

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-025-55001
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval 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.
 Conditions of approval, if any, are attached.

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.

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NWN / 250 FNL / 2650 FEL / TWSP: 26S / RANGE: 32E / SECTION: 26 / LAT: 32.020208 / LONG: -103.645598 (TVD: 0 feet, MD: 0 feet)

PPP: NWN / 100 FNL / 2310 FEL / TWSP: 26S / RANGE: 32E / SECTION: 26 / LAT: 32.02062 / LONG: -103.644501 (TVD: 12061 feet, MD: 12159 feet)

PPP: SWNE / 1337 FNL / 2310 FEL / TWSP: 26S / RANGE: 32E / SECTION: 26 / LAT: 32.01722 / LONG: -103.644494 (TVD: 12184 feet, MD: 13380 feet)

PPP: NWN / 1 FNL / 2310 FEL / TWSP: 26S / RANGE: 32E / SECTION: 35 / LAT: 32.006194 / LONG: -103.644471 (TVD: 12184 feet, MD: 17340 feet)

BHL: LOT 2 / 50 FSL / 2310 FEL / TWSP: 26S / RANGE: 32E / SECTION: 35 / LAT: 32.000369 / LONG: -103.644474 (TVD: 12184 feet, MD: 19444 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-025- 55001	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 337705	Property Name ZIA HILLS UNIT 2632 WC	Well Number 707H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,120'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL B	Section 26	Township 26S	Range 32E	Lot	Ft. from N/S 250' FNL	Ft. from E/W 2,650' FEL	Latitude 32.020208°	Longitude -103.645598°	County LEA
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Bottom Hole Location

UL LOT 2	Section 35	Township 26S	Range 32E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 2,310' FEL	Latitude 32.000369°	Longitude -103.644474°	County LEA
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Dedicated Acres 899.64	Infill or Defining Well Infill	Defining Well API Pending 708H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL B	Section 26	Township 26S	Range 32E	Lot	Ft. from N/S 250' FNL	Ft. from E/W 2,650' FEL	Latitude 32.020208°	Longitude -103.645598°	County LEA
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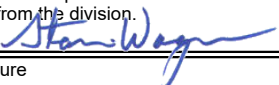
First Take Point (FTP)

UL B	Section 26	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 2,310' FEL	Latitude 32.020620°	Longitude -103.644501°	County LEA
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Last Take Point (LTP)

UL LOT 2	Section 35	Township 26S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 2,310' FEL	Latitude 32.000507°	Longitude -103.644473°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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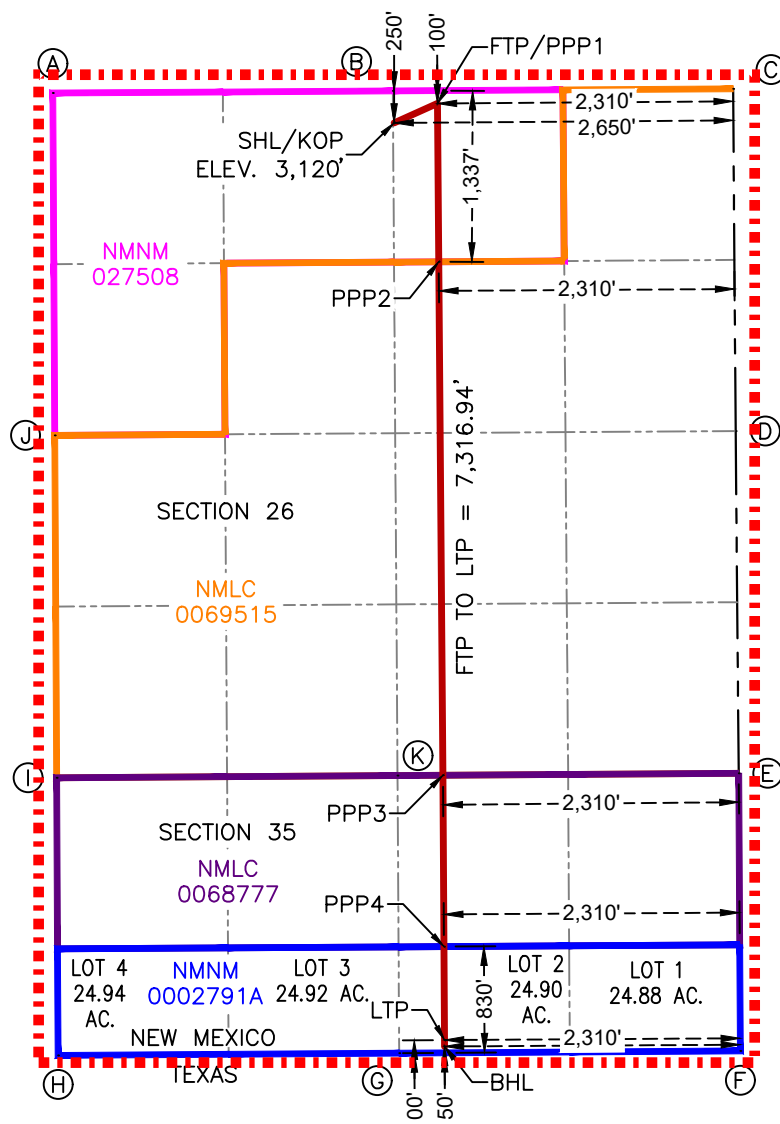
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  Signature Stan Wagner Printed Name Email Address		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 3/19/2025 Signature and Seal of Professional Surveyor Certificate Number 12177 Date of Survey 3/19/2025	
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Note: 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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

ZIA HILLS UNIT 2632 WC 707H

**SURFACE HOLE LOCATION
& KICK-OFF POINT**
250' FNL & 2,650' FEL
ELEV.=3,120'

NAD 83 X = 754,482.87'
NAD 83 Y = 371,768.76'
NAD 83 LAT = 32.020208°
NAD 83 LONG = -103.645598°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 2,310' FEL
NAD 83 X = 754,821.73'
NAD 83 Y = 371,920.91'
NAD 83 LAT = 32.020620°
NAD 83 LONG = -103.644501°

PENETRATION POINT 2
1,337' FNL & 2,310' FEL
NAD 83 X = 754,831.84'
NAD 83 Y = 370,683.96'
NAD 83 LAT = 32.017220°
NAD 83 LONG = -103.644494°

PENETRATION POINT 3
0' FSL & 2,310' FEL
NAD 83 X = 754,864.59'
NAD 83 Y = 366,673.01'
NAD 83 LAT = 32.006194°
NAD 83 LONG = -103.644471°

PENETRATION POINT 4
830' FSL & 2,310' FEL
NAD 83 X = 754,872.58'
NAD 83 Y = 365,334.57'
NAD 83 LAT = 32.002515°
NAD 83 LONG = -103.644472°

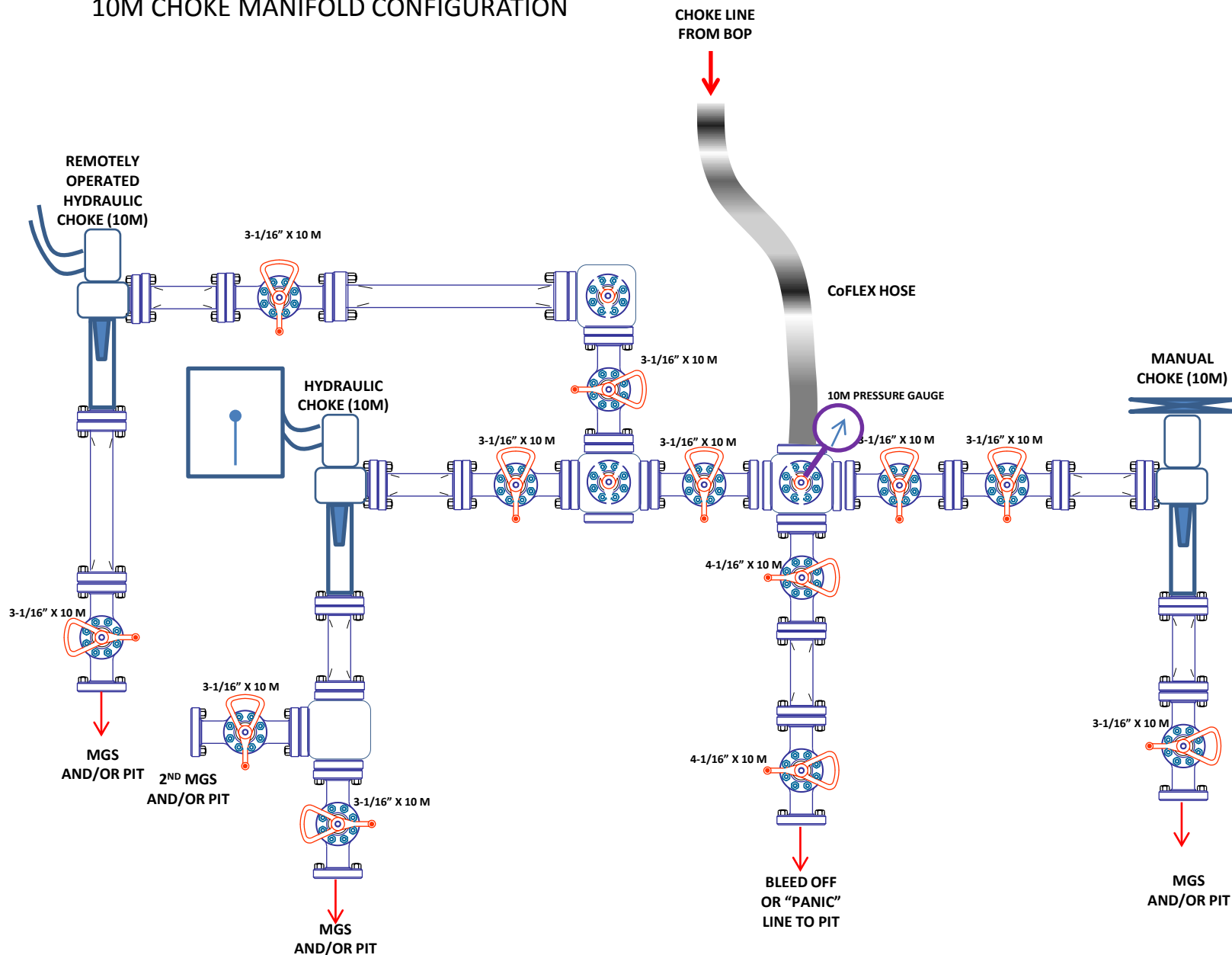
LAST TAKE POINT
100' FSL & 2,310' FEL
NAD 83 X = 754,876.94'
NAD 83 Y = 364,604.19'
NAD 83 LAT = 32.000507°
NAD 83 LONG = -103.644473°

BOTTOM HOLE LOCATION
50' FSL & 2,310' FEL
NAD 83 X = 754,877.24'
NAD 83 Y = 364,554.19'
NAD 83 LAT = 32.000369°
NAD 83 LONG = -103.644474°

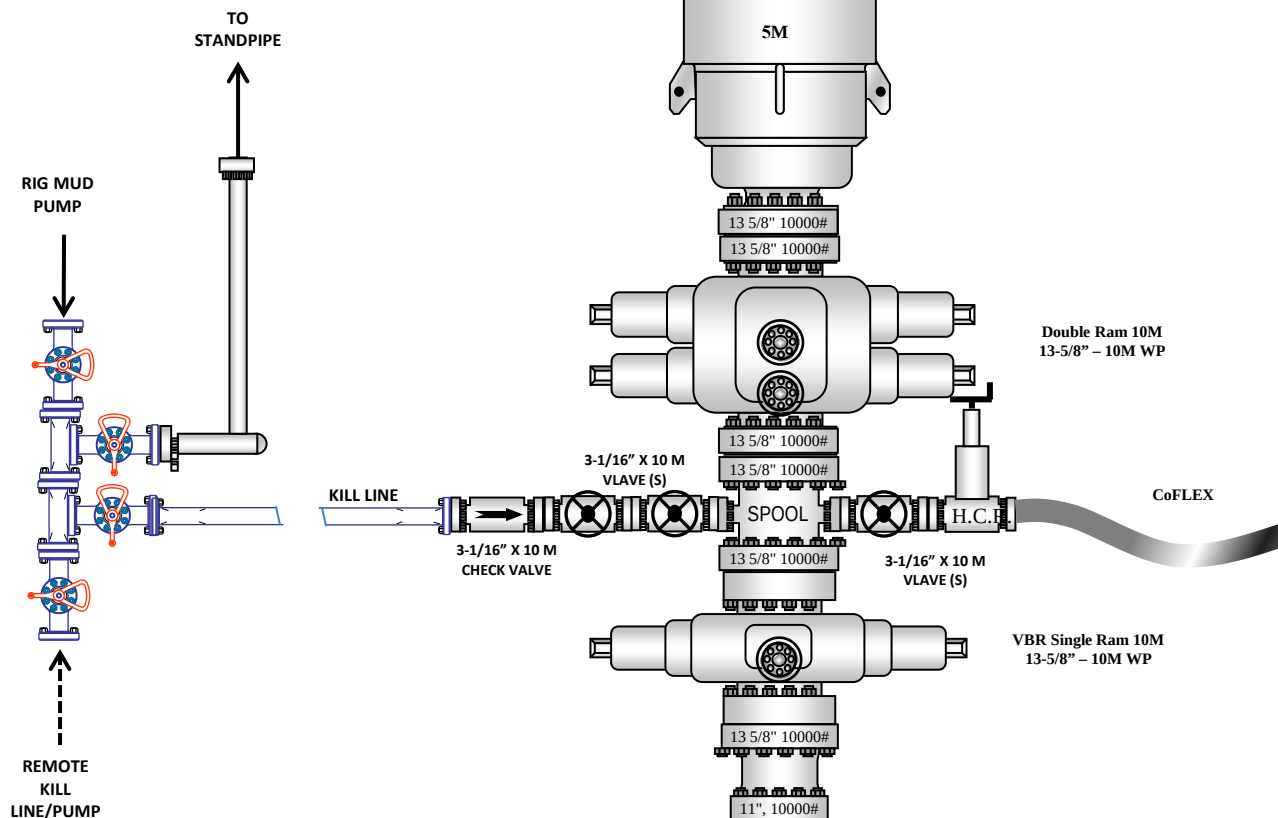
**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

A	IRON PIPE W/BRASS CAP N:372,002.66' E:751,816.12'	E	IRON PIPE W/BRASS CAP N:366,688.03' E:757,174.54'	I	IRON PIPE W/BRASS CAP N:366,653.36' E:751,847.09'
B	IRON PIPE W/BRASS CAP N:372,018.70' E:754,473.10'	F	IRON PIPE W/BRASS CAP N:364,519.44' E:757,187.49'	J	IRON PIPE W/BRASS CAP N:369,328.01' E:751,832.61'
C	IRON PIPE W/BRASS CAP N:372,035.56' E:757,130.94'	G	IRON PIPE W/BRASS CAP N:364,501.85' E:754,523.20'	K	IRON PIPE W/BRASS CAP N:366,670.70' E:754,509.98'
D	IRON PIPE W/BRASS CAP N:369,361.57' E:757,151.04'	H	IRON PIPE W/BRASS CAP N:364,483.39' E:751,858.43'		

10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



ConocoPhillips Company - Zia Hills Unit 2632 WC 707H

1. Geologic Formations

TVD of target	12,184' EOL	Pilot hole depth	NA
MD at TD:	19,444'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1218	Water	
Top of Salt	1332	Salt	
Base of Salt	4247	Salt	
Lamar	4519	Salt Water	
Bell Canyon	4543	Salt Water	
Cherry Canyon	5547	Oil/Gas	
Brushy Canyon	7211	Oil/Gas	
Bone Spring	8602	Oil/Gas	
1st Bone Spring Sand	9680	Oil/Gas	
2nd Bone Spring Sand	10381	Oil/Gas	
3rd Bone Spring Sand	11454	Oil/Gas	
Wolfcamp	11852	Oil/Gas	
Wolfcamp A	12062	Target Oil/Gas	
Wolfcamp B	12358	Not Penetrated	

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	1070	10.75"	45.5	J55	BTC	4.27	1.04	14.69	16.35
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	1.38	1.00	2.98	3.01
8.750"	8200	11600	7.625"	29.7	P110-ICY	W513	1.22	1.51	3.10	1.86
6.75"	0	11400	5.5"	23	P110-CY	BTC	1.82	1.96	2.78	2.78
6.75"	11400	19,444	5.5"	23	P110-CY	W441	1.70	1.98	2.60	2.36
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	1070	13.375"	54.5	J55	BTC	2.31	1.47	14.63	15.59
12.25"	0	4420	9.625"	40	L80-IC	BTC	1.68	1.27	5.18	5.36
8.75"	4220	11600	7.625"	29.7	P110-ICY	W513	1.22	1.51	3.10	1.86
6.75"	0	11400	5.5"	23	P110-CY	BTC	1.82	2.12	2.78	2.78
6.75"	11400	19,444	5.5"	23	P110-CY	W441	1.70	1.98	2.60	2.36
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 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

The 5 1/2" W441 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.

October 8, 2024

1

ConocoPhillips Company - Zia Hills Unit 2632 WC 707H

	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 Company - Zia Hills Unit 2632 WC 707H

3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	520	12.8	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	820	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	720	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	610	13.2	1.34	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	11,100'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	640	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
Int. #1	650	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	830	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	610	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	4,220'	20%
Production	11,100'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2632 WC 707H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4" or 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	5000psi
			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 43 CFR Part 3170 Subpart 3172 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 43 CFR Part 3170 Subpart 3172.
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 43 CFR Part 3170 Subpart 3172 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 Company - Zia Hills Unit 2632 WC 707H

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 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	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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5b. Contingency 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	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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 Company - Zia Hills Unit 2632 WC 707H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8555 psi at 12184' 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 43 CFR Part 3170 Subpart 3176. 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

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

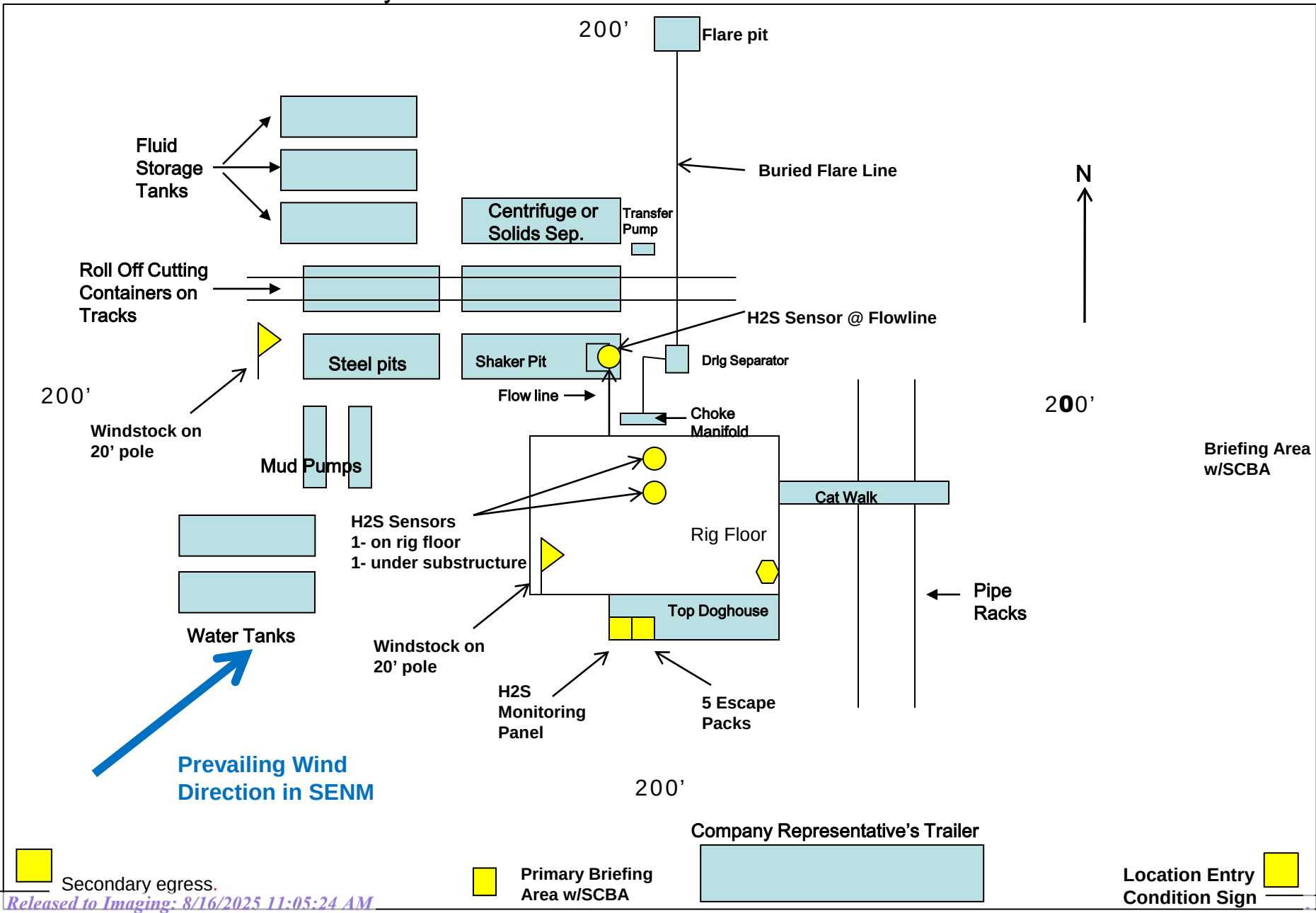
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

COG Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400'
with cellar in center of pad



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2632 PROJECT

**_ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632
WC 707H**

OWB

Plan: PWP0

Standard Planning Report

18 July, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2632 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	ZIA HILLS UNIT AREA		
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 UNIT 2632 PROJECT			
Site Position:		Northing:	368,207.63 usft	Latitude:	32° 0' 37.622 N
From:	Map	Easting:	713,271.31 usft	Longitude:	103° 38' 43.004 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	_ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H					
Well Position	+N/-S	0.0 usft	Northing:	371,717.87 usft	Latitude:	32° 1' 12.298 N
	+E/-W	0.0 usft	Easting:	714,244.25 usft	Longitude:	103° 38' 31.444 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,125.0 usft
Grid Convergence:		0.37 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.31	59.53	47,253.56290409

Design	PWP0			
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	184.48

Plan Survey Tool Program	Date	7/18/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,444.6 PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1 rev.5		

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2632 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,350.0	5.00	310.00	1,349.7	7.0	-8.4	2.00	2.00	0.00	310.00	
1,635.7	9.99	287.16	1,633.0	22.3	-41.6	2.00	1.75	-7.99	-42.54	
4,553.4	9.99	287.16	4,506.4	171.6	-525.0	0.00	0.00	0.00	0.00	
5,552.0	0.00	0.00	5,500.0	197.2	-608.0	1.00	-1.00	0.00	180.00	
11,758.5	0.00	0.00	11,706.5	197.2	-608.0	0.00	0.00	0.00	0.00	
12,508.5	90.00	179.67	12,184.0	-280.3	-605.3	12.00	12.00	23.96	179.67	
19,444.6	90.00	179.67	12,184.0	-7,216.2	-565.5	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

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Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2632 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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	
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	2.00	310.00	1,200.0	1.1	-1.3	-1.0	2.00	2.00	0.00	
1,300.0	4.00	310.00	1,299.8	4.5	-5.3	-4.1	2.00	2.00	0.00	
1,350.0	5.00	310.00	1,349.7	7.0	-8.4	-6.3	2.00	2.00	0.00	
1,400.0	5.78	303.27	1,399.5	9.8	-12.1	-8.8	2.00	1.55	-13.46	
1,500.0	7.49	294.25	1,498.8	15.2	-22.3	-13.4	2.00	1.71	-9.02	
1,600.0	9.32	288.66	1,597.7	20.5	-35.9	-17.6	2.00	1.83	-5.59	
1,635.7	9.99	287.16	1,633.0	22.3	-41.6	-19.0	2.00	1.87	-4.20	
1,700.0	9.99	287.16	1,696.2	25.6	-52.2	-21.5	0.00	0.00	0.00	
1,800.0	9.99	287.16	1,794.7	30.7	-68.8	-25.3	0.00	0.00	0.00	
1,900.0	9.99	287.16	1,893.2	35.9	-85.4	-29.1	0.00	0.00	0.00	
2,000.0	9.99	287.16	1,991.7	41.0	-101.9	-32.9	0.00	0.00	0.00	
2,100.0	9.99	287.16	2,090.2	46.1	-118.5	-36.7	0.00	0.00	0.00	
2,200.0	9.99	287.16	2,188.7	51.2	-135.1	-40.5	0.00	0.00	0.00	
2,300.0	9.99	287.16	2,287.1	56.3	-151.7	-44.3	0.00	0.00	0.00	
2,400.0	9.99	287.16	2,385.6	61.4	-168.2	-48.1	0.00	0.00	0.00	
2,500.0	9.99	287.16	2,484.1	66.5	-184.8	-51.9	0.00	0.00	0.00	
2,600.0	9.99	287.16	2,582.6	71.7	-201.4	-55.7	0.00	0.00	0.00	
2,700.0	9.99	287.16	2,681.1	76.8	-217.9	-59.5	0.00	0.00	0.00	
2,800.0	9.99	287.16	2,779.6	81.9	-234.5	-63.3	0.00	0.00	0.00	
2,900.0	9.99	287.16	2,878.1	87.0	-251.1	-67.1	0.00	0.00	0.00	
3,000.0	9.99	287.16	2,976.5	92.1	-267.7	-70.9	0.00	0.00	0.00	
3,100.0	9.99	287.16	3,075.0	97.2	-284.2	-74.7	0.00	0.00	0.00	
3,200.0	9.99	287.16	3,173.5	102.4	-300.8	-78.5	0.00	0.00	0.00	
3,300.0	9.99	287.16	3,272.0	107.5	-317.4	-82.4	0.00	0.00	0.00	
3,400.0	9.99	287.16	3,370.5	112.6	-333.9	-86.2	0.00	0.00	0.00	
3,500.0	9.99	287.16	3,469.0	117.7	-350.5	-90.0	0.00	0.00	0.00	
3,600.0	9.99	287.16	3,567.4	122.8	-367.1	-93.8	0.00	0.00	0.00	
3,700.0	9.99	287.16	3,665.9	127.9	-383.6	-97.6	0.00	0.00	0.00	
3,800.0	9.99	287.16	3,764.4	133.0	-400.2	-101.4	0.00	0.00	0.00	
3,900.0	9.99	287.16	3,862.9	138.2	-416.8	-105.2	0.00	0.00	0.00	
4,000.0	9.99	287.16	3,961.4	143.3	-433.4	-109.0	0.00	0.00	0.00	
4,100.0	9.99	287.16	4,059.9	148.4	-449.9	-112.8	0.00	0.00	0.00	
4,200.0	9.99	287.16	4,158.4	153.5	-466.5	-116.6	0.00	0.00	0.00	
4,300.0	9.99	287.16	4,256.8	158.6	-483.1	-120.4	0.00	0.00	0.00	
4,400.0	9.99	287.16	4,355.3	163.7	-499.6	-124.2	0.00	0.00	0.00	
4,500.0	9.99	287.16	4,453.8	168.9	-516.2	-128.0	0.00	0.00	0.00	
4,553.4	9.99	287.16	4,506.4	171.6	-525.0	-130.1	0.00	0.00	0.00	
4,600.0	9.52	287.16	4,552.3	173.9	-532.6	-131.8	1.00	-1.00	0.00	
4,700.0	8.52	287.16	4,651.1	178.5	-547.6	-135.2	1.00	-1.00	0.00	
4,800.0	7.52	287.16	4,750.1	182.7	-560.9	-138.3	1.00	-1.00	0.00	
4,900.0	6.52	287.16	4,849.4	186.3	-572.6	-141.0	1.00	-1.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2632 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.0	5.52	287.16	4,948.8	189.4	-582.6	-143.3	1.00	-1.00	0.00	
5,100.0	4.52	287.16	5,048.4	191.9	-591.0	-145.2	1.00	-1.00	0.00	
5,200.0	3.52	287.16	5,148.2	194.0	-597.7	-146.7	1.00	-1.00	0.00	
5,300.0	2.52	287.16	5,248.0	195.6	-602.7	-147.9	1.00	-1.00	0.00	
5,400.0	1.52	287.16	5,348.0	196.6	-606.1	-148.7	1.00	-1.00	0.00	
5,500.0	0.52	287.16	5,448.0	197.1	-607.8	-149.1	1.00	-1.00	0.00	
5,552.0	0.00	0.00	5,500.0	197.2	-608.0	-149.1	1.00	-1.00	0.00	
5,600.0	0.00	0.00	5,548.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,648.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,748.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,848.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,948.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,048.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,148.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,248.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,348.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,448.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,548.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,648.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,748.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,848.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,948.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,048.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,148.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,248.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,348.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,448.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,548.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,648.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,748.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,848.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,948.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,048.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,148.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,248.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,348.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,448.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,548.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,648.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,748.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,848.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,948.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,048.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,148.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,248.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,348.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,448.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,548.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,648.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,748.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,848.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,948.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,048.0	197.2	-608.0	-149.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2632 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
10,200.0	0.00	0.00	10,148.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,248.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,348.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,448.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,548.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,648.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,748.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,848.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,948.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,048.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,148.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,248.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,348.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,448.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,548.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,648.0	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,758.5	0.00	0.00	11,706.5	197.2	-608.0	-149.1	0.00	0.00	0.00	
11,775.0	1.97	179.67	11,722.9	196.9	-608.0	-148.8	12.00	12.00	0.00	
11,800.0	4.97	179.67	11,747.9	195.4	-608.0	-147.3	12.00	12.00	0.00	
11,825.0	7.97	179.67	11,772.7	192.6	-608.0	-144.5	12.00	12.00	0.00	
11,850.0	10.97	179.67	11,797.4	188.5	-607.9	-140.4	12.00	12.00	0.00	
11,875.0	13.97	179.67	11,821.8	183.1	-607.9	-135.0	12.00	12.00	0.00	
11,900.0	16.97	179.67	11,845.9	176.4	-607.9	-128.4	12.00	12.00	0.00	
11,925.0	19.97	179.67	11,869.6	168.5	-607.8	-120.5	12.00	12.00	0.00	
11,950.0	22.97	179.67	11,892.9	159.3	-607.8	-111.4	12.00	12.00	0.00	
11,975.0	25.97	179.67	11,915.6	149.0	-607.7	-101.0	12.00	12.00	0.00	
12,000.0	28.97	179.67	11,937.8	137.4	-607.7	-89.6	12.00	12.00	0.00	
12,025.0	31.97	179.67	11,959.3	124.8	-607.6	-76.9	12.00	12.00	0.00	
12,050.0	34.97	179.67	11,980.2	111.0	-607.5	-63.2	12.00	12.00	0.00	
12,075.0	37.97	179.67	12,000.3	96.1	-607.4	-48.4	12.00	12.00	0.00	
12,100.0	40.97	179.67	12,019.6	80.2	-607.3	-32.5	12.00	12.00	0.00	
12,125.0	43.97	179.67	12,038.0	63.3	-607.2	-15.7	12.00	12.00	0.00	
12,150.0	46.97	179.67	12,055.5	45.5	-607.1	2.0	12.00	12.00	0.00	
12,175.0	49.97	179.67	12,072.1	26.8	-607.0	20.7	12.00	12.00	0.00	
12,200.0	52.97	179.67	12,087.7	7.3	-606.9	40.2	12.00	12.00	0.00	
12,225.0	55.97	179.67	12,102.2	-13.1	-606.8	60.4	12.00	12.00	0.00	
12,250.0	58.97	179.67	12,115.7	-34.2	-606.7	81.4	12.00	12.00	0.00	
12,275.0	61.97	179.67	12,128.0	-55.9	-606.5	103.1	12.00	12.00	0.00	
12,300.0	64.97	179.67	12,139.1	-78.3	-606.4	125.4	12.00	12.00	0.00	
12,325.0	67.97	179.67	12,149.1	-101.2	-606.3	148.2	12.00	12.00	0.00	
12,350.0	70.97	179.67	12,157.9	-124.6	-606.2	171.6	12.00	12.00	0.00	
12,375.0	73.97	179.67	12,165.4	-148.4	-606.0	195.3	12.00	12.00	0.00	
12,400.0	76.97	179.67	12,171.7	-172.6	-605.9	219.4	12.00	12.00	0.00	
12,425.0	79.97	179.67	12,176.7	-197.1	-605.7	243.8	12.00	12.00	0.00	
12,450.0	82.97	179.67	12,180.4	-221.9	-605.6	268.5	12.00	12.00	0.00	
12,475.0	85.97	179.67	12,182.8	-246.7	-605.5	293.3	12.00	12.00	0.00	
12,500.0	88.97	179.67	12,183.9	-271.7	-605.3	318.2	12.00	12.00	0.00	
12,508.5	90.00	179.67	12,184.0	-280.3	-605.3	326.7	12.00	12.00	0.00	
12,600.0	90.00	179.67	12,184.0	-371.7	-604.7	417.8	0.00	0.00	0.00	
12,700.0	90.00	179.67	12,184.0	-471.7	-604.2	517.5	0.00	0.00	0.00	
12,800.0	90.00	179.67	12,184.0	-571.7	-603.6	617.1	0.00	0.00	0.00	
12,900.0	90.00	179.67	12,184.0	-671.7	-603.0	716.8	0.00	0.00	0.00	
13,000.0	90.00	179.67	12,184.0	-771.7	-602.4	816.4	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2632 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,100.0	90.00	179.67	12,184.0	-871.7	-601.9	916.0	0.00	0.00	0.00	
13,200.0	90.00	179.67	12,184.0	-971.7	-601.3	1,015.7	0.00	0.00	0.00	
13,300.0	90.00	179.67	12,184.0	-1,071.7	-600.7	1,115.3	0.00	0.00	0.00	
13,400.0	90.00	179.67	12,184.0	-1,171.7	-600.1	1,215.0	0.00	0.00	0.00	
13,500.0	90.00	179.67	12,184.0	-1,271.7	-599.6	1,314.6	0.00	0.00	0.00	
13,600.0	90.00	179.67	12,184.0	-1,371.7	-599.0	1,414.3	0.00	0.00	0.00	
13,700.0	90.00	179.67	12,184.0	-1,471.7	-598.4	1,513.9	0.00	0.00	0.00	
13,800.0	90.00	179.67	12,184.0	-1,571.7	-597.9	1,613.6	0.00	0.00	0.00	
13,900.0	90.00	179.67	12,184.0	-1,671.7	-597.3	1,713.2	0.00	0.00	0.00	
14,000.0	90.00	179.67	12,184.0	-1,771.7	-596.7	1,812.9	0.00	0.00	0.00	
14,100.0	90.00	179.67	12,184.0	-1,871.7	-596.1	1,912.5	0.00	0.00	0.00	
14,200.0	90.00	179.67	12,184.0	-1,971.7	-595.6	2,012.2	0.00	0.00	0.00	
14,300.0	90.00	179.67	12,184.0	-2,071.7	-595.0	2,111.8	0.00	0.00	0.00	
14,400.0	90.00	179.67	12,184.0	-2,171.7	-594.4	2,211.5	0.00	0.00	0.00	
14,500.0	90.00	179.67	12,184.0	-2,271.7	-593.8	2,311.1	0.00	0.00	0.00	
14,600.0	90.00	179.67	12,184.0	-2,371.7	-593.3	2,410.8	0.00	0.00	0.00	
14,700.0	90.00	179.67	12,184.0	-2,471.7	-592.7	2,510.4	0.00	0.00	0.00	
14,800.0	90.00	179.67	12,184.0	-2,571.7	-592.1	2,610.1	0.00	0.00	0.00	
14,900.0	90.00	179.67	12,184.0	-2,671.7	-591.5	2,709.7	0.00	0.00	0.00	
15,000.0	90.00	179.67	12,184.0	-2,771.7	-591.0	2,809.4	0.00	0.00	0.00	
15,100.0	90.00	179.67	12,184.0	-2,871.7	-590.4	2,909.0	0.00	0.00	0.00	
15,200.0	90.00	179.67	12,184.0	-2,971.7	-589.8	3,008.7	0.00	0.00	0.00	
15,300.0	90.00	179.67	12,184.0	-3,071.7	-589.2	3,108.3	0.00	0.00	0.00	
15,400.0	90.00	179.67	12,184.0	-3,171.7	-588.7	3,208.0	0.00	0.00	0.00	
15,500.0	90.00	179.67	12,184.0	-3,271.7	-588.1	3,307.6	0.00	0.00	0.00	
15,600.0	90.00	179.67	12,184.0	-3,371.7	-587.5	3,407.2	0.00	0.00	0.00	
15,700.0	90.00	179.67	12,184.0	-3,471.7	-586.9	3,506.9	0.00	0.00	0.00	
15,800.0	90.00	179.67	12,184.0	-3,571.7	-586.4	3,606.5	0.00	0.00	0.00	
15,900.0	90.00	179.67	12,184.0	-3,671.7	-585.8	3,706.2	0.00	0.00	0.00	
16,000.0	90.00	179.67	12,184.0	-3,771.7	-585.2	3,805.8	0.00	0.00	0.00	
16,100.0	90.00	179.67	12,184.0	-3,871.7	-584.7	3,905.5	0.00	0.00	0.00	
16,200.0	90.00	179.67	12,184.0	-3,971.6	-584.1	4,005.1	0.00	0.00	0.00	
16,300.0	90.00	179.67	12,184.0	-4,071.6	-583.5	4,104.8	0.00	0.00	0.00	
16,400.0	90.00	179.67	12,184.0	-4,171.6	-582.9	4,204.4	0.00	0.00	0.00	
16,500.0	90.00	179.67	12,184.0	-4,271.6	-582.4	4,304.1	0.00	0.00	0.00	
16,600.0	90.00	179.67	12,184.0	-4,371.6	-581.8	4,403.7	0.00	0.00	0.00	
16,700.0	90.00	179.67	12,184.0	-4,471.6	-581.2	4,503.4	0.00	0.00	0.00	
16,800.0	90.00	179.67	12,184.0	-4,571.6	-580.6	4,603.0	0.00	0.00	0.00	
16,900.0	90.00	179.67	12,184.0	-4,671.6	-580.1	4,702.7	0.00	0.00	0.00	
17,000.0	90.00	179.67	12,184.0	-4,771.6	-579.5	4,802.3	0.00	0.00	0.00	
17,100.0	90.00	179.67	12,184.0	-4,871.6	-578.9	4,902.0	0.00	0.00	0.00	
17,200.0	90.00	179.67	12,184.0	-4,971.6	-578.3	5,001.6	0.00	0.00	0.00	
17,300.0	90.00	179.67	12,184.0	-5,071.6	-577.8	5,101.3	0.00	0.00	0.00	
17,400.0	90.00	179.67	12,184.0	-5,171.6	-577.2	5,200.9	0.00	0.00	0.00	
17,500.0	90.00	179.67	12,184.0	-5,271.6	-576.6	5,300.6	0.00	0.00	0.00	
17,600.0	90.00	179.67	12,184.0	-5,371.6	-576.0	5,400.2	0.00	0.00	0.00	
17,700.0	90.00	179.67	12,184.0	-5,471.6	-575.5	5,499.9	0.00	0.00	0.00	
17,800.0	90.00	179.67	12,184.0	-5,571.6	-574.9	5,599.5	0.00	0.00	0.00	
17,900.0	90.00	179.67	12,184.0	-5,671.6	-574.3	5,699.2	0.00	0.00	0.00	
18,000.0	90.00	179.67	12,184.0	-5,771.6	-573.8	5,798.8	0.00	0.00	0.00	
18,100.0	90.00	179.67	12,184.0	-5,871.6	-573.2	5,898.4	0.00	0.00	0.00	
18,200.0	90.00	179.67	12,184.0	-5,971.6	-572.6	5,998.1	0.00	0.00	0.00	
18,300.0	90.00	179.67	12,184.0	-6,071.6	-572.0	6,097.7	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2632 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
18,400.0	90.00	179.67	12,184.0	-6,171.6	-571.5	6,197.4	0.00	0.00	0.00	
18,500.0	90.00	179.67	12,184.0	-6,271.6	-570.9	6,297.0	0.00	0.00	0.00	
18,600.0	90.00	179.67	12,184.0	-6,371.6	-570.3	6,396.7	0.00	0.00	0.00	
18,700.0	90.00	179.67	12,184.0	-6,471.6	-569.7	6,496.3	0.00	0.00	0.00	
18,800.0	90.00	179.67	12,184.0	-6,571.6	-569.2	6,596.0	0.00	0.00	0.00	
18,900.0	90.00	179.67	12,184.0	-6,671.6	-568.6	6,695.6	0.00	0.00	0.00	
19,000.0	90.00	179.67	12,184.0	-6,771.6	-568.0	6,795.3	0.00	0.00	0.00	
19,100.0	90.00	179.67	12,184.0	-6,871.6	-567.4	6,894.9	0.00	0.00	0.00	
19,200.0	90.00	179.67	12,184.0	-6,971.6	-566.9	6,994.6	0.00	0.00	0.00	
19,300.0	90.00	179.67	12,184.0	-7,071.6	-566.3	7,094.2	0.00	0.00	0.00	
19,400.0	90.00	179.67	12,184.0	-7,171.6	-565.7	7,193.9	0.00	0.00	0.00	
19,444.6	90.00	179.67	12,184.0	-7,216.2	-565.5	7,238.4	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (ZIA HILLS UNIT 2632 WC 707H) - hit/miss target - Shape	0.00	0.00	12,184.0	147.2	-610.8	371,865.03	713,633.47	32° 1' 13.793 N	103° 38' 38.527 W	
- plan misses target center by 163.4usft at 12159.0usft MD (12061.7 TVD, 38.9 N, -607.1 E)										
- Circle (radius 50.0)										
LTP (ZIA HILLS UNIT 2632 WC 707H) - hit/miss target - Shape	90.00	179.67	12,184.0	-7,166.5	-565.7	364,551.38	713,678.57	32° 0' 1.414 N	103° 38' 38.545 W	
- plan misses target center by 0.1usft at 19394.9usft MD (12184.0 TVD, -7166.5 N, -565.8 E)										
- Circle (radius 50.0)										
PBHL (ZIA HILLS UNIT 2632 WC 707H) - hit/miss target - Shape	0.00	359.67	12,184.0	-7,216.2	-565.5	364,501.63	713,678.78	32° 0' 0.921 N	103° 38' 38.546 W	
- plan hits target center										
- Rectangle (sides W100.0 H7,346.9 D20.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
19,445.4	12,184.0	5-1/2" Production Casing	5-1/2	6	

