179.69	11,902.0	-6,679.2	442.6	6,692.6	0.00	0.00	0.00
18,600.0	90.00	179.69	11,902.0	-6,779.2	443.2	6,792.6	0.00	0.00	0.00
18,700.0	90.00	179.69	11,902.0	-6,879.2	443.7	6,892.5	0.00	0.00	0.00
18,800.0	90.00	179.69	11,902.0	-6,979.2	444.3	6,992.4	0.00	0.00	0.00
18,900.0	90.00	179.69	11,902.0	-7,079.2	444.8	7,092.3	0.00	0.00	0.00
19,000.0	90.00	179.69	11,902.0	-7,179.2	445.4	7,192.2	0.00	0.00	0.00
19,100.0	90.00	179.69	11,902.0	-7,279.2	445.9	7,292.1	0.00	0.00	0.00
19,200.0	90.00	179.69	11,902.0	-7,379.2	446.5	7,392.0	0.00	0.00	0.00
19,300.0	90.00	179.69	11,902.0	-7,479.2	447.0	7,491.9	0.00	0.00	0.00
19,400.0	90.00	179.69	11,902.0	-7,579.2	447.6	7,591.9	0.00	0.00	0.00
19,500.0	90.00	179.69	11,902.0	-7,679.2	448.1	7,691.8	0.00	0.00	0.00
