

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. 30-025-55002
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 / 2630 FEL / TWSP: 26S / RANGE: 32E / SECTION: 26 / LAT: 32.020208 / LONG: -103.645533 (TVD: 0 feet, MD: 0 feet)

PPP: NWN / 100 FNL / 1885 FEL / TWSP: 26S / RANGE: 32E / SECTION: 26 / LAT: 32.02062 / LONG: -103.64313 (TVD: 12245 feet, MD: 12313 feet)

PPP: SWNE / 1337 FNL / 1885 FEL / TWSP: 26S / RANGE: 32E / SECTION: 26 / LAT: 32.01722 / LONG: -103.643123 (TVD: 12367 feet, MD: 13534 feet)

PPP: NWN / 1 FNL / 1885 FEL / TWSP: 26S / RANGE: 32E / SECTION: 35 / LAT: 32.006194 / LONG: -103.6431 (TVD: 12367 feet, MD: 17494 feet)

BHL: LOT 2 / 50 FSL / 1885 FEL / TWSP: 26S / RANGE: 32E / SECTION: 35 / LAT: 32.00037 / LONG: -103.643103 (TVD: 12367 feet, MD: 19600 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 30-025-55002	Pool Code 98080 98081	Pool Name Zia Hills; Wolfcamp
Property Code 337705	Property Name ZIA HILLS UNIT 2632 WC	Well Number 710H
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 2,630' FEL	Latitude 32.020208°	Longitude -103.645533°	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 1,885' FEL	Latitude 32.000370°	Longitude -103.643103°	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 2,630' FEL	Latitude 32.020208°	Longitude -103.645533°	County LEA
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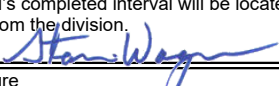
First Take Point (FTP)

UL B	Section 26	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,885' FEL	Latitude 32.020620°	Longitude -103.643130°	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 1,885' FEL	Latitude 32.000507°	Longitude -103.643102°	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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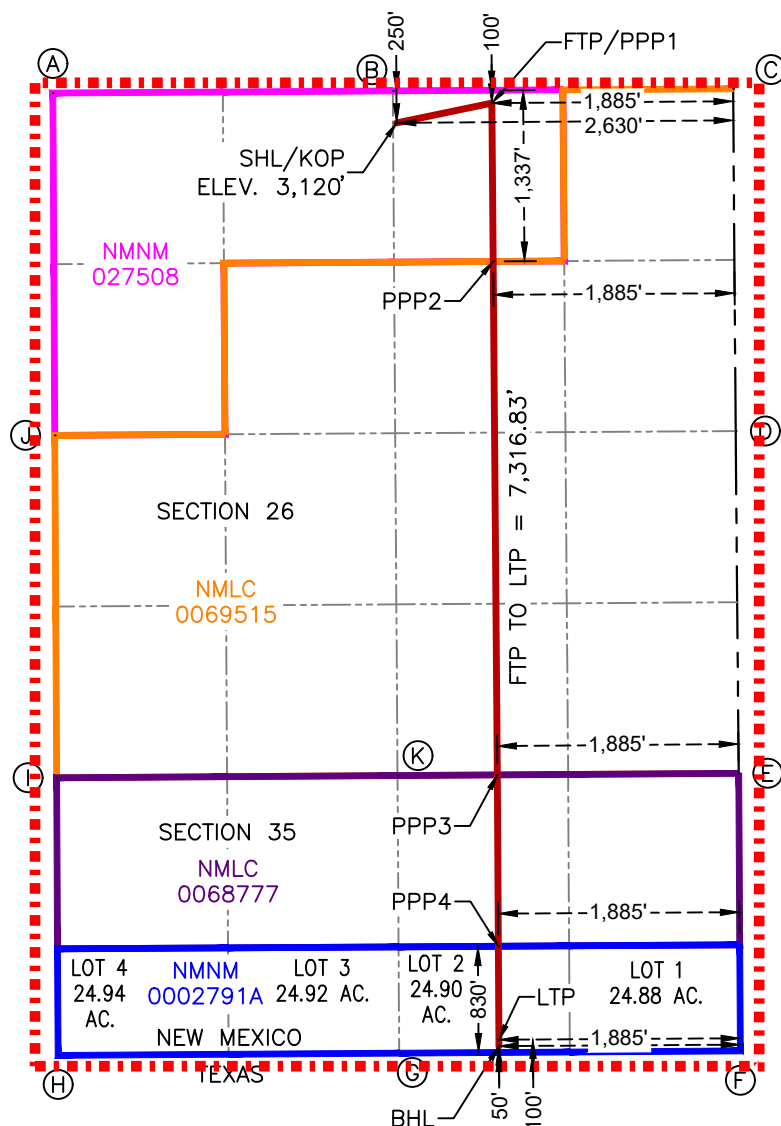
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.  Stan Wagner Signature 3/17/2025 Date		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.  Mark J. Murray Signature and Seal of Professional Surveyor Date: 3/19/2025	
Printed Name Email Address		Certificate Number 12177	Date of Survey 3/19/2025