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2632 PROJECT

_ZIA HILLS UNIT 2632 WC 707H

OWB

PWP0

Anticollision Report

18 July, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. SF of 2	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date 7/18/2024	
From (usft)	To (usft)	Survey (Wellbore)
0.0	19,444.6	PWP0 (OWB)
		Tool Name
		r.5 MWD+IFR1
		Description
		OWSG MWD + IFR1 rev.5

Summary					
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Separation Between Ellipses (usft)	Warning
Site Name					
Offset Well - Wellbore - Design					
RED HILLS WEST					
SD WE 23 FED P25 #3H - OWB - AWP	4,561.9	4,581.8	247.6	224.3	10.594 CC, ES
SD WE 23 FED P25 #3H - OWB - AWP	8,500.0	8,506.0	501.9	448.3	9.365 SF
SD WE 23 FED P25 #6H - OWB - AWP	5,549.3	5,535.3	434.1	400.6	12.938 CC
SD WE 23 FED P25 #6H - OWB - AWP	7,900.0	7,885.8	434.5	397.1	11.615 ES
SD WE 23 FED P25 #6H - OWB - AWP	8,400.0	8,380.8	437.1	398.9	11.458 SF
SD WE 23 FEDERAL P25 6H - OWB - AWP	5,550.8	5,521.8	585.1	551.4	17.330 CC
SD WE 23 FEDERAL P25 6H - OWB - AWP	7,900.0	7,870.8	585.5	547.9	15.571 ES
SD WE 23 FEDERAL P25 6H - OWB - AWP	8,500.0	8,442.5	590.3	551.7	15.312 SF
SD WE 23 FEDERAL P25 7H - OWB - AWP	5,086.0	5,091.9	251.0	223.0	8.962 CC, ES
SD WE 23 FEDERAL P25 7H - OWB - AWP	8,500.0	8,505.0	364.6	314.6	7.296 SF
STATE LINE OFFSETS					
APOLLO 7 #10H - OWB - AWP	19,445.3	11,937.7	981.4	869.8	8.794 CC, ES, SF
APOLLO 7 #6H - OWB - AWP	19,445.3	11,941.5	970.7	870.1	9.647 CC, ES, SF
APOLLO 7 #8H - OWB - AWP	19,445.3	11,958.0	442.7	365.8	5.754 CC, ES, SF
APOLLO 7 #9H - OWB - AWP	19,445.3	11,953.2	547.3	445.2	5.363 CC, ES, SF

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

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 UNIT 2632 PROJECT						
_ZIA HILLS UNIT 2632 WC 701H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2632 WC 702H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2632 WC 703H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2632 WC 704H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2632 WC 705H - OWB - PWP0	12,359.0	12,407.1	855.9	804.8	16.744 CC	
_ZIA HILLS UNIT 2632 WC 705H - OWB - PWP0	19,445.3	19,491.3	856.0	708.3	5.795 ES, SF	
_ZIA HILLS UNIT 2632 WC 706H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0	1,100.0	1,100.0	29.7	21.1	3.465 CC	
_ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0	1,200.0	1,199.0	30.1	21.0	3.302 ES	
_ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0	1,300.0	1,297.9	31.3	21.7	3.260 SF	
_ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0	1,100.0	1,100.0	60.0	51.4	6.997 CC, ES	
_ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0	19,445.3	19,416.4	856.0	711.6	5.927 SF	
_ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0	1,100.0	1,100.0	30.1	21.5	3.512 CC	
_ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0	1,350.0	1,351.9	30.5	20.8	3.135 ES	
_ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0	1,400.0	1,402.3	30.8	20.9	3.112 SF	
_ZIA HILLS UNIT 2632 WC 711H - OWB - PWP0	1,100.0	1,100.0	120.0	111.4	13.993 CC, ES	
_ZIA HILLS UNIT 2632 WC 711H - OWB - PWP0	1,200.0	1,196.0	123.0	113.9	13.501 SF	
_ZIA HILLS UNIT 2632 WC 712H - OWB - PWP0	1,100.0	1,100.0	90.0	81.4	10.495 CC, ES	
_ZIA HILLS UNIT 2632 WC 712H - OWB - PWP0	1,200.0	1,196.1	93.4	84.2	10.161 SF	
BRADLEY-FEDERAL 35 #1 (P&A) - OWB - AWP						Out of range
WILDER 26 #1 - OWB - AWP						Out of range
WILDER-FEDERAL #16 - OWB - AWP						Out of range
WILDER-FEDERAL #17 - OWB - AWP						Out of range
WILDER-FEDERAL #25 (P&A) - OWB - AWP						Out of range
WILDER-FEDERAL #26 (P&A) - OWB - AWP						Out of range

Offset Design: RED HILLS WEST - SD WE 23 FED P25 #3H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Reference Depth (usft)	Offset Depth (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
1,635.7	1,633.0	1,751.7	1,750.5	5.6	8.1	11.88	499.6	-913.9	998.1	984.1	13.99	71.348	
1,700.0	1,696.2	1,829.6	1,827.9	5.7	8.4	12.24	498.9	-906.0	981.4	967.0	14.34	68.450	
1,800.0	1,794.7	1,943.5	1,941.0	6.0	8.7	12.80	496.7	-892.4	953.3	938.4	14.93	63.866	
1,900.0	1,893.2	2,046.0	2,042.6	6.3	9.1	13.31	493.9	-879.3	924.2	908.7	15.52	59.564	
2,000.0	1,991.7	2,145.6	2,141.3	6.7	9.4	13.84	490.7	-866.2	894.6	878.5	16.12	55.491	
2,100.0	2,090.2	2,244.9	2,239.6	7.0	9.7	14.38	487.1	-852.8	864.7	847.9	16.74	51.637	
2,200.0	2,188.7	2,344.9	2,338.5	7.4	10.1	14.99	483.3	-838.7	834.2	816.9	17.38	47.992	
2,300.0	2,287.1	2,443.6	2,436.1	7.7	10.5	15.66	479.6	-824.2	803.4	785.3	18.03	44.561	
2,400.0	2,385.6	2,540.9	2,532.2	8.1	10.8	16.39	476.1	-809.4	772.2	753.5	18.68	41.342	
2,500.0	2,484.1	2,639.3	2,629.3	8.5	11.2	17.20	472.2	-794.1	740.8	721.5	19.34	38.315	
2,600.0	2,582.6	2,742.0	2,730.6	8.9	11.6	18.14	467.8	-777.4	708.8	688.8	19.99	35.449	
2,700.0	2,681.1	2,835.8	2,822.9	9.3	12.0	19.10	463.7	-761.4	676.3	655.6	20.65	32.745	
2,800.0	2,779.6	2,930.2	2,915.8	9.7	12.3	20.20	459.8	-745.2	643.9	622.6	21.30	30.232	
2,900.0	2,878.1	3,026.6	3,010.7	10.1	12.7	21.46	455.9	-728.2	611.6	589.7	21.94	27.881	
3,000.0	2,976.5	3,118.5	3,101.0	10.5	13.1	22.82	452.3	-711.9	579.5	557.0	22.56	25.688	
3,100.0	3,075.0	3,210.6	3,191.6	11.0	13.5	24.37	449.2	-695.6	548.1	525.0	23.16	23.671	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 23 FED P25 #3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 33-r.5 MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
3,200.0	3,173.5	3,307.4	3,286.7	11.4	13.9	26.28	446.4	-677.8	517.0	493.3	23.70	21.813		
3,300.0	3,272.0	3,402.2	3,379.7	11.8	14.3	28.47	443.8	-659.6	486.0	461.8	24.20	20.083		
3,400.0	3,370.5	3,492.8	3,468.6	12.2	14.7	30.83	441.4	-642.3	455.7	431.1	24.65	18.486		
3,500.0	3,469.0	3,581.0	3,555.3	12.7	15.0	33.30	439.2	-626.6	427.4	402.3	25.06	17.057		
3,600.0	3,567.4	3,671.2	3,644.4	13.1	15.4	36.01	437.1	-612.0	401.1	375.7	25.37	15.807		
3,700.0	3,665.9	3,763.6	3,735.6	13.5	15.8	39.05	435.2	-597.7	376.5	350.9	25.58	14.718		
3,800.0	3,764.4	3,856.2	3,827.2	13.9	16.2	42.40	433.5	-584.2	353.7	328.0	25.68	13.775		
3,900.0	3,862.9	3,951.3	3,921.3	14.4	16.6	46.21	431.9	-570.8	332.8	307.2	25.63	12.986		
4,000.0	3,961.4	4,047.7	4,016.7	14.8	17.0	50.57	430.0	-556.8	313.1	287.7	25.42	12.320		
4,100.0	4,059.9	4,144.4	4,112.3	15.3	17.4	55.54	427.8	-542.4	295.1	270.1	25.04	11.787		
4,200.0	4,158.4	4,243.5	4,210.1	15.7	17.8	61.38	424.8	-526.6	278.6	254.1	24.49	11.377		
4,300.0	4,256.8	4,338.1	4,303.3	16.1	18.2	67.74	421.0	-510.4	264.2	240.3	23.90	11.057		
4,400.0	4,355.3	4,430.7	4,394.3	16.6	18.6	74.60	417.5	-494.2	254.0	230.6	23.39	10.856		
4,500.0	4,453.8	4,523.8	4,485.9	17.0	19.0	81.84	414.5	-478.1	248.6	225.4	23.20	10.712		
4,553.4	4,506.4	4,573.8	4,535.2	17.2	19.2	85.77	412.9	-469.6	247.7	224.3	23.34	10.611		
4,561.9	4,514.7	4,581.8	4,543.1	17.3	19.3	86.39	412.7	-468.2	247.6	224.3	23.38	10.594 CC, ES		
4,600.0	4,552.3	4,617.7	4,578.5	17.4	19.5	89.14	411.7	-462.3	248.0	224.4	23.59	10.511		
4,700.0	4,651.1	4,712.6	4,672.1	17.9	19.9	95.98	409.1	-447.1	251.7	227.2	24.55	10.254		
4,800.0	4,750.1	4,807.7	4,766.0	18.3	20.4	102.13	406.9	-432.4	258.9	233.0	25.87	10.009		
4,900.0	4,849.4	4,903.6	4,860.8	18.7	20.9	107.58	405.0	-417.8	268.7	241.3	27.37	9.815		
5,000.0	4,948.8	5,000.5	4,956.7	19.1	21.3	112.25	403.4	-403.5	280.1	251.2	28.92	9.686		
5,100.0	5,048.4	5,098.2	5,053.4	19.5	21.8	116.16	402.2	-389.6	292.3	261.9	30.41	9.614		
5,200.0	5,148.2	5,196.5	5,150.7	19.8	22.3	119.42	401.3	-376.1	304.7	272.9	31.80	9.582		
5,300.0	5,248.0	5,294.7	5,248.0	20.2	22.7	122.10	400.4	-362.9	317.0	283.9	33.09	9.579		
5,400.0	5,348.0	5,392.8	5,345.1	20.5	23.2	124.41	399.3	-349.3	328.9	294.6	34.29	9.593		
5,500.0	5,448.0	5,496.1	5,447.4	20.8	23.6	126.48	397.5	-335.2	339.8	304.4	35.46	9.584		
5,552.0	5,500.0	5,550.3	5,501.2	20.8	23.9	54.59	396.1	-328.2	344.6	308.6	36.00	9.572		
5,600.0	5,548.0	5,599.7	5,550.2	20.8	24.1	55.38	394.6	-322.1	348.6	312.2	36.46	9.562		
5,700.0	5,648.0	5,701.3	5,651.0	20.9	24.6	56.86	391.6	-310.2	356.7	319.3	37.37	9.546		
5,800.0	5,748.0	5,801.8	5,751.0	20.9	25.0	58.14	388.9	-299.4	364.4	326.2	38.21	9.536		
5,900.0	5,848.0	5,901.1	5,849.7	21.0	25.5	59.26	386.8	-289.1	372.1	333.1	38.99	9.544		
6,000.0	5,948.0	5,999.4	5,947.4	21.0	25.9	60.33	384.8	-278.8	380.2	340.4	39.76	9.562		
6,100.0	6,048.0	6,097.0	6,044.3	21.1	26.3	61.58	381.5	-267.4	388.8	348.2	40.58	9.581		
6,200.0	6,148.0	6,195.0	6,141.5	21.1	26.8	62.90	377.7	-255.3	398.0	356.5	41.42	9.607		
6,300.0	6,248.0	6,293.5	6,239.2	21.2	27.2	64.08	374.5	-243.2	407.6	365.3	42.24	9.649		
6,400.0	6,348.0	6,395.8	6,340.7	21.2	27.7	65.16	371.7	-231.1	417.1	374.0	43.06	9.686		
6,500.0	6,448.0	6,498.5	6,442.8	21.2	28.1	66.10	369.1	-220.0	425.9	382.1	43.83	9.717		
6,600.0	6,548.0	6,601.8	6,545.6	21.3	28.6	66.92	366.8	-209.9	434.0	389.4	44.56	9.739		
6,700.0	6,648.0	6,704.1	6,647.4	21.3	29.0	67.65	364.6	-200.8	441.4	396.2	45.22	9.761		
6,800.0	6,748.0	6,806.2	6,749.1	21.4	29.3	68.31	362.5	-192.4	448.3	402.5	45.82	9.784		
6,900.0	6,848.0	6,907.6	6,850.2	21.4	29.7	68.90	360.6	-184.6	454.8	408.3	46.44	9.793		
7,000.0	6,948.0	7,009.1	6,951.5	21.5	30.1	69.43	358.9	-177.2	460.9	413.9	47.05	9.796		
7,100.0	7,048.0	7,112.0	7,054.1	21.5	30.6	69.91	357.2	-170.4	466.6	418.9	47.64	9.793		
7,200.0	7,148.0	7,215.2	7,157.2	21.6	30.9	70.36	355.5	-164.3	471.6	423.4	48.21	9.781		
7,300.0	7,248.0	7,319.0	7,260.8	21.6	31.3	70.75	353.9	-159.1	475.8	427.0	48.75	9.760		
7,400.0	7,348.0	7,420.9	7,362.5	21.7	31.7	71.10	352.4	-154.8	479.3	430.1	49.25	9.733		
7,500.0	7,448.0	7,521.9	7,463.5	21.7	32.1	71.43	350.8	-150.7	482.7	432.9	49.74	9.705		
7,600.0	7,548.0	7,625.4	7,566.9	21.8	32.4	71.77	349.1	-147.0	485.5	435.3	50.19	9.674		
7,700.0	7,648.0	7,728.0	7,669.5	21.8	32.7	72.10	347.1	-144.0	487.7	437.0	50.62	9.633		
7,800.0	7,748.0	7,828.1	7,769.5	21.9	33.0	72.40	345.2	-141.4	489.6	438.6	51.03	9.594		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 23 FED P25 #3H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,900.0	7,848.0	7,929.1	7,870.4	21.9	33.3	72.69	343.4	-138.9	491.5	440.1	51.43	9.557	
8,000.0	7,948.0	8,031.0	7,972.3	21.9	33.6	72.95	341.8	-136.7	493.0	441.2	51.80	9.517	
8,100.0	8,048.0	8,132.7	8,073.9	22.0	33.9	73.19	340.1	-134.9	494.2	442.1	52.14	9.479	
8,200.0	8,148.0	8,234.2	8,175.5	22.0	34.2	73.45	338.2	-133.5	495.1	442.6	52.46	9.437	
8,300.0	8,248.0	8,333.0	8,274.2	22.1	34.4	73.72	336.2	-132.2	495.7	443.0	52.70	9.406	
8,400.0	8,348.0	8,424.0	8,365.0	22.1	34.6	74.41	331.0	-128.5	498.0	444.9	53.12	9.375	
8,500.0	8,448.0	8,506.0	8,446.7	22.2	34.9	75.15	325.5	-123.9	501.9	448.3	53.59	9.365 SF	
8,600.0	8,548.0	8,570.0	8,510.3	22.2	35.1	75.45	324.6	-117.0	511.9	458.0	53.88	9.500	
8,700.0	8,648.0	8,653.7	8,593.0	22.3	35.4	75.32	328.9	-105.1	526.9	472.7	54.18	9.724	
8,800.0	8,748.0	8,725.6	8,663.0	22.3	35.6	74.42	340.5	-94.2	545.9	491.8	54.06	10.099	
8,900.0	8,848.0	8,821.0	8,753.0	22.4	35.7	71.90	369.1	-82.0	567.5	513.9	53.64	10.581	
9,000.0	8,948.0	8,892.3	8,817.1	22.4	35.7	69.19	399.6	-75.4	592.3	539.6	52.73	11.232	
9,100.0	9,048.0	8,990.3	8,900.0	22.5	35.7	64.61	451.7	-71.8	619.9	568.4	51.43	12.052	
9,200.0	9,148.0	9,052.9	8,950.6	22.5	35.7	61.49	488.5	-71.7	651.7	601.5	50.15	12.993	
9,300.0	9,248.0	9,105.0	8,991.1	22.6	35.7	58.87	521.2	-71.4	689.7	640.8	48.94	14.094	
9,400.0	9,348.0	9,147.0	9,021.4	22.6	35.7	56.62	550.3	-72.2	734.6	686.8	47.74	15.386	
9,500.0	9,448.0	9,180.0	9,043.0	22.7	35.7	54.74	575.2	-73.3	786.6	740.0	46.62	16.872	
9,600.0	9,548.0	9,206.0	9,058.7	22.7	35.8	53.22	596.0	-74.5	845.2	799.5	45.63	18.522	
9,700.0	9,648.0	9,236.0	9,074.8	22.8	35.8	51.43	621.1	-76.3	909.6	864.9	44.75	20.326	
9,800.0	9,748.0	9,236.0	9,074.8	22.8	35.8	51.43	621.1	-76.3	978.9	934.8	44.08	22.207	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 23 FED P25 #6H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 33-r-5 MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
2,100.0	2,090.2	2,140.3	2,136.1	7.0	7.3	6.09	434.1	-1,026.6	987.6	973.3	14.38	68.695		
2,200.0	2,188.7	2,237.7	2,233.1	7.4	7.5	5.63	424.8	-1,028.9	968.9	954.0	14.84	65.286		
2,300.0	2,287.1	2,335.7	2,330.7	7.7	7.7	5.15	415.6	-1,031.2	950.2	934.9	15.32	62.012		
2,400.0	2,385.6	2,434.4	2,428.8	8.1	8.0	4.64	406.1	-1,033.5	931.5	915.6	15.82	58.874		
2,500.0	2,484.1	2,532.5	2,526.5	8.5	8.2	4.11	396.5	-1,035.8	912.9	896.5	16.34	55.879		
2,600.0	2,582.6	2,637.8	2,631.2	8.9	8.5	3.50	386.0	-1,038.1	894.0	877.1	16.86	53.025		
2,700.0	2,681.1	2,744.1	2,737.0	9.3	8.7	2.93	376.1	-1,038.9	874.2	856.8	17.38	50.297		
2,800.0	2,779.6	2,829.5	2,822.2	9.7	9.0	2.53	369.1	-1,039.3	854.6	836.6	17.92	47.685		
2,900.0	2,878.1	2,918.1	2,910.6	10.1	9.2	2.22	364.1	-1,040.3	836.4	817.9	18.47	45.289		
3,000.0	2,976.5	3,012.4	3,004.8	10.5	9.4	1.93	359.5	-1,041.8	819.1	800.0	19.02	43.052		
3,100.0	3,075.0	3,118.8	3,111.1	11.0	9.7	1.63	355.0	-1,043.1	801.5	781.9	19.57	40.960		
3,200.0	3,173.5	3,227.5	3,219.7	11.4	9.9	1.50	352.4	-1,042.4	782.8	762.7	20.08	38.990		
3,300.0	3,272.0	3,334.1	3,326.3	11.8	10.0	1.45	350.4	-1,040.1	762.8	742.2	20.57	37.084		
3,400.0	3,370.5	3,424.6	3,416.7	12.2	10.0	1.47	349.3	-1,037.5	742.5	721.4	21.11	35.171		
3,500.0	3,469.0	3,512.4	3,504.5	12.7	10.0	1.54	349.4	-1,036.3	723.9	702.2	21.67	33.406		
3,600.0	3,567.4	3,609.0	3,601.2	13.1	9.9	1.68	350.5	-1,035.4	706.0	683.8	22.21	31.788		
3,700.0	3,665.9	3,707.0	3,699.1	13.5	9.8	1.88	352.0	-1,034.3	688.2	665.4	22.76	30.241		
3,800.0	3,764.4	3,804.7	3,796.7	13.9	9.7	2.09	353.7	-1,033.3	670.5	647.1	23.31	28.764		
3,900.0	3,862.9	3,903.0	3,895.1	14.4	9.7	2.33	355.5	-1,032.3	652.8	628.9	23.86	27.354		
4,000.0	3,961.4	4,005.6	3,997.6	14.8	9.6	2.61	357.5	-1,030.9	634.8	610.4	24.41	26.005		
4,100.0	4,059.9	4,104.9	4,096.9	15.3	9.5	2.89	359.2	-1,029.2	616.5	591.5	24.97	24.691		
4,200.0	4,158.4	4,210.1	4,202.1	15.7	9.5	3.18	360.5	-1,026.8	597.5	572.0	25.51	23.422		
4,300.0	4,256.8	4,310.2	4,302.1	16.1	9.5	3.38	360.5	-1,024.0	577.6	551.5	26.08	22.144		
4,400.0	4,355.3	4,404.6	4,396.5	16.6	9.6	3.54	360.3	-1,021.7	557.9	531.2	26.69	20.903		
4,500.0	4,453.8	4,501.1	4,493.0	17.0	9.7	3.74	360.4	-1,019.8	538.9	511.5	27.37	19.692		
4,553.4	4,506.4	4,553.3	4,545.2	17.2	9.8	3.84	360.4	-1,018.9	528.8	501.1	27.71	19.081		
4,600.0	4,552.3	4,599.0	4,590.8	17.4	9.9	3.92	360.4	-1,018.1	520.1	492.1	28.02	18.565		
4,700.0	4,651.1	4,696.4	4,688.3	17.9	10.1	4.08	360.3	-1,016.5	503.0	474.3	28.71	17.522		
4,800.0	4,750.1	4,794.2	4,786.0	18.3	10.3	4.26	360.4	-1,015.1	487.8	458.4	29.39	16.596		
4,900.0	4,849.4	4,892.8	4,884.6	18.7	10.5	4.46	360.7	-1,013.7	474.4	444.4	30.05	15.789		
5,000.0	4,948.8	4,991.4	4,983.2	19.1	10.6	4.67	361.3	-1,012.4	462.9	432.2	30.69	15.084		
5,100.0	5,048.4	5,089.7	5,081.5	19.5	10.8	4.87	361.8	-1,011.3	453.4	422.1	31.31	14.482		
5,200.0	5,148.2	5,188.7	5,180.5	19.8	11.0	5.06	362.5	-1,010.4	445.8	413.9	31.90	13.977		
5,300.0	5,248.0	5,288.2	5,280.0	20.2	11.1	5.24	363.2	-1,009.6	440.1	407.6	32.46	13.560		
5,400.0	5,348.0	5,387.2	5,379.0	20.5	11.3	5.41	364.0	-1,008.9	436.2	403.3	32.97	13.231		
5,500.0	5,448.0	5,486.1	5,477.9	20.8	11.4	5.55	364.8	-1,008.5	434.3	400.9	33.42	12.994		
5,549.3	5,497.3	5,535.3	5,527.1	20.8	11.5	5.60	365.2	-1,008.3	434.1	400.6	33.55	12.938 CC		
5,552.0	5,500.0	5,538.0	5,529.8	20.8	11.5	-67.24	365.2	-1,008.3	434.1	400.6	33.56	12.936		
5,600.0	5,548.0	5,585.9	5,577.7	20.8	11.6	-67.19	365.5	-1,008.2	434.2	400.5	33.63	12.911		
5,700.0	5,648.0	5,685.7	5,677.5	20.9	11.7	-67.10	366.2	-1,008.0	434.2	400.4	33.79	12.851		
5,800.0	5,748.0	5,785.0	5,776.8	20.9	11.8	-67.02	366.8	-1,007.9	434.4	400.5	33.95	12.796		
5,900.0	5,848.0	5,885.0	5,876.8	21.0	12.0	-66.95	367.4	-1,008.0	434.7	400.6	34.11	12.746		
6,000.0	5,948.0	5,986.1	5,977.9	21.0	12.1	-66.87	368.0	-1,007.9	434.9	400.6	34.26	12.693		
6,100.0	6,048.0	6,086.4	6,078.1	21.1	12.3	-66.78	368.6	-1,007.6	434.8	400.4	34.42	12.632		
6,191.7	6,139.6	6,177.9	6,169.6	21.1	12.4	-66.70	369.2	-1,007.3	434.8	400.2	34.58	12.575		
6,200.0	6,148.0	6,186.2	6,177.9	21.1	12.4	-66.69	369.2	-1,007.3	434.8	400.2	34.59	12.570		
6,300.0	6,248.0	6,285.7	6,277.4	21.2	12.6	-66.61	369.8	-1,007.1	434.9	400.1	34.75	12.513		
6,400.0	6,348.0	6,385.2	6,377.0	21.2	12.7	-66.55	370.3	-1,007.1	435.0	400.1	34.92	12.460		
6,500.0	6,448.0	6,485.7	6,477.5	21.2	12.8	-66.51	370.7	-1,007.1	435.2	400.1	35.07	12.410		
6,600.0	6,548.0	6,586.1	6,577.9	21.3	13.0	-66.48	370.9	-1,007.1	435.3	400.0	35.23	12.356		
6,700.0	6,648.0	6,686.1	6,677.9	21.3	13.1	-66.47	370.9	-1,007.1	435.3	399.9	35.39	12.300		