19,600.0	90.00	179.69	11,902.0	-7,779.2	448.7	7,791.7	0.00	0.00	0.00
19,700.0	90.00	179.69	11,902.0	-7,879.2	449.2	7,891.6	0.00	0.00	0.00
19,800.0	90.00	179.69	11,902.0	-7,979.2	449.7	7,991.5	0.00	0.00	0.00
19,900.0	90.00	179.69	11,902.0	-8,079.2	450.3	8,091.4	0.00	0.00	0.00
20,000.0	90.00	179.69	11,902.0	-8,179.2	450.8	8,191.3	0.00	0.00	0.00
20,100.0	90.00	179.69	11,902.0	-8,279.2	451.4	8,291.2	0.00	0.00	0.00
20,200.0	90.00	179.69	11,902.0	-8,379.2	451.9	8,391.2	0.00	0.00	0.00
20,300.0	90.00	179.69	11,902.0	-8,479.2	452.5	8,491.1	0.00	0.00	0.00
20,400.0	90.00	179.69	11,902.0	-8,579.2	453.0	8,591.0	0.00	0.00	0.00
20,500.0	90.00	179.69	11,902.0	-8,679.2	453.6	8,690.9	0.00	0.00	0.00
20,600.0	90.00	179.69	11,902.0	-8,779.2	454.1	8,790.8	0.00	0.00	0.00
20,700.0	90.00	179.69	11,902.0	-8,879.2	454.7	8,890.7	0.00	0.00	0.00
20,800.0	90.00	179.69	11,902.0	-8,979.2	455.2	8,990.6	0.00	0.00	0.00
20,900.0	90.00	179.69	11,902.0	-9,079.2	455.8	9,090.6	0.00	0.00	0.00
21,000.0	90.00	179.69	11,902.0	-9,179.2	456.3	9,190.5	0.00	0.00	0.00
21,100.0	90.00	179.69	11,902.0	-9,279.2	456.8	9,290.4	0.00	0.00	0.00
21,200.0	90.00	179.69	11,902.0	-9,379.2	457.4	9,390.3	0.00	0.00	0.00
21,300.0	90.00	179.69	11,902.0	-9,479.2	457.9	9,490.2	0.00	0.00	0.00
21,400.0	90.00	179.69	11,902.0	-9,579.2	458.5	9,590.1	0.00	0.00	0.00

ConocoPhillips
Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS 20 FED COM #115H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	KB=31' @ 3172.3usft (N 894)