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 710H

**SURFACE HOLE LOCATION
& KICK-OFF POINT**
250' FNL & 2,630' FEL
ELEV.=3,120'

NAD 83 X = 754,502.87'
NAD 83 Y = 371,768.88'
NAD 83 LAT = 32.020208°
NAD 83 LONG = -103.645533°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 1,885' FEL
NAD 83 X = 755,246.73'
NAD 83 Y = 371,923.61'
NAD 83 LAT = 32.020620°
NAD 83 LONG = -103.643130°

PENETRATION POINT 2
1,337' FNL & 1,885' FEL
NAD 83 X = 755,256.83'
NAD 83 Y = 370,686.65'
NAD 83 LAT = 32.017220°
NAD 83 LONG = -103.643123°

PENETRATION POINT 3
0' FSL & 1,885' FEL
NAD 83 X = 755,289.58'
NAD 83 Y = 366,675.77'
NAD 83 LAT = 32.006194°
NAD 83 LONG = -103.643100°

PENETRATION POINT 4
830' FSL & 1,885' FEL
NAD 83 X = 755,297.58'
NAD 83 Y = 365,337.11'
NAD 83 LAT = 32.002514°
NAD 83 LONG = -103.643102°

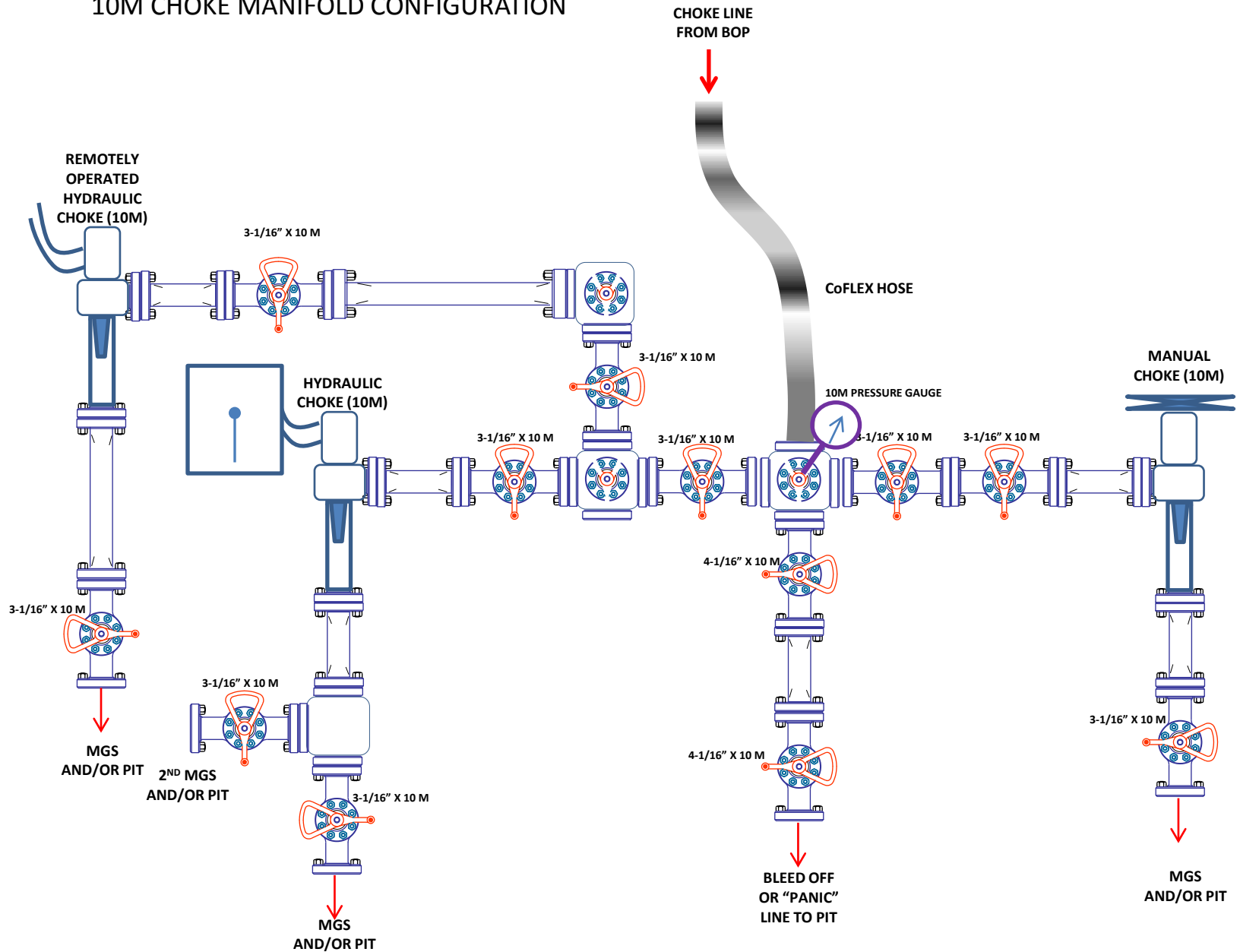
LAST TAKE POINT
100' FSL & 1,885' FEL
NAD 83 X = 755,301.93'
NAD 83 Y = 364,606.99'
NAD 83 LAT = 32.000507°
NAD 83 LONG = -103.643102°