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 23 FED P25 #6H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r-5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
6,800.0	6,748.0	6,786.3	6,778.0	21.4	13.3	-66.49	370.8	-1,007.2	435.3	399.7	35.56	12.242	
6,900.0	6,848.0	6,886.5	6,878.2	21.4	13.4	-66.50	370.8	-1,007.1	435.2	399.5	35.72	12.183	
6,979.0	6,927.0	6,965.2	6,957.0	21.5	13.6	-66.50	370.7	-1,007.1	435.2	399.4	35.86	12.137	
7,000.0	6,948.0	6,986.1	6,977.9	21.5	13.6	-66.50	370.7	-1,007.1	435.2	399.3	35.89	12.126	
7,100.0	7,048.0	7,085.6	7,077.4	21.5	13.7	-66.52	370.6	-1,007.3	435.3	399.2	36.06	12.071	
7,200.0	7,148.0	7,186.1	7,177.9	21.6	13.9	-66.54	370.5	-1,007.4	435.4	399.2	36.22	12.020	
7,300.0	7,248.0	7,286.6	7,278.4	21.6	14.0	-66.55	370.5	-1,007.4	435.3	399.0	36.39	11.964	
7,400.0	7,348.0	7,387.0	7,378.8	21.7	14.2	-66.57	370.2	-1,007.3	435.2	398.6	36.56	11.903	
7,500.0	7,448.0	7,487.1	7,478.8	21.7	14.4	-66.62	369.8	-1,007.3	435.0	398.2	36.74	11.840	
7,600.0	7,548.0	7,586.7	7,578.5	21.8	14.5	-66.69	369.3	-1,007.3	434.8	397.9	36.91	11.780	
7,700.0	7,648.0	7,686.7	7,678.5	21.8	14.7	-66.76	368.8	-1,007.4	434.7	397.6	37.08	11.724	
7,800.0	7,748.0	7,786.9	7,778.7	21.9	14.8	-66.83	368.2	-1,007.5	434.6	397.3	37.24	11.668	
7,864.3	7,812.2	7,850.5	7,842.2	21.9	14.9	-66.88	367.8	-1,007.6	434.5	397.2	37.35	11.633	
7,900.0	7,848.0	7,885.8	7,877.5	21.9	15.0	-66.90	367.6	-1,007.7	434.5	397.1	37.41	11.615 ES	
8,000.0	7,948.0	7,984.7	7,976.4	21.9	15.1	-66.99	367.2	-1,008.2	434.8	397.2	37.57	11.571	
8,100.0	8,048.0	8,084.3	8,076.1	22.0	15.2	-67.09	366.6	-1,008.8	435.1	397.4	37.72	11.535	
8,200.0	8,148.0	8,183.9	8,175.6	22.0	15.3	-67.22	365.9	-1,009.6	435.6	397.8	37.87	11.502	
8,300.0	8,248.0	8,283.4	8,275.1	22.1	15.5	-67.35	365.2	-1,010.6	436.2	398.2	38.02	11.473	
8,400.0	8,348.0	8,380.8	8,372.5	22.1	15.5	-67.39	365.2	-1,011.4	437.1	398.9	38.15	11.458 SF	
8,500.0	8,448.0	8,457.2	8,448.7	22.2	16.0	-66.90	369.6	-1,012.2	440.4	402.0	38.42	11.463	
8,600.0	8,548.0	8,523.7	8,513.9	22.2	16.4	-65.42	382.8	-1,013.7	450.7	412.1	38.63	11.670	
8,700.0	8,648.0	8,576.0	8,563.4	22.3	16.4	-63.62	399.4	-1,015.7	469.3	430.7	38.63	12.150	
8,800.0	8,748.0	8,631.9	8,613.3	22.3	16.5	-61.07	424.2	-1,018.7	497.3	458.8	38.50	12.916	
8,900.0	8,848.0	8,684.1	8,656.7	22.4	16.5	-58.32	453.0	-1,022.5	535.0	496.8	38.26	13.983	
9,000.0	8,948.0	8,742.5	8,703.3	22.4	16.5	-55.24	487.9	-1,026.9	579.2	541.2	38.00	15.241	
9,100.0	9,048.0	8,781.5	8,732.4	22.5	16.5	-53.08	513.8	-1,029.4	630.3	592.6	37.69	16.723	
9,200.0	9,148.0	8,824.4	8,762.0	22.5	16.5	-50.67	544.7	-1,032.1	688.3	650.9	37.41	18.398	
9,300.0	9,248.0	8,870.6	8,792.6	22.6	16.5	-48.18	579.2	-1,035.0	750.8	713.6	37.20	20.186	
9,400.0	9,348.0	8,909.9	8,817.3	22.6	16.5	-46.09	609.7	-1,036.6	817.5	780.4	37.03	22.074	
9,500.0	9,448.0	8,942.1	8,836.1	22.7	16.5	-44.38	635.7	-1,037.1	887.9	851.0	36.91	24.057	
9,600.0	9,548.0	8,974.0	8,853.7	22.7	16.5	-42.72	662.4	-1,037.5	961.9	925.1	36.85	26.104	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 23 FEDERAL P25 6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 33-r.5 MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
2,900.0	2,878.1	2,904.8	2,897.3	10.1	9.5	1.89	408.9	-1,185.1	987.9	969.1	18.84	52.429		
3,000.0	2,976.5	2,997.5	2,989.8	10.5	9.8	1.64	404.4	-1,186.5	970.5	951.1	19.39	50.062		
3,100.0	3,075.0	3,103.1	3,095.4	11.0	10.0	1.37	399.7	-1,188.0	953.1	933.2	19.93	47.834		
3,200.0	3,173.5	3,214.0	3,206.2	11.4	10.2	1.23	396.8	-1,187.6	934.6	914.1	20.43	45.747		
3,300.0	3,272.0	3,323.1	3,315.3	11.8	10.3	1.18	394.7	-1,185.4	914.7	893.8	20.91	43.742		
3,400.0	3,370.5	3,415.0	3,407.2	12.2	10.4	1.18	393.5	-1,182.7	894.3	872.9	21.44	41.720		
3,500.0	3,469.0	3,499.6	3,491.8	12.7	10.4	1.23	393.5	-1,181.4	875.5	853.5	21.99	39.820		
3,600.0	3,567.4	3,594.5	3,586.6	13.1	10.3	1.33	394.4	-1,180.5	857.6	835.1	22.52	38.077		
3,700.0	3,665.9	3,692.8	3,684.9	13.5	10.2	1.47	395.8	-1,179.5	839.8	816.7	23.06	36.417		
3,800.0	3,764.4	3,790.4	3,782.5	13.9	10.1	1.64	397.5	-1,178.5	822.0	798.4	23.60	34.824		
3,900.0	3,862.9	3,888.7	3,880.7	14.4	10.0	1.81	399.3	-1,177.6	804.3	780.2	24.15	33.300		
4,000.0	3,961.4	3,992.4	3,984.4	14.8	10.0	2.03	401.3	-1,176.1	786.4	761.7	24.69	31.847		
4,100.0	4,059.9	4,090.6	4,082.6	15.3	9.9	2.24	403.0	-1,174.5	768.1	742.9	25.25	30.419		
4,200.0	4,158.4	4,197.7	4,189.7	15.7	9.9	2.46	404.5	-1,172.2	749.2	723.4	25.79	29.056		
4,300.0	4,256.8	4,299.5	4,291.5	16.1	9.9	2.61	404.6	-1,169.4	729.3	703.0	26.35	27.683		
4,400.0	4,355.3	4,393.4	4,385.3	16.6	9.9	2.72	404.4	-1,167.0	709.6	682.6	26.94	26.334		
4,500.0	4,453.8	4,488.8	4,480.7	17.0	10.0	2.85	404.4	-1,165.1	690.4	662.8	27.60	25.013		
4,553.4	4,506.4	4,541.0	4,532.8	17.2	10.1	2.91	404.4	-1,164.2	680.3	652.4	27.95	24.342		
4,600.0	4,552.3	4,586.6	4,578.4	17.4	10.2	2.96	404.4	-1,163.4	671.7	643.4	28.25	23.779		
4,700.0	4,651.1	4,683.8	4,675.7	17.9	10.4	3.07	404.3	-1,161.8	654.5	625.5	28.93	22.623		
4,800.0	4,750.1	4,781.2	4,773.0	18.3	10.6	3.18	404.4	-1,160.3	639.2	609.6	29.61	21.589		
4,900.0	4,849.4	4,879.7	4,871.5	18.7	10.8	3.30	404.7	-1,159.0	625.8	595.5	30.26	20.681		
5,000.0	4,948.8	4,978.2	4,970.0	19.1	11.0	3.44	405.2	-1,157.6	614.2	583.3	30.90	19.880		
5,100.0	5,048.4	5,076.1	5,067.9	19.5	11.1	3.57	405.8	-1,156.5	604.6	573.1	31.51	19.187		
5,200.0	5,148.2	5,174.6	5,166.4	19.8	11.3	3.69	406.4	-1,155.6	597.0	564.9	32.10	18.597		
5,300.0	5,248.0	5,274.1	5,265.9	20.2	11.4	3.81	407.1	-1,154.8	591.3	558.6	32.66	18.104		
5,400.0	5,348.0	5,373.0	5,364.7	20.5	11.6	3.93	407.9	-1,154.1	587.3	554.1	33.17	17.704		
5,500.0	5,448.0	5,471.4	5,463.2	20.8	11.7	4.03	408.7	-1,153.6	585.4	551.7	33.63	17.407		
5,550.8	5,498.7	5,521.8	5,513.6	20.8	11.8	4.07	409.1	-1,153.4	585.1	551.4	33.76	17.330 CC		
5,552.0	5,500.0	5,523.1	5,514.9	20.8	11.8	-68.77	409.1	-1,153.4	585.1	551.4	33.77	17.329		
5,600.0	5,548.0	5,571.0	5,562.7	20.8	11.8	-68.73	409.4	-1,153.3	585.2	551.3	33.83	17.295		
5,700.0	5,648.0	5,670.8	5,662.5	20.9	12.0	-68.67	410.1	-1,153.1	585.2	551.2	34.00	17.213		
5,800.0	5,748.0	5,769.9	5,761.6	20.9	12.1	-68.61	410.7	-1,153.0	585.4	551.2	34.16	17.136		
5,900.0	5,848.0	5,869.5	5,861.3	21.0	12.2	-68.55	411.4	-1,153.1	585.6	551.3	34.32	17.065		
6,000.0	5,948.0	5,971.0	5,962.7	21.0	12.4	-68.49	412.0	-1,153.0	585.8	551.3	34.47	16.993		
6,100.0	6,048.0	6,071.6	6,063.4	21.1	12.5	-68.43	412.6	-1,152.7	585.7	551.1	34.63	16.913		
6,200.0	6,148.0	6,171.3	6,163.1	21.1	12.7	-68.36	413.2	-1,152.4	585.7	550.9	34.80	16.829		
6,236.1	6,184.0	6,207.3	6,199.0	21.1	12.7	-68.34	413.4	-1,152.3	585.7	550.8	34.86	16.799		
6,300.0	6,248.0	6,270.7	6,262.5	21.2	12.8	-68.30	413.8	-1,152.2	585.7	550.8	34.97	16.751		
6,400.0	6,348.0	6,369.9	6,361.7	21.2	13.0	-68.25	414.3	-1,152.2	585.9	550.7	35.13	16.677		
6,500.0	6,448.0	6,470.5	6,462.3	21.2	13.1	-68.22	414.6	-1,152.2	586.1	550.8	35.29	16.608		
6,600.0	6,548.0	6,571.1	6,562.9	21.3	13.2	-68.20	414.9	-1,152.2	586.1	550.7	35.44	16.536		
6,700.0	6,648.0	6,671.1	6,662.9	21.3	13.4	-68.19	415.0	-1,152.2	586.1	550.5	35.60	16.462		
6,800.0	6,748.0	6,771.2	6,763.0	21.4	13.5	-68.20	414.9	-1,152.2	586.1	550.4	35.77	16.387		
6,900.0	6,848.0	6,871.5	6,863.3	21.4	13.7	-68.21	414.8	-1,152.2	586.1	550.2	35.94	16.310		
6,992.5	6,940.4	6,963.7	6,955.4	21.5	13.8	-68.21	414.8	-1,152.2	586.1	550.0	36.09	16.239		
7,000.0	6,948.0	6,971.1	6,962.9	21.5	13.8	-68.21	414.8	-1,152.2	586.1	550.0	36.10	16.234		
7,100.0	7,048.0	7,070.4	7,062.2	21.5	14.0	-68.22	414.7	-1,152.3	586.1	549.9	36.27	16.161		
7,200.0	7,148.0	7,171.0	7,162.7	21.6	14.1	-68.24	414.6	-1,152.5	586.2	549.8	36.43	16.093		
7,300.0	7,248.0	7,271.7	7,263.4	21.6	14.3	-68.24	414.5	-1,152.5	586.2	549.6	36.59	16.021		
7,400.0	7,348.0	7,372.2	7,364.0	21.7	14.4	-68.26	414.3	-1,152.4	586.1	549.3	36.76	15.942		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 23 FEDERAL P25 6H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,500.0	7,448.0	7,472.4	7,464.1	21.7	14.6	-68.29	413.9	-1,152.3	585.9	549.0	36.94	15.862	
7,600.0	7,548.0	7,571.9	7,563.6	21.8	14.7	-68.34	413.4	-1,152.4	585.7	548.6	37.11	15.785	
7,700.0	7,648.0	7,671.8	7,663.6	21.8	14.9	-68.39	412.9	-1,152.5	585.6	548.4	37.27	15.712	
7,800.0	7,748.0	7,772.0	7,763.8	21.9	15.0	-68.45	412.3	-1,152.6	585.5	548.1	37.44	15.640	
7,873.4	7,821.4	7,844.6	7,836.4	21.9	15.1	-68.49	411.9	-1,152.7	585.4	547.9	37.56	15.589	
7,900.0	7,848.0	7,870.8	7,862.5	21.9	15.2	-68.50	411.8	-1,152.7	585.5	547.9	37.60	15.571 ES	
8,000.0	7,948.0	7,969.0	7,960.8	21.9	15.3	-68.56	411.3	-1,153.1	585.7	547.9	37.76	15.509	
8,100.0	8,048.0	8,068.6	8,060.4	22.0	15.4	-68.63	410.7	-1,153.8	586.1	548.2	37.91	15.460	
8,200.0	8,148.0	8,168.0	8,159.8	22.0	15.6	-68.73	410.0	-1,154.6	586.6	548.5	38.06	15.413	
8,300.0	8,248.0	8,267.4	8,259.1	22.1	15.7	-68.82	409.3	-1,155.5	587.1	548.9	38.20	15.370	
8,400.0	8,348.0	8,364.9	8,356.6	22.1	15.8	-68.88	409.1	-1,156.4	587.9	549.6	38.33	15.338	
8,500.0	8,448.0	8,442.5	8,434.1	22.2	16.1	-68.64	411.9	-1,157.1	590.3	551.7	38.55	15.312 SF	
8,600.0	8,548.0	8,504.9	8,495.6	22.2	16.6	-67.76	422.2	-1,158.2	598.3	559.5	38.80	15.419	
8,700.0	8,648.0	8,562.2	8,550.5	22.3	16.6	-66.40	438.5	-1,160.2	613.0	574.2	38.87	15.771	
8,800.0	8,748.0	8,620.0	8,603.0	22.3	16.7	-64.46	462.4	-1,163.0	635.6	596.7	38.87	16.350	
8,900.0	8,848.0	8,652.0	8,630.3	22.4	16.7	-63.19	478.8	-1,165.1	666.2	627.5	38.74	17.196	
9,000.0	8,948.0	8,708.0	8,676.0	22.4	16.7	-60.81	510.9	-1,169.5	704.3	665.7	38.59	18.251	
9,100.0	9,048.0	8,752.0	8,710.5	22.5	16.7	-58.88	538.0	-1,172.6	747.8	709.4	38.39	19.477	
9,200.0	9,148.0	8,797.0	8,743.2	22.5	16.7	-56.78	568.8	-1,175.5	797.7	759.5	38.21	20.876	
9,300.0	9,248.0	8,841.0	8,773.1	22.6	16.7	-54.70	600.9	-1,178.3	853.3	815.3	38.02	22.446	
9,400.0	9,348.0	8,885.0	8,801.8	22.6	16.7	-52.65	634.2	-1,180.7	913.2	875.3	37.86	24.117	
9,500.0	9,448.0	8,917.4	8,821.7	22.7	16.7	-51.13	659.7	-1,181.8	976.9	939.2	37.73	25.893	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 23 FEDERAL P25 7H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 33-r-5 MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
2,200.0	2,188.7	2,354.5	2,348.6	7.4	11.8	11.85	520.1	-997.4	992.0	972.3	19.69	50.394		
2,300.0	2,287.1	2,454.1	2,447.0	7.7	12.1	12.32	516.4	-982.7	960.7	940.4	20.27	47.394		
2,400.0	2,385.6	2,551.8	2,543.5	8.1	12.4	12.82	512.8	-967.7	929.0	908.1	20.87	44.518		
2,500.0	2,484.1	2,651.4	2,641.9	8.5	12.7	13.36	508.8	-952.2	897.0	875.5	21.48	41.758		
2,600.0	2,582.6	2,757.1	2,746.0	8.9	13.1	14.00	504.3	-934.8	864.2	842.1	22.11	39.094		
2,700.0	2,681.1	2,849.4	2,836.8	9.3	13.4	14.61	500.2	-919.1	831.0	808.2	22.74	36.541		
2,800.0	2,779.6	2,944.7	2,930.7	9.7	13.7	15.33	496.4	-902.7	797.8	774.4	23.38	34.125		
2,900.0	2,878.1	3,041.0	3,025.3	10.1	14.1	16.13	492.4	-885.7	764.4	740.4	24.02	31.825		
3,000.0	2,976.5	3,132.5	3,115.3	10.5	14.4	16.98	488.9	-869.5	731.3	706.6	24.67	29.647		
3,100.0	3,075.0	3,225.8	3,207.1	11.0	14.7	17.96	485.9	-852.9	698.5	673.2	25.30	27.605		
3,200.0	3,173.5	3,324.0	3,303.6	11.4	15.1	19.17	483.0	-834.7	665.6	639.7	25.92	25.677		
3,300.0	3,272.0	3,418.7	3,396.4	11.8	15.4	20.51	480.5	-816.5	632.5	605.9	26.53	23.837		
3,400.0	3,370.5	3,506.8	3,482.9	12.2	15.8	21.88	478.2	-799.7	599.9	572.8	27.15	22.099		
3,500.0	3,469.0	3,593.5	3,568.2	12.7	16.1	23.28	476.0	-784.5	568.9	541.2	27.79	20.476		
3,600.0	3,567.4	3,682.2	3,655.8	13.1	16.5	24.82	474.0	-769.9	539.3	510.9	28.43	18.969		
3,700.0	3,665.9	3,772.6	3,745.1	13.5	16.9	26.50	472.2	-756.1	511.1	482.1	29.00	17.624		
3,800.0	3,764.4	3,863.9	3,835.4	13.9	17.3	28.32	470.5	-742.8	484.0	454.5	29.48	16.418		
3,900.0	3,862.9	3,959.7	3,930.1	14.4	17.6	30.42	468.9	-729.3	457.9	428.0	29.89	15.321		
4,000.0	3,961.4	4,056.6	4,026.0	14.8	18.0	32.81	467.0	-715.2	432.0	401.7	30.23	14.290		
4,100.0	4,059.9	4,155.0	4,123.3	15.3	18.4	35.56	464.7	-700.5	406.3	375.8	30.48	13.332		
4,200.0	4,158.4	4,257.4	4,224.3	15.7	18.8	38.87	461.4	-683.9	380.2	349.6	30.58	12.433		
4,300.0	4,256.8	4,352.2	4,317.6	16.1	19.1	42.45	457.6	-667.6	354.2	323.6	30.61	11.570		
4,400.0	4,355.3	4,444.5	4,408.4	16.6	19.5	46.50	454.2	-651.5	329.9	299.4	30.49	10.819		
4,500.0	4,453.8	4,536.9	4,499.4	17.0	19.9	51.13	451.2	-635.5	307.9	277.8	30.19	10.202		
4,553.4	4,506.4	4,586.2	4,547.9	17.2	20.1	53.80	449.7	-627.1	297.4	267.4	29.97	9.924		
4,600.0	4,552.3	4,629.4	4,590.5	17.4	20.3	56.16	448.5	-620.0	289.0	259.3	29.74	9.718		
4,700.0	4,651.1	4,723.0	4,682.9	17.9	20.8	61.40	446.0	-605.2	274.1	244.8	29.23	9.376		
4,800.0	4,750.1	4,817.6	4,776.4	18.3	21.2	66.83	443.8	-590.5	263.0	234.3	28.70	9.165		
4,900.0	4,849.4	4,912.8	4,870.5	18.7	21.6	72.30	442.0	-576.0	255.8	227.5	28.26	9.050		
5,000.0	4,948.8	5,008.7	4,965.3	19.1	22.1	77.61	440.5	-562.0	252.0	223.9	28.02	8.992		
5,086.0	5,034.5	5,091.9	5,047.6	19.4	22.4	81.93	439.5	-550.2	251.0	223.0	28.01	8.962 CC, ES		
5,100.0	5,048.4	5,105.5	5,061.1	19.5	22.5	82.60	439.3	-548.3	251.1	223.0	28.03	8.958		
5,200.0	5,148.2	5,203.0	5,157.7	19.8	22.9	87.16	438.4	-534.9	252.4	224.1	28.28	8.923		
5,300.0	5,248.0	5,301.5	5,255.3	20.2	23.4	91.29	437.5	-521.6	255.3	226.6	28.76	8.879		
5,400.0	5,348.0	5,400.3	5,353.1	20.5	23.8	95.05	436.4	-507.9	259.4	230.0	29.40	8.822		
5,500.0	5,448.0	5,502.8	5,454.6	20.8	24.3	98.44	434.6	-494.0	263.5	233.3	30.16	8.735		
5,552.0	5,500.0	5,556.3	5,507.7	20.8	24.5	27.14	433.1	-487.1	265.2	234.7	30.56	8.679		
5,600.0	5,548.0	5,604.9	5,555.9	20.8	24.7	28.43	431.6	-481.1	266.7	235.8	30.92	8.624		
5,700.0	5,648.0	5,704.7	5,655.0	20.9	25.2	30.89	428.7	-469.5	269.9	238.2	31.71	8.511		
5,800.0	5,748.0	5,804.1	5,753.7	20.9	25.6	33.09	426.1	-458.9	273.4	240.9	32.50	8.411		
5,900.0	5,848.0	5,902.7	5,851.8	21.0	26.0	35.10	423.9	-448.6	277.4	244.1	33.30	8.332		
6,000.0	5,948.0	6,002.6	5,951.1	21.0	26.4	37.10	421.8	-438.1	281.9	247.8	34.13	8.260		
6,100.0	6,048.0	6,102.7	6,050.4	21.1	26.9	39.38	418.4	-426.4	286.5	251.5	35.08	8.168		
6,200.0	6,148.0	6,200.6	6,147.6	21.1	27.3	41.69	414.7	-414.3	291.7	255.6	36.08	8.086		
6,300.0	6,248.0	6,298.8	6,245.0	21.2	27.7	43.84	411.5	-402.2	297.7	260.7	37.06	8.034		
6,400.0	6,348.0	6,399.4	6,344.8	21.2	28.1	45.81	408.7	-390.4	304.1	266.0	38.04	7.994		
6,500.0	6,448.0	6,500.4	6,445.2	21.2	28.6	47.54	406.3	-379.5	310.3	271.3	38.96	7.964		
6,600.0	6,548.0	6,602.0	6,546.3	21.3	29.0	49.07	404.0	-369.6	316.1	276.3	39.83	7.937		
6,700.0	6,648.0	6,703.1	6,647.0	21.3	29.4	50.41	401.8	-360.6	321.5	280.9	40.60	7.918		
6,800.0	6,748.0	6,804.1	6,747.6	21.4	29.7	51.63	399.7	-352.2	326.7	285.4	41.31	7.907		
6,900.0	6,848.0	6,904.7	6,847.8	21.4	30.1	52.72	397.8	-344.5	331.6	289.6	42.04	7.887		

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 23 FEDERAL P25 7H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,000.0	6,948.0	7,005.3	6,948.2	21.5	30.5	53.71	396.1	-337.2	336.4	293.6	42.75	7.868	
7,100.0	7,048.0	7,107.0	7,049.6	21.5	30.9	54.60	394.4	-330.4	340.8	297.4	43.43	7.849	
7,200.0	7,148.0	7,208.9	7,151.4	21.6	31.3	55.41	392.8	-324.4	344.8	300.7	44.07	7.824	
7,300.0	7,248.0	7,311.2	7,253.5	21.6	31.7	56.11	391.2	-319.2	348.1	303.5	44.66	7.795	
7,400.0	7,348.0	7,412.5	7,354.7	21.7	32.0	56.72	389.7	-314.8	350.9	305.7	45.20	7.762	
7,500.0	7,448.0	7,513.2	7,455.3	21.7	32.4	57.29	388.1	-310.7	353.4	307.7	45.73	7.729	
7,600.0	7,548.0	7,615.4	7,557.4	21.8	32.7	57.85	386.4	-307.0	355.6	309.4	46.22	7.694	
7,700.0	7,648.0	7,717.5	7,659.5	21.8	33.0	58.37	384.5	-304.0	357.1	310.4	46.68	7.650	
7,800.0	7,748.0	7,817.4	7,759.3	21.9	33.3	58.85	382.6	-301.3	358.4	311.2	47.11	7.607	
7,900.0	7,848.0	7,917.8	7,859.7	21.9	33.6	59.30	380.8	-298.8	359.6	312.1	47.53	7.567	
8,000.0	7,948.0	8,019.0	7,960.8	21.9	33.9	59.71	379.1	-296.6	360.7	312.8	47.92	7.527	
8,100.0	8,048.0	8,120.2	8,062.0	22.0	34.2	60.07	377.5	-294.8	361.4	313.1	48.26	7.488	
8,200.0	8,148.0	8,221.4	8,163.1	22.0	34.5	60.44	375.7	-293.3	361.8	313.2	48.59	7.445	
8,300.0	8,248.0	8,322.4	8,264.1	22.1	34.7	60.82	373.6	-292.0	361.9	313.0	48.83	7.410	
8,304.4	8,252.4	8,326.5	8,268.2	22.1	34.7	60.84	373.5	-292.0	361.9	313.0	48.85	7.408	
8,400.0	8,348.0	8,419.2	8,360.7	22.1	34.9	61.81	368.5	-288.4	362.7	313.3	49.34	7.350	
8,500.0	8,448.0	8,505.0	8,446.1	22.2	35.2	62.96	362.7	-283.6	364.6	314.6	49.97	7.296 SF	
8,600.0	8,548.0	8,582.0	8,522.7	22.2	35.5	63.68	362.0	-275.0	373.9	323.3	50.53	7.398	
8,700.0	8,648.0	8,656.7	8,596.5	22.3	35.7	63.79	366.4	-264.4	388.9	338.1	50.79	7.657	
8,800.0	8,748.0	8,726.9	8,664.8	22.3	35.9	62.98	377.9	-253.6	410.0	359.4	50.57	8.108	
8,900.0	8,848.0	8,810.5	8,743.9	22.4	36.0	60.67	402.4	-242.7	435.8	385.9	49.94	8.727	
9,000.0	8,948.0	8,882.0	8,808.6	22.4	36.0	57.75	431.9	-236.0	466.5	417.7	48.82	9.556	
9,100.0	9,048.0	8,959.3	8,874.9	22.5	36.0	53.95	471.2	-231.6	502.5	455.0	47.47	10.584	
9,200.0	9,148.0	9,028.8	8,931.8	22.5	36.0	50.16	511.3	-231.5	542.5	496.4	46.04	11.784	
9,300.0	9,248.0	9,086.0	8,977.1	22.6	36.0	47.21	546.1	-231.1	588.3	543.5	44.82	13.126	
9,400.0	9,348.0	9,127.9	9,008.5	22.6	36.0	45.00	573.8	-231.4	640.3	596.5	43.77	14.630	
9,500.0	9,448.0	9,159.4	9,030.3	22.7	36.0	43.25	596.6	-232.2	699.2	656.3	42.85	16.316	
9,600.0	9,548.0	9,192.0	9,050.9	22.7	36.0	41.41	621.8	-233.5	764.0	721.9	42.09	18.151	
9,700.0	9,648.0	9,209.5	9,061.1	22.8	36.0	40.42	635.9	-234.4	834.0	792.5	41.51	20.092	
9,800.0	9,748.0	9,236.0	9,075.3	22.8	36.1	38.90	658.3	-236.0	908.4	867.3	41.07	22.117	
9,900.0	9,848.0	9,236.0	9,075.3	22.9	36.1	38.90	658.3	-236.0	986.4	945.6	40.75	24.208	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	STATE LINE OFFSETS - APOLLO 7 #10H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	25-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Rule Assigned:													
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
19,400.0	12,184.0	11,920.0	11,805.6	73.5	34.0	67.22	-7,525.2	-1,424.5	996.6	887.7	108.90	9.151		
19,444.6	12,184.0	11,937.3	11,817.0	73.9	34.0	67.87	-7,538.3	-1,424.2	981.6	871.1	110.51	8.883		
19,445.3	12,184.0	11,937.7	11,817.2	73.9	34.0	67.88	-7,538.6	-1,424.2	981.4	869.8	111.60	8.794 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	STATE LINE OFFSETS - APOLLO 7 #6H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	158-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:									
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Distance	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
19,400.0	12,184.0	11,931.0	11,900.1	73.5	23.2	-73.22	-7,460.4	334.4	983.4	885.2	98.19	10.015	
19,444.6	12,184.0	11,941.3	11,908.1	73.9	23.2	-73.70	-7,466.8	334.9	970.9	871.1	99.71	9.736	
19,445.3	12,184.0	11,941.5	11,908.3	73.9	23.2	-73.71	-7,466.9	334.9	970.7	870.1	100.62	9.647 CC, ES, SF	