Site:	ZIA HILLS 20 FED COM PROJECT	MD Reference:	KB=31' @ 3172.3usft (N 894)
Well:	ZIA HILLS 20 FED COM #115H	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)
21,500.0	90.00	179.69	11,902.0	-9,679.2	459.0	9,690.0	0.00	0.00	0.00
21,543.7	90.00	179.69	11,902.0	-9,722.9	459.3	9,733.7	0.00	0.00	0.00
TD at 21543.7									

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- Shape										
PBHL(ZIA HILLS 20 F	0.00	359.69	11,902.0	-9,722.9	459.3	364,407.13	699,680.14	32° 0' 0.841 N		103° 41' 21.110 W
- plan hits target center										
- Rectangle (sides W100.0 H9,830.0 D20.0)										
FTP(ZIA HILLS 20 FE	0.00	0.00	11,902.0	44.0	403.9	374,174.08	699,624.79	32° 1' 37.498 N		103° 41' 21.077 W
- plan misses target center by 164.8usft at 11857.7usft MD (11782.0 TVD, -66.8 N, 425.8 E)										
- Circle (radius 50.0)										
LTP(ZIA HILLS 20 FE	0.00	0.00	11,902.0	-9,672.9	458.9	364,457.13	699,679.81	32° 0' 1.335 N		103° 41' 21.110 W
- plan misses target center by 0.1usft at 21493.7usft MD (11902.0 TVD, -9672.9 N, 459.0 E)										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2500	2500	0	0	Start Build 2.00	
2900	2899	6	27	Start 2587.6 hold at 2900.0 MD	
5488	5461	82	379	Start Drop -1.00	
6288	6259	94	434	Start 5165.9 hold at 6287.6 MD	
11,454	11,425	94	434	Start Build 12.00	
12,204	11,902	-383	410	Start DLS 4.00 TFO -90.00	