BOTTOM HOLE LOCATION
50' FSL & 1,885' FEL
NAD 83 X = 755,302.23'
NAD 83 Y = 364,556.99'
NAD 83 LAT = 32.000370°
NAD 83 LONG = -103.643103°

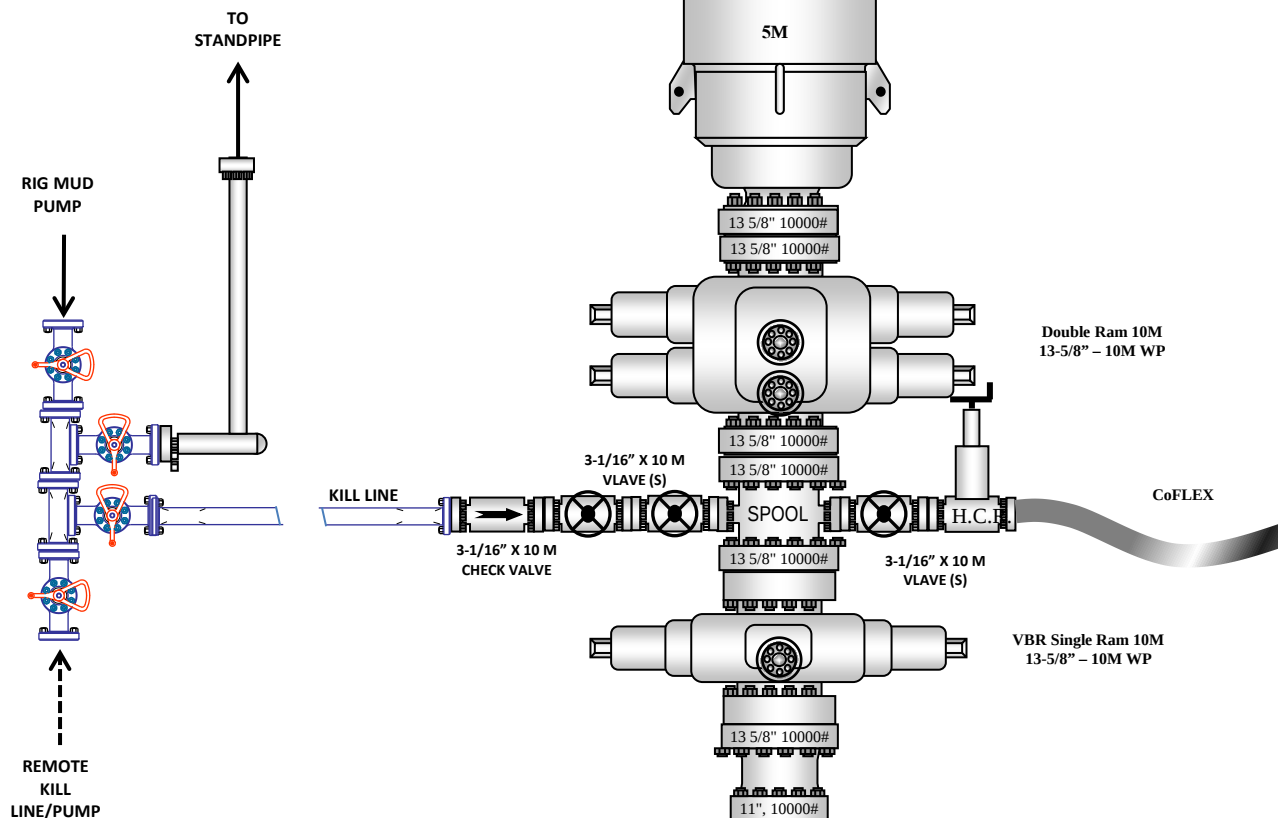
**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