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: STATE LINE OFFSETS - APOLLO 7 #8H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 161-r.5 MWD												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
18,800.0	12,184.0	11,769.0	11,714.0	68.0	25.0	-6.64	-7,410.8	-510.8	958.8	906.4	52.38	18.304	
18,900.0	12,184.0	11,791.1	11,733.2	68.9	25.0	-6.94	-7,421.7	-510.6	872.0	818.0	53.96	16.158	
19,000.0	12,184.0	11,817.0	11,755.3	69.8	25.0	-7.34	-7,435.2	-510.3	786.8	731.0	55.73	14.117	
19,100.0	12,184.0	11,834.3	11,769.7	70.7	25.0	-7.64	-7,444.8	-509.9	703.8	645.3	58.53	12.025	
19,200.0	12,184.0	11,863.0	11,792.5	71.6	25.0	-8.20	-7,462.2	-509.1	624.1	562.9	61.28	10.185	
19,300.0	12,184.0	11,890.4	11,813.4	72.5	25.0	-8.76	-7,479.9	-508.4	547.9	483.0	64.91	8.441	
19,400.0	12,184.0	11,936.1	11,846.9	73.5	25.0	-9.69	-7,510.9	-507.9	474.8	407.1	67.69	7.015	
19,444.6	12,184.0	11,958.0	11,862.6	73.9	25.0	-10.12	-7,526.3	-508.1	443.2	374.2	69.01	6.423	
19,445.3	12,184.0	11,958.0	11,862.6	73.9	25.0	-10.12	-7,526.3	-508.1	442.7	365.8	76.94	5.754 CC, ES, SF	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: STATE LINE OFFSETS - APOLLO 7 #9H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 91-r.5 MWD													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
18,800.0	12,184.0	11,799.3	11,761.8	68.0	28.1	44.44	-7,382.8	-961.9	988.2	923.4	64.81	15.248		
18,900.0	12,184.0	11,826.0	11,784.5	68.9	28.0	45.90	-7,396.6	-959.1	908.0	840.0	67.98	13.357		
19,000.0	12,184.0	11,826.0	11,784.5	69.8	28.0	45.90	-7,396.6	-959.1	830.6	757.3	73.23	11.342		
19,100.0	12,184.0	11,855.6	11,808.7	70.7	28.0	47.57	-7,413.4	-956.3	757.0	679.3	77.68	9.746		
19,200.0	12,184.0	11,873.0	11,822.5	71.6	28.0	48.59	-7,423.9	-954.9	688.4	604.6	83.72	8.222		
19,300.0	12,184.0	11,921.0	11,858.7	72.5	28.0	51.57	-7,455.3	-952.6	625.7	537.2	88.54	7.067		
19,400.0	12,184.0	11,938.0	11,870.9	73.5	28.0	52.67	-7,467.2	-952.4	569.7	473.4	96.28	5.917		
19,444.6	12,184.0	11,953.0	11,881.2	73.9	28.0	53.64	-7,478.0	-952.3	547.6	448.2	99.37	5.511		
19,445.3	12,184.0	11,953.2	11,881.3	73.9	28.0	53.66	-7,478.2	-952.3	547.3	445.2	102.04	5.363 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,300.0	5,248.0	5,526.0	5,428.2	20.2	22.5	-18.99	167.6	-1,562.9	977.4	936.1	41.29	23.669	
5,400.0	5,348.0	5,609.8	5,510.6	20.5	22.9	-18.82	170.7	-1,548.1	956.4	914.3	42.03	22.757	
5,500.0	5,448.0	5,700.0	5,599.6	20.8	23.3	-18.64	173.7	-1,533.6	938.4	895.7	42.72	21.969	
5,552.0	5,500.0	5,738.6	5,637.8	20.8	23.5	-91.39	174.9	-1,527.8	930.3	887.3	43.00	21.636	
5,600.0	5,548.0	5,779.5	5,678.3	20.8	23.6	-91.32	176.1	-1,521.9	923.4	880.1	43.22	21.363	
5,700.0	5,648.0	5,865.1	5,763.1	20.9	24.0	-91.19	178.5	-1,510.5	910.0	866.3	43.70	20.825	
5,800.0	5,748.0	5,951.1	5,848.4	20.9	24.4	-91.07	180.6	-1,500.3	898.1	853.9	44.15	20.339	
5,900.0	5,848.0	6,037.3	5,934.1	21.0	24.7	-90.96	182.4	-1,491.3	887.6	843.0	44.59	19.905	
6,000.0	5,948.0	6,123.8	6,020.2	21.0	25.0	-90.86	184.0	-1,483.6	878.6	833.6	45.01	19.521	
6,100.0	6,048.0	6,210.5	6,106.7	21.1	25.4	-90.78	185.4	-1,477.1	871.2	825.8	45.40	19.187	
6,200.0	6,148.0	6,300.0	6,196.0	21.1	25.7	-90.71	186.5	-1,471.8	865.2	819.4	45.79	18.896	
6,300.0	6,248.0	6,384.4	6,280.3	21.2	26.0	-90.66	187.2	-1,468.0	860.7	814.5	46.11	18.664	
6,400.0	6,348.0	6,471.5	6,367.4	21.2	26.2	-90.63	187.8	-1,465.4	857.6	811.2	46.41	18.478	
6,500.0	6,448.0	6,558.7	6,454.6	21.2	26.4	-90.61	188.1	-1,464.0	856.1	809.5	46.61	18.367	
6,569.5	6,517.5	6,621.6	6,517.5	21.3	26.5	-90.61	188.1	-1,463.9	855.9	809.2	46.70	18.327	
6,600.0	6,548.0	6,652.1	6,548.0	21.3	26.5	-90.61	188.1	-1,463.9	855.9	809.2	46.72	18.318	
6,700.0	6,648.0	6,752.1	6,648.0	21.3	26.5	-90.61	188.1	-1,463.9	855.9	809.1	46.80	18.288	
6,800.0	6,748.0	6,852.1	6,748.0	21.4	26.6	-90.61	188.1	-1,463.9	855.9	809.0	46.88	18.258	
6,900.0	6,848.0	6,952.1	6,848.0	21.4	26.6	-90.61	188.1	-1,463.9	855.9	809.0	46.96	18.227	
7,000.0	6,948.0	7,052.1	6,948.0	21.5	26.6	-90.61	188.1	-1,463.9	855.9	808.9	47.04	18.197	
7,100.0	7,048.0	7,152.1	7,048.0	21.5	26.7	-90.61	188.1	-1,463.9	855.9	808.8	47.12	18.166	
7,200.0	7,148.0	7,252.1	7,148.0	21.6	26.7	-90.61	188.1	-1,463.9	855.9	808.7	47.20	18.135	
7,300.0	7,248.0	7,352.1	7,248.0	21.6	26.7	-90.61	188.1	-1,463.9	855.9	808.6	47.28	18.104	
7,400.0	7,348.0	7,452.1	7,348.0	21.7	26.8	-90.61	188.1	-1,463.9	855.9	808.6	47.36	18.074	
7,500.0	7,448.0	7,552.1	7,448.0	21.7	26.8	-90.61	188.1	-1,463.9	855.9	808.5	47.44	18.043	
7,600.0	7,548.0	7,652.1	7,548.0	21.8	26.8	-90.61	188.1	-1,463.9	855.9	808.4	47.52	18.012	
7,700.0	7,648.0	7,752.1	7,648.0	21.8	26.9	-90.61	188.1	-1,463.9	855.9	808.3	47.60	17.981	
7,800.0	7,748.0	7,852.1	7,748.0	21.9	26.9	-90.61	188.1	-1,463.9	855.9	808.2	47.68	17.950	
7,900.0	7,848.0	7,952.1	7,848.0	21.9	26.9	-90.61	188.1	-1,463.9	855.9	808.1	47.77	17.919	
8,000.0	7,948.0	8,052.1	7,948.0	21.9	27.0	-90.61	188.1	-1,463.9	855.9	808.1	47.85	17.888	
8,100.0	8,048.0	8,152.1	8,048.0	22.0	27.0	-90.61	188.1	-1,463.9	855.9	808.0	47.93	17.856	
8,200.0	8,148.0	8,252.1	8,148.0	22.0	27.1	-90.61	188.1	-1,463.9	855.9	807.9	48.02	17.825	
8,300.0	8,248.0	8,352.1	8,248.0	22.1	27.1	-90.61	188.1	-1,463.9	855.9	807.8	48.10	17.794	
8,400.0	8,348.0	8,452.1	8,348.0	22.1	27.1	-90.61	188.1	-1,463.9	855.9	807.7	48.19	17.763	
8,500.0	8,448.0	8,552.1	8,448.0	22.2	27.2	-90.61	188.1	-1,463.9	855.9	807.6	48.27	17.731	
8,600.0	8,548.0	8,652.1	8,548.0	22.2	27.2	-90.61	188.1	-1,463.9	855.9	807.6	48.36	17.700	
8,700.0	8,648.0	8,752.1	8,648.0	22.3	27.2	-90.61	188.1	-1,463.9	855.9	807.5	48.44	17.669	
8,800.0	8,748.0	8,852.1	8,748.0	22.3	27.3	-90.61	188.1	-1,463.9	855.9	807.4	48.53	17.637	
8,900.0	8,848.0	8,952.1	8,848.0	22.4	27.3	-90.61	188.1	-1,463.9	855.9	807.3	48.61	17.606	
9,000.0	8,948.0	9,052.1	8,948.0	22.4	27.4	-90.61	188.1	-1,463.9	855.9	807.2	48.70	17.574	
9,100.0	9,048.0	9,152.1	9,048.0	22.5	27.4	-90.61	188.1	-1,463.9	855.9	807.1	48.79	17.543	
9,200.0	9,148.0	9,252.1	9,148.0	22.5	27.4	-90.61	188.1	-1,463.9	855.9	807.0	48.88	17.511	
9,300.0	9,248.0	9,352.1	9,248.0	22.6	27.5	-90.61	188.1	-1,463.9	855.9	806.9	48.97	17.480	
9,400.0	9,348.0	9,452.1	9,348.0	22.6	27.5	-90.61	188.1	-1,463.9	855.9	806.9	49.05	17.448	
9,500.0	9,448.0	9,552.1	9,448.0	22.7	27.5	-90.61	188.1	-1,463.9	855.9	806.8	49.14	17.417	
9,600.0	9,548.0	9,652.1	9,548.0	22.7	27.6	-90.61	188.1	-1,463.9	855.9	806.7	49.23	17.385	
9,700.0	9,648.0	9,752.1	9,648.0	22.8	27.6	-90.61	188.1	-1,463.9	855.9	806.6	49.32	17.354	
9,800.0	9,748.0	9,852.1	9,748.0	22.8	27.7	-90.61	188.1	-1,463.9	855.9	806.5	49.41	17.322	
9,900.0	9,848.0	9,952.1	9,848.0	22.9	27.7	-90.61	188.1	-1,463.9	855.9	806.4	49.50	17.291	
10,000.0	9,948.0	10,052.1	9,948.0	23.0	27.7	-90.61	188.1	-1,463.9	855.9	806.3	49.59	17.259	
10,100.0	10,048.0	10,152.1	10,048.0	23.0	27.8	-90.61	188.1	-1,463.9	855.9	806.2	49.68	17.227	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 705H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:									Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
10,200.0	10,148.0	10,252.1	10,148.0	23.1	27.8	-90.61	188.1	-1,463.9	855.9	806.1	49.77	17.196		
10,300.0	10,248.0	10,352.1	10,248.0	23.1	27.9	-90.61	188.1	-1,463.9	855.9	806.0	49.87	17.164		
10,400.0	10,348.0	10,452.1	10,348.0	23.2	27.9	-90.61	188.1	-1,463.9	855.9	806.0	49.96	17.132		
10,500.0	10,448.0	10,552.1	10,448.0	23.2	27.9	-90.61	188.1	-1,463.9	855.9	805.9	50.05	17.101		
10,600.0	10,548.0	10,652.1	10,548.0	23.3	28.0	-90.61	188.1	-1,463.9	855.9	805.8	50.14	17.069		
10,700.0	10,648.0	10,752.1	10,648.0	23.3	28.0	-90.61	188.1	-1,463.9	855.9	805.7	50.24	17.037		
10,800.0	10,748.0	10,852.1	10,748.0	23.4	28.1	-90.61	188.1	-1,463.9	855.9	805.6	50.33	17.006		
10,900.0	10,848.0	10,952.1	10,848.0	23.4	28.1	-90.61	188.1	-1,463.9	855.9	805.5	50.42	16.974		
11,000.0	10,948.0	11,052.1	10,948.0	23.5	28.2	-90.61	188.1	-1,463.9	855.9	805.4	50.52	16.942		
11,100.0	11,048.0	11,152.1	11,048.0	23.5	28.2	-90.61	188.1	-1,463.9	855.9	805.3	50.61	16.911		
11,200.0	11,148.0	11,252.1	11,148.0	23.6	28.2	-90.61	188.1	-1,463.9	855.9	805.2	50.71	16.879		
11,300.0	11,248.0	11,352.1	11,248.0	23.6	28.3	-90.61	188.1	-1,463.9	855.9	805.1	50.80	16.847		
11,400.0	11,348.0	11,452.1	11,348.0	23.7	28.3	-90.61	188.1	-1,463.9	855.9	805.0	50.90	16.816		
11,500.0	11,448.0	11,552.1	11,448.0	23.8	28.4	-90.61	188.1	-1,463.9	855.9	804.9	50.99	16.784		
11,600.0	11,548.0	11,652.1	11,548.0	23.8	28.4	-90.61	188.1	-1,463.9	855.9	804.8	51.09	16.753		
11,700.0	11,648.0	11,752.1	11,648.0	23.9	28.5	-90.61	188.1	-1,463.9	855.9	804.7	51.19	16.721		
11,758.5	11,706.5	11,810.6	11,706.5	23.9	28.5	-90.61	188.1	-1,463.9	855.9	804.7	51.23	16.706		
11,775.0	11,722.9	11,826.9	11,722.8	23.9	28.5	89.72	187.8	-1,463.9	855.9	804.7	51.23	16.706		
11,800.0	11,747.9	11,851.7	11,747.5	23.9	28.5	89.72	186.3	-1,463.9	855.9	804.7	51.23	16.709		
11,825.0	11,772.7	11,876.5	11,772.2	23.8	28.4	89.72	183.6	-1,463.8	855.9	804.7	51.22	16.712		
11,850.0	11,797.4	11,901.3	11,796.6	23.8	28.4	89.72	179.5	-1,463.8	855.9	804.7	51.20	16.716		
11,875.0	11,821.8	11,926.1	11,820.8	23.8	28.4	89.73	174.2	-1,463.8	855.9	804.7	51.19	16.720		
11,900.0	11,845.9	11,950.9	11,844.7	23.7	28.4	89.73	167.6	-1,463.7	855.9	804.7	51.18	16.725		
11,925.0	11,869.6	11,975.6	11,868.3	23.7	28.3	89.74	159.9	-1,463.7	855.9	804.7	51.16	16.730		
11,950.0	11,892.9	12,000.4	11,891.4	23.6	28.3	89.74	150.9	-1,463.6	855.9	804.8	51.14	16.735		
11,975.0	11,915.6	12,025.2	11,914.0	23.6	28.3	89.75	140.7	-1,463.6	855.9	804.8	51.13	16.740		
11,993.8	11,932.3	12,043.9	11,930.6	23.6	28.3	89.75	132.2	-1,463.5	855.9	804.8	51.12	16.744		
12,000.0	11,937.8	12,050.0	11,936.0	23.6	28.3	89.75	129.3	-1,463.5	855.9	804.8	51.11	16.745		
12,025.0	11,959.3	12,074.9	11,957.5	23.5	28.2	89.76	116.8	-1,463.5	855.9	804.8	51.10	16.750		
12,050.0	11,980.2	12,099.7	11,978.2	23.5	28.2	89.77	103.2	-1,463.4	855.9	804.8	51.08	16.755		
12,075.0	12,000.3	12,124.5	11,998.3	23.5	28.2	89.78	88.6	-1,463.3	855.9	804.8	51.07	16.759		
12,100.0	12,019.6	12,149.3	12,017.5	23.4	28.2	89.79	72.9	-1,463.2	855.9	804.8	51.06	16.763		
12,125.0	12,038.0	12,174.2	12,035.9	23.4	28.2	89.80	56.2	-1,463.1	855.9	804.9	51.05	16.766		
12,150.0	12,055.5	12,199.0	12,053.5	23.4	28.2	89.81	38.6	-1,463.0	855.9	804.9	51.04	16.769		
12,175.0	12,072.1	12,223.9	12,070.1	23.4	28.1	89.82	20.2	-1,462.9	855.9	804.9	51.04	16.770		
12,200.0	12,087.7	12,248.7	12,085.7	23.4	28.1	89.83	0.8	-1,462.8	855.9	804.9	51.03	16.771		
12,225.0	12,102.2	12,273.6	12,100.3	23.3	28.1	89.84	-19.3	-1,462.7	855.9	804.9	51.04	16.771		
12,250.0	12,115.7	12,298.5	12,113.8	23.3	28.1	89.85	-40.2	-1,462.6	855.9	804.9	51.04	16.769		
12,275.0	12,128.0	12,323.4	12,126.2	23.3	28.1	89.87	-61.8	-1,462.4	855.9	804.9	51.05	16.766		
12,300.0	12,139.1	12,348.3	12,137.5	23.3	28.1	89.88	-84.0	-1,462.3	855.9	804.8	51.06	16.761		
12,325.0	12,149.1	12,373.2	12,147.6	23.3	28.1	89.89	-106.7	-1,462.2	855.9	804.8	51.08	16.755		
12,350.0	12,157.9	12,398.1	12,156.6	23.3	28.1	89.91	-130.0	-1,462.0	855.9	804.8	51.11	16.748		
12,359.0	12,160.7	12,407.1	12,159.5	23.3	28.1	89.91	-138.5	-1,462.0	855.9	804.8	51.12	16.744 CC		
12,375.0	12,165.4	12,423.0	12,164.3	23.3	28.2	89.92	-153.7	-1,461.9	855.9	804.8	51.13	16.739		
12,400.0	12,171.7	12,448.0	12,170.7	23.4	28.2	89.94	-177.8	-1,461.8	855.9	804.7	51.17	16.728		
12,425.0	12,176.7	12,472.9	12,175.9	23.4	28.2	89.95	-202.2	-1,461.6	855.9	804.7	51.20	16.715		
12,450.0	12,180.4	12,497.9	12,179.9	23.4	28.2	89.96	-226.8	-1,461.5	855.9	804.7	51.25	16.701		
12,475.0	12,182.8	12,522.9	12,182.5	23.4	28.2	89.98	-251.7	-1,461.3	855.9	804.6	51.30	16.686		
12,500.0	12,183.9	12,547.9	12,183.8	23.5	28.3	89.99	-276.6	-1,461.2	855.9	804.6	51.35	16.669		
12,508.5	12,184.0	12,556.4	12,183.9	23.5	28.3	90.00	-285.2	-1,461.2	855.9	804.5	51.37	16.663		

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,600.0	12,184.0	12,647.9	12,184.0	23.6	28.4	90.00	-376.6	-1,460.6	855.9	804.3	51.62	16.581		
12,700.0	12,184.0	12,747.9	12,184.0	23.8	28.6	90.00	-476.6	-1,460.1	855.9	803.9	51.96	16.472		
12,800.0	12,184.0	12,847.9	12,184.0	24.1	28.8	90.00	-576.6	-1,459.5	855.9	803.5	52.37	16.342		
12,900.0	12,184.0	12,947.9	12,184.0	24.3	29.0	90.00	-676.6	-1,458.9	855.9	803.1	52.85	16.195		
13,000.0	12,184.0	13,047.9	12,184.0	24.6	29.3	90.00	-776.6	-1,458.3	855.9	802.5	53.39	16.031		
13,100.0	12,184.0	13,147.9	12,184.0	25.0	29.6	90.00	-876.6	-1,457.8	855.9	801.9	53.99	15.852		
13,200.0	12,184.0	13,247.9	12,184.0	25.3	29.9	90.00	-976.6	-1,457.2	855.9	801.3	54.66	15.660		
13,300.0	12,184.0	13,347.9	12,184.0	25.7	30.2	90.00	-1,076.6	-1,456.6	855.9	800.5	55.38	15.456		
13,400.0	12,184.0	13,447.9	12,184.0	26.2	30.6	90.00	-1,176.6	-1,456.0	855.9	799.8	56.15	15.243		
13,500.0	12,184.0	13,547.9	12,184.0	26.6	31.0	90.00	-1,276.6	-1,455.5	855.9	798.9	56.98	15.021		
13,600.0	12,184.0	13,647.9	12,184.0	27.1	31.4	90.00	-1,376.6	-1,454.9	855.9	798.1	57.86	14.793		
13,700.0	12,184.0	13,747.9	12,184.0	27.6	31.9	90.00	-1,476.6	-1,454.3	855.9	797.1	58.79	14.559		
13,800.0	12,184.0	13,847.9	12,184.0	28.1	32.3	90.00	-1,576.6	-1,453.8	855.9	796.2	59.76	14.322		
13,900.0	12,184.0	13,947.9	12,184.0	28.7	32.8	90.00	-1,676.6	-1,453.2	855.9	795.1	60.78	14.082		
14,000.0	12,184.0	14,047.9	12,184.0	29.2	33.3	90.00	-1,776.6	-1,452.6	855.9	794.1	61.84	13.840		
14,100.0	12,184.0	14,147.9	12,184.0	29.8	33.9	90.00	-1,876.6	-1,452.0	855.9	793.0	62.94	13.598		
14,200.0	12,184.0	14,247.9	12,184.0	30.4	34.4	90.00	-1,976.6	-1,451.5	855.9	791.8	64.08	13.357		
14,300.0	12,184.0	14,347.9	12,184.0	31.1	35.0	90.00	-2,076.6	-1,450.9	855.9	790.7	65.26	13.116		
14,400.0	12,184.0	14,447.9	12,184.0	31.7	35.5	90.00	-2,176.6	-1,450.3	855.9	789.5	66.46	12.878		
14,500.0	12,184.0	14,547.9	12,184.0	32.4	36.1	90.00	-2,276.6	-1,449.8	855.9	788.2	67.70	12.642		
14,600.0	12,184.0	14,647.9	12,184.0	33.0	36.7	90.00	-2,376.6	-1,449.2	855.9	787.0	68.97	12.410		
14,700.0	12,184.0	14,747.9	12,184.0	33.7	37.4	90.00	-2,476.6	-1,448.6	855.9	785.7	70.27	12.180		
14,800.0	12,184.0	14,847.9	12,184.0	34.4	38.0	90.00	-2,576.6	-1,448.0	855.9	784.3	71.60	11.955		
14,900.0	12,184.0	14,947.9	12,184.0	35.2	38.7	90.00	-2,676.6	-1,447.5	855.9	783.0	72.95	11.733		
15,000.0	12,184.0	15,047.9	12,184.0	35.9	39.3	90.00	-2,776.6	-1,446.9	855.9	781.6	74.32	11.516		
15,100.0	12,184.0	15,147.9	12,184.0	36.6	40.0	90.00	-2,876.6	-1,446.3	855.9	780.2	75.72	11.304		
15,200.0	12,184.0	15,247.9	12,184.0	37.4	40.7	90.00	-2,976.6	-1,445.7	855.9	778.8	77.14	11.096		
15,300.0	12,184.0	15,347.9	12,184.0	38.1	41.4	90.00	-3,076.6	-1,445.2	855.9	777.4	78.58	10.892		
15,400.0	12,184.0	15,447.9	12,184.0	38.9	42.1	90.00	-3,176.6	-1,444.6	855.9	775.9	80.04	10.694		
15,500.0	12,184.0	15,547.9	12,184.0	39.7	42.8	90.00	-3,276.6	-1,444.0	855.9	774.4	81.52	10.500		
15,600.0	12,184.0	15,647.9	12,184.0	40.4	43.5	90.00	-3,376.6	-1,443.5	855.9	772.9	83.01	10.311		
15,700.0	12,184.0	15,747.9	12,184.0	41.2	44.3	90.00	-3,476.6	-1,442.9	855.9	771.4	84.53	10.127		
15,800.0	12,184.0	15,847.9	12,184.0	42.0	45.0	90.00	-3,576.6	-1,442.3	855.9	769.9	86.05	9.947		
15,900.0	12,184.0	15,947.9	12,184.0	42.8	45.8	90.00	-3,676.6	-1,441.7	856.0	768.4	87.59	9.772		
16,000.0	12,184.0	16,047.9	12,184.0	43.7	46.5	90.00	-3,776.6	-1,441.2	856.0	766.8	89.15	9.601		
16,100.0	12,184.0	16,147.9	12,184.0	44.5	47.3	90.00	-3,876.5	-1,440.6	856.0	765.2	90.72	9.435		
16,200.0	12,184.0	16,247.9	12,184.0	45.3	48.1	90.00	-3,976.5	-1,440.0	856.0	763.7	92.30	9.274		
16,300.0	12,184.0	16,347.9	12,184.0	46.1	48.9	90.00	-4,076.5	-1,439.5	856.0	762.1	93.89	9.117		
16,400.0	12,184.0	16,447.9	12,184.0	47.0	49.7	90.00	-4,176.5	-1,438.9	856.0	760.5	95.49	8.963		
16,500.0	12,184.0	16,547.9	12,184.0	47.8	50.4	90.00	-4,276.5	-1,438.3	856.0	758.9	97.11	8.814		
16,600.0	12,184.0	16,647.9	12,184.0	48.6	51.2	90.00	-4,376.5	-1,437.7	856.0	757.2	98.73	8.669		
16,700.0	12,184.0	16,747.9	12,184.0	49.5	52.0	90.00	-4,476.5	-1,437.2	856.0	755.6	100.37	8.528		
16,800.0	12,184.0	16,847.9	12,184.0	50.3	52.9	90.00	-4,576.5	-1,436.6	856.0	754.0	102.01	8.391		
16,900.0	12,184.0	16,947.9	12,184.0	51.2	53.7	90.00	-4,676.5	-1,436.0	856.0	752.3	103.67	8.257		
17,000.0	12,184.0	17,047.9	12,184.0	52.1	54.5	90.00	-4,776.5	-1,435.4	856.0	750.6	105.33	8.127		
17,100.0	12,184.0	17,147.9	12,184.0	52.9	55.3	90.00	-4,876.5	-1,434.9	856.0	749.0	106.99	8.000		
17,200.0	12,184.0	17,247.9	12,184.0	53.8	56.1	90.00	-4,976.5	-1,434.3	856.0	747.3	108.67	7.877		
17,300.0	12,184.0	17,347.9	12,184.0	54.7	57.0	90.00	-5,076.5	-1,433.7	856.0	745.6	110.36	7.756		
17,400.0	12,184.0	17,447.9	12,184.0	55.5	57.8	90.00	-5,176.5	-1,433.2	856.0	743.9	112.05	7.639		
17,500.0	12,184.0	17,547.9	12,184.0	56.4	58.7	90.00	-5,276.5	-1,432.6	856.0	742.2	113.74	7.525		
17,600.0	12,184.0	17,647.9	12,184.0	57.3	59.5	90.00	-5,376.5	-1,432.0	856.0	740.5	115.45	7.414		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,700.0	12,184.0	17,747.9	12,184.0	58.2	60.4	90.00	-5,476.5	-1,431.4	856.0	738.8	117.16	7.306		
17,800.0	12,184.0	17,847.9	12,184.0	59.0	61.2	90.00	-5,576.5	-1,430.9	856.0	737.1	118.87	7.201		
17,900.0	12,184.0	17,947.9	12,184.0	59.9	62.1	90.00	-5,676.5	-1,430.3	856.0	735.4	120.59	7.098		
18,000.0	12,184.0	18,047.9	12,184.0	60.8	62.9	90.00	-5,776.5	-1,429.7	856.0	733.7	122.32	6.998		
18,100.0	12,184.0	18,147.9	12,184.0	61.7	63.8	90.00	-5,876.5	-1,429.1	856.0	731.9	124.05	6.900		
18,200.0	12,184.0	18,247.9	12,184.0	62.6	64.6	90.00	-5,976.5	-1,428.6	856.0	730.2	125.79	6.805		
18,300.0	12,184.0	18,347.9	12,184.0	63.5	65.5	90.00	-6,076.5	-1,428.0	856.0	728.5	127.53	6.712		
18,400.0	12,184.0	18,447.9	12,184.0	64.4	66.4	90.00	-6,176.5	-1,427.4	856.0	726.7	129.27	6.621		
18,500.0	12,184.0	18,547.9	12,184.0	65.3	67.3	90.00	-6,276.5	-1,426.9	856.0	725.0	131.02	6.533		
18,600.0	12,184.0	18,647.9	12,184.0	66.2	68.1	90.00	-6,376.5	-1,426.3	856.0	723.2	132.78	6.447		
18,700.0	12,184.0	18,747.9	12,184.0	67.1	69.0	90.00	-6,476.5	-1,425.7	856.0	721.5	134.53	6.363		
18,800.0	12,184.0	18,847.9	12,184.0	68.0	69.9	90.00	-6,576.5	-1,425.1	856.0	719.7	136.30	6.280		
18,900.0	12,184.0	18,947.9	12,184.0	68.9	70.8	90.00	-6,676.5	-1,424.6	856.0	717.9	138.06	6.200		
19,000.0	12,184.0	19,047.9	12,184.0	69.8	71.6	90.00	-6,776.5	-1,424.0	856.0	716.2	139.83	6.122		
19,100.0	12,184.0	19,147.9	12,184.0	70.7	72.5	90.00	-6,876.5	-1,423.4	856.0	714.4	141.60	6.045		
19,200.0	12,184.0	19,247.9	12,184.0	71.6	73.4	90.00	-6,976.5	-1,422.9	856.0	712.6	143.38	5.970		
19,300.0	12,184.0	19,347.9	12,184.0	72.5	74.3	90.00	-7,076.5	-1,422.3	856.0	710.8	145.16	5.897		
19,400.0	12,184.0	19,447.9	12,184.0	73.5	75.2	90.00	-7,176.5	-1,421.7	856.0	709.1	146.94	5.826		
19,404.3	12,184.0	19,452.2	12,184.0	73.5	75.2	90.00	-7,180.8	-1,421.7	856.0	709.0	147.02	5.822		
19,444.6	12,184.0	19,491.3	12,184.0	73.9	75.6	90.00	-7,219.9	-1,421.5	856.0	708.3	147.72	5.795		
19,445.3	12,184.0	19,491.3	12,184.0	73.9	75.6	90.00	-7,219.9	-1,421.5	856.0	708.3	147.72	5.795 ES, SF		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-90.02	0.0	-29.7	29.7	29.2	0.48	61.982	
100.0	100.0	100.0	100.0	1.2	1.2	-90.02	0.0	-29.7	29.7	26.9	2.87	10.366	
200.0	200.0	200.0	200.0	1.7	1.7	-90.02	0.0	-29.7	29.7	25.9	3.86	7.692	
300.0	300.0	300.0	300.0	2.1	2.1	-90.02	0.0	-29.7	29.7	25.1	4.63	6.414	
400.0	400.0	400.0	400.0	2.4	2.4	-90.02	0.0	-29.7	29.7	24.4	5.29	5.621	
500.0	500.0	500.0	500.0	2.7	2.7	-90.02	0.0	-29.7	29.7	23.9	5.87	5.066	
600.0	600.0	600.0	600.0	3.0	3.0	-90.02	0.0	-29.7	29.7	23.3	6.39	4.648	
700.0	700.0	700.0	700.0	3.2	3.2	-90.02	0.0	-29.7	29.7	22.8	6.88	4.318	
800.0	800.0	800.0	800.0	3.5	3.5	-90.02	0.0	-29.7	29.7	22.4	7.34	4.049	
900.0	900.0	900.0	900.0	3.7	3.7	-90.02	0.0	-29.7	29.7	21.9	7.77	3.824	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-90.02	0.0	-29.7	29.7	21.5	8.18	3.632	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	-90.02	0.0	-29.7	29.7	21.1	8.58	3.465 CC	
1,200.0	1,200.0	1,199.0	1,199.0	4.4	4.4	-41.52	0.3	-31.4	30.1	21.0	9.11	3.302 ES	
1,300.0	1,299.8	1,297.9	1,297.8	4.7	4.7	-45.78	1.3	-36.4	31.3	21.7	9.61	3.260 SF	
1,350.0	1,349.7	1,347.4	1,347.1	4.8	4.9	-48.74	2.0	-40.2	32.3	22.6	9.78	3.309	
1,400.0	1,399.5	1,396.8	1,396.3	4.9	5.0	-44.96	2.9	-44.8	33.6	23.6	9.94	3.376	
1,500.0	1,498.8	1,495.6	1,494.4	5.2	5.3	-40.34	5.1	-56.5	36.0	25.6	10.41	3.455	
1,600.0	1,597.7	1,594.5	1,592.0	5.5	5.7	-37.50	8.0	-71.5	38.2	27.3	10.91	3.502	
1,635.7	1,633.0	1,629.8	1,626.8	5.6	5.8	-36.64	9.2	-77.7	38.9	27.9	11.04	3.524	
1,700.0	1,696.2	1,693.3	1,689.0	5.7	6.0	-37.08	11.5	-89.8	40.8	29.5	11.33	3.601	
1,800.0	1,794.7	1,792.4	1,785.7	6.0	6.3	-36.04	15.6	-111.2	45.9	34.1	11.80	3.892	
1,900.0	1,893.2	1,892.2	1,883.0	6.3	6.6	-34.86	19.8	-133.4	51.6	39.2	12.40	4.163	
2,000.0	1,991.7	1,992.0	1,980.2	6.7	6.9	-33.92	24.1	-155.5	57.3	44.3	13.04	4.398	
2,100.0	2,090.2	2,091.9	2,077.5	7.0	7.3	-33.14	28.3	-177.7	63.1	49.4	13.70	4.603	
2,200.0	2,188.7	2,191.7	2,174.7	7.4	7.7	-32.50	32.6	-199.8	68.8	54.4	14.39	4.781	
2,300.0	2,287.1	2,291.5	2,272.0	7.7	8.0	-31.96	36.8	-222.0	74.6	59.5	15.10	4.938	
2,400.0	2,385.6	2,391.4	2,369.2	8.1	8.4	-31.49	41.0	-244.1	80.3	64.5	15.82	5.075	
2,500.0	2,484.1	2,491.2	2,466.5	8.5	8.8	-31.09	45.3	-266.3	86.1	69.5	16.56	5.195	
2,600.0	2,582.6	2,591.0	2,563.7	8.9	9.2	-30.73	49.5	-288.5	91.8	74.5	17.32	5.301	
2,700.0	2,681.1	2,690.9	2,661.0	9.3	9.7	-30.42	53.8	-310.6	97.6	79.5	18.09	5.395	
2,800.0	2,779.6	2,790.7	2,758.2	9.7	10.1	-30.14	58.0	-332.8	103.3	84.5	18.86	5.479	
2,900.0	2,878.1	2,890.5	2,855.5	10.1	10.5	-29.90	62.2	-354.9	109.1	89.5	19.65	5.553	
3,000.0	2,976.5	2,990.4	2,952.7	10.5	10.9	-29.67	66.5	-377.1	114.9	94.4	20.44	5.620	
3,100.0	3,075.0	3,090.2	3,050.0	11.0	11.4	-29.47	70.7	-399.2	120.6	99.4	21.24	5.679	
3,200.0	3,173.5	3,190.0	3,147.2	11.4	11.8	-29.29	75.0	-421.4	126.4	104.4	22.05	5.733	
3,300.0	3,272.0	3,289.9	3,244.5	11.8	12.3	-29.12	79.2	-443.5	132.2	109.3	22.86	5.782	
3,400.0	3,370.5	3,389.7	3,341.7	12.2	12.7	-28.97	83.5	-465.7	137.9	114.3	23.68	5.826	
3,500.0	3,469.0	3,489.5	3,439.0	12.7	13.2	-28.83	87.7	-487.8	143.7	119.2	24.50	5.866	
3,600.0	3,567.4	3,589.4	3,536.2	13.1	13.6	-28.70	91.9	-510.0	149.5	124.2	25.33	5.902	
3,700.0	3,665.9	3,689.2	3,633.5	13.5	14.1	-28.58	96.2	-532.1	155.3	129.1	26.16	5.936	
3,800.0	3,764.4	3,789.0	3,730.7	13.9	14.5	-28.46	100.4	-554.3	161.0	134.1	26.99	5.966	
3,900.0	3,862.9	3,888.9	3,828.0	14.4	15.0	-28.36	104.7	-576.4	166.8	139.0	27.83	5.994	
4,000.0	3,961.4	3,988.7	3,925.2	14.8	15.4	-28.26	108.9	-598.6	172.6	143.9	28.67	6.020	
4,100.0	4,059.9	4,088.5	4,022.5	15.3	15.9	-28.17	113.1	-620.7	178.4	148.9	29.51	6.044	
4,200.0	4,158.4	4,188.4	4,119.8	15.7	16.4	-28.09	117.4	-642.9	184.2	153.8	30.36	6.066	
4,300.0	4,256.8	4,288.2	4,217.0	16.1	16.8	-28.01	121.6	-665.0	189.9	158.7	31.20	6.087	
4,400.0	4,355.3	4,388.0	4,314.3	16.6	17.3	-27.93	125.9	-687.2	195.7	163.7	32.05	6.106	
4,500.0	4,453.8	4,487.9	4,411.5	17.0	17.7	-27.86	130.1	-709.3	201.5	168.6	32.90	6.124	
4,553.4	4,506.4	4,541.1	4,463.4	17.2	18.0	-27.83	132.4	-721.2	204.6	171.2	33.35	6.135	
4,600.0	4,552.3	4,587.7	4,508.7	17.4	18.2	-27.78	134.3	-731.5	207.4	173.7	33.73	6.149	
4,700.0	4,651.1	4,687.4	4,605.9	17.9	18.7	-27.55	138.6	-753.6	214.7	180.1	34.62	6.203	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,800.0	4,750.1	4,787.0	4,702.9	18.3	19.1	-27.13	142.8	-775.7	223.5	188.0	35.52	6.293		
4,900.0	4,849.4	4,886.4	4,799.8	18.7	19.6	-26.55	147.0	-797.8	233.9	197.5	36.45	6.417		
5,000.0	4,948.8	4,985.7	4,896.4	19.1	20.1	-25.86	151.3	-819.8	245.9	208.5	37.39	6.576		
5,100.0	5,048.4	5,084.7	4,992.9	19.5	20.5	-25.08	155.5	-841.8	259.5	221.1	38.34	6.768		
5,200.0	5,148.2	5,183.4	5,089.1	19.8	21.0	-24.24	159.7	-863.7	274.7	235.4	39.28	6.993		
5,300.0	5,248.0	5,281.9	5,185.0	20.2	21.5	-23.36	163.8	-885.5	291.5	251.3	40.21	7.249		
5,400.0	5,348.0	5,384.2	5,284.8	20.5	22.0	-22.45	168.1	-907.7	309.5	268.3	41.15	7.521		
5,500.0	5,448.0	5,488.1	5,386.5	20.8	22.4	-21.59	172.0	-928.4	327.4	285.4	42.03	7.790		
5,552.0	5,500.0	5,542.2	5,439.7	20.8	22.7	-94.02	174.0	-938.5	336.8	294.4	42.41	7.940		
5,600.0	5,548.0	5,592.3	5,488.9	20.8	22.9	-93.63	175.7	-947.4	345.2	302.5	42.72	8.080		
5,700.0	5,648.0	5,697.2	5,592.3	20.9	23.4	-92.92	179.0	-964.6	361.4	318.1	43.34	8.340		
5,800.0	5,748.0	5,802.6	5,696.6	20.9	23.8	-92.35	181.9	-980.1	376.0	332.0	43.92	8.560		
5,900.0	5,848.0	5,908.7	5,801.7	21.0	24.3	-91.88	184.6	-993.8	388.7	344.3	44.46	8.744		
6,000.0	5,948.0	6,015.2	5,907.6	21.0	24.7	-91.50	186.8	-1,005.6	399.7	354.8	44.96	8.891		
6,100.0	6,048.0	6,122.1	6,014.0	21.1	25.1	-91.19	188.7	-1,015.4	408.9	363.5	45.42	9.003		
6,200.0	6,148.0	6,229.4	6,121.0	21.1	25.5	-90.96	190.2	-1,023.4	416.3	370.5	45.85	9.081		
6,300.0	6,248.0	6,337.0	6,228.4	21.2	25.9	-90.79	191.4	-1,029.4	421.9	375.7	46.22	9.128		
6,400.0	6,348.0	6,444.7	6,336.0	21.2	26.3	-90.68	192.1	-1,033.4	425.6	379.1	46.54	9.146		
6,500.0	6,448.0	6,552.5	6,443.8	21.2	26.5	-90.62	192.5	-1,035.4	427.5	380.8	46.73	9.148		
6,600.0	6,548.0	6,656.7	6,548.0	21.3	26.6	-90.62	192.6	-1,035.7	427.7	380.9	46.82	9.136		
6,700.0	6,648.0	6,756.7	6,648.0	21.3	26.6	-90.62	192.6	-1,035.7	427.7	380.8	46.89	9.121		
6,800.0	6,748.0	6,856.7	6,748.0	21.4	26.7	-90.62	192.6	-1,035.7	427.7	380.8	46.97	9.106		
6,900.0	6,848.0	6,956.7	6,848.0	21.4	26.7	-90.62	192.6	-1,035.7	427.7	380.7	47.05	9.091		
7,000.0	6,948.0	7,056.7	6,948.0	21.5	26.7	-90.62	192.6	-1,035.7	427.7	380.6	47.13	9.076		
7,100.0	7,048.0	7,156.7	7,048.0	21.5	26.8	-90.62	192.6	-1,035.7	427.7	380.5	47.21	9.061		
7,200.0	7,148.0	7,256.7	7,148.0	21.6	26.8	-90.62	192.6	-1,035.7	427.7	380.5	47.29	9.045		
7,300.0	7,248.0	7,356.7	7,248.0	21.6	26.8	-90.62	192.6	-1,035.7	427.7	380.4	47.37	9.030		
7,400.0	7,348.0	7,456.7	7,348.0	21.7	26.9	-90.62	192.6	-1,035.7	427.7	380.3	47.45	9.015		
7,500.0	7,448.0	7,556.7	7,448.0	21.7	26.9	-90.62	192.6	-1,035.7	427.7	380.2	47.53	8.999		
7,600.0	7,548.0	7,656.7	7,548.0	21.8	26.9	-90.62	192.6	-1,035.7	427.7	380.1	47.61	8.984		
7,700.0	7,648.0	7,756.7	7,648.0	21.8	27.0	-90.62	192.6	-1,035.7	427.7	380.0	47.69	8.969		
7,800.0	7,748.0	7,856.7	7,748.0	21.9	27.0	-90.62	192.6	-1,035.7	427.7	380.0	47.78	8.953		
7,900.0	7,848.0	7,956.7	7,848.0	21.9	27.1	-90.62	192.6	-1,035.7	427.7	379.9	47.86	8.938		
8,000.0	7,948.0	8,056.7	7,948.0	21.9	27.1	-90.62	192.6	-1,035.7	427.7	379.8	47.94	8.922		
8,100.0	8,048.0	8,156.7	8,048.0	22.0	27.1	-90.62	192.6	-1,035.7	427.7	379.7	48.02	8.907		
8,200.0	8,148.0	8,256.7	8,148.0	22.0	27.2	-90.62	192.6	-1,035.7	427.7	379.6	48.11	8.891		
8,300.0	8,248.0	8,356.7	8,248.0	22.1	27.2	-90.62	192.6	-1,035.7	427.7	379.5	48.19	8.876		
8,400.0	8,348.0	8,456.7	8,348.0	22.1	27.2	-90.62	192.6	-1,035.7	427.7	379.5	48.28	8.860		
8,500.0	8,448.0	8,556.7	8,448.0	22.2	27.3	-90.62	192.6	-1,035.7	427.7	379.4	48.36	8.845		
8,600.0	8,548.0	8,656.7	8,548.0	22.2	27.3	-90.62	192.6	-1,035.7	427.7	379.3	48.45	8.829		
8,700.0	8,648.0	8,756.7	8,648.0	22.3	27.3	-90.62	192.6	-1,035.7	427.7	379.2	48.53	8.813		
8,800.0	8,748.0	8,856.7	8,748.0	22.3	27.4	-90.62	192.6	-1,035.7	427.7	379.1	48.62	8.798		
8,900.0	8,848.0	8,956.7	8,848.0	22.4	27.4	-90.62	192.6	-1,035.7	427.7	379.0	48.71	8.782		
9,000.0	8,948.0	9,056.7	8,948.0	22.4	27.5	-90.62	192.6	-1,035.7	427.7	378.9	48.79	8.767		
9,100.0	9,048.0	9,156.7	9,048.0	22.5	27.5	-90.62	192.6	-1,035.7	427.7	378.9	48.88	8.751		
9,200.0	9,148.0	9,256.7	9,148.0	22.5	27.5	-90.62	192.6	-1,035.7	427.7	378.8	48.97	8.735		
9,300.0	9,248.0	9,356.7	9,248.0	22.6	27.6	-90.62	192.6	-1,035.7	427.7	378.7	49.05	8.720		
9,400.0	9,348.0	9,456.7	9,348.0	22.6	27.6	-90.62	192.6	-1,035.7	427.7	378.6	49.14	8.704		
9,500.0	9,448.0	9,556.7	9,448.0	22.7	27.6	-90.62	192.6	-1,035.7	427.7	378.5	49.23	8.688		
9,600.0	9,548.0	9,656.7	9,548.0	22.7	27.7	-90.62	192.6	-1,035.7	427.7	378.4	49.32	8.673		