12,281	11,902	-461	409	Start 9262.3 hold at 12281.4 MD	
21,544	11,902	-9723	459	TD at 21543.7	

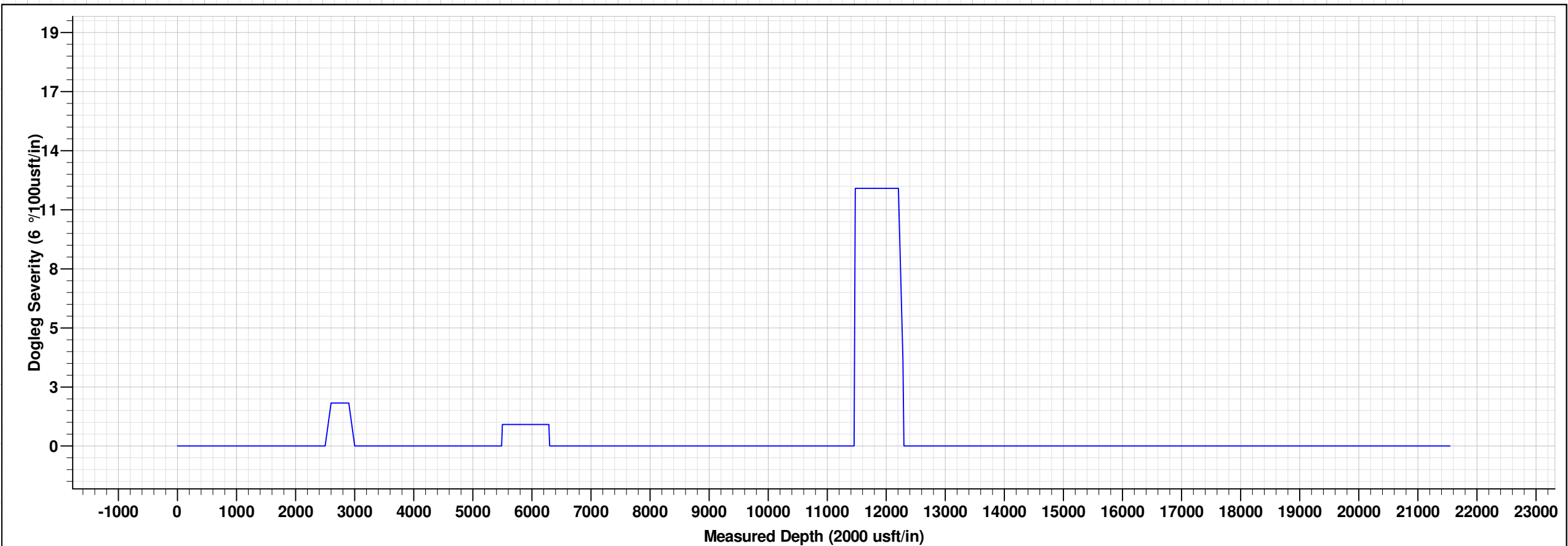
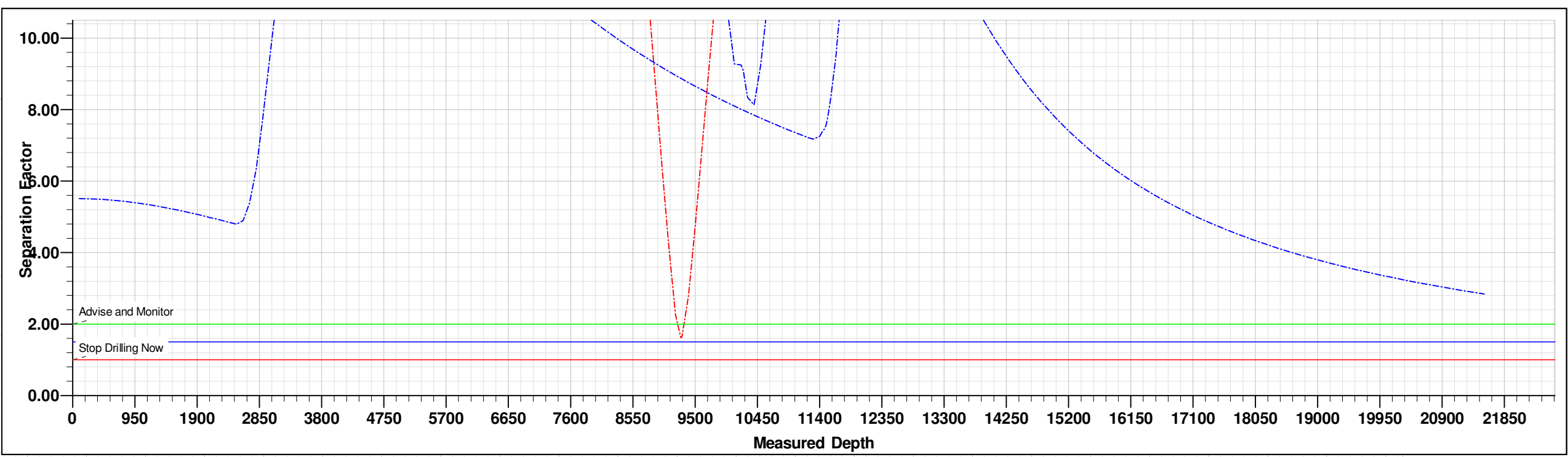
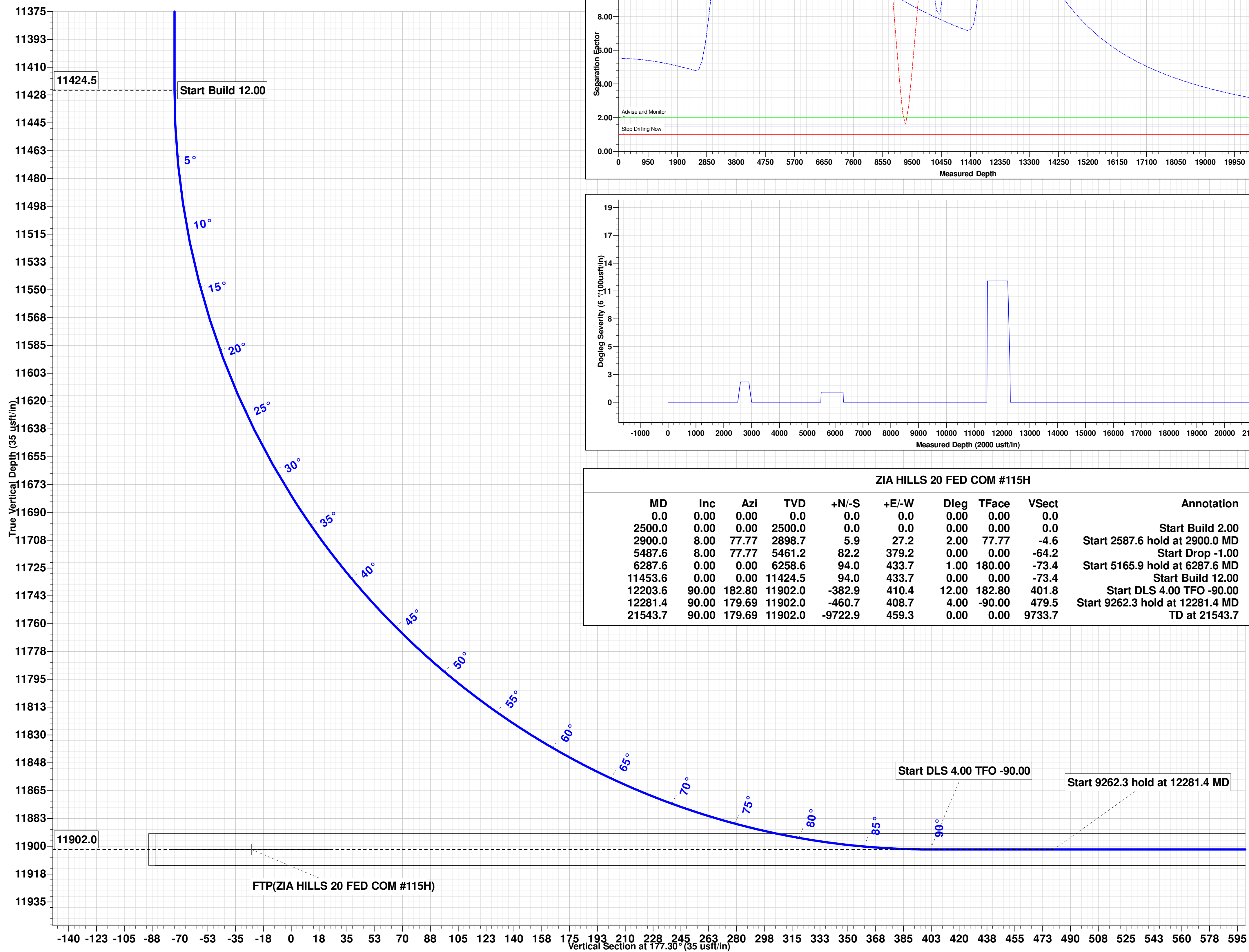
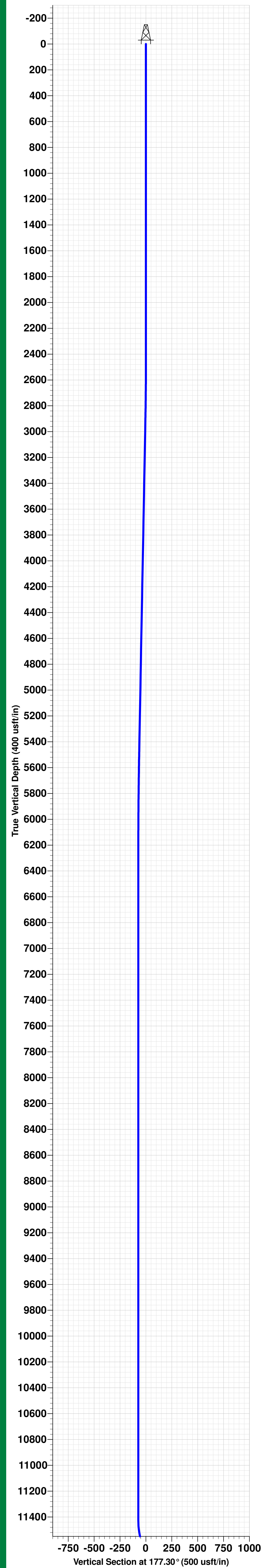
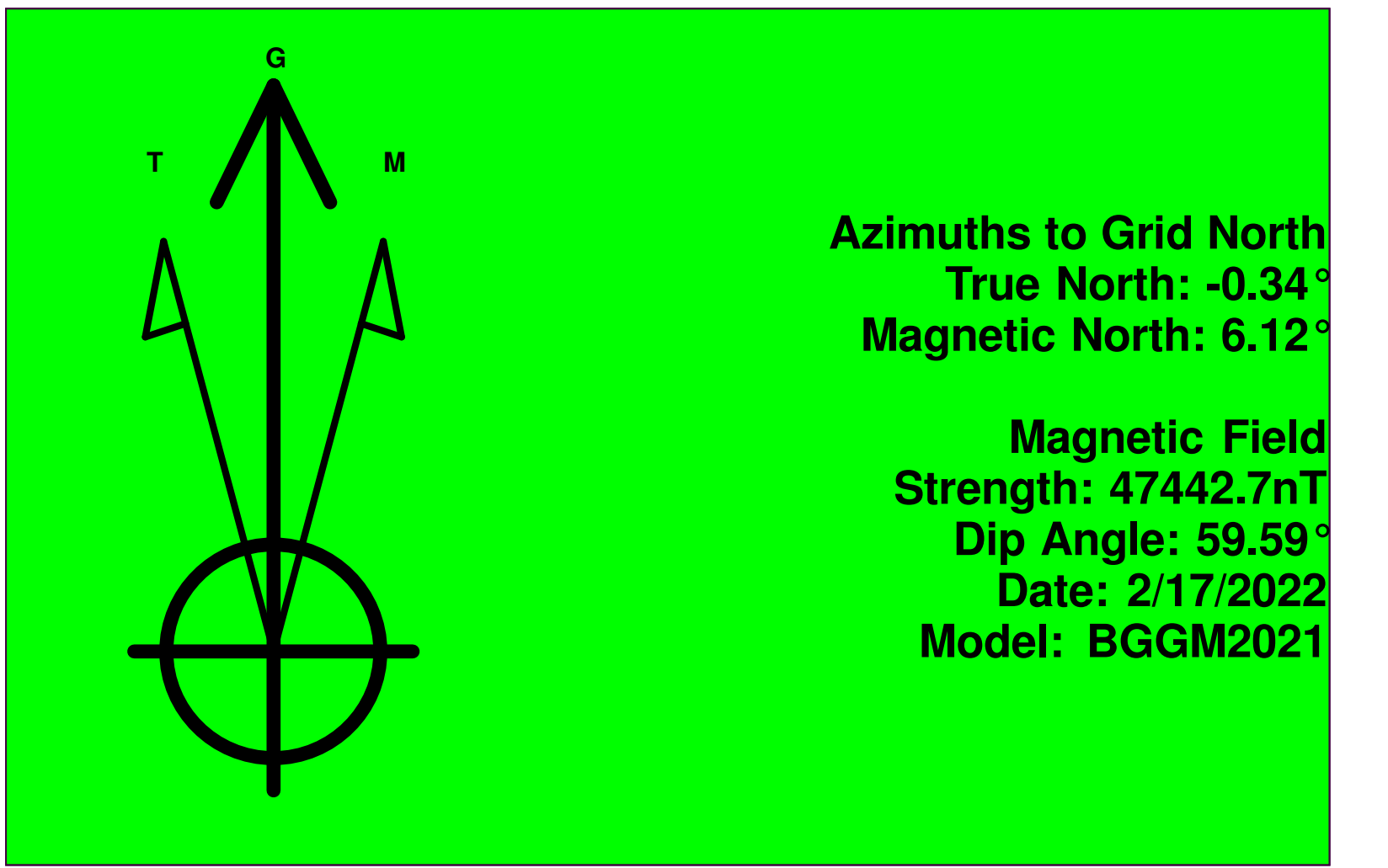
Checked By: _____	Approved By: _____	Date: _____
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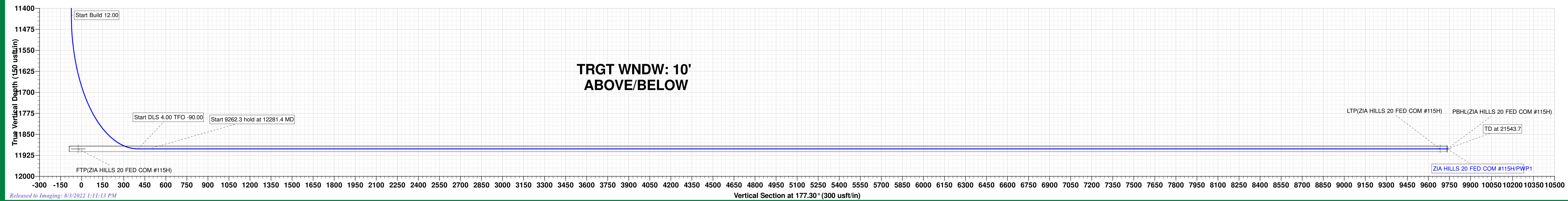
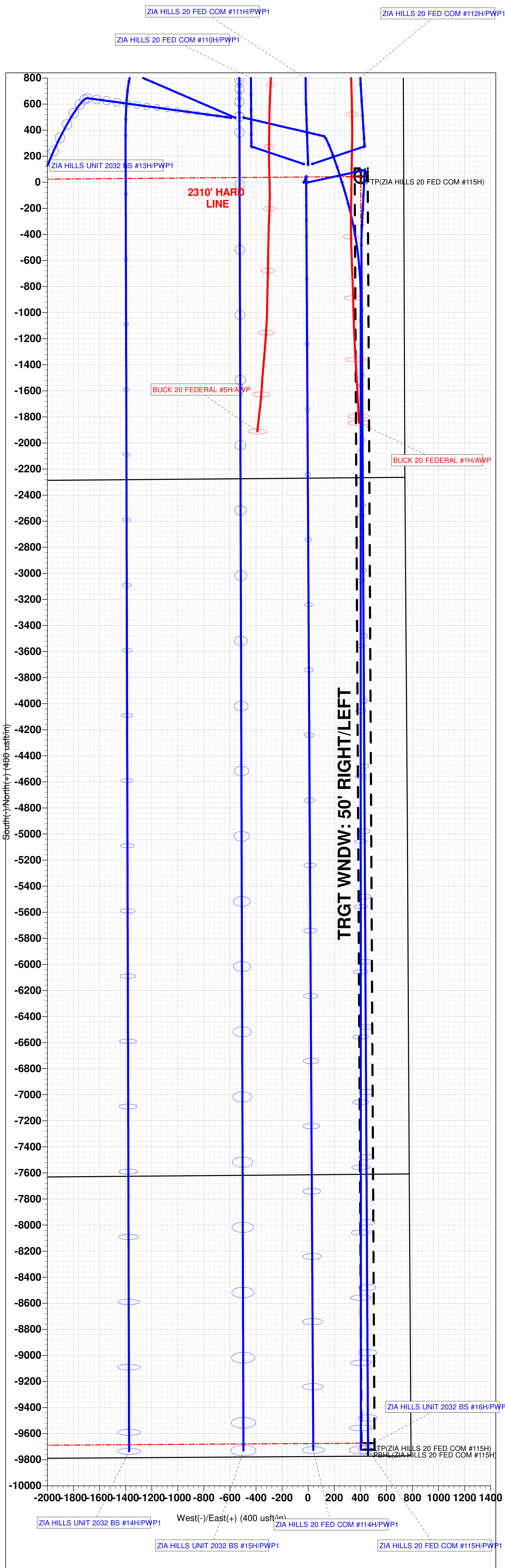
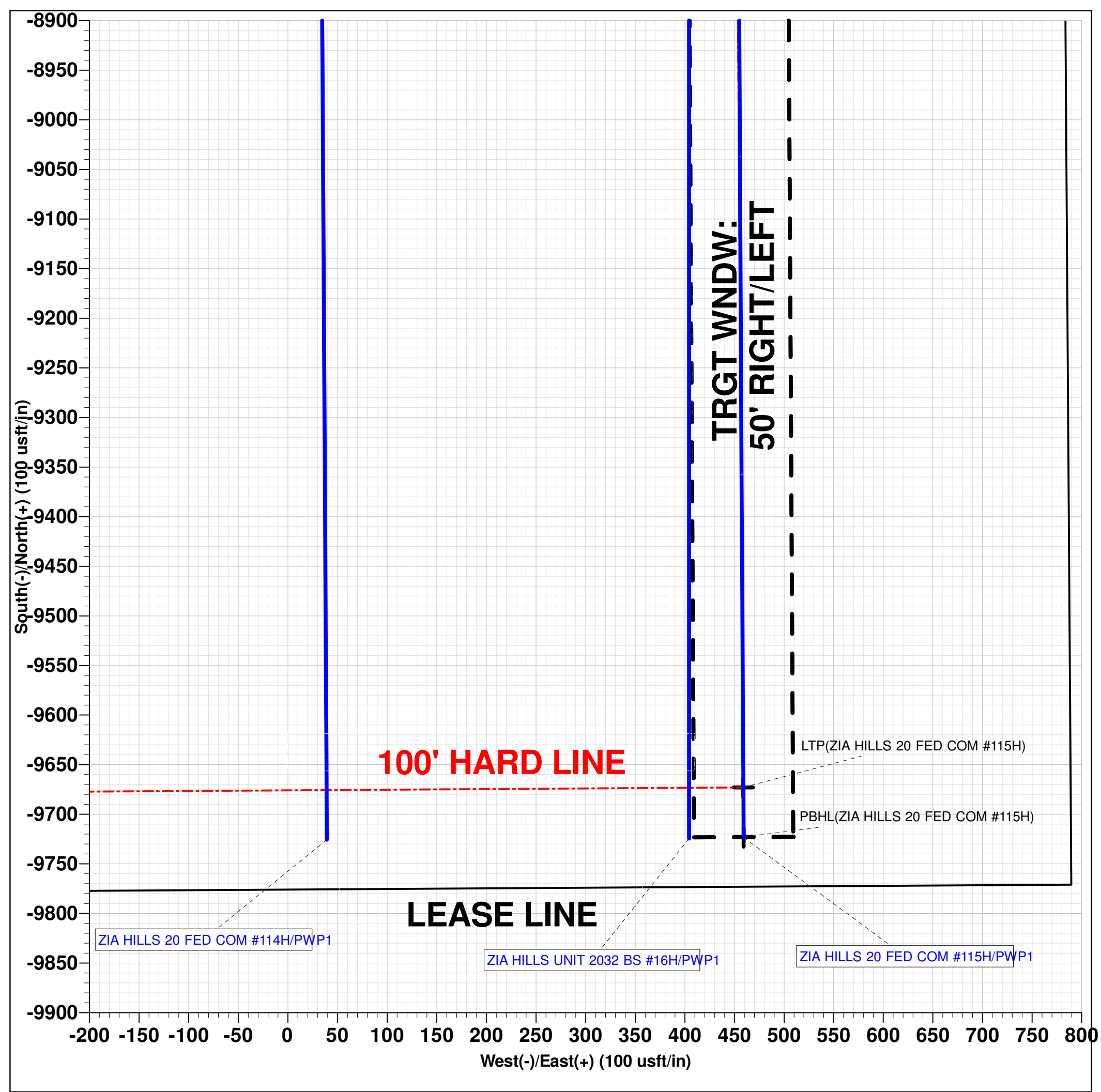
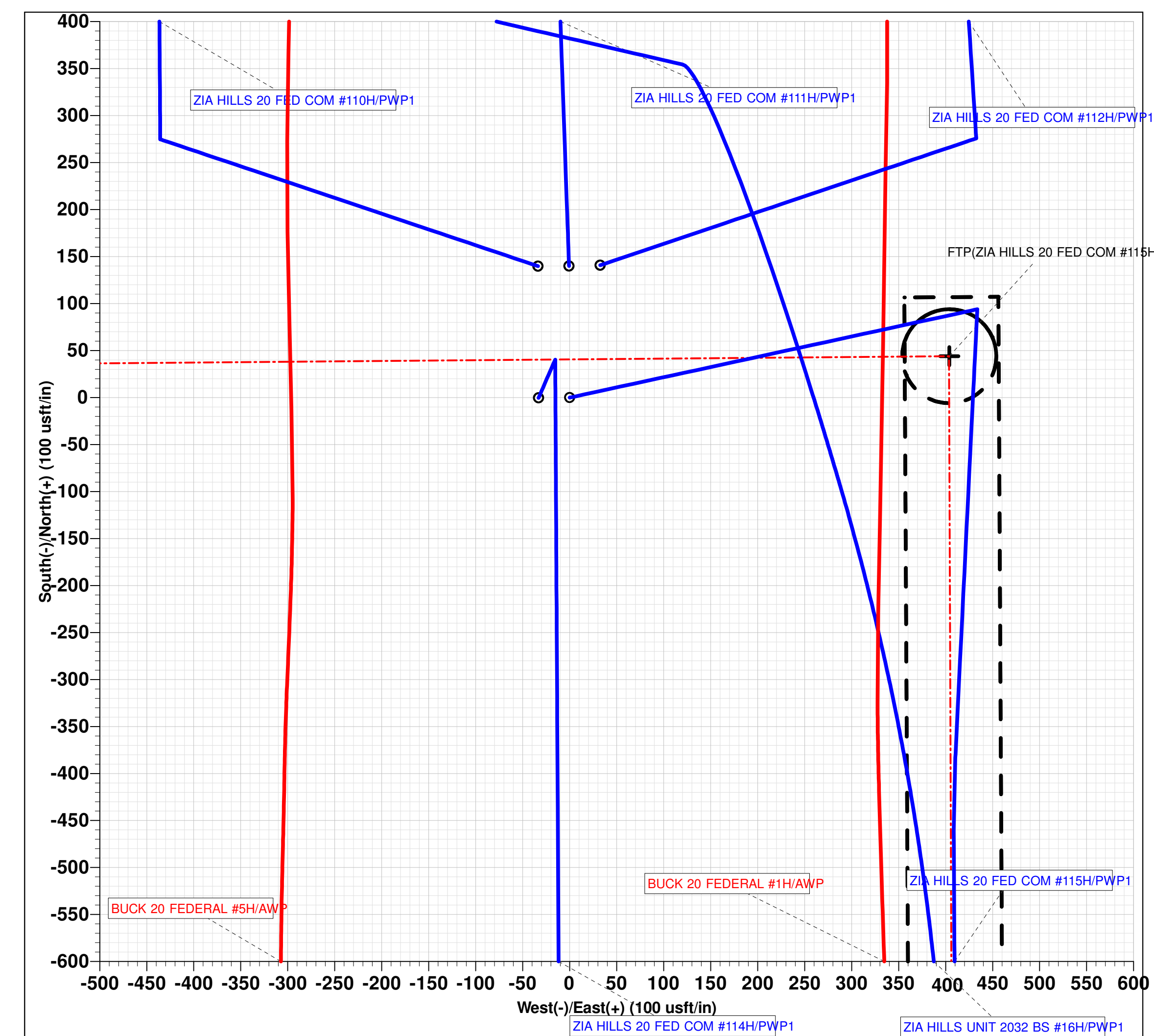
Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS 20 FED COM PROJECT
Well: ZIA HILLS 20 FED COM #115H
Wellbore: OWB
Design: PWP1
GL: 3141.3
KB=31' @ 3172.3usft (N 894)