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 710H

1. Geologic Formations

TVD of target	12,367' EOL	Pilot hole depth	NA
MD at TD:	19,600'	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	0.98	2.98	3.01
8.750"	8200	11760	7.625"	29.7	P110-ICY	W513	1.20	1.49	3.06	1.84
6.75"	0	11560	5.5"	23	P110-CY	BTC	1.79	1.93	2.74	2.74
6.75"	11560	19,600	5.5"	23	P110-CY	W441	1.67	1.95	2.56	2.33
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	1.25	5.18	5.36
8.75"	4220	11760	7.625"	29.7	P110-ICY	W513	1.20	1.49	3.06	1.84
6.75"	0	11560	5.5"	23	P110-CY	BTC	1.79	2.09	2.74	2.74
6.75"	11560	19,600	5.5"	23	P110-CY	W441	1.67	1.95	2.56	2.33
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 14, 2024

1

ConocoPhillips Company - Zia Hills Unit 2632 WC 710H

	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 710H

3. Cementing Program

Casing	# Sk	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	830	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	730	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	11,260'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sk	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	11,260'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2632 WC 710H

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.
Y	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 710H

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 710H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8685 psi at 12367' TVD
Abnormal Temperature	NO 180 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

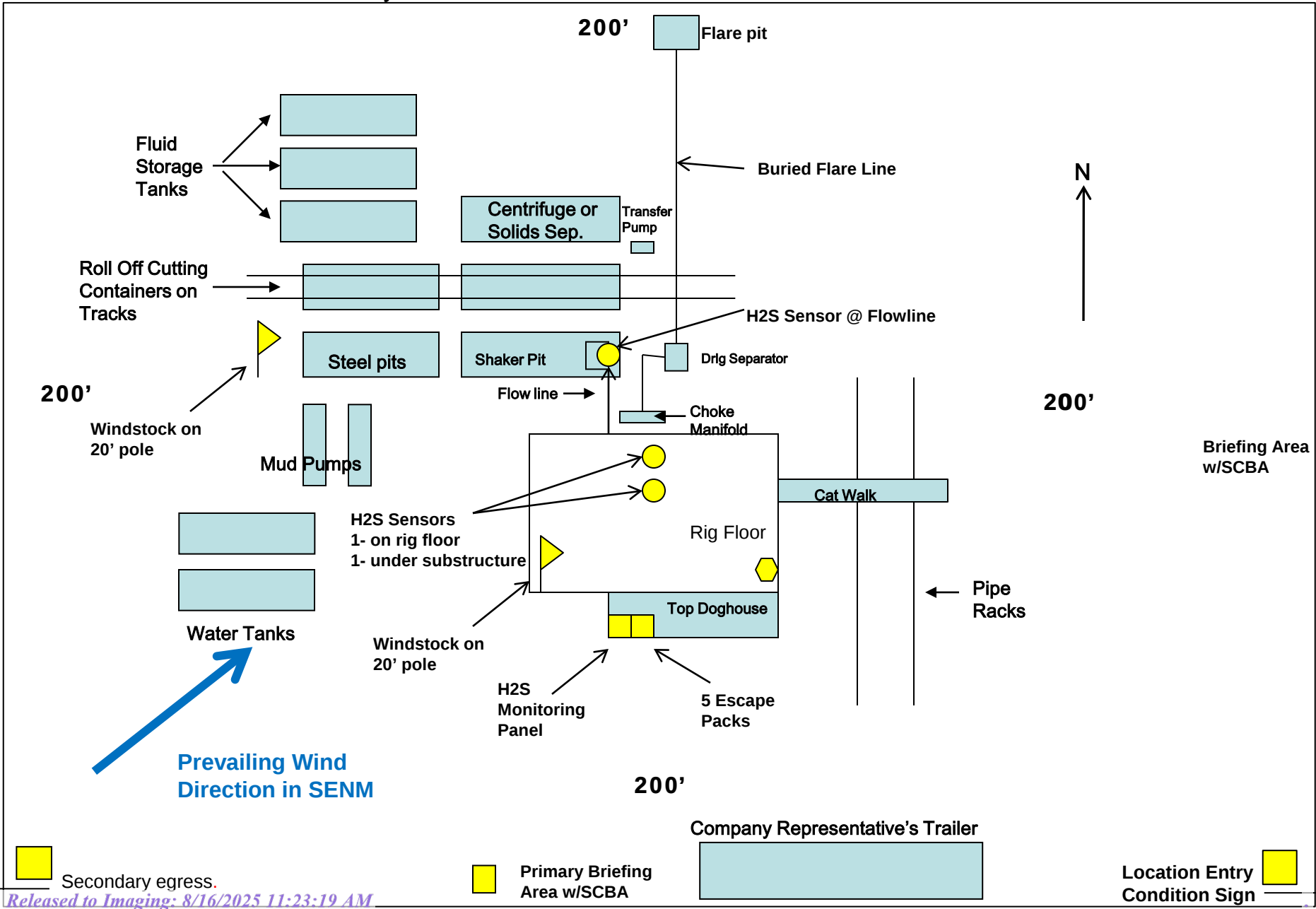
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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 710H - Slot ZIA HILLS UNIT2632
WC 710H**