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,700.0	9,648.0	9,756.7	9,648.0	22.8	27.7	-90.62	192.6	-1,035.7	427.7	378.3	49.41	8.657		
9,800.0	9,748.0	9,856.7	9,748.0	22.8	27.8	-90.62	192.6	-1,035.7	427.7	378.2	49.50	8.641		
9,900.0	9,848.0	9,956.7	9,848.0	22.9	27.8	-90.62	192.6	-1,035.7	427.7	378.2	49.59	8.625		
10,000.0	9,948.0	10,056.7	9,948.0	23.0	27.8	-90.62	192.6	-1,035.7	427.7	378.1	49.68	8.610		
10,100.0	10,048.0	10,156.7	10,048.0	23.0	27.9	-90.62	192.6	-1,035.7	427.7	378.0	49.77	8.594		
10,200.0	10,148.0	10,256.7	10,148.0	23.1	27.9	-90.62	192.6	-1,035.7	427.7	377.9	49.86	8.578		
10,300.0	10,248.0	10,356.7	10,248.0	23.1	28.0	-90.62	192.6	-1,035.7	427.7	377.8	49.95	8.563		
10,400.0	10,348.0	10,456.7	10,348.0	23.2	28.0	-90.62	192.6	-1,035.7	427.7	377.7	50.05	8.547		
10,500.0	10,448.0	10,556.7	10,448.0	23.2	28.0	-90.62	192.6	-1,035.7	427.7	377.6	50.14	8.531		
10,600.0	10,548.0	10,656.7	10,548.0	23.3	28.1	-90.62	192.6	-1,035.7	427.7	377.5	50.23	8.515		
10,700.0	10,648.0	10,756.7	10,648.0	23.3	28.1	-90.62	192.6	-1,035.7	427.7	377.4	50.32	8.500		
10,800.0	10,748.0	10,856.7	10,748.0	23.4	28.2	-90.62	192.6	-1,035.7	427.7	377.3	50.42	8.484		
10,900.0	10,848.0	10,956.7	10,848.0	23.4	28.2	-90.62	192.6	-1,035.7	427.7	377.2	50.51	8.468		
11,000.0	10,948.0	11,056.7	10,948.0	23.5	28.2	-90.62	192.6	-1,035.7	427.7	377.1	50.61	8.452		
11,100.0	11,048.0	11,156.7	11,048.0	23.5	28.3	-90.62	192.6	-1,035.7	427.7	377.0	50.70	8.437		
11,200.0	11,148.0	11,256.7	11,148.0	23.6	28.3	-90.62	192.6	-1,035.7	427.7	376.9	50.80	8.421		
11,300.0	11,248.0	11,356.7	11,248.0	23.6	28.4	-90.62	192.6	-1,035.7	427.7	376.9	50.89	8.405		
11,400.0	11,348.0	11,456.7	11,348.0	23.7	28.4	-90.62	192.6	-1,035.7	427.7	376.8	50.99	8.389		
11,500.0	11,448.0	11,556.7	11,448.0	23.8	28.5	-90.62	192.6	-1,035.7	427.7	376.7	51.08	8.374		
11,600.0	11,548.0	11,656.7	11,548.0	23.8	28.5	-90.62	192.6	-1,035.7	427.7	376.6	51.18	8.358		
11,700.0	11,648.0	11,756.7	11,648.0	23.9	28.5	-90.62	192.6	-1,035.7	427.7	376.5	51.27	8.342		
11,758.5	11,706.5	11,815.2	11,706.5	23.9	28.6	-90.62	192.6	-1,035.7	427.7	376.4	51.32	8.334		
11,775.0	11,722.9	11,831.6	11,722.9	23.9	28.6	89.75	192.6	-1,035.7	427.7	376.4	51.34	8.332		
11,800.0	11,747.9	11,856.6	11,747.9	23.9	28.6	89.95	192.6	-1,035.7	427.7	376.4	51.37	8.327		
11,803.9	11,751.8	11,860.5	11,751.8	23.8	28.6	90.00	192.6	-1,035.7	427.7	376.4	51.38	8.326		
11,825.0	11,772.7	11,881.4	11,772.7	23.8	28.6	90.33	192.6	-1,035.7	427.7	376.3	51.42	8.318		
11,850.0	11,797.4	11,906.1	11,797.4	23.8	28.6	90.86	192.6	-1,035.7	427.8	376.3	51.49	8.308		
11,875.0	11,821.8	11,930.5	11,821.8	23.8	28.6	91.56	192.6	-1,035.7	427.9	376.3	51.58	8.296		
11,900.0	11,845.9	11,954.6	11,845.9	23.7	28.6	92.39	192.6	-1,035.7	428.1	376.5	51.68	8.285		
11,925.0	11,869.6	11,978.3	11,869.6	23.7	28.6	93.34	192.6	-1,035.7	428.6	376.8	51.78	8.277		
11,950.0	11,892.9	12,001.8	11,893.1	23.6	28.6	94.41	192.6	-1,035.7	429.2	377.3	51.87	8.274		
11,975.0	11,915.6	12,027.1	11,918.3	23.6	28.6	95.59	191.7	-1,035.7	430.1	378.2	51.92	8.284		
12,000.0	11,937.8	12,052.9	11,944.1	23.6	28.6	96.76	189.5	-1,035.7	431.2	379.3	51.92	8.306		
12,025.0	11,959.3	12,079.3	11,970.2	23.5	28.6	97.93	185.7	-1,035.7	432.5	380.7	51.88	8.338		
12,050.0	11,980.2	12,106.4	11,996.8	23.5	28.6	99.08	180.4	-1,035.6	434.0	382.2	51.80	8.379		
12,075.0	12,000.3	12,134.1	12,023.6	23.5	28.5	100.23	173.4	-1,035.6	435.7	384.0	51.69	8.430		
12,100.0	12,019.6	12,162.6	12,050.7	23.4	28.5	101.36	164.6	-1,035.6	437.6	386.0	51.54	8.490		
12,125.0	12,038.0	12,191.9	12,077.9	23.4	28.5	102.47	153.8	-1,035.5	439.5	388.2	51.36	8.558		
12,150.0	12,055.5	12,222.0	12,105.2	23.4	28.5	103.56	141.1	-1,035.4	441.6	390.5	51.16	8.632		
12,175.0	12,072.1	12,252.9	12,132.3	23.4	28.4	104.62	126.3	-1,035.3	443.8	392.9	50.94	8.712		
12,200.0	12,087.7	12,284.7	12,159.1	23.4	28.4	105.66	109.2	-1,035.2	446.0	395.3	50.71	8.797		
12,225.0	12,102.2	12,317.4	12,185.4	23.3	28.4	106.65	89.8	-1,035.1	448.3	397.8	50.47	8.883		
12,250.0	12,115.7	12,351.0	12,211.0	23.3	28.4	107.60	68.1	-1,035.0	450.6	400.4	50.23	8.970		
12,275.0	12,128.0	12,385.5	12,235.7	23.3	28.3	108.50	44.0	-1,034.9	452.8	402.8	50.00	9.056		
12,300.0	12,139.1	12,420.9	12,259.1	23.3	28.3	109.35	17.4	-1,034.7	455.0	405.2	49.78	9.140		
12,325.0	12,149.1	12,457.2	12,281.0	23.3	28.3	110.13	-11.6	-1,034.6	457.0	407.4	49.57	9.219		
12,350.0	12,157.9	12,494.4	12,301.1	23.3	28.3	110.84	-42.8	-1,034.4	458.9	409.5	49.38	9.293		
12,375.0	12,165.4	12,532.4	12,319.0	23.3	28.3	111.47	-76.3	-1,034.2	460.6	411.4	49.20	9.361		
12,400.0	12,171.7	12,571.0	12,334.5	23.4	28.3	112.01	-111.7	-1,034.0	462.0	413.0	49.04	9.421		
12,425.0	12,176.7	12,610.4	12,347.2	23.4	28.3	112.45	-148.9	-1,033.8	463.3	414.4	48.89	9.475		
12,450.0	12,180.4	12,650.2	12,356.9	23.4	28.4	112.79	-187.5	-1,033.5	464.2	415.5	48.75	9.522		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,475.0	12,182.8	12,690.4	12,363.5	23.4	28.4	113.02	-227.2	-1,033.3	464.9	416.2	48.62	9.561	
12,500.0	12,183.9	12,730.8	12,366.6	23.5	28.4	113.15	-267.5	-1,033.1	465.2	416.7	48.49	9.594	
12,508.5	12,184.0	12,744.7	12,367.0	23.5	28.4	113.16	-281.3	-1,033.0	465.3	416.8	48.44	9.604	
12,600.0	12,184.0	12,837.5	12,367.0	23.6	28.6	113.16	-374.1	-1,032.5	465.3	416.9	48.33	9.628	
12,700.0	12,184.0	12,937.5	12,367.0	23.8	28.7	113.16	-474.1	-1,031.9	465.3	417.0	48.28	9.638	
12,800.0	12,184.0	13,037.5	12,367.0	24.1	28.9	113.16	-574.1	-1,031.3	465.3	417.0	48.30	9.633	
12,900.0	12,184.0	13,137.5	12,367.0	24.3	29.2	113.16	-674.1	-1,030.8	465.3	416.9	48.39	9.615	
13,000.0	12,184.0	13,237.5	12,367.0	24.6	29.4	113.16	-774.1	-1,030.2	465.3	416.7	48.56	9.582	
13,100.0	12,184.0	13,337.5	12,367.0	25.0	29.7	113.16	-874.1	-1,029.6	465.3	416.5	48.79	9.536	
13,200.0	12,184.0	13,437.5	12,367.0	25.3	30.0	113.16	-974.1	-1,029.1	465.3	416.2	49.10	9.477	
13,300.0	12,184.0	13,537.5	12,367.0	25.7	30.4	113.16	-1,074.1	-1,028.5	465.3	415.8	49.47	9.405	
13,400.0	12,184.0	13,637.5	12,367.0	26.2	30.8	113.16	-1,174.1	-1,027.9	465.3	415.4	49.91	9.323	
13,500.0	12,184.0	13,737.5	12,367.0	26.6	31.2	113.16	-1,274.1	-1,027.4	465.3	414.9	50.41	9.230	
13,600.0	12,184.0	13,837.5	12,367.0	27.1	31.6	113.16	-1,374.1	-1,026.8	465.3	414.3	50.98	9.127	
13,700.0	12,184.0	13,937.5	12,367.0	27.6	32.0	113.16	-1,474.1	-1,026.2	465.3	413.7	51.61	9.016	
13,800.0	12,184.0	14,037.5	12,367.0	28.1	32.5	113.16	-1,574.1	-1,025.6	465.3	413.0	52.29	8.898	
13,900.0	12,184.0	14,137.5	12,367.0	28.7	33.0	113.16	-1,674.1	-1,025.1	465.3	412.3	53.03	8.774	
14,000.0	12,184.0	14,237.5	12,367.0	29.2	33.5	113.16	-1,774.1	-1,024.5	465.3	411.5	53.83	8.644	
14,100.0	12,184.0	14,337.5	12,367.0	29.8	34.0	113.16	-1,874.1	-1,023.9	465.3	410.6	54.68	8.510	
14,200.0	12,184.0	14,437.5	12,367.0	30.4	34.6	113.16	-1,974.1	-1,023.4	465.3	409.7	55.57	8.373	
14,300.0	12,184.0	14,537.5	12,367.0	31.1	35.1	113.16	-2,074.1	-1,022.8	465.3	408.8	56.52	8.233	
14,400.0	12,184.0	14,637.5	12,367.0	31.7	35.7	113.16	-2,174.1	-1,022.2	465.3	407.8	57.51	8.092	
14,500.0	12,184.0	14,737.5	12,367.0	32.4	36.3	113.16	-2,274.1	-1,021.7	465.3	406.8	58.54	7.949	
14,600.0	12,184.0	14,837.5	12,367.0	33.0	36.9	113.16	-2,374.1	-1,021.1	465.3	405.7	59.61	7.807	
14,700.0	12,184.0	14,937.5	12,367.0	33.7	37.5	113.16	-2,474.1	-1,020.5	465.3	404.6	60.71	7.664	
14,800.0	12,184.0	15,037.5	12,367.0	34.4	38.2	113.16	-2,574.1	-1,019.9	465.3	403.5	61.86	7.523	
14,900.0	12,184.0	15,137.5	12,367.0	35.2	38.8	113.16	-2,674.1	-1,019.4	465.3	402.3	63.04	7.382	
15,000.0	12,184.0	15,237.5	12,367.0	35.9	39.5	113.16	-2,774.1	-1,018.8	465.3	401.1	64.25	7.243	
15,100.0	12,184.0	15,337.5	12,367.0	36.6	40.2	113.16	-2,874.1	-1,018.2	465.3	399.9	65.48	7.106	
15,200.0	12,184.0	15,437.5	12,367.0	37.4	40.8	113.16	-2,974.1	-1,017.7	465.3	398.6	66.75	6.971	
15,300.0	12,184.0	15,537.5	12,367.0	38.1	41.5	113.16	-3,074.1	-1,017.1	465.3	397.3	68.05	6.838	
15,400.0	12,184.0	15,637.5	12,367.0	38.9	42.2	113.16	-3,174.1	-1,016.5	465.3	396.0	69.37	6.708	
15,500.0	12,184.0	15,737.5	12,367.0	39.7	43.0	113.16	-3,274.1	-1,015.9	465.4	394.6	70.71	6.581	
15,600.0	12,184.0	15,837.5	12,367.0	40.4	43.7	113.16	-3,374.1	-1,015.4	465.4	393.3	72.08	6.456	
15,700.0	12,184.0	15,937.5	12,367.0	41.2	44.4	113.16	-3,474.1	-1,014.8	465.4	391.9	73.47	6.334	
15,800.0	12,184.0	16,037.5	12,367.0	42.0	45.2	113.16	-3,574.1	-1,014.2	465.4	390.5	74.88	6.215	
15,900.0	12,184.0	16,137.5	12,367.0	42.8	45.9	113.16	-3,674.1	-1,013.7	465.4	389.1	76.30	6.099	
16,000.0	12,184.0	16,237.5	12,367.0	43.7	46.7	113.16	-3,774.1	-1,013.1	465.4	387.6	77.75	5.985	
16,100.0	12,184.0	16,337.5	12,367.0	44.5	47.5	113.16	-3,874.1	-1,012.5	465.4	386.2	79.21	5.875	
16,200.0	12,184.0	16,437.5	12,367.0	45.3	48.2	113.16	-3,974.1	-1,012.0	465.4	384.7	80.69	5.767	
16,300.0	12,184.0	16,537.5	12,367.0	46.1	49.0	113.16	-4,074.1	-1,011.4	465.4	383.2	82.18	5.663	
16,400.0	12,184.0	16,637.5	12,367.0	47.0	49.8	113.16	-4,174.1	-1,010.8	465.4	381.7	83.69	5.561	
16,500.0	12,184.0	16,737.5	12,367.0	47.8	50.6	113.16	-4,274.1	-1,010.2	465.4	380.2	85.21	5.461	
16,600.0	12,184.0	16,837.5	12,367.0	48.6	51.4	113.16	-4,374.1	-1,009.7	465.4	378.6	86.75	5.365	
16,700.0	12,184.0	16,937.5	12,367.0	49.5	52.2	113.15	-4,474.1	-1,009.1	465.4	377.1	88.29	5.271	
16,800.0	12,184.0	17,037.5	12,367.0	50.3	53.0	113.15	-4,574.1	-1,008.5	465.4	375.5	89.85	5.180	
16,900.0	12,184.0	17,137.5	12,367.0	51.2	53.8	113.15	-4,674.1	-1,008.0	465.4	374.0	91.42	5.091	
17,000.0	12,184.0	17,237.5	12,367.0	52.1	54.6	113.15	-4,774.1	-1,007.4	465.4	372.4	93.00	5.004	
17,100.0	12,184.0	17,337.5	12,367.0	52.9	55.5	113.15	-4,874.1	-1,006.8	465.4	370.8	94.59	4.920	
17,200.0	12,184.0	17,437.5	12,367.0	53.8	56.3	113.15	-4,974.1	-1,006.3	465.4	369.2	96.19	4.838	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		No-Go Distance (usft)	Separation Factor
17,300.0	12,184.0	17,537.5	12,367.0	54.7	57.1	113.15	-5,074.1	-1,005.7	465.4	367.6		97.80	4.759
17,400.0	12,184.0	17,637.5	12,367.0	55.5	58.0	113.15	-5,174.1	-1,005.1	465.4	366.0		99.41	4.682
17,500.0	12,184.0	17,737.5	12,367.0	56.4	58.8	113.15	-5,274.1	-1,004.5	465.4	364.4		101.04	4.606
17,600.0	12,184.0	17,837.5	12,367.0	57.3	59.7	113.15	-5,374.1	-1,004.0	465.4	362.8		102.67	4.533
17,700.0	12,184.0	17,937.5	12,367.0	58.2	60.5	113.15	-5,474.1	-1,003.4	465.4	361.1		104.31	4.462
17,800.0	12,184.0	18,037.5	12,367.0	59.0	61.4	113.15	-5,574.1	-1,002.8	465.4	359.5		105.95	4.393
17,900.0	12,184.0	18,137.5	12,367.0	59.9	62.2	113.15	-5,674.1	-1,002.3	465.4	357.8		107.61	4.325
18,000.0	12,184.0	18,237.5	12,367.0	60.8	63.1	113.15	-5,774.1	-1,001.7	465.4	356.2		109.27	4.260
18,100.0	12,184.0	18,337.5	12,367.0	61.7	63.9	113.15	-5,874.1	-1,001.1	465.4	354.5		110.93	4.196
18,200.0	12,184.0	18,437.5	12,367.0	62.6	64.8	113.15	-5,974.1	-1,000.6	465.4	352.8		112.60	4.133
18,300.0	12,184.0	18,537.5	12,367.0	63.5	65.7	113.15	-6,074.1	-1,000.0	465.4	351.2		114.28	4.073
18,400.0	12,184.0	18,637.5	12,367.0	64.4	66.5	113.15	-6,174.1	-999.4	465.4	349.5		115.96	4.014
18,500.0	12,184.0	18,737.5	12,367.0	65.3	67.4	113.15	-6,274.1	-998.8	465.5	347.8		117.65	3.956
18,600.0	12,184.0	18,837.5	12,367.0	66.2	68.3	113.15	-6,374.0	-998.3	465.5	346.1		119.34	3.900
18,700.0	12,184.0	18,937.5	12,367.0	67.1	69.2	113.15	-6,474.0	-997.7	465.5	344.4		121.04	3.846
18,800.0	12,184.0	19,037.5	12,367.0	68.0	70.0	113.15	-6,574.0	-997.1	465.5	342.7		122.74	3.792
18,900.0	12,184.0	19,137.5	12,367.0	68.9	70.9	113.15	-6,674.0	-996.6	465.5	341.0		124.44	3.740
19,000.0	12,184.0	19,237.5	12,367.0	69.8	71.8	113.15	-6,774.0	-996.0	465.5	339.3		126.15	3.690
19,100.0	12,184.0	19,337.5	12,367.0	70.7	72.7	113.15	-6,874.0	-995.4	465.5	337.6		127.87	3.640
19,200.0	12,184.0	19,437.5	12,367.0	71.6	73.6	113.15	-6,974.0	-994.9	465.5	335.9		129.58	3.592
19,300.0	12,184.0	19,537.5	12,367.0	72.5	74.5	113.15	-7,074.0	-994.3	465.5	334.2		131.31	3.545
19,400.0	12,184.0	19,637.5	12,367.0	73.5	75.3	113.15	-7,174.0	-993.7	465.5	332.5		133.03	3.499
19,404.2	12,184.0	19,641.7	12,367.0	73.5	75.4	113.15	-7,178.2	-993.7	465.5	332.4		133.10	3.497
19,444.6	12,184.0	19,681.5	12,367.0	73.9	75.7	113.15	-7,218.1	-993.5	465.5	331.7		133.79	3.479
19,445.3	12,184.0	19,681.5	12,367.0	73.9	75.7	113.15	-7,218.1	-993.5	465.5	331.7		133.80	3.479