WELL DETAILS: ZIA HILLS 20 FED COM #115H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374130.03	699220.87	32° 1' 37.096 N	103° 41' 25.771 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP(ZIA HILLS 20 FED COM #115H)	11902.0	44.0	403.9	374174.08	699624.79	32° 1' 37.498 N
LTP(ZIA HILLS 20 FED COM #115H)	11902.0	-9672.9	458.9	364457.13	699679.81	32° 0' 1.335 N
PBHL(ZIA HILLS 20 FED COM #115H)	11902.0	-9722.9	459.3	364407.13	699680.14	32° 0' 0.841 N



ZIA HILLS 20 FED COM #115H									
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
2900.0	8.00	77.77	2898.7	5.9	27.2	2.00	77.77	-4.6	Start 2587.6 hold at 2900.0 MD
5487.6	8.00	77.77	5481.2	82.2	379.2	0.00	0.00	-64.2	Start Drop -1.00
6287.6	0.00	0.00	6258.6	94.0	433.7	1.00	180.00	-73.4	Start 5165.9 hold at 6287.6 MD
11453.6	0.00	0.00	11424.5	94.0	433.7	0.00	0.00	-73.4	Start Build 12.00
12203.6	90.00	182.80	11902.0	-382.9	410.4	12.00	182.80	401.8	Start DLS 4.00 TFO -90.00
12281.4	90.00	179.69	11902.0	-460.7	408.7	4.00	-90.00	479.5	Start 9262.3 hold at 12281.4 MD
21543.7	90.00	179.69	11902.0	-9722.9	459.3	0.00	0.00	9733.7	TD at 21543.7



TRGT WNDW: 10'
ABOVE/BELOW

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

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

CONDITIONS

Action 130181

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 130181
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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