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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 710H - Slot ZIA HILLS UNIT2632 WC 710H					
Well Position	+N/-S	0.0 usft	Northing:	371,718.03 usft	Latitude:	32° 1' 12.297 N
	+E/-W	0.0 usft	Easting:	714,274.37 usft	Longitude:	103° 38' 31.094 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	47,253.56081625

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	181.33

Plan Survey Tool Program	Date	7/18/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,600.4 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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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	
1,608.3	10.17	313.42	1,605.6	30.9	-32.7	2.00	2.00	0.00	313.42	
2,505.5	10.17	313.42	2,488.7	139.8	-147.7	0.00	0.00	0.00	0.00	
3,522.1	0.00	0.00	3,500.0	201.6	-213.0	1.00	-1.00	0.00	180.00	
11,911.6	0.00	0.00	11,889.5	201.6	-213.0	0.00	0.00	0.00	0.00	
12,661.6	90.00	179.65	12,367.0	-275.9	-210.1	12.00	12.00	23.95	179.65	
19,600.4	90.00	179.65	12,367.0	-7,214.6	-167.6	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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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 710H	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	313.42	1,200.0	1.2	-1.3	-1.2	2.00	2.00	0.00	
1,300.0	4.00	313.42	1,299.8	4.8	-5.1	-4.7	2.00	2.00	0.00	
1,400.0	6.00	313.42	1,399.5	10.8	-11.4	-10.5	2.00	2.00	0.00	
1,500.0	8.00	313.42	1,498.7	19.2	-20.2	-18.7	2.00	2.00	0.00	
1,608.3	10.17	313.42	1,605.6	30.9	-32.7	-30.1	2.00	2.00	0.00	
1,700.0	10.17	313.42	1,695.9	42.0	-44.4	-41.0	0.00	0.00	0.00	
1,800.0	10.17	313.42	1,794.3	54.2	-57.2	-52.8	0.00	0.00	0.00	
1,900.0	10.17	313.42	1,892.8	66.3	-70.1	-64.7	0.00	0.00	0.00	
2,000.0	10.17	313.42	1,991.2	78.4	-82.9	-76.5	0.00	0.00	0.00	
2,100.0	10.17	313.42	2,089.6	90.6	-95.7	-88.3	0.00	0.00	0.00	
2,200.0	10.17	313.42	2,188.0	102.7	-108.5	-100.2	0.00	0.00	0.00	
2,300.0	10.17	313.42	2,286.5	114.8	-121.3	-112.0	0.00	0.00	0.00	
2,400.0	10.17	313.42	2,384.9	127.0	-134.2	-123.8	0.00	0.00	0.00	
2,505.5	10.17	313.42	2,488.7	139.8	-147.7	-136.3	0.00	0.00	0.00	
2,600.0	9.22	313.42	2,581.9	150.7	-159.2	-147.0	1.00	-1.00	0.00	
2,700.0	8.22	313.42	2,680.7	161.1	-170.2	-157.1	1.00	-1.00	0.00	
2,800.0	7.22	313.42	2,779.8	170.4	-180.0	-166.1	1.00	-1.00	0.00	
2,900.0	6.22	313.42	2,879.1	178.4	-188.5	-174.0	1.00	-1.00	0.00	
3,000.0	5.22	313.42	2,978.6	185.3	-195.7	-180.7	1.00	-1.00	0.00	
3,100.0	4.22	313.42	3,078.3	190.9	-201.7	-186.2	1.00	-1.00	0.00	
3,200.0	3.22	313.42	3,178.1	195.4	-206.4	-190.5	1.00	-1.00	0.00	
3,300.0	2.22	313.42	3,278.0	198.6	-209.9	-193.7	1.00	-1.00	0.00	
3,400.0	1.22	313.42	3,377.9	200.7	-212.1	-195.7	1.00	-1.00	0.00	
3,500.0	0.22	313.42	3,477.9	201.6	-213.0	-196.6	1.00	-1.00	0.00	
3,522.1	0.00	0.00	3,500.0	201.6	-213.0	-196.6	1.00	-1.00	0.00	
3,600.0	0.00	0.00	3,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,000.0	0.00	0.00	3,977.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,077.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,177.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,277.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,377.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,477.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,977.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,077.9	201.6	-213.0	-196.6	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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)	
5,200.0	0.00	0.00	5,177.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,277.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,377.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,477.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,977.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,077.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,177.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,277.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,377.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,477.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,977.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,077.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,177.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,277.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,377.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,477.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,977.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,077.