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	89.49	0.5	60.0	60.0	59.5	0.48	125.151	
100.0	100.0	100.0	100.0	1.2	1.2	89.49	0.5	60.0	60.0	57.1	2.87	20.930	
200.0	200.0	200.0	200.0	1.7	1.7	89.49	0.5	60.0	60.0	56.1	3.86	15.531	
300.0	300.0	300.0	300.0	2.1	2.1	89.49	0.5	60.0	60.0	55.4	4.63	12.950	
400.0	400.0	400.0	400.0	2.4	2.4	89.49	0.5	60.0	60.0	54.7	5.29	11.349	
500.0	500.0	500.0	500.0	2.7	2.7	89.49	0.5	60.0	60.0	54.1	5.87	10.228	
600.0	600.0	600.0	600.0	3.0	3.0	89.49	0.5	60.0	60.0	53.6	6.39	9.385	
700.0	700.0	700.0	700.0	3.2	3.2	89.49	0.5	60.0	60.0	53.1	6.88	8.719	
800.0	800.0	800.0	800.0	3.5	3.5	89.49	0.5	60.0	60.0	52.7	7.34	8.176	
900.0	900.0	900.0	900.0	3.7	3.7	89.49	0.5	60.0	60.0	52.2	7.77	7.721	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	89.49	0.5	60.0	60.0	51.8	8.18	7.333	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	89.49	0.5	60.0	60.0	51.4	8.58	6.997 CC, ES	
1,200.0	1,200.0	1,198.5	1,198.5	4.4	4.4	139.34	1.8	61.1	62.5	53.4	9.06	6.895	
1,300.0	1,299.8	1,296.7	1,296.6	4.7	4.7	138.93	5.6	64.5	69.9	60.4	9.54	7.333	
1,350.0	1,349.7	1,345.6	1,345.3	4.8	4.9	138.68	8.4	67.0	75.5	65.8	9.71	7.780	
1,400.0	1,399.5	1,394.2	1,393.6	4.9	5.0	144.99	11.7	70.1	82.4	72.6	9.88	8.344	
1,500.0	1,498.8	1,490.3	1,489.1	5.2	5.3	152.33	20.3	77.8	100.6	90.2	10.38	9.697	
1,600.0	1,597.7	1,585.4	1,583.1	5.5	5.5	155.76	31.0	87.4	124.5	113.7	10.81	11.521	
1,635.7	1,633.0	1,619.8	1,617.1	5.6	5.6	156.58	35.0	91.0	134.2	123.2	10.94	12.268	
1,700.0	1,696.2	1,681.5	1,678.0	5.7	5.8	155.64	42.4	97.6	151.9	140.7	11.21	13.550	
1,800.0	1,794.7	1,777.6	1,772.8	6.0	6.1	154.55	53.8	107.9	179.5	167.8	11.71	15.329	
1,900.0	1,893.2	1,873.6	1,867.6	6.3	6.4	153.74	65.2	118.2	207.2	195.0	12.24	16.929	
2,000.0	1,991.7	1,969.7	1,962.5	6.7	6.7	153.13	76.6	128.4	234.9	222.2	12.79	18.366	
2,100.0	2,090.2	2,065.8	2,057.3	7.0	7.0	152.65	88.0	138.7	262.7	249.3	13.36	19.657	
2,200.0	2,188.7	2,161.8	2,152.1	7.4	7.4	152.26	99.4	149.0	290.4	276.5	13.95	20.818	
2,300.0	2,287.1	2,257.9	2,246.9	7.7	7.7	151.93	110.9	159.2	318.2	303.6	14.55	21.862	
2,400.0	2,385.6	2,353.9	2,341.7	8.1	8.1	151.66	122.3	169.5	346.0	330.8	15.17	22.804	
2,500.0	2,484.1	2,450.0	2,436.6	8.5	8.5	151.43	133.7	179.8	373.7	357.9	15.80	23.655	
2,600.0	2,582.6	2,546.0	2,531.4	8.9	8.8	151.23	145.1	190.0	401.5	385.1	16.44	24.427	
2,700.0	2,681.1	2,644.8	2,628.9	9.3	9.2	151.07	156.7	200.5	429.2	412.0	17.10	25.093	
2,800.0	2,779.6	2,747.6	2,730.6	9.7	9.6	151.04	167.6	210.3	455.6	437.8	17.80	25.601	
2,900.0	2,878.1	2,851.1	2,833.4	10.1	10.0	151.15	177.3	219.0	480.7	462.2	18.49	25.994	
3,000.0	2,976.5	2,955.4	2,937.1	10.5	10.4	151.39	185.6	226.5	504.4	485.2	19.19	26.289	
3,100.0	3,075.0	3,060.4	3,041.6	11.0	10.8	151.73	192.6	232.7	526.7	506.8	19.88	26.500	
3,200.0	3,173.5	3,165.9	3,146.9	11.4	11.1	152.17	198.1	237.7	547.6	527.1	20.56	26.639	
3,300.0	3,272.0	3,272.0	3,252.8	11.8	11.5	152.71	202.3	241.4	567.1	545.9	21.22	26.719	
3,400.0	3,370.5	3,378.6	3,359.3	12.2	11.8	153.33	204.9	243.8	585.2	563.3	21.88	26.752	
3,500.0	3,469.0	3,485.5	3,466.2	12.7	12.1	154.03	206.2	244.9	602.0	579.5	22.49	26.763	
3,600.0	3,567.4	3,586.7	3,567.4	13.1	12.2	154.75	206.2	245.0	617.7	594.7	22.99	26.867	
3,700.0	3,665.9	3,685.2	3,665.9	13.5	12.3	155.41	206.2	245.0	633.5	610.0	23.49	26.971	
3,800.0	3,764.4	3,783.7	3,764.4	13.9	12.3	156.05	206.2	245.0	649.4	625.4	23.99	27.062	
3,900.0	3,862.9	3,882.2	3,862.9	14.4	12.4	156.65	206.2	245.0	665.3	640.8	24.51	27.142	
4,000.0	3,961.4	3,980.7	3,961.4	14.8	12.5	157.23	206.2	245.0	681.3	656.2	25.04	27.212	
4,100.0	4,059.9	4,079.2	4,059.9	15.3	12.6	157.78	206.2	245.0	697.3	671.8	25.57	27.273	
4,200.0	4,158.4	4,177.6	4,158.4	15.7	12.6	158.31	206.2	245.0	713.4	687.3	26.11	27.326	
4,300.0	4,256.8	4,276.1	4,256.8	16.1	12.7	158.81	206.2	245.0	729.6	703.0	26.66	27.372	
4,400.0	4,355.3	4,374.6	4,355.3	16.6	12.8	159.29	206.2	245.0	745.8	718.6	27.21	27.412	
4,500.0	4,453.8	4,473.1	4,453.8	17.0	12.9	159.75	206.2	245.0	762.1	734.4	27.77	27.446	
4,553.4	4,506.4	4,525.7	4,506.4	17.2	12.9	159.99	206.2	245.0	770.8	742.8	28.05	27.477	
4,600.0	4,552.3	4,571.6	4,552.3	17.4	12.9	160.21	206.2	245.0	778.3	750.0	28.30	27.499	
4,700.0	4,651.1	4,670.4	4,651.1	17.9	13.0	160.64	206.2	245.0	793.1	764.2	28.86	27.480	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,750.1	4,769.4	4,750.1	18.3	13.1	161.02	206.2	245.0	806.3	776.8	29.41	27.415	
4,900.0	4,849.4	4,868.6	4,849.4	18.7	13.2	161.33	206.2	245.0	817.8	787.9	29.95	27.310	
5,000.0	4,948.8	4,968.1	4,948.8	19.1	13.3	161.60	206.2	245.0	827.8	797.3	30.47	27.167	
5,100.0	5,048.4	5,067.7	5,048.4	19.5	13.3	161.81	206.2	245.0	836.1	805.1	30.98	26.990	
5,200.0	5,148.2	5,167.5	5,148.2	19.8	13.4	161.98	206.2	245.0	842.8	811.3	31.46	26.785	
5,300.0	5,248.0	5,267.3	5,248.0	20.2	13.5	162.11	206.2	245.0	847.8	815.8	31.93	26.555	
5,400.0	5,348.0	5,367.3	5,348.0	20.5	13.6	162.19	206.2	245.0	851.1	818.8	32.35	26.309	
5,500.0	5,448.0	5,467.2	5,448.0	20.8	13.6	162.23	206.2	245.0	852.8	820.1	32.72	26.061	
5,552.0	5,500.0	5,519.3	5,500.0	20.8	13.7	89.39	206.2	245.0	853.0	820.2	32.83	25.984	
5,600.0	5,548.0	5,567.2	5,548.0	20.8	13.7	89.39	206.2	245.0	853.0	820.2	32.87	25.951	
5,700.0	5,648.0	5,667.2	5,648.0	20.9	13.8	89.39	206.2	245.0	853.0	820.1	32.99	25.859	
5,800.0	5,748.0	5,767.2	5,748.0	20.9	13.9	89.39	206.2	245.0	853.0	819.9	33.11	25.767	
5,900.0	5,848.0	5,867.2	5,848.0	21.0	13.9	89.39	206.2	245.0	853.0	819.8	33.22	25.676	
6,000.0	5,948.0	5,967.2	5,948.0	21.0	14.0	89.39	206.2	245.0	853.0	819.7	33.34	25.586	
6,100.0	6,048.0	6,067.2	6,048.0	21.1	14.1	89.39	206.2	245.0	853.0	819.6	33.46	25.496	
6,200.0	6,148.0	6,167.2	6,148.0	21.1	14.2	89.39	206.2	245.0	853.0	819.5	33.58	25.406	
6,300.0	6,248.0	6,267.2	6,248.0	21.2	14.3	89.39	206.2	245.0	853.0	819.4	33.70	25.316	
6,400.0	6,348.0	6,367.2	6,348.0	21.2	14.3	89.39	206.2	245.0	853.0	819.2	33.82	25.227	
6,500.0	6,448.0	6,467.2	6,448.0	21.2	14.4	89.39	206.2	245.0	853.0	819.1	33.93	25.138	
6,600.0	6,548.0	6,567.2	6,548.0	21.3	14.5	89.39	206.2	245.0	853.0	819.0	34.05	25.050	
6,700.0	6,648.0	6,667.2	6,648.0	21.3	14.6	89.39	206.2	245.0	853.0	818.9	34.17	24.961	
6,800.0	6,748.0	6,767.2	6,748.0	21.4	14.6	89.39	206.2	245.0	853.0	818.8	34.30	24.874	
6,900.0	6,848.0	6,867.2	6,848.0	21.4	14.7	89.39	206.2	245.0	853.0	818.6	34.42	24.786	
7,000.0	6,948.0	6,967.2	6,948.0	21.5	14.8	89.39	206.2	245.0	853.0	818.5	34.54	24.699	
7,100.0	7,048.0	7,067.2	7,048.0	21.5	14.9	89.39	206.2	245.0	853.0	818.4	34.66	24.613	
7,200.0	7,148.0	7,167.2	7,148.0	21.6	15.0	89.39	206.2	245.0	853.0	818.3	34.78	24.527	
7,300.0	7,248.0	7,267.2	7,248.0	21.6	15.0	89.39	206.2	245.0	853.0	818.1	34.90	24.441	
7,400.0	7,348.0	7,367.2	7,348.0	21.7	15.1	89.39	206.2	245.0	853.0	818.0	35.03	24.355	
7,500.0	7,448.0	7,467.2	7,448.0	21.7	15.2	89.39	206.2	245.0	853.0	817.9	35.15	24.270	
7,600.0	7,548.0	7,567.2	7,548.0	21.8	15.3	89.39	206.2	245.0	853.0	817.8	35.27	24.186	
7,700.0	7,648.0	7,667.2	7,648.0	21.8	15.3	89.39	206.2	245.0	853.0	817.7	35.39	24.101	
7,800.0	7,748.0	7,767.2	7,748.0	21.9	15.4	89.39	206.2	245.0	853.0	817.5	35.52	24.017	
7,900.0	7,848.0	7,867.2	7,848.0	21.9	15.5	89.39	206.2	245.0	853.0	817.4	35.64	23.934	
8,000.0	7,948.0	7,967.2	7,948.0	21.9	15.6	89.39	206.2	245.0	853.0	817.3	35.77	23.851	
8,100.0	8,048.0	8,067.2	8,048.0	22.0	15.7	89.39	206.2	245.0	853.0	817.2	35.89	23.768	
8,200.0	8,148.0	8,167.2	8,148.0	22.0	15.7	89.39	206.2	245.0	853.0	817.0	36.02	23.685	
8,300.0	8,248.0	8,267.2	8,248.0	22.1	15.8	89.39	206.2	245.0	853.0	816.9	36.14	23.603	
8,400.0	8,348.0	8,367.2	8,348.0	22.1	15.9	89.39	206.2	245.0	853.0	816.8	36.27	23.522	
8,500.0	8,448.0	8,467.2	8,448.0	22.2	16.0	89.39	206.2	245.0	853.0	816.7	36.39	23.440	
8,600.0	8,548.0	8,567.2	8,548.0	22.2	16.0	89.39	206.2	245.0	853.0	816.5	36.52	23.359	
8,700.0	8,648.0	8,667.2	8,648.0	22.3	16.1	89.39	206.2	245.0	853.0	816.4	36.64	23.279	
8,800.0	8,748.0	8,767.2	8,748.0	22.3	16.2	89.39	206.2	245.0	853.0	816.3	36.77	23.199	
8,900.0	8,848.0	8,867.2	8,848.0	22.4	16.3	89.39	206.2	245.0	853.0	816.2	36.90	23.119	
9,000.0	8,948.0	8,967.2	8,948.0	22.4	16.4	89.39	206.2	245.0	853.0	816.0	37.03	23.040	
9,100.0	9,048.0	9,067.2	9,048.0	22.5	16.4	89.39	206.2	245.0	853.0	815.9	37.15	22.961	
9,200.0	9,148.0	9,167.2	9,148.0	22.5	16.5	89.39	206.2	245.0	853.0	815.8	37.28	22.882	
9,300.0	9,248.0	9,267.2	9,248.0	22.6	16.6	89.39	206.2	245.0	853.0	815.6	37.41	22.804	
9,400.0	9,348.0	9,367.2	9,348.0	22.6	16.7	89.39	206.2	245.0	853.0	815.5	37.54	22.726	
9,500.0	9,448.0	9,467.2	9,448.0	22.7	16.8	89.39	206.2	245.0	853.0	815.4	37.66	22.648	
9,600.0	9,548.0	9,567.2	9,548.0	22.7	16.8	89.39	206.2	245.0	853.0	815.3	37.79	22.571	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,700.0	9,648.0	9,667.2	9,648.0	22.8	16.9	89.39	206.2	245.0	853.0	815.1	37.92	22.495		
9,800.0	9,748.0	9,767.2	9,748.0	22.8	17.0	89.39	206.2	245.0	853.0	815.0	38.05	22.418		
9,900.0	9,848.0	9,867.2	9,848.0	22.9	17.1	89.39	206.2	245.0	853.0	814.9	38.18	22.342		
10,000.0	9,948.0	9,967.2	9,948.0	23.0	17.1	89.39	206.2	245.0	853.0	814.7	38.31	22.267		
10,100.0	10,048.0	10,067.2	10,048.0	23.0	17.2	89.39	206.2	245.0	853.0	814.6	38.44	22.191		
10,200.0	10,148.0	10,167.2	10,148.0	23.1	17.3	89.39	206.2	245.0	853.0	814.5	38.57	22.116		
10,300.0	10,248.0	10,267.2	10,248.0	23.1	17.4	89.39	206.2	245.0	853.0	814.3	38.70	22.042		
10,400.0	10,348.0	10,367.2	10,348.0	23.2	17.5	89.39	206.2	245.0	853.0	814.2	38.83	21.968		
10,500.0	10,448.0	10,467.2	10,448.0	23.2	17.5	89.39	206.2	245.0	853.0	814.1	38.96	21.894		
10,600.0	10,548.0	10,567.2	10,548.0	23.3	17.6	89.39	206.2	245.0	853.0	814.0	39.09	21.821		
10,700.0	10,648.0	10,667.2	10,648.0	23.3	17.7	89.39	206.2	245.0	853.0	813.8	39.22	21.748		
10,800.0	10,748.0	10,767.2	10,748.0	23.4	17.8	89.39	206.2	245.0	853.0	813.7	39.36	21.675		
10,900.0	10,848.0	10,867.2	10,848.0	23.4	17.9	89.39	206.2	245.0	853.0	813.6	39.49	21.603		
11,000.0	10,948.0	10,967.2	10,948.0	23.5	17.9	89.39	206.2	245.0	853.0	813.4	39.62	21.531		
11,100.0	11,048.0	11,067.2	11,048.0	23.5	18.0	89.39	206.2	245.0	853.0	813.3	39.75	21.459		
11,200.0	11,148.0	11,167.2	11,148.0	23.6	18.1	89.39	206.2	245.0	853.0	813.2	39.88	21.388		
11,300.0	11,248.0	11,267.2	11,248.0	23.6	18.2	89.39	206.2	245.0	853.0	813.0	40.02	21.317		
11,400.0	11,348.0	11,367.2	11,348.0	23.7	18.3	89.39	206.2	245.0	853.0	812.9	40.15	21.246		
11,500.0	11,448.0	11,467.2	11,448.0	23.8	18.3	89.39	206.2	245.0	853.0	812.8	40.28	21.176		
11,600.0	11,548.0	11,567.2	11,548.0	23.8	18.4	89.39	206.2	245.0	853.0	812.6	40.42	21.107		
11,700.0	11,648.0	11,667.2	11,648.0	23.9	18.5	89.39	206.2	245.0	853.0	812.5	40.55	21.037		
11,758.5	11,706.5	11,725.8	11,706.5	23.9	18.5	89.39	206.2	245.0	853.0	812.4	40.61	21.006		
11,775.0	11,722.9	11,742.4	11,723.1	23.9	18.5	-90.28	205.9	245.0	853.0	812.4	40.61	21.005		
11,800.0	11,747.9	11,767.6	11,748.2	23.9	18.5	-90.28	204.4	245.0	853.0	812.4	40.60	21.010		
11,825.0	11,772.7	11,792.8	11,773.3	23.8	18.4	-90.28	201.5	245.0	853.0	812.5	40.59	21.018		
11,850.0	11,797.4	11,818.0	11,798.1	23.8	18.4	-90.27	197.4	245.1	853.1	812.5	40.57	21.027		
11,875.0	11,821.8	11,843.2	11,822.7	23.8	18.4	-90.27	191.9	245.1	853.1	812.5	40.55	21.036		
11,900.0	11,845.9	11,868.4	11,847.0	23.7	18.3	-90.27	185.1	245.1	853.1	812.5	40.53	21.047		
11,925.0	11,869.6	11,893.5	11,870.8	23.7	18.3	-90.26	177.1	245.2	853.1	812.5	40.51	21.057		
11,950.0	11,892.9	11,918.7	11,894.2	23.6	18.2	-90.26	167.8	245.2	853.1	812.6	40.49	21.069		
11,975.0	11,915.6	11,943.9	11,917.1	23.6	18.2	-90.25	157.3	245.3	853.1	812.6	40.47	21.080		
12,000.0	11,937.8	11,969.1	11,939.4	23.6	18.1	-90.24	145.6	245.4	853.1	812.6	40.45	21.091		
12,025.0	11,959.3	11,994.3	11,961.1	23.5	18.1	-90.24	132.7	245.5	853.1	812.6	40.43	21.102		
12,050.0	11,980.2	12,019.4	11,982.0	23.5	18.0	-90.23	118.7	245.5	853.1	812.7	40.41	21.113		
12,075.0	12,000.3	12,044.6	12,002.1	23.5	18.0	-90.22	103.7	245.6	853.1	812.7	40.39	21.123		
12,100.0	12,019.6	12,069.7	12,021.5	23.4	17.9	-90.21	87.6	245.7	853.1	812.7	40.37	21.132		
12,125.0	12,038.0	12,094.9	12,039.9	23.4	17.9	-90.20	70.5	245.8	853.1	812.7	40.35	21.140		
12,150.0	12,055.5	12,120.0	12,057.4	23.4	17.9	-90.19	52.5	245.9	853.1	812.8	40.34	21.146		
12,175.0	12,072.1	12,145.2	12,074.0	23.4	17.8	-90.18	33.6	246.1	853.1	812.8	40.34	21.151		
12,200.0	12,087.7	12,170.3	12,089.5	23.4	17.8	-90.17	13.8	246.2	853.1	812.8	40.33	21.153		
12,225.0	12,102.2	12,195.4	12,104.0	23.3	17.8	-90.15	-6.7	246.3	853.1	812.8	40.33	21.153		
12,250.0	12,115.7	12,220.5	12,117.3	23.3	17.8	-90.14	-27.9	246.4	853.1	812.8	40.34	21.151		
12,275.0	12,128.0	12,245.6	12,129.5	23.3	17.7	-90.13	-49.9	246.6	853.1	812.8	40.35	21.146		
12,300.0	12,139.1	12,270.7	12,140.6	23.3	17.7	-90.12	-72.4	246.7	853.2	812.8	40.36	21.138		
12,325.0	12,149.1	12,295.8	12,150.4	23.3	17.7	-90.10	-95.4	246.9	853.2	812.8	40.38	21.127		
12,350.0	12,157.9	12,320.8	12,159.0	23.3	17.7	-90.09	-119.0	247.0	853.2	812.8	40.41	21.113		
12,375.0	12,165.4	12,345.9	12,166.4	23.3	17.7	-90.08	-142.9	247.1	853.2	812.7	40.44	21.095		
12,400.0	12,171.7	12,370.9	12,172.5	23.4	17.7	-90.06	-167.2	247.3	853.2	812.7	40.48	21.075		
12,425.0	12,176.7	12,396.0	12,177.3	23.4	17.7	-90.05	-191.8	247.4	853.2	812.7	40.53	21.051		
12,450.0	12,180.4	12,421.0	12,180.8	23.4	17.8	-90.03	-216.6	247.6	853.2	812.6	40.58	21.024		
12,475.0	12,182.8	12,446.0	12,183.0	23.4	17.8	-90.02	-241.5	247.7	853.2	812.6	40.64	20.994		

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
12,500.0	12,183.9	12,471.0	12,183.9	23.5	17.8	-90.00	-266.5	247.9	853.2	812.5	40.71	20.960		
12,508.5	12,184.0	12,479.6	12,184.0	23.5	17.8	-90.00	-275.0	248.0	853.2	812.5	40.73	20.948		
12,600.0	12,184.0	12,571.0	12,184.0	23.6	17.9	-90.00	-366.5	248.5	853.3	812.2	41.05	20.786		
12,700.0	12,184.0	12,671.0	12,184.0	23.8	18.1	-90.00	-466.5	249.1	853.3	811.8	41.48	20.570		
12,800.0	12,184.0	12,771.0	12,184.0	24.1	18.4	-90.00	-566.5	249.7	853.3	811.3	42.00	20.319		
12,900.0	12,184.0	12,871.0	12,184.0	24.3	18.7	-90.00	-666.5	250.4	853.4	810.8	42.59	20.037		
13,000.0	12,184.0	12,971.0	12,184.0	24.6	19.0	-90.00	-766.5	251.0	853.4	810.2	43.26	19.727		
13,100.0	12,184.0	13,071.0	12,184.0	25.0	19.4	-90.00	-866.5	251.6	853.5	809.5	44.00	19.395		
13,200.0	12,184.0	13,171.0	12,184.0	25.3	19.8	-90.00	-966.5	252.2	853.5	808.7	44.82	19.044		
13,300.0	12,184.0	13,271.0	12,184.0	25.7	20.3	-90.00	-1,066.5	252.8	853.5	807.9	45.69	18.680		
13,400.0	12,184.0	13,371.0	12,184.0	26.2	20.8	-90.00	-1,166.5	253.4	853.6	807.0	46.63	18.304		
13,500.0	12,184.0	13,471.0	12,184.0	26.6	21.3	-90.00	-1,266.5	254.0	853.6	806.0	47.63	17.922		
13,600.0	12,184.0	13,571.0	12,184.0	27.1	21.9	-90.00	-1,366.5	254.7	853.7	805.0	48.68	17.536		
13,700.0	12,184.0	13,671.0	12,184.0	27.6	22.5	-90.00	-1,466.5	255.3	853.7	803.9	49.78	17.149		
13,800.0	12,184.0	13,771.0	12,184.0	28.1	23.2	-90.00	-1,566.4	255.9	853.7	802.8	50.93	16.763		
13,900.0	12,184.0	13,871.0	12,184.0	28.7	23.8	-90.00	-1,666.4	256.5	853.8	801.7	52.13	16.379		
14,000.0	12,184.0	13,971.0	12,184.0	29.2	24.5	-90.00	-1,766.4	257.1	853.8	800.5	53.36	16.001		
14,100.0	12,184.0	14,071.0	12,184.0	29.8	25.2	-90.00	-1,866.4	257.7	853.9	799.2	54.63	15.629		
14,200.0	12,184.0	14,171.0	12,184.0	30.4	25.9	-90.00	-1,966.4	258.3	853.9	798.0	55.94	15.264		
14,300.0	12,184.0	14,271.0	12,184.0	31.1	26.6	-90.00	-2,066.4	258.9	853.9	796.7	57.29	14.907		
14,400.0	12,184.0	14,371.0	12,184.0	31.7	27.4	-90.00	-2,166.4	259.6	854.0	795.3	58.66	14.558		
14,500.0	12,184.0	14,471.0	12,184.0	32.4	28.1	-90.00	-2,266.4	260.2	854.0	794.0	60.06	14.219		
14,600.0	12,184.0	14,571.0	12,184.0	33.0	28.9	-90.00	-2,366.4	260.8	854.1	792.6	61.49	13.889		
14,700.0	12,184.0	14,671.0	12,184.0	33.7	29.7	-90.00	-2,466.4	261.4	854.1	791.2	62.95	13.569		
14,800.0	12,184.0	14,771.0	12,184.0	34.4	30.5	-90.00	-2,566.4	262.0	854.1	789.7	64.42	13.258		
14,900.0	12,184.0	14,871.0	12,184.0	35.2	31.3	-90.00	-2,666.4	262.6	854.2	788.3	65.92	12.957		
15,000.0	12,184.0	14,971.0	12,184.0	35.9	32.1	-90.00	-2,766.4	263.2	854.2	786.8	67.44	12.666		
15,100.0	12,184.0	15,071.0	12,184.0	36.6	32.9	-90.00	-2,866.4	263.9	854.3	785.3	68.98	12.384		
15,200.0	12,184.0	15,171.0	12,184.0	37.4	33.8	-90.00	-2,966.4	264.5	854.3	783.8	70.54	12.111		
15,300.0	12,184.0	15,271.0	12,184.0	38.1	34.6	-90.00	-3,066.4	265.1	854.3	782.2	72.11	11.847		
15,400.0	12,184.0	15,371.0	12,184.0	38.9	35.4	-90.00	-3,166.4	265.7	854.4	780.7	73.70	11.593		
15,500.0	12,184.0	15,471.0	12,184.0	39.7	36.3	-90.00	-3,266.4	266.3	854.4	779.1	75.30	11.346		
15,600.0	12,184.0	15,571.0	12,184.0	40.4	37.1	-90.00	-3,366.4	266.9	854.5	777.5	76.92	11.108		
15,700.0	12,184.0	15,671.0	12,184.0	41.2	38.0	-90.00	-3,466.4	267.5	854.5	776.0	78.55	10.878		
15,800.0	12,184.0	15,771.0	12,184.0	42.0	38.9	-90.00	-3,566.4	268.2	854.5	774.4	80.19	10.656		
15,900.0	12,184.0	15,871.0	12,184.0	42.8	39.7	-90.00	-3,666.4	268.8	854.6	772.7	81.84	10.442		
16,000.0	12,184.0	15,971.0	12,184.0	43.7	40.6	-90.00	-3,766.4	269.4	854.6	771.1	83.51	10.234		
16,100.0	12,184.0	16,071.0	12,184.0	44.5	41.5	-90.00	-3,866.4	270.0	854.7	769.5	85.18	10.034		
16,200.0	12,184.0	16,171.0	12,184.0	45.3	42.4	-90.00	-3,966.4	270.6	854.7	767.8	86.86	9.840		
16,300.0	12,184.0	16,271.0	12,184.0	46.1	43.2	-90.00	-4,066.4	271.2	854.7	766.2	88.55	9.652		
16,400.0	12,184.0	16,371.0	12,184.0	47.0	44.1	-90.00	-4,166.4	271.8	854.8	764.5	90.25	9.471		
16,500.0	12,184.0	16,471.0	12,184.0	47.8	45.0	-90.00	-4,266.4	272.4	854.8	762.9	91.96	9.295		
16,600.0	12,184.0	16,571.0	12,184.0	48.6	45.9	-90.00	-4,366.4	273.1	854.9	761.2	93.68	9.126		
16,700.0	12,184.0	16,671.0	12,184.0	49.5	46.8	-90.00	-4,466.4	273.7	854.9	759.5	95.40	8.961		
16,800.0	12,184.0	16,771.0	12,184.0	50.3	47.7	-90.00	-4,566.4	274.3	854.9	757.8	97.13	8.802		
16,900.0	12,184.0	16,871.0	12,184.0	51.2	48.6	-90.00	-4,666.4	274.9	855.0	756.1	98.86	8.648		
17,000.0	12,184.0	16,971.0	12,184.0	52.1	49.5	-90.00	-4,766.4	275.5	855.0	754.4	100.60	8.499		
17,100.0	12,184.0	17,071.0	12,184.0	52.9	50.4	-90.00	-4,866.4	276.1	855.1	752.7	102.35	8.354		
17,200.0	12,184.0	17,171.0	12,184.0	53.8	51.3	-90.00	-4,966.4	276.7	855.1	751.0	104.10	8.214		
17,300.0	12,184.0	17,271.0	12,184.0	54.7	52.2	-90.00	-5,066.4	277.4	855.1	749.3	105.86	8.078		