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,177.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,277.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,377.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,477.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,977.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,077.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,177.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,277.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,377.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,477.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,977.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,077.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,177.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,277.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,377.9	201.6	-213.0	-196.6	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 710H	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)	
10,500.0	0.00	0.00	10,477.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,977.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,077.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,177.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,277.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,377.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,477.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,577.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,677.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,777.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,877.9	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,911.6	0.00	0.00	11,889.5	201.6	-213.0	-196.6	0.00	0.00	0.00	
11,925.0	1.61	179.65	11,902.9	201.4	-213.0	-196.4	12.00	12.00	0.00	
11,950.0	4.61	179.65	11,927.9	200.1	-213.0	-195.1	12.00	12.00	0.00	
11,975.0	7.61	179.65	11,952.7	197.4	-213.0	-192.4	12.00	12.00	0.00	
12,000.0	10.61	179.65	11,977.4	193.4	-213.0	-188.4	12.00	12.00	0.00	
12,025.0	13.61	179.65	12,001.9	188.2	-212.9	-183.2	12.00	12.00	0.00	
12,050.0	16.61	179.65	12,026.0	181.7	-212.9	-176.7	12.00	12.00	0.00	
12,075.0	19.61	179.65	12,049.8	173.9	-212.8	-168.9	12.00	12.00	0.00	
12,100.0	22.61	179.65	12,073.1	164.9	-212.8	-159.9	12.00	12.00	0.00	
12,125.0	25.61	179.65	12,095.9	154.7	-212.7	-149.7	12.00	12.00	0.00	
12,150.0	28.61	179.65	12,118.1	143.3	-212.6	-138.3	12.00	12.00	0.00	
12,175.0	31.61	179.65	12,139.8	130.8	-212.6	-125.8	12.00	12.00	0.00	
12,200.0	34.61	179.65	12,160.7	117.1	-212.5	-112.1	12.00	12.00	0.00	
12,225.0	37.61	179.65	12,180.9	102.4	-212.4	-97.4	12.00	12.00	0.00	
12,250.0	40.61	179.65	12,200.3	86.6	-212.3	-81.6	12.00	12.00	0.00	
12,275.0	43.61	179.65	12,218.8	69.8	-212.2	-64.9	12.00	12.00	0.00	
12,300.0	46.61	179.65	12,236.5	52.1	-212.1	-47.2	12.00	12.00	0.00	
12,325.0	49.61	179.65	12,253.2	33.5	-212.0	-28.6	12.00	12.00	0.00	
12,350.0	52.61	179.65	12,268.9	14.1	-211.9	-9.1	12.00	12.00	0.00	
12,375.0	55.61	179.65	12,283.5	-6.2	-211.7	11.1	12.00	12.00	0.00	
12,400.0	58.61	179.65	12,297.1	-27.2	-211.6	32.1	12.00	12.00	0.00	
12,425.0	61.61	179.65	12,309.5	-48.8	-211.5	53.7	12.00	12.00	0.00	
12,450.0	64.61	179.65	12,320.9	-71.1	-211.3	76.0	12.00	12.00	0.00	
12,475.0	67.61	179.65	12,331.0	-94.0	-211.2	98.9	12.00	12.00	0.00	
12,500.0	70.61	179.65	12,339.9	-117.4	-211.0	122.2	12.00	12.00	0.00	
12,525.0	73.61	179.65	12,347.6	-141.1	-210.9	146.0	12.00	12.00	0.00	
12,550.0	76.61	179.65	12,354.0	-165.3	-210.8	170.1	12.00	12.00	0.00	
12,575.0	79.61	179.65	12,359.1	-189.8	-210.6	194.6	12.00	12.00	0.00	
12,600.0	82.61	179.65	12,363.0	-214.5	-210.5	219.3	12.00	12.00	0.00	
12,625.0	85.61	179.65	12,365.6	-239.3	-210.3	244.1	12.00	12.00	0.00	
12,650.0	88.61	179.65	12,366.8	-264.3	-210.1	269.1	12.00	12.00	0.00	
12,661.6	90.00	179.65	12,367.0	-275.9	-210.1	280.7	12.00	12.00	0.00	
12,700.0	90.00	179.65	12,367.0	-314.3	-209.8	319.1	0.00	0.00	0.00	
12,800.0	90.00	179.65	12,367.0	-414.3	-209.2	419.0	0.00	0.00	0.00	
12,900.0	90.00	179.65	12,367.0	-514.3	-208.6	519.0	0.00	0.00	0.00	
13,000.0	90.00	179.65	12,367.0	-614.3	-208.0	618.9	0.00	0.00	0.00	
13,100.0	90.00	179.65	12,367.0	-714.3	-207.4	718.9	0.00	0.00	0.00	
13,200.0	90.00	179.65	12,367.0	-814.3	-206.8	818.9	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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)	
13,300.0	90.00	179.65	12,367.0	-914.3	-206.2	918.8	0.00	0.00	0.00	
13,400.0	90.00	179.65	12,367.0	-1,014.3	-205.6	1,018.8	0.00	0.00	0.00	
13,500.0	90.00	179.65	12,367.0	-1,114.3	-204.9	1,118.7	0.00	0.00	0.00	
13,600.0	90.00	179.65	12,367.0	-1,214.3	-204.3	1,218.7	0.00	0.00	0.00	
13,700.0	90.00	179.65	12,367.0	-1,314.3	-203.7	1,318.6	0.00	0.00	0.00	
13,800.0	90.00	179.65	12,367.0	-1,414.3	-203.1	1,418.6	0.00	0.00	0.00	
13,900.0	90.00	179.65	12,367.0	-1,514.3	-202.5	1,518.6	0.00	0.00	0.00	
14,000.0	90.00	179.65	12,367.0	-1,614.3	-201.9	1,618.5	0.00	0.00	0.00	
14,100.0	90.00	179.65	12,367.0	-1,714.3	-201.3	1,718.5	0.00	0.00	0.00	
14,200.0	90.00	179.65	12,367.0	-1,814.3	-200.7	1,818.4	0.00	0.00	0.00	
14,300.0	90.00	179.65	12,367.0	-1,914.3	-200.0	1,918.4	0.00	0.00	0.00	
14,400.0	90.00	179.65	12,367.0	-2,014.2	-199.4	2,018.3	0.00	0.00	0.00	
14,500.0	90.00	179.65	12,367.0	-2,114.2	-198.8	2,118.3	0.00	0.00	0.00	
14,600.0	90.00	179.65	12,367.0	-2,214.2	-198.2	2,218.3	0.00	0.00	0.00	
14,700.0	90.00	179.65	12,367.0	-2,314.2	-197.6	2,318.2	0.00	0.00	0.00	
14,800.0	90.00	179.65	12,367.0	-2,414.2	-197.0	2,418.2	0.00	0.00	0.00	
14,900.0	90.00	179.65	12,367.0	-2,514.2	-196.4	2,518.1	0.00	0.00	0.00	
15,000.0	90.00	179.65	12,367.0	-2,614.2	-195.8	2,618.1	0.00	0.00	0.00	
15,100.0	90.00	179.65	12,367.0	-2,714.2	-195.1	2,718.0	0.00	0.00	0.00	
15,200.0	90.00	179.65	12,367.0	-2,814.2	-194.5	2,818.0	0.00	0.00	0.00	
15,300.0	90.00	179.65	12,367.0	-2,914.2	-193.9	2,918.0	0.00	0.00	0.00	
15,400.0	90.00	179.65	12,367.0	-3,014.2	-193.3	3,017.9	0.00	0.00	0.00	
15,500.0	90.00	179.65	12,367.0	-3,114.2	-192.7	3,117.9	0.00	0.00	0.00	
15,600.0	90.00	179.65	12,367.0	-3,214.2	-192.1	3,217.8	0.00	0.00	0.00	
15,700.0	90.00	179.65	12,367.0	-3,314.2	-191.5	3,317.8	0.00	0.00	0.00	
15,800.0	90.00	179.65	12,367.0	-3,414.2	-190.9	3,417.7	0.00	0.00	0.00	
15,900.0	90.00	179.65	12,367.0	-3,514.2	-190.2	3,517.7	0.00	0.00	0.00	
16,000.0	90.00	179.65	12,367.0	-3,614.2	-189.6	3,617.6	0.00	0.00	0.00	
16,100.0	90.00	179.65	12,367.0	-3,714.2	-189.0	3,717.6	0.00	0.00	0.00	
16,200.0	90.00	179.65	12,367.0	-3,814.2	-188.4	3,817.6	0.00	0.00	0.00	
16,300.0	90.00	179.65	12,367.0	-3,914.2	-187.8	3,917.5	0.00	0.00	0.00	
16,400.0	90.00	179.65	12,367.0	-4,014.2	-187.2	4,017.5	0.00	0.00	0.00	
16,500.0	90.00	179.65	12,367.0	-4,114.2	-186.6	4,117.4	0.00	0.00	0.00	
16,600.0	90.00	179.65	12,367.0	-4,214.2	-186.0	4,217.4	0.00	0.00	0.00	
16,700.0	90.00	179.65	12,367.0	-4,314.2	-185.3	4,317.3	0.00	0.00	0.00	
16,800.0	90.00	179.65	12,367.0	-4,414.2	-184.7	4,417.3	0.00	0.00	0.00	
16,900.0	90.00	179.65	12,367.0	-4,514.2	-184.1	4,517.3	0.00	0.00	0.00	
17,000.0	90.00	179.65	12,367.0	-4,614.2	-183.5	4,617.2	0.00	0.00	0.00	
17,100.0	90.00	179.65	12,367.0	-4,714.2	-182.9	4,717.2	0.00	0.00	0.00	
17,200.0	90.00	179.65	12,367.0	-4,814.2	-182.3	4,817.1	0.00	0.00	0.00	
17,300.0	90.00	179.65	12,367.0	-4,914.2	-181.7	4,917.1	0.00	0.00	0.00	
17,400.0	90.00	179.65	12,367.0	-5,014.2	-181.1	5,017.0	0.00	0.00	0.00	
17,500.0	90.00	179.65	12,367.0	-5,114.2	-180.4	5,117.0	0.00	0.00	0.00	
17,600.0	90.00	179.65	12,367.0	-5,214.2	-179.8	5,217.0	0.00	0.00	0.00	
17,700.0	90.00	179.65	12,367.0	-5,314.2	-179.2	5,316.9	0.00	0.00	0.00	
17,800.0	90.00	179.65	12,367.0	-5,414.2	-178.6	5,416.9	0.00	0.00	0.00	
17,900.0	90.00	179.65	12,367.0	-5,514.2	-178.0	5,516.8	0.00	0.00	0.00	
18,000.0	90.00	179.65	12,367.0	-5,614.2	-177.4	5,616.8	0.00	0.00	0.00	
18,100.0	90.00	179.65	12,367.0	-5,714.2	-176.8	5,716.7	0.00	0.00	0.00	
18,200.0	90.00	179.65	12,367.0	-5,814.2	-176.2	5,816.7	0.00	0.00	0.00	
18,300.0	90.00	179.65	12,367.0	-5,914.2	-175.6	5,916.7	0.00	0.00	0.00	
18,400.0	90.00	179.65	12,367.0	-6,014.2	-174.9	6,016.6	0.00	0.00	0.00	
18,500.0	90.00	179.65	12,367.0	-6,114.2	-174.3	6,116.6	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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)	
18,600.0	90.00	179.65	12,367.0	-6,214.2	-173.7	6,216.5	0.00	0.00	0.00	
18,700.0	90.00	179.65	12,367.0	-6,314.2	-173.1	6,316.5	0.00	0.00	0.00	
18,800.0	90.00	179.65	12,367.0	-6,414.2	-172.5	6,416.4	0.00	0.00	0.00	
18,900.0	90.00	179.65	12,367.0	-6,514.2	-171.9	6,516.4	0.00	0.00	0.00	
19,000.0	90.00	179.65	12,367.0	-6,614.2	-171.3	6,616.4	0.00	0.00	0.00	
19,100.0	90.00	179.65	12,367.0	-6,714.2	-170.7	6,716.3	0.00	0.00	0.00	
19,200.0	90.00	179.65	12,367.0	-6,814.2	-170.0	6,816.3	0.00	0.00	0.00	
19,300.0	90.00	179.65	12,367.0	-6,914.2	-169.4	6,916.2	0.00	0.00	0.00	
19,400.0	90.00	179.65	12,367.0	-7,014.2	-168.8	7,016.2	0.00	0.00	0.00	
19,500.0	90.00	179.65	12,367.0	-7,114.2	-168.2	7,116.1	0.00	0.00	0.00	
19,600.4	90.00	179.65	12,367.0	-7,214.6	-167.6	7,216.5	0.00	0.00	0.00	