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,400.0	12,184.0	17,371.0	12,184.0	55.5	53.2	-90.00	-5,166.4	278.0	855.2	747.6	107.62	7.946	
17,500.0	12,184.0	17,471.0	12,184.0	56.4	54.1	-90.00	-5,266.4	278.6	855.2	745.8	109.39	7.818	
17,600.0	12,184.0	17,571.0	12,184.0	57.3	55.0	-90.00	-5,366.4	279.2	855.3	744.1	111.16	7.694	
17,700.0	12,184.0	17,671.0	12,184.0	58.2	55.9	-90.00	-5,466.4	279.8	855.3	742.4	112.93	7.573	
17,800.0	12,184.0	17,771.0	12,184.0	59.0	56.8	-90.00	-5,566.4	280.4	855.3	740.6	114.71	7.456	
17,900.0	12,184.0	17,871.0	12,184.0	59.9	57.7	-90.00	-5,666.4	281.0	855.4	738.9	116.50	7.343	
18,000.0	12,184.0	17,971.0	12,184.0	60.8	58.7	-90.00	-5,766.4	281.7	855.4	737.1	118.28	7.232	
18,100.0	12,184.0	18,071.0	12,184.0	61.7	59.6	-90.00	-5,866.4	282.3	855.5	735.4	120.07	7.124	
18,200.0	12,184.0	18,171.0	12,184.0	62.6	60.5	-90.00	-5,966.4	282.9	855.5	733.6	121.87	7.020	
18,300.0	12,184.0	18,271.0	12,184.0	63.5	61.4	-90.00	-6,066.4	283.5	855.5	731.9	123.66	6.918	
18,400.0	12,184.0	18,371.0	12,184.0	64.4	62.4	-90.00	-6,166.4	284.1	855.6	730.1	125.46	6.819	
18,500.0	12,184.0	18,471.0	12,184.0	65.3	63.3	-90.00	-6,266.4	284.7	855.6	728.4	127.27	6.723	
18,600.0	12,184.0	18,571.0	12,184.0	66.2	64.2	-90.00	-6,366.4	285.3	855.7	726.6	129.07	6.629	
18,700.0	12,184.0	18,671.0	12,184.0	67.1	65.2	-90.00	-6,466.4	285.9	855.7	724.8	130.88	6.538	
18,800.0	12,184.0	18,771.0	12,184.0	68.0	66.1	-90.00	-6,566.4	286.6	855.7	723.1	132.69	6.449	
18,900.0	12,184.0	18,871.0	12,184.0	68.9	67.0	-90.00	-6,666.4	287.2	855.8	721.3	134.50	6.363	
19,000.0	12,184.0	18,971.0	12,184.0	69.8	67.9	-90.00	-6,766.4	287.8	855.8	719.5	136.32	6.278	
19,100.0	12,184.0	19,071.0	12,184.0	70.7	68.9	-90.00	-6,866.3	288.4	855.9	717.7	138.14	6.196	
19,200.0	12,184.0	19,171.0	12,184.0	71.6	69.8	-90.00	-6,966.3	289.0	855.9	715.9	139.96	6.115	
19,300.0	12,184.0	19,271.0	12,184.0	72.5	70.7	-90.00	-7,066.3	289.6	855.9	714.2	141.78	6.037	
19,400.0	12,184.0	19,371.0	12,184.0	73.5	71.7	-90.00	-7,166.3	290.2	856.0	712.4	143.60	5.961	
19,444.6	12,184.0	19,415.7	12,184.0	73.9	72.1	-90.00	-7,211.0	290.5	856.0	711.6	144.42	5.927	
19,445.3	12,184.0	19,416.4	12,184.0	73.9	72.1	-90.00	-7,211.7	290.5	856.0	711.6	144.43	5.927 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	89.68	0.2	30.1	30.1	29.6	0.48	62.821	
100.0	100.0	100.0	100.0	1.2	1.2	89.68	0.2	30.1	30.1	27.3	2.87	10.506	
200.0	200.0	200.0	200.0	1.7	1.7	89.68	0.2	30.1	30.1	26.3	3.86	7.796	
300.0	300.0	300.0	300.0	2.1	2.1	89.68	0.2	30.1	30.1	25.5	4.63	6.500	
400.0	400.0	400.0	400.0	2.4	2.4	89.68	0.2	30.1	30.1	24.8	5.29	5.697	
500.0	500.0	500.0	500.0	2.7	2.7	89.68	0.2	30.1	30.1	24.3	5.87	5.134	
600.0	600.0	600.0	600.0	3.0	3.0	89.68	0.2	30.1	30.1	23.7	6.39	4.711	
700.0	700.0	700.0	700.0	3.2	3.2	89.68	0.2	30.1	30.1	23.2	6.88	4.377	
800.0	800.0	800.0	800.0	3.5	3.5	89.68	0.2	30.1	30.1	22.8	7.34	4.104	
900.0	900.0	900.0	900.0	3.7	3.7	89.68	0.2	30.1	30.1	22.3	7.77	3.876	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	89.68	0.2	30.1	30.1	21.9	8.18	3.681	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	89.68	0.2	30.1	30.1	21.5	8.58	3.512 CC	
1,200.0	1,200.0	1,200.8	1,200.7	4.4	4.4	139.52	1.4	28.8	30.2	21.1	9.08	3.325	
1,300.0	1,299.8	1,301.5	1,301.4	4.7	4.7	139.02	5.0	25.0	30.4	20.8	9.56	3.177	
1,350.0	1,349.7	1,351.9	1,351.6	4.8	4.9	138.65	7.8	22.1	30.5	20.8	9.73	3.135 ES	
1,400.0	1,399.5	1,402.3	1,401.7	4.9	5.0	144.36	11.1	18.5	30.8	20.9	9.89	3.112 SF	
1,500.0	1,498.8	1,503.0	1,501.6	5.2	5.4	148.03	19.6	9.6	32.3	22.0	10.32	3.127	
1,600.0	1,597.7	1,603.5	1,600.9	5.5	5.8	145.05	30.5	-1.9	35.5	24.8	10.70	3.323	
1,635.7	1,633.0	1,639.1	1,636.0	5.6	5.9	143.32	34.8	-6.5	37.4	26.6	10.75	3.477	
1,700.0	1,696.2	1,703.2	1,699.0	5.7	6.0	138.52	42.6	-14.7	41.3	30.4	10.87	3.798	
1,800.0	1,794.7	1,802.9	1,797.1	6.0	6.3	132.68	54.7	-27.5	47.8	36.7	11.16	4.284	
1,900.0	1,893.2	1,902.6	1,895.3	6.3	6.7	128.28	66.8	-40.3	54.7	43.3	11.48	4.769	
2,000.0	1,991.7	2,002.2	1,993.4	6.7	7.0	124.88	78.9	-53.0	61.9	50.1	11.81	5.243	
2,100.0	2,090.2	2,101.9	2,091.5	7.0	7.3	122.19	91.0	-65.8	69.2	57.1	12.14	5.701	
2,200.0	2,188.7	2,201.6	2,189.6	7.4	7.7	120.02	103.1	-78.6	76.7	64.2	12.49	6.140	
2,300.0	2,287.1	2,301.3	2,287.7	7.7	8.1	118.23	115.2	-91.4	84.2	71.4	12.84	6.560	
2,400.0	2,385.6	2,401.0	2,385.9	8.1	8.4	116.74	127.3	-104.2	91.9	78.7	13.20	6.960	
2,500.0	2,484.1	2,500.7	2,484.0	8.5	8.8	115.48	139.3	-116.9	99.5	86.0	13.57	7.335	
2,600.0	2,582.6	2,600.4	2,582.3	8.9	9.2	114.82	150.9	-129.2	107.2	93.3	13.93	7.696	
2,700.0	2,681.1	2,700.1	2,680.9	9.3	9.6	115.12	161.3	-140.1	114.9	100.6	14.33	8.020	
2,800.0	2,779.6	2,799.8	2,779.6	9.7	10.0	116.19	170.5	-149.9	122.6	107.8	14.74	8.312	
2,900.0	2,878.1	2,899.4	2,878.5	10.1	10.4	117.90	178.5	-158.3	130.3	115.1	15.20	8.572	
3,000.0	2,976.5	2,998.8	2,977.5	10.5	10.7	120.12	185.4	-165.5	138.3	122.6	15.71	8.803	
3,100.0	3,075.0	3,098.0	3,076.3	11.0	11.1	122.77	191.0	-171.5	146.6	130.3	16.28	9.005	
3,200.0	3,173.5	3,196.9	3,175.0	11.4	11.4	125.75	195.4	-176.2	155.5	138.6	16.94	9.184	
3,300.0	3,272.0	3,295.5	3,273.5	11.8	11.7	128.97	198.7	-179.6	165.2	147.5	17.67	9.348	
3,400.0	3,370.5	3,393.7	3,371.6	12.2	12.0	132.35	200.8	-181.8	175.8	157.3	18.49	9.508	
3,500.0	3,469.0	3,491.4	3,469.3	12.7	12.3	135.81	201.7	-182.8	187.5	168.2	19.38	9.678	
3,600.0	3,567.4	3,589.5	3,567.4	13.1	12.3	139.21	201.8	-182.9	200.4	180.1	20.27	9.887	
3,700.0	3,665.9	3,688.0	3,665.9	13.5	12.4	142.23	201.8	-182.9	213.9	192.7	21.16	10.110	
3,800.0	3,764.4	3,786.5	3,764.4	13.9	12.5	144.89	201.8	-182.9	227.9	205.9	22.02	10.350	
3,900.0	3,862.9	3,885.0	3,862.9	14.4	12.6	147.23	201.8	-182.9	242.4	219.5	22.86	10.604	
4,000.0	3,961.4	3,983.5	3,961.4	14.8	12.6	149.32	201.8	-182.9	257.2	233.5	23.67	10.868	
4,100.0	4,059.9	4,081.9	4,059.9	15.3	12.7	151.17	201.8	-182.9	272.3	247.9	24.45	11.137	
4,200.0	4,158.4	4,180.4	4,158.4	15.7	12.8	152.83	201.8	-182.9	287.7	262.5	25.22	11.409	
4,300.0	4,256.8	4,278.9	4,256.8	16.1	12.9	154.33	201.8	-182.9	303.3	277.3	25.96	11.681	
4,400.0	4,355.3	4,377.4	4,355.3	16.6	12.9	155.67	201.8	-182.9	319.0	292.3	26.69	11.953	
4,500.0	4,453.8	4,475.9	4,453.8	17.0	13.0	156.89	201.8	-182.9	334.9	307.5	27.41	12.221	
4,553.4	4,506.4	4,528.5	4,506.4	17.2	13.0	157.50	201.8	-182.9	343.5	315.7	27.77	12.370	
4,600.0	4,552.3	4,574.4	4,552.3	17.4	13.1	158.02	201.8	-182.9	350.8	322.7	28.08	12.495	
4,700.0	4,651.1	4,673.2	4,651.1	17.9	13.2	158.99	201.8	-182.9	365.4	336.7	28.75	12.712	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,750.1	4,772.2	4,750.1	18.3	13.2	159.79	201.8	-182.9	378.5	349.1	29.39	12.880		
4,900.0	4,849.4	4,871.4	4,849.4	18.7	13.3	160.45	201.8	-182.9	390.0	360.0	30.00	13.002		
5,000.0	4,948.8	4,970.9	4,948.8	19.1	13.4	160.98	201.8	-182.9	399.9	369.3	30.58	13.079		
5,100.0	5,048.4	5,070.5	5,048.4	19.5	13.5	161.41	201.8	-182.9	408.2	377.1	31.13	13.113		
5,200.0	5,148.2	5,170.2	5,148.2	19.8	13.5	161.74	201.8	-182.9	414.9	383.2	31.65	13.108		
5,300.0	5,248.0	5,270.1	5,248.0	20.2	13.6	161.98	201.8	-182.9	419.9	387.7	32.13	13.067		
5,400.0	5,348.0	5,370.0	5,348.0	20.5	13.7	162.14	201.8	-182.9	423.2	390.6	32.57	12.993		
5,500.0	5,448.0	5,470.0	5,448.0	20.8	13.8	162.22	201.8	-182.9	424.9	392.0	32.95	12.895		
5,552.0	5,500.0	5,522.1	5,500.0	20.8	13.8	89.38	201.8	-182.9	425.1	392.1	33.06	12.861		
5,600.0	5,548.0	5,570.0	5,548.0	20.8	13.8	89.38	201.8	-182.9	425.1	392.0	33.10	12.845		
5,700.0	5,648.0	5,670.0	5,648.0	20.9	13.9	89.38	201.8	-182.9	425.1	391.9	33.21	12.800		
5,800.0	5,748.0	5,770.0	5,748.0	20.9	14.0	89.38	201.8	-182.9	425.1	391.8	33.33	12.755		
5,900.0	5,848.0	5,870.0	5,848.0	21.0	14.1	89.38	201.8	-182.9	425.1	391.7	33.45	12.711		
6,000.0	5,948.0	5,970.0	5,948.0	21.0	14.1	89.38	201.8	-182.9	425.1	391.6	33.56	12.667		
6,100.0	6,048.0	6,070.0	6,048.0	21.1	14.2	89.38	201.8	-182.9	425.1	391.5	33.68	12.623		
6,200.0	6,148.0	6,170.0	6,148.0	21.1	14.3	89.38	201.8	-182.9	425.1	391.3	33.80	12.579		
6,300.0	6,248.0	6,270.0	6,248.0	21.2	14.4	89.38	201.8	-182.9	425.1	391.2	33.92	12.535		
6,400.0	6,348.0	6,370.0	6,348.0	21.2	14.4	89.38	201.8	-182.9	425.1	391.1	34.03	12.492		
6,500.0	6,448.0	6,470.0	6,448.0	21.2	14.5	89.38	201.8	-182.9	425.1	391.0	34.15	12.448		
6,600.0	6,548.0	6,570.0	6,548.0	21.3	14.6	89.38	201.8	-182.9	425.1	390.9	34.27	12.405		
6,700.0	6,648.0	6,670.0	6,648.0	21.3	14.7	89.38	201.8	-182.9	425.1	390.8	34.39	12.362		
6,800.0	6,748.0	6,770.0	6,748.0	21.4	14.7	89.38	201.8	-182.9	425.1	390.6	34.51	12.319		
6,900.0	6,848.0	6,870.0	6,848.0	21.4	14.8	89.38	201.8	-182.9	425.1	390.5	34.63	12.277		
7,000.0	6,948.0	6,970.0	6,948.0	21.5	14.9	89.38	201.8	-182.9	425.1	390.4	34.75	12.234		
7,100.0	7,048.0	7,070.0	7,048.0	21.5	15.0	89.38	201.8	-182.9	425.1	390.3	34.87	12.192		
7,200.0	7,148.0	7,170.0	7,148.0	21.6	15.1	89.38	201.8	-182.9	425.1	390.2	34.99	12.150		
7,300.0	7,248.0	7,270.0	7,248.0	21.6	15.1	89.38	201.8	-182.9	425.1	390.0	35.11	12.108		
7,400.0	7,348.0	7,370.0	7,348.0	21.7	15.2	89.38	201.8	-182.9	425.1	389.9	35.23	12.066		
7,500.0	7,448.0	7,470.0	7,448.0	21.7	15.3	89.38	201.8	-182.9	425.1	389.8	35.36	12.025		
7,600.0	7,548.0	7,570.0	7,548.0	21.8	15.4	89.38	201.8	-182.9	425.1	389.7	35.48	11.983		
7,700.0	7,648.0	7,670.0	7,648.0	21.8	15.4	89.38	201.8	-182.9	425.1	389.5	35.60	11.942		
7,800.0	7,748.0	7,770.0	7,748.0	21.9	15.5	89.38	201.8	-182.9	425.1	389.4	35.72	11.901		
7,900.0	7,848.0	7,870.0	7,848.0	21.9	15.6	89.38	201.8	-182.9	425.1	389.3	35.85	11.860		
8,000.0	7,948.0	7,970.0	7,948.0	21.9	15.7	89.38	201.8	-182.9	425.1	389.2	35.97	11.819		
8,100.0	8,048.0	8,070.0	8,048.0	22.0	15.7	89.38	201.8	-182.9	425.1	389.0	36.09	11.779		
8,200.0	8,148.0	8,170.0	8,148.0	22.0	15.8	89.38	201.8	-182.9	425.1	388.9	36.22	11.738		
8,300.0	8,248.0	8,270.0	8,248.0	22.1	15.9	89.38	201.8	-182.9	425.1	388.8	36.34	11.698		
8,400.0	8,348.0	8,370.0	8,348.0	22.1	16.0	89.38	201.8	-182.9	425.1	388.7	36.47	11.658		
8,500.0	8,448.0	8,470.0	8,448.0	22.2	16.1	89.38	201.8	-182.9	425.1	388.6	36.59	11.619		
8,600.0	8,548.0	8,570.0	8,548.0	22.2	16.1	89.38	201.8	-182.9	425.1	388.4	36.72	11.579		
8,700.0	8,648.0	8,670.0	8,648.0	22.3	16.2	89.38	201.8	-182.9	425.1	388.3	36.84	11.540		
8,800.0	8,748.0	8,770.0	8,748.0	22.3	16.3	89.38	201.8	-182.9	425.1	388.2	36.97	11.500		
8,900.0	8,848.0	8,870.0	8,848.0	22.4	16.4	89.38	201.8	-182.9	425.1	388.0	37.09	11.461		
9,000.0	8,948.0	8,970.0	8,948.0	22.4	16.4	89.38	201.8	-182.9	425.1	387.9	37.22	11.422		
9,100.0	9,048.0	9,070.0	9,048.0	22.5	16.5	89.38	201.8	-182.9	425.1	387.8	37.35	11.384		
9,200.0	9,148.0	9,170.0	9,148.0	22.5	16.6	89.38	201.8	-182.9	425.1	387.7	37.47	11.345		
9,300.0	9,248.0	9,270.0	9,248.0	22.6	16.7	89.38	201.8	-182.9	425.1	387.5	37.60	11.307		
9,400.0	9,348.0	9,370.0	9,348.0	22.6	16.8	89.38	201.8	-182.9	425.1	387.4	37.73	11.269		
9,500.0	9,448.0	9,470.0	9,448.0	22.7	16.8	89.38	201.8	-182.9	425.1	387.3	37.86	11.231		
9,600.0	9,548.0	9,570.0	9,548.0	22.7	16.9	89.38	201.8	-182.9	425.1	387.2	37.98	11.193		

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
9,700.0	9,648.0	9,670.0	9,648.0	22.8	17.0	89.38	201.8	-182.9	425.1	387.0	38.11	11.155	
9,800.0	9,748.0	9,770.0	9,748.0	22.8	17.1	89.38	201.8	-182.9	425.1	386.9	38.24	11.118	
9,900.0	9,848.0	9,870.0	9,848.0	22.9	17.1	89.38	201.8	-182.9	425.1	386.8	38.37	11.081	
10,000.0	9,948.0	9,970.0	9,948.0	23.0	17.2	89.38	201.8	-182.9	425.1	386.6	38.50	11.044	
10,100.0	10,048.0	10,070.0	10,048.0	23.0	17.3	89.38	201.8	-182.9	425.1	386.5	38.63	11.007	
10,200.0	10,148.0	10,170.0	10,148.0	23.1	17.4	89.38	201.8	-182.9	425.1	386.4	38.76	10.970	
10,300.0	10,248.0	10,270.0	10,248.0	23.1	17.5	89.38	201.8	-182.9	425.1	386.3	38.88	10.933	
10,400.0	10,348.0	10,370.0	10,348.0	23.2	17.5	89.38	201.8	-182.9	425.1	386.1	39.01	10.897	
10,500.0	10,448.0	10,470.0	10,448.0	23.2	17.6	89.38	201.8	-182.9	425.1	386.0	39.14	10.861	
10,600.0	10,548.0	10,570.0	10,548.0	23.3	17.7	89.38	201.8	-182.9	425.1	385.9	39.28	10.825	
10,700.0	10,648.0	10,670.0	10,648.0	23.3	17.8	89.38	201.8	-182.9	425.1	385.7	39.41	10.789	
10,800.0	10,748.0	10,770.0	10,748.0	23.4	17.8	89.38	201.8	-182.9	425.1	385.6	39.54	10.753	
10,900.0	10,848.0	10,870.0	10,848.0	23.4	17.9	89.38	201.8	-182.9	425.1	385.5	39.67	10.718	
11,000.0	10,948.0	10,970.0	10,948.0	23.5	18.0	89.38	201.8	-182.9	425.1	385.3	39.80	10.682	
11,100.0	11,048.0	11,070.0	11,048.0	23.5	18.1	89.38	201.8	-182.9	425.1	385.2	39.93	10.647	
11,200.0	11,148.0	11,170.0	11,148.0	23.6	18.2	89.38	201.8	-182.9	425.1	385.1	40.06	10.612	
11,300.0	11,248.0	11,270.0	11,248.0	23.6	18.2	89.38	201.8	-182.9	425.1	384.9	40.19	10.577	
11,400.0	11,348.0	11,370.0	11,348.0	23.7	18.3	89.38	201.8	-182.9	425.1	384.8	40.33	10.543	
11,500.0	11,448.0	11,470.0	11,448.0	23.8	18.4	89.38	201.8	-182.9	425.1	384.7	40.46	10.508	
11,600.0	11,548.0	11,570.0	11,548.0	23.8	18.5	89.38	201.8	-182.9	425.1	384.6	40.59	10.474	
11,700.0	11,648.0	11,670.0	11,648.0	23.9	18.6	89.38	201.8	-182.9	425.1	384.4	40.72	10.440	
11,758.5	11,706.5	11,728.6	11,706.5	23.9	18.6	89.38	201.8	-182.9	425.1	384.4	40.79	10.423	
11,775.0	11,722.9	11,745.0	11,722.9	23.9	18.6	-90.32	201.8	-182.9	425.1	384.3	40.80	10.421	
11,800.0	11,747.9	11,770.0	11,747.9	23.9	18.6	-90.53	201.8	-182.9	425.2	384.4	40.79	10.424	
11,825.0	11,772.7	11,794.8	11,772.7	23.8	18.7	-90.90	201.8	-182.9	425.2	384.4	40.75	10.433	
11,850.0	11,797.4	11,819.5	11,797.4	23.8	18.7	-91.44	201.8	-182.9	425.3	384.6	40.70	10.449	
11,875.0	11,821.8	11,843.9	11,821.8	23.8	18.7	-92.13	201.8	-182.9	425.4	384.8	40.62	10.473	
11,900.0	11,845.9	11,868.0	11,845.9	23.7	18.7	-92.95	201.8	-182.9	425.8	385.2	40.53	10.505	
11,925.0	11,869.6	11,891.7	11,869.6	23.7	18.7	-93.90	201.8	-182.9	426.3	385.8	40.42	10.547	
11,950.0	11,892.9	11,915.2	11,893.2	23.6	18.7	-94.96	201.8	-182.9	427.0	386.7	40.28	10.602	
11,975.0	11,915.6	11,940.7	11,918.6	23.6	18.7	-96.15	200.9	-182.9	428.0	387.9	40.13	10.665	
12,000.0	11,937.8	11,966.8	11,944.6	23.6	18.7	-97.32	198.6	-182.9	429.2	389.2	40.00	10.731	
12,025.0	11,959.3	11,993.5	11,971.0	23.5	18.6	-98.49	194.8	-182.8	430.6	390.8	39.88	10.798	
12,050.0	11,980.2	12,020.9	11,997.8	23.5	18.6	-99.65	189.3	-182.8	432.2	392.4	39.79	10.863	
12,075.0	12,000.3	12,048.9	12,025.0	23.5	18.5	-100.80	182.1	-182.8	434.0	394.3	39.72	10.925	
12,100.0	12,019.6	12,077.8	12,052.4	23.4	18.5	-101.93	173.1	-182.7	435.9	396.2	39.69	10.981	
12,125.0	12,038.0	12,107.4	12,079.9	23.4	18.4	-103.03	162.2	-182.6	437.9	398.2	39.71	11.029	
12,150.0	12,055.5	12,137.8	12,107.4	23.4	18.4	-104.12	149.2	-182.6	440.1	400.3	39.77	11.066	
12,175.0	12,072.1	12,169.1	12,134.7	23.4	18.3	-105.17	134.0	-182.5	442.3	402.4	39.89	11.089	
12,200.0	12,087.7	12,201.3	12,161.7	23.4	18.2	-106.19	116.5	-182.4	444.6	404.5	40.07	11.097	
12,225.0	12,102.2	12,234.3	12,188.2	23.3	18.2	-107.17	96.8	-182.2	446.9	406.6	40.31	11.087	
12,250.0	12,115.7	12,268.3	12,214.0	23.3	18.1	-108.11	74.6	-182.1	449.2	408.6	40.61	11.061	
12,275.0	12,128.0	12,303.2	12,238.7	23.3	18.1	-108.99	49.9	-182.0	451.4	410.4	40.97	11.017	
12,300.0	12,139.1	12,339.1	12,262.1	23.3	18.0	-109.81	22.9	-181.8	453.5	412.1	41.39	10.957	
12,325.0	12,149.1	12,375.7	12,283.9	23.3	18.0	-110.56	-6.6	-181.6	455.5	413.6	41.86	10.882	
12,350.0	12,157.9	12,413.3	12,303.8	23.3	18.0	-111.24	-38.4	-181.4	457.3	415.0	42.36	10.796	
12,375.0	12,165.4	12,451.5	12,321.5	23.3	18.0	-111.83	-72.4	-181.2	458.9	416.1	42.88	10.702	
12,400.0	12,171.7	12,490.5	12,336.6	23.4	17.9	-112.33	-108.3	-181.0	460.3	416.9	43.41	10.604	
12,425.0	12,176.7	12,530.1	12,349.0	23.4	17.9	-112.73	-145.8	-180.8	461.4	417.5	43.93	10.504	
12,450.0	12,180.4	12,570.1	12,358.2	23.4	18.0	-113.03	-184.7	-180.5	462.3	417.9	44.42	10.407	
12,475.0	12,182.8	12,610.4	12,364.2	23.4	18.0	-113.21	-224.6	-180.3	462.8	417.9	44.87	10.315	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
12,500.0	12,183.9	12,650.9	12,366.8	23.5	18.0	-113.28	-265.0	-180.0	463.0	417.8	45.26	10.230		
12,508.5	12,184.0	12,663.5	12,367.0	23.5	18.0	-113.28	-277.6	-179.9	463.0	417.7	45.36	10.207		
12,600.0	12,184.0	12,755.0	12,367.0	23.6	18.2	-113.28	-369.1	-179.4	463.1	417.1	45.91	10.085		
12,700.0	12,184.0	12,855.0	12,367.0	23.8	18.4	-113.28	-469.1	-178.8	463.1	416.5	46.58	9.941		
12,800.0	12,184.0	12,955.0	12,367.0	24.1	18.6	-113.27	-569.1	-178.2	463.1	415.8	47.32	9.788		
12,900.0	12,184.0	13,055.0	12,367.0	24.3	18.9	-113.27	-669.1	-177.5	463.2	415.1	48.11	9.627		
13,000.0	12,184.0	13,155.0	12,367.0	24.6	19.3	-113.27	-769.1	-176.9	463.2	414.2	48.96	9.461		
13,100.0	12,184.0	13,255.0	12,367.0	25.0	19.7	-113.27	-869.1	-176.3	463.2	413.4	49.87	9.290		
13,200.0	12,184.0	13,355.0	12,367.0	25.3	20.1	-113.27	-969.1	-175.7	463.3	412.4	50.82	9.115		
13,300.0	12,184.0	13,455.0	12,367.0	25.7	20.6	-113.27	-1,069.1	-175.1	463.3	411.5	51.83	8.939		
13,400.0	12,184.0	13,555.0	12,367.0	26.2	21.1	-113.26	-1,169.1	-174.5	463.3	410.5	52.88	8.762		
13,500.0	12,184.0	13,655.0	12,367.0	26.6	21.6	-113.26	-1,269.1	-173.9	463.4	409.4	53.97	8.585		
13,600.0	12,184.0	13,755.0	12,367.0	27.1	22.2	-113.26	-1,369.1	-173.3	463.4	408.3	55.11	8.409		
13,700.0	12,184.0	13,855.0	12,367.0	27.6	22.8	-113.26	-1,469.1	-172.7	463.4	407.2	56.28	8.234		
13,800.0	12,184.0	13,955.0	12,367.0	28.1	23.4	-113.26	-1,569.1	-172.0	463.5	406.0	57.49	8.062		
13,900.0	12,184.0	14,055.0	12,367.0	28.7	24.1	-113.25	-1,669.1	-171.4	463.5	404.8	58.73	7.892		
14,000.0	12,184.0	14,155.0	12,367.0	29.2	24.8	-113.25	-1,769.1	-170.8	463.5	403.5	60.01	7.725		
14,100.0	12,184.0	14,255.0	12,367.0	29.8	25.5	-113.25	-1,869.1	-170.2	463.6	402.3	61.31	7.561		
14,200.0	12,184.0	14,355.0	12,367.0	30.4	26.2	-113.25	-1,969.1	-169.6	463.6	401.0	62.64	7.401		
14,300.0	12,184.0	14,455.0	12,367.0	31.1	26.9	-113.25	-2,069.1	-169.0	463.7	399.7	64.00	7.245		
14,400.0	12,184.0	14,555.0	12,367.0	31.7	27.6	-113.24	-2,169.1	-168.4	463.7	398.3	65.38	7.092		
14,500.0	12,184.0	14,655.0	12,367.0	32.4	28.4	-113.24	-2,269.1	-167.8	463.7	396.9	66.78	6.944		
14,600.0	12,184.0	14,755.0	12,367.0	33.0	29.2	-113.24	-2,369.1	-167.1	463.8	395.6	68.21	6.799		
14,700.0	12,184.0	14,855.0	12,367.0	33.7	29.9	-113.24	-2,469.1	-166.5	463.8	394.1	69.65	6.659		
14,800.0	12,184.0	14,955.0	12,367.0	34.4	30.7	-113.24	-2,569.1	-165.9	463.8	392.7	71.12	6.522		
14,900.0	12,184.0	15,055.0	12,367.0	35.2	31.5	-113.24	-2,669.1	-165.3	463.9	391.3	72.60	6.389		
15,000.0	12,184.0	15,155.0	12,367.0	35.9	32.3	-113.23	-2,769.1	-164.7	463.9	389.8	74.10	6.261		
15,100.0	12,184.0	15,255.0	12,367.0	36.6	33.1	-113.23	-2,869.1	-164.1	463.9	388.3	75.61	6.136		
15,200.0	12,184.0	15,355.0	12,367.0	37.4	34.0	-113.23	-2,969.1	-163.5	464.0	386.8	77.14	6.015		
15,300.0	12,184.0	15,455.0	12,367.0	38.1	34.8	-113.23	-3,069.1	-162.9	464.0	385.3	78.68	5.897		
15,400.0	12,184.0	15,555.0	12,367.0	38.9	35.6	-113.23	-3,169.0	-162.2	464.0	383.8	80.24	5.783		
15,500.0	12,184.0	15,655.0	12,367.0	39.7	36.5	-113.22	-3,269.0	-161.6	464.1	382.3	81.81	5.673		
15,600.0	12,184.0	15,755.0	12,367.0	40.4	37.3	-113.22	-3,369.0	-161.0	464.1	380.7	83.38	5.566		
15,700.0	12,184.0	15,855.0	12,367.0	41.2	38.2	-113.22	-3,469.0	-160.4	464.2	379.2	84.97	5.462		
15,800.0	12,184.0	15,955.0	12,367.0	42.0	39.0	-113.22	-3,569.0	-159.8	464.2	377.6	86.58	5.362		
15,900.0	12,184.0	16,055.0	12,367.0	42.8	39.9	-113.22	-3,669.0	-159.2	464.2	376.0	88.19	5.264		
16,000.0	12,184.0	16,155.0	12,367.0	43.7	40.8	-113.21	-3,769.0	-158.6	464.3	374.5	89.80	5.170		
16,100.0	12,184.0	16,255.0	12,367.0	44.5	41.7	-113.21	-3,869.0	-158.0	464.3	372.9	91.43	5.078		
16,200.0	12,184.0	16,355.0	12,367.0	45.3	42.5	-113.21	-3,969.0	-157.3	464.3	371.3	93.07	4.989		
16,300.0	12,184.0	16,455.0	12,367.0	46.1	43.4	-113.21	-4,069.0	-156.7	464.4	369.7	94.71	4.903		
16,400.0	12,184.0	16,555.0	12,367.0	47.0	44.3	-113.21	-4,169.0	-156.1	464.4	368.0	96.37	4.819		
16,500.0	12,184.0	16,655.0	12,367.0	47.8	45.2	-113.21	-4,269.0	-155.5	464.4	366.4	98.02	4.738		
16,600.0	12,184.0	16,755.0	12,367.0	48.6	46.1	-113.20	-4,369.0	-154.9	464.5	364.8	99.69	4.659		
16,700.0	12,184.0	16,855.0	12,367.0	49.5	47.0	-113.20	-4,469.0	-154.3	464.5	363.1	101.36	4.583		
16,800.0	12,184.0	16,955.0	12,367.0	50.3	47.9	-113.20	-4,569.0	-153.7	464.5	361.5	103.04	4.508		
16,900.0	12,184.0	17,055.0	12,367.0	51.2	48.8	-113.20	-4,669.0	-153.1	464.6	359.9	104.72	4.436		
17,000.0	12,184.0	17,155.0	12,367.0	52.1	49.7	-113.20	-4,769.0	-152.4	464.6	358.2	106.41	4.366		
17,100.0	12,184.0	17,255.0	12,367.0	52.9	50.6	-113.19	-4,869.0	-151.8	464.6	356.5	108.11	4.298		
17,200.0	12,184.0	17,355.0	12,367.0	53.8	51.5	-113.19	-4,969.0	-151.2	464.7	354.9	109.81	4.232		
17,300.0	12,184.0	17,455.0	12,367.0	54.7	52.4	-113.19	-5,069.0	-150.6	464.7	353.2	111.51	4.167		

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
17,400.0	12,184.0	17,555.0	12,367.0	55.5	53.3	-113.19	-5,169.0	-150.0	464.8	351.5	113.22	4.105	
17,500.0	12,184.0	17,655.0	12,367.0	56.4	54.2	-113.19	-5,269.0	-149.4	464.8	349.9	114.93	4.044	
17,600.0	12,184.0	17,755.0	12,367.0	57.3	55.1	-113.18	-5,369.0	-148.8	464.8	348.2	116.65	3.985	
17,700.0	12,184.0	17,855.0	12,367.0	58.2	56.0	-113.18	-5,469.0	-148.2	464.9	346.5	118.37	3.927	
17,800.0	12,184.0	17,955.0	12,367.0	59.0	57.0	-113.18	-5,569.0	-147.5	464.9	344.8	120.10	3.871	
17,900.0	12,184.0	18,055.0	12,367.0	59.9	57.9	-113.18	-5,669.0	-146.9	464.9	343.1	121.83	3.816	
18,000.0	12,184.0	18,155.0	12,367.0	60.8	58.8	-113.18	-5,769.0	-146.3	465.0	341.4	123.56	3.763	
18,100.0	12,184.0	18,255.0	12,367.0	61.7	59.7	-113.18	-5,869.0	-145.7	465.0	339.7	125.29	3.711	
18,200.0	12,184.0	18,355.0	12,367.0	62.6	60.6	-113.17	-5,969.0	-145.1	465.0	338.0	127.03	3.661	
18,300.0	12,184.0	18,455.0	12,367.0	63.5	61.6	-113.17	-6,069.0	-144.5	465.1	336.3	128.77	3.612	
18,400.0	12,184.0	18,555.0	12,367.0	64.4	62.5	-113.17	-6,169.0	-143.9	465.1	334.6	130.52	3.564	
18,500.0	12,184.0	18,655.0	12,367.0	65.3	63.4	-113.17	-6,269.0	-143.3	465.1	332.9	132.27	3.517	
18,600.0	12,184.0	18,755.0	12,367.0	66.2	64.3	-113.17	-6,369.0	-142.6	465.2	331.2	134.02	3.471	
18,700.0	12,184.0	18,855.0	12,367.0	67.1	65.3	-113.16	-6,469.0	-142.0	465.2	329.4	135.77	3.427	
18,800.0	12,184.0	18,955.0	12,367.0	68.0	66.2	-113.16	-6,569.0	-141.4	465.3	327.7	137.53	3.383	
18,900.0	12,184.0	19,055.0	12,367.0	68.9	67.1	-113.16	-6,669.0	-140.8	465.3	326.0	139.28	3.341	
19,000.0	12,184.0	19,155.0	12,367.0	69.8	68.1	-113.16	-6,769.0	-140.2	465.3	324.3	141.04	3.299	
19,100.0	12,184.0	19,255.0	12,367.0	70.7	69.0	-113.16	-6,869.0	-139.6	465.4	322.6	142.81	3.259	
19,200.0	12,184.0	19,355.0	12,367.0	71.6	69.9	-113.15	-6,969.0	-139.0	465.4	320.8	144.57	3.219	
19,300.0	12,184.0	19,455.0	12,367.0	72.5	70.9	-113.15	-7,069.0	-138.4	465.4	319.1	146.34	3.181	
19,400.0	12,184.0	19,555.0	12,367.0	73.5	71.8	-113.15	-7,169.0	-137.7	465.5	317.4	148.11	3.143	
19,444.6	12,184.0	19,599.6	12,367.0	73.9	72.2	-113.15	-7,213.6	-137.5	465.5	316.6	148.90	3.126	
19,445.3	12,184.0	19,600.3	12,367.0	73.9	72.2	-113.15	-7,214.3	-137.5	465.5	316.6	148.91	3.126	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	89.56	0.9	120.0	120.0	119.5	0.48	250.295	
100.0	100.0	100.0	100.0	1.2	1.2	89.56	0.9	120.0	120.0	117.1	2.87	41.860	
200.0	200.0	200.0	200.0	1.7	1.7	89.56	0.9	120.0	120.0	116.1	3.86	31.061	
300.0	300.0	300.0	300.0	2.1	2.1	89.56	0.9	120.0	120.0	115.4	4.63	25.899	
400.0	400.0	400.0	400.0	2.4	2.4	89.56	0.9	120.0	120.0	114.7	5.29	22.698	
500.0	500.0	500.0	500.0	2.7	2.7	89.56	0.9	120.0	120.0	114.1	5.87	20.456	
600.0	600.0	600.0	600.0	3.0	3.0	89.56	0.9	120.0	120.0	113.6	6.39	18.769	
700.0	700.0	700.0	700.0	3.2	3.2	89.56	0.9	120.0	120.0	113.1	6.88	17.438	
800.0	800.0	800.0	800.0	3.5	3.5	89.56	0.9	120.0	120.0	112.7	7.34	16.352	
900.0	900.0	900.0	900.0	3.7	3.7	89.56	0.9	120.0	120.0	112.2	7.77	15.442	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	89.56	0.9	120.0	120.0	111.8	8.18	14.666	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	89.56	0.9	120.0	120.0	111.4	8.58	13.993 CC, ES	
1,200.0	1,200.0	1,196.0	1,196.0	4.4	4.4	139.88	1.3	121.6	123.0	113.9	9.11	13.501 SF	
1,300.0	1,299.8	1,291.4	1,291.3	4.7	4.7	140.73	2.3	126.2	131.9	122.3	9.63	13.701	
1,350.0	1,349.7	1,338.8	1,338.5	4.8	4.8	141.29	3.0	129.7	138.6	128.8	9.82	14.112	
1,400.0	1,399.5	1,385.8	1,385.3	4.9	5.0	148.60	4.0	133.9	146.8	136.8	10.02	14.661	
1,500.0	1,498.8	1,478.5	1,477.4	5.2	5.3	158.31	6.2	144.4	168.3	157.7	10.56	15.940	
1,600.0	1,597.7	1,569.0	1,566.9	5.5	5.6	164.11	9.1	157.4	196.1	185.0	11.13	17.623	
1,635.7	1,633.0	1,600.0	1,597.5	5.6	5.7	165.60	10.2	162.5	207.5	196.2	11.28	18.400	
1,700.0	1,696.2	1,657.0	1,653.5	5.7	5.9	165.51	12.4	172.7	229.4	217.8	11.59	19.787	
1,800.0	1,794.7	1,743.6	1,738.2	6.0	6.2	165.27	16.3	190.3	265.6	253.6	12.06	22.017	
1,900.0	1,893.2	1,836.3	1,828.6	6.3	6.4	165.01	20.7	210.3	303.0	290.4	12.61	24.038	
2,000.0	1,991.7	1,929.0	1,919.1	6.7	6.7	164.80	25.0	230.3	340.4	327.2	13.21	25.774	
2,100.0	2,090.2	2,021.8	2,009.5	7.0	7.0	164.64	29.4	250.3	377.9	364.0	13.84	27.306	
2,200.0	2,188.7	2,114.5	2,100.0	7.4	7.4	164.50	33.8	270.2	415.3	400.8	14.49	28.658	
2,300.0	2,287.1	2,207.2	2,190.4	7.7	7.7	164.39	38.1	290.2	452.7	437.6	15.16	29.855	
2,400.0	2,385.6	2,299.9	2,280.8	8.1	8.1	164.29	42.5	310.2	490.1	474.3	15.85	30.915	
2,500.0	2,484.1	2,392.7	2,371.3	8.5	8.4	164.21	46.9	330.2	527.6	511.0	16.56	31.856	
2,600.0	2,582.6	2,485.4	2,461.7	8.9	8.8	164.14	51.2	350.2	565.0	547.7	17.28	32.695	
2,700.0	2,681.1	2,578.1	2,552.2	9.3	9.2	164.08	55.6	370.2	602.4	584.4	18.01	33.446	
2,800.0	2,779.6	2,670.9	2,642.6	9.7	9.6	164.02	60.0	390.1	639.9	621.1	18.75	34.119	
2,900.0	2,878.1	2,763.6	2,733.1	10.1	10.0	163.97	64.4	410.1	677.3	657.8	19.50	34.725	
3,000.0	2,976.5	2,856.3	2,823.5	10.5	10.4	163.93	68.7	430.1	714.7	694.5	20.26	35.272	
3,100.0	3,075.0	2,949.0	2,914.0	11.0	10.8	163.89	73.1	450.1	752.1	731.1	21.03	35.767	
3,200.0	3,173.5	3,041.8	3,004.4	11.4	11.2	163.85	77.5	470.1	789.6	767.8	21.80	36.216	
3,300.0	3,272.0	3,134.5	3,094.8	11.8	11.6	163.82	81.8	490.0	827.0	804.4	22.58	36.626	
3,400.0	3,370.5	3,227.2	3,185.3	12.2	12.0	163.79	86.2	510.0	864.4	841.1	23.36	37.000	
3,500.0	3,469.0	3,320.0	3,275.7	12.7	12.4	163.76	90.6	530.0	901.9	877.7	24.15	37.342	
3,600.0	3,567.4	3,412.7	3,366.2	13.1	12.8	163.74	94.9	550.0	939.3	914.4	24.94	37.656	
3,700.0	3,665.9	3,505.4	3,456.6	13.5	13.2	163.72	99.3	570.0	976.7	951.0	25.74	37.946	

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 UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 712H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	89.54	0.7	90.0	90.0	89.5	0.48	187.723	
100.0	100.0	100.0	100.0	1.2	1.2	89.54	0.7	90.0	90.0	87.1	2.87	31.395	
200.0	200.0	200.0	200.0	1.7	1.7	89.54	0.7	90.0	90.0	86.1	3.86	23.296	
300.0	300.0	300.0	300.0	2.1	2.1	89.54	0.7	90.0	90.0	85.4	4.63	19.425	
400.0	400.0	400.0	400.0	2.4	2.4	89.54	0.7	90.0	90.0	84.7	5.29	17.024	
500.0	500.0	500.0	500.0	2.7	2.7	89.54	0.7	90.0	90.0	84.1	5.87	15.342	
600.0	600.0	600.0	600.0	3.0	3.0	89.54	0.7	90.0	90.0	83.6	6.39	14.077	
700.0	700.0	700.0	700.0	3.2	3.2	89.54	0.7	90.0	90.0	83.1	6.88	13.078	
800.0	800.0	800.0	800.0	3.5	3.5	89.54	0.7	90.0	90.0	82.7	7.34	12.264	
900.0	900.0	900.0	900.0	3.7	3.7	89.54	0.7	90.0	90.0	82.2	7.77	11.582	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	89.54	0.7	90.0	90.0	81.8	8.18	11.000	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	89.54	0.7	90.0	90.0	81.4	8.58	10.495 CC, ES	
1,200.0	1,200.0	1,196.1	1,196.1	4.4	4.5	139.74	1.4	92.0	93.4	84.2	9.19	10.161 SF	
1,300.0	1,299.8	1,291.6	1,291.3	4.7	4.9	140.24	3.6	97.9	103.6	93.8	9.78	10.592	
1,350.0	1,349.7	1,338.8	1,338.4	4.8	5.1	140.54	5.1	102.2	111.2	101.2	10.00	11.117	
1,400.0	1,399.5	1,385.6	1,384.8	4.9	5.3	147.55	7.0	107.5	120.5	110.3	10.22	11.790	
1,500.0	1,498.8	1,480.5	1,478.7	5.2	5.4	156.58	11.7	120.4	144.2	133.5	10.65	13.531	
1,600.0	1,597.7	1,576.7	1,573.8	5.5	5.7	162.05	16.5	133.9	171.5	160.4	11.18	15.349	
1,635.7	1,633.0	1,610.8	1,607.6	5.6	5.8	163.50	18.3	138.7	182.1	170.8	11.33	16.080	
1,700.0	1,696.2	1,672.1	1,668.1	5.7	5.9	163.42	21.4	147.3	201.6	190.0	11.62	17.343	
1,800.0	1,794.7	1,767.4	1,762.4	6.0	6.2	163.34	26.2	160.7	231.8	219.7	12.16	19.064	
1,900.0	1,893.2	1,862.7	1,856.6	6.3	6.5	163.27	31.0	174.1	262.1	249.3	12.73	20.590	
2,000.0	1,991.7	1,958.0	1,950.9	6.7	6.8	163.21	35.8	187.5	292.3	279.0	13.32	21.942	
2,100.0	2,090.2	2,053.3	2,045.1	7.0	7.1	163.17	40.7	200.8	322.6	308.6	13.94	23.140	
2,200.0	2,188.7	2,148.7	2,139.4	7.4	7.5	163.13	45.5	214.2	352.8	338.2	14.58	24.203	
2,300.0	2,287.1	2,244.0	2,233.6	7.7	7.8	163.10	50.3	227.6	383.1	367.8	15.23	25.149	
2,400.0	2,385.6	2,339.3	2,327.9	8.1	8.1	163.08	55.1	241.0	413.3	397.4	15.90	25.992	
2,500.0	2,484.1	2,434.6	2,422.1	8.5	8.5	163.05	59.9	254.4	443.6	427.0	16.58	26.745	
2,600.0	2,582.6	2,529.9	2,516.4	8.9	8.8	163.03	64.8	267.7	473.8	456.5	17.28	27.420	
2,700.0	2,681.1	2,625.2	2,610.6	9.3	9.2	163.02	69.6	281.1	504.1	486.1	17.99	28.026	
2,800.0	2,779.6	2,720.6	2,704.9	9.7	9.6	163.00	74.4	294.5	534.3	515.6	18.70	28.573	
2,900.0	2,878.1	2,815.9	2,799.1	10.1	9.9	162.99	79.2	307.9	564.5	545.1	19.42	29.067	
3,000.0	2,976.5	2,911.2	2,893.4	10.5	10.3	162.97	84.1	321.2	594.8	574.6	20.15	29.516	
3,100.0	3,075.0	3,006.5	2,987.6	11.0	10.7	162.96	88.9	334.6	625.0	604.2	20.89	29.924	
3,200.0	3,173.5	3,101.8	3,081.9	11.4	11.1	162.95	93.7	348.0	655.3	633.7	21.63	30.296	
3,300.0	3,272.0	3,197.1	3,176.1	11.8	11.5	162.94	98.5	361.4	685.5	663.2	22.38	30.636	
3,400.0	3,370.5	3,292.4	3,270.4	12.2	11.8	162.93	103.3	374.8	715.8	692.7	23.13	30.948	
3,500.0	3,469.0	3,387.8	3,364.6	12.7	12.2	162.93	108.2	388.1	746.0	722.1	23.89	31.234	
3,600.0	3,567.4	3,483.1	3,458.9	13.1	12.6	162.92	113.0	401.5	776.3	751.6	24.65	31.498	
3,700.0	3,665.9	3,578.4	3,553.1	13.5	13.0	162.91	117.8	414.9	806.5	781.1	25.41	31.742	
3,800.0	3,764.4	3,673.7	3,647.3	13.9	13.4	162.91	122.6	428.3	836.8	810.6	26.18	31.968	
3,900.0	3,862.9	3,769.0	3,741.6	14.4	13.8	162.90	127.4	441.6	867.0	840.1	26.95	32.177	
4,000.0	3,961.4	3,864.3	3,835.8	14.8	14.2	162.90	132.3	455.0	897.3	869.6	27.72	32.372	
4,100.0	4,059.9	3,959.7	3,930.1	15.3	14.6	162.89	137.1	468.4	927.5	899.0	28.49	32.553	
4,200.0	4,158.4	4,055.0	4,024.3	15.7	15.0	162.89	141.9	481.8	957.8	928.5	29.27	32.723	
4,300.0	4,256.8	4,150.3	4,118.6	16.1	15.4	162.88	146.7	495.2	988.0	958.0	30.05	32.881	

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

ConocoPhillips

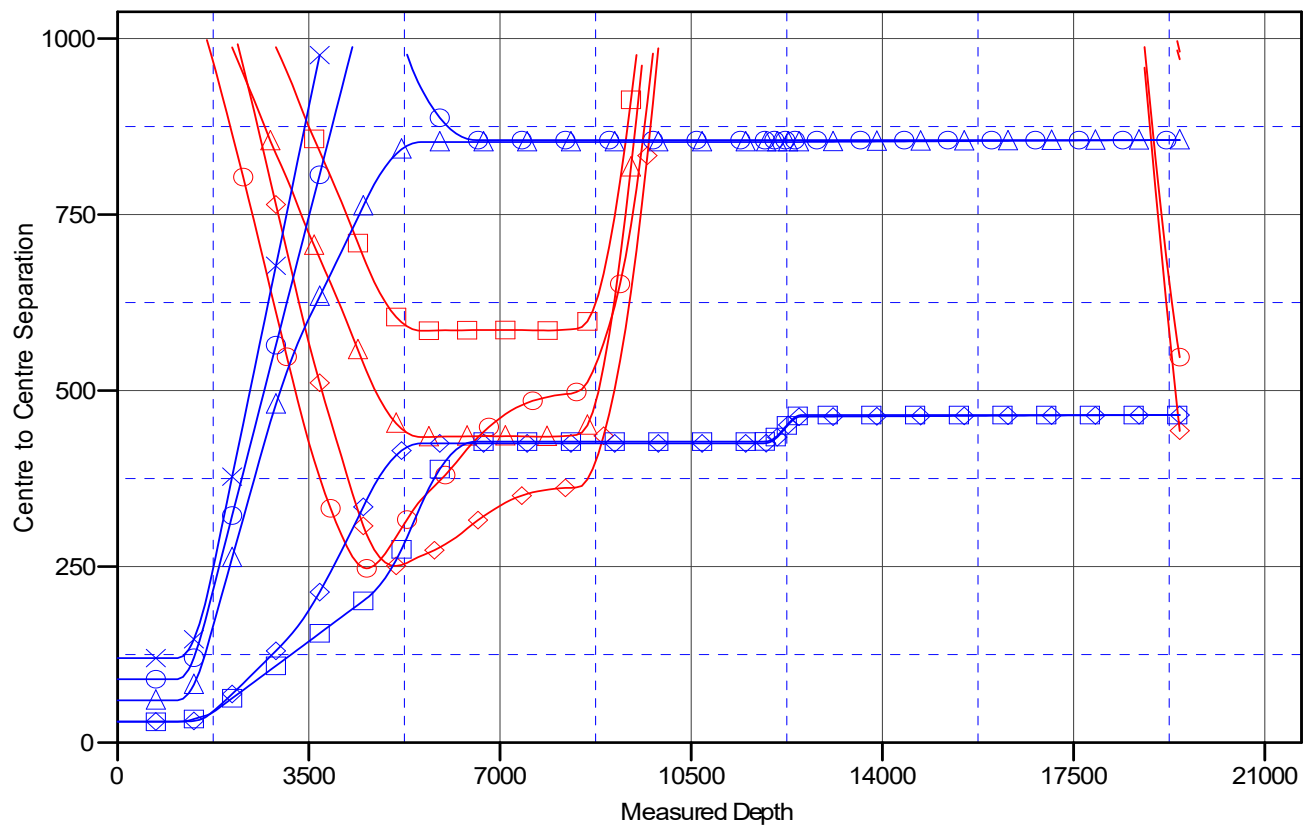
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3125.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UN
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.37°

Ladder Plot



LEGEND

SD WE 23 FEDERAL P25 7H, OWB, AWP V0	APOLLO 7 #10H, OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 709H, OWB, PWP0 V0
SD WE 23 FED P25 #3H, OWB, AWP V0	APOLLO 7 #9H, OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 710H, OWB, PWP0 V0
SD WE 23 FED P25 #6H, OWB, AWP V0	APOLLO 7 #8H, OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 711H, OWB, PWP0 V0
SD WE 23 FEDERAL P25 #H, OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 709H, OWB, PWP0 V0	_ZIA HILLS UNIT 2632 WC 712H, OWB, PWP0 V0
APOLLO 7 #6H, OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 708H, OWB, PWP0 V0	

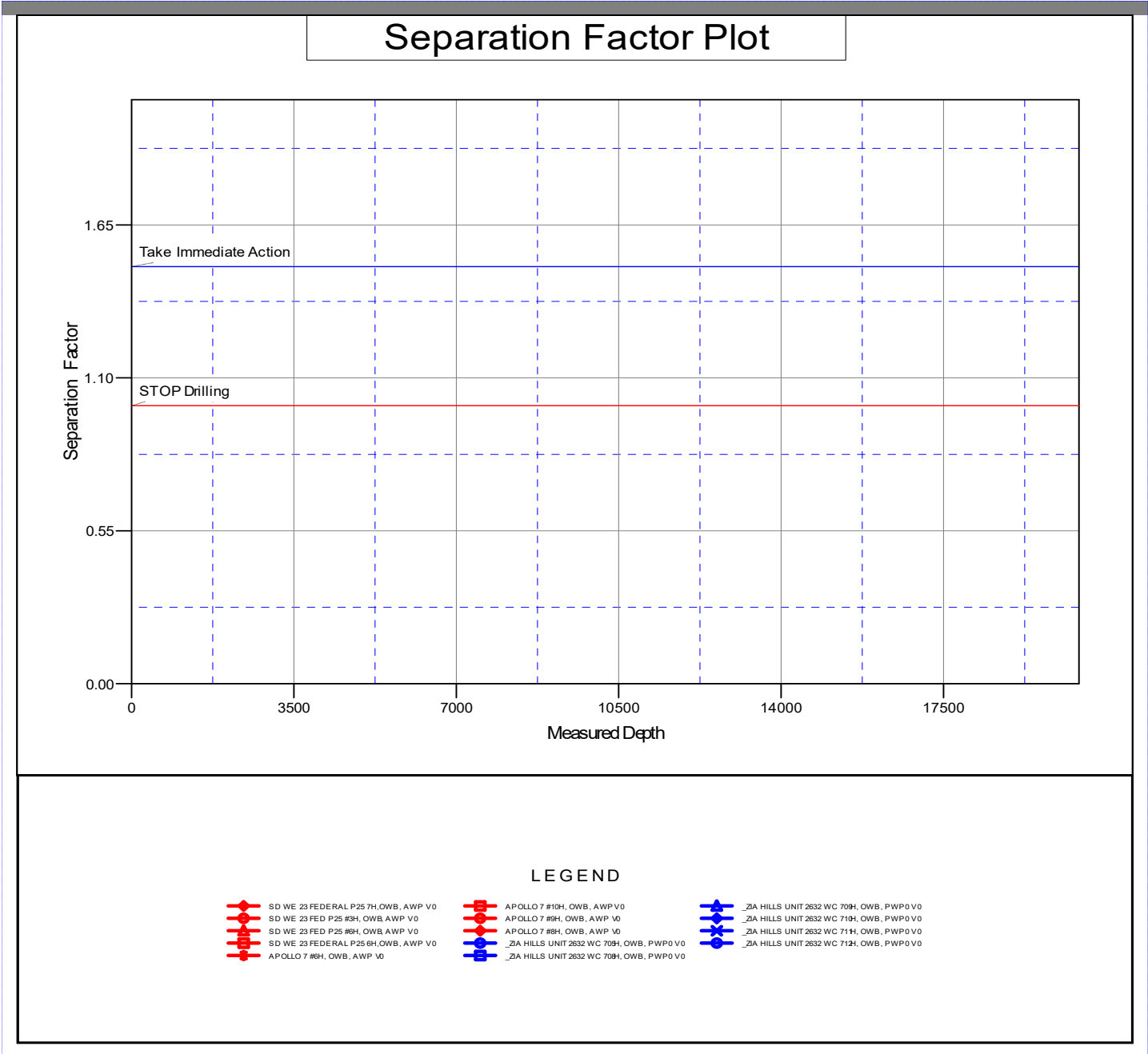
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UNIT2632 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3125.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2632 WC 707H - Slot ZIA HILLS UN
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.37°



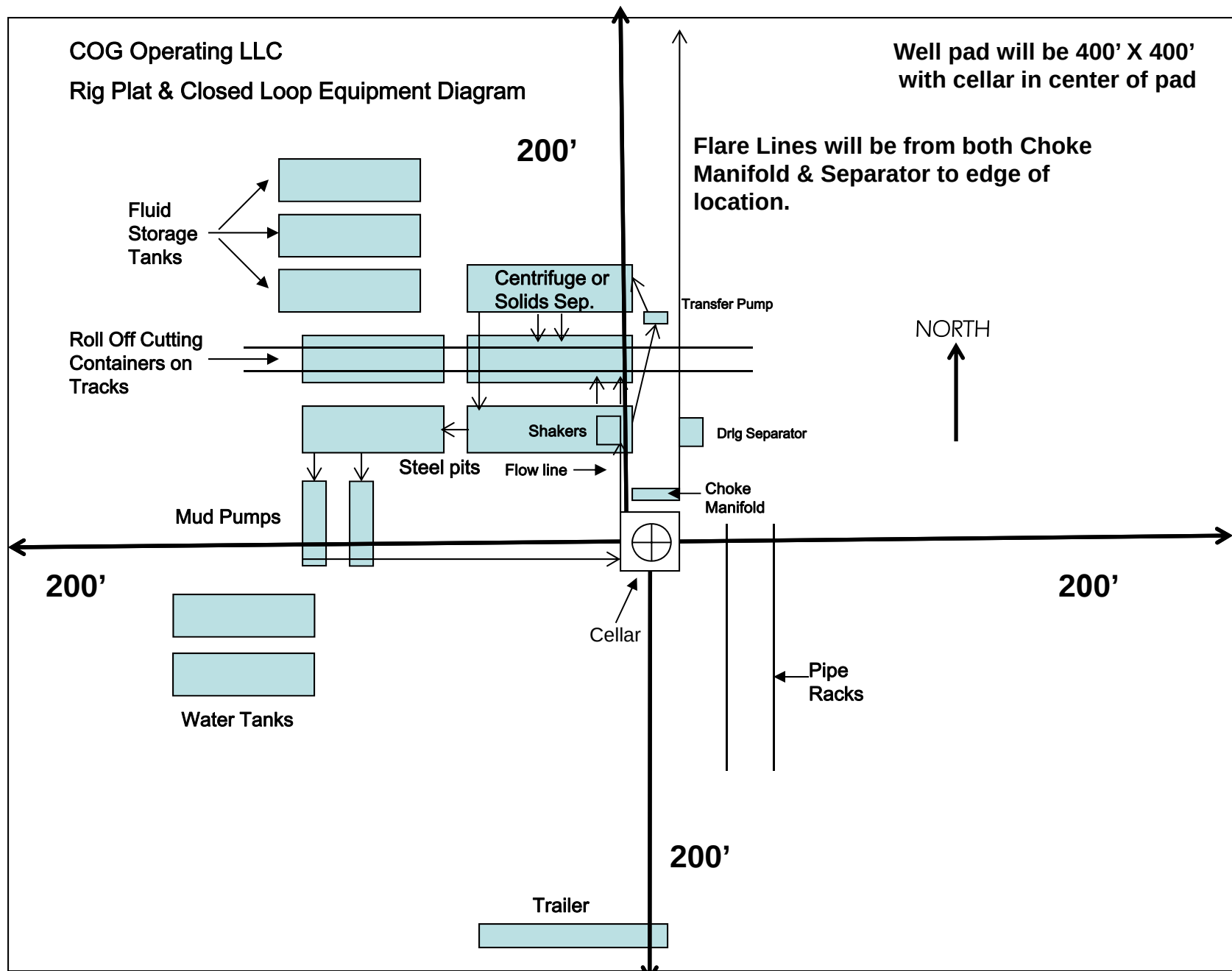


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 09/10/2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2632 WC 707H	30-025-	B-26-26S-32E	250 FNL & 2650 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2632 WC 708H	30-025-	B-26-26S-32E	250 FNL & 2644 FNL	± 818	± 3209	± 1907
Zia Hills Unit 2632 WC 709H	30-025-	B-26-26S-32E	250 FNL & 2610 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2632 WC 710H	30-025-	B-26-26S-32E	250 FNL & 2630 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2632 WC 711H	30-025-	B-26-26S-32E	250 FNL & 2570 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2632 WC 712H	30-025-	B-26-26S-32E	250 FNL & 2590 FEL	± 818	± 3209	± 1907

IV. Central Delivery Point Name: Zia Hills Unit CF2 Facility NESW 24-26S-31E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2632 WC	Pending	± 2/1/2026	± 25 days from spud	TBD	TBD	TBD
701H, 702H, 703H, 704H, 705H, 706H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

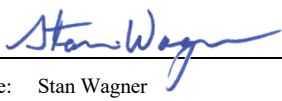
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 09/10/2024
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

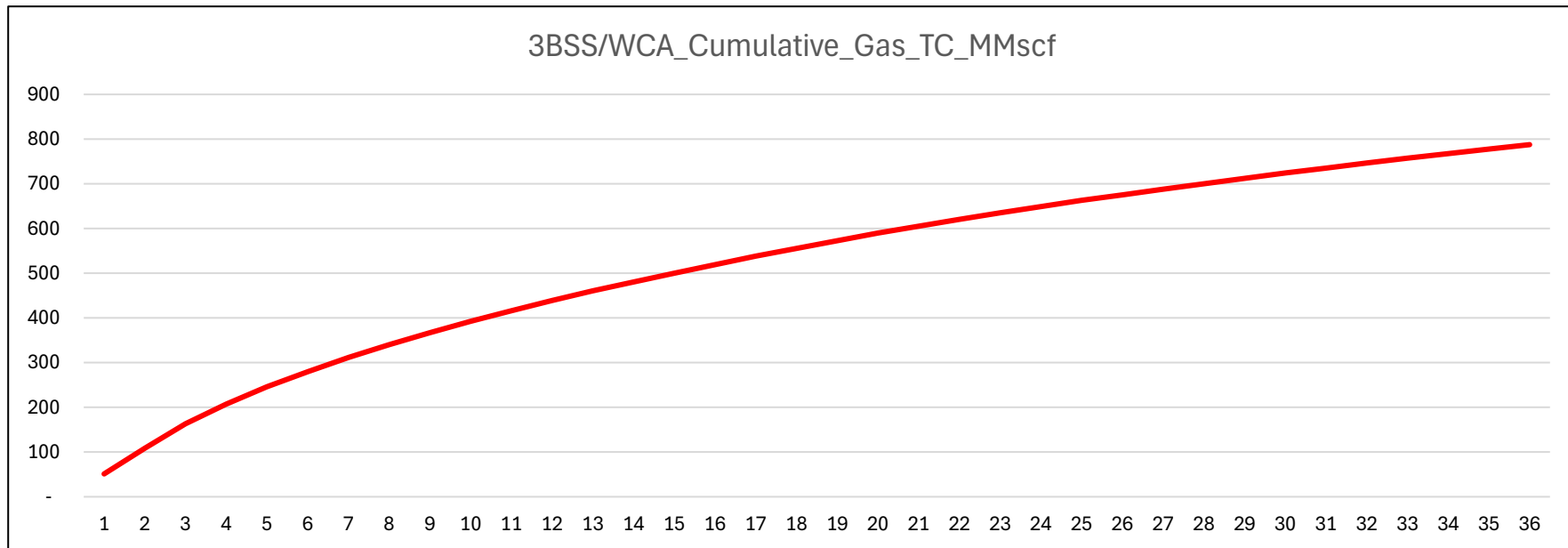
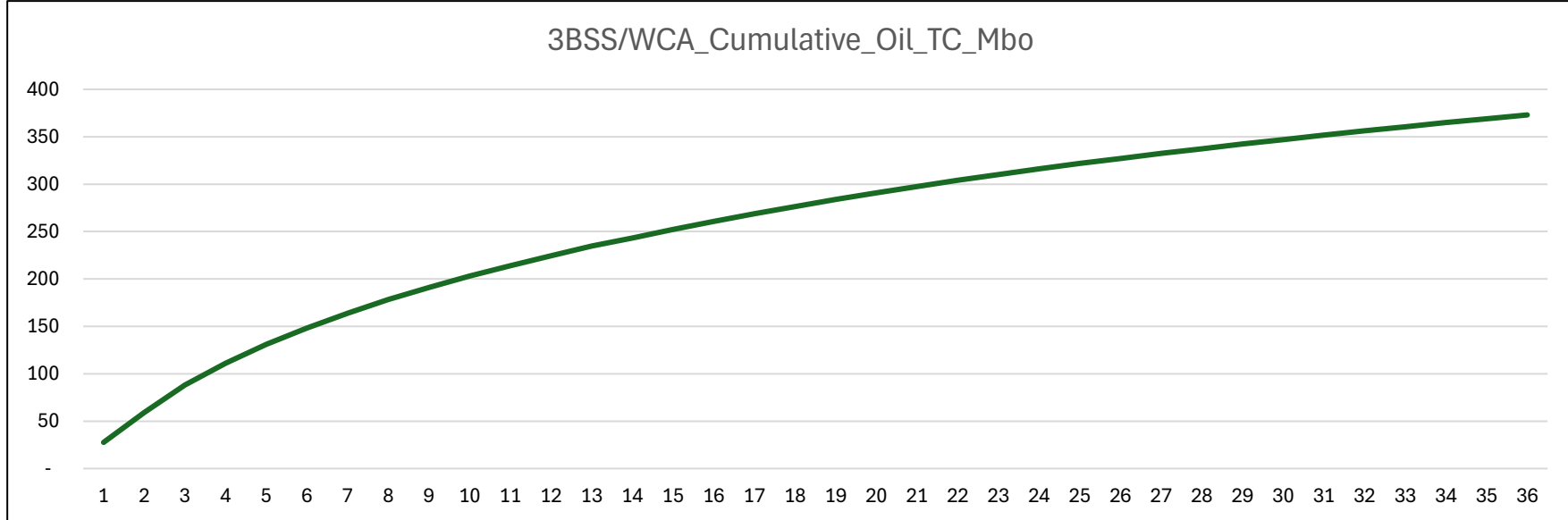
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

Waste Minimization Plan

Per § 3162.3-1 Drilling applications and plans. Part J:

- (1) The anticipated initial oil production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (2) The anticipated initial oil-well gas production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.
 - a. See attached NMOCD – Natural Gas Management Plan
- (4) Any other information demonstrating the operator's plans to avoid the waste of gas production from any source, including, as appropriate, from pneumatic equipment, storage tanks, and leaks.
 - a. This location will comply with NSPS OOOOb which will include reduced associated gas flaring, non-emitting pneumatic equipment, storage tanks that are controlled and a rigorous leak detection and repair program. In addition, this facility complies with 20.2.50 NMAC (Ozone Precursor Pollutants) which also imposes standards on pneumatic equipment, tank controls, and leak detection and repair. Finally, this facility must comply with 19.15.27 NMAC (Venting and Flaring of Natural Gas) which significantly reduces instances of flaring.

Anticipated Production Decline Curve



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2632 WC 707H
LOCATION:	Section 26, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **1070 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

Contingency Casing Design:

4. The **13-3/8** inch surface casing shall be set at approximately **1070 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

- hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
6. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
7. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below

the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.

- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.

- ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead

cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against

- the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 2/12/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

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

ACKNOWLEDGMENTS

Action 470429

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 470429
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☐	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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Phone: (505) 476-3441

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Phone: (505) 629-6116

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

CONDITIONS

Action 470429

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	Action Number: 470429
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/3/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	6/3/2025
jeffrey.harrison	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	8/16/2025
jeffrey.harrison	Out of compliance with Rule 19.15.5.9 Inactive Well List. Well cannot be produced until the operator is back in compliance.	8/16/2025
jeffrey.harrison	NSP required if not already covered by an existing order or if not an infill to an appropriate defining well in the same pool and spacing unit.	8/16/2025
jeffrey.harrison	Any string of casing that is not circulated to surface have a minimum of 200' of cement tie-back into the previous string of casing.	8/16/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	8/16/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/16/2025
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	8/16/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	8/16/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	8/16/2025
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.	8/16/2025