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (ZIA HILLS UNIT : - plan hits target center - Rectangle (sides W100.0 H7,400.0 D20.0)	0.00	359.65	12,367.0	-7,214.6	-167.6	364,503.46	714,106.78	32° 0' 0.913 N	103° 38' 33.576 W
LTP (ZIA HILLS UNIT 26 - plan misses target center by 0.1usft at 19550.4usft MD (12367.0 TVD, -7164.6 N, -167.9 E) - Circle (radius 50.0)	90.00	179.67	12,367.0	-7,164.6	-167.8	364,553.46	714,106.56	32° 0' 1.407 N	103° 38' 33.575 W
FTP (ZIA HILLS UNIT 26 - plan misses target center by 163.4usft at 12313.1usft MD (12245.4 TVD, 42.5 N, -212.0 E) - Circle (radius 50.0)	0.00	0.00	12,367.0	151.6	-213.4	371,869.59	714,060.94	32° 1' 13.811 N	103° 38' 33.561 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
19,600.5	12,367.0	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 710H

OWB

PWP0

Anticollision Report

18 July, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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)	Tool Name	Description
0.0	19,600.4	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary						
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Site Name Offset Well - Wellbore - Design						
RED HILLS WEST						
SD WE 23 FED P25 #3H - OWB - AWP	8,440.6	8,508.9	137.1	100.2	3.719 CC, ES	
SD WE 23 FED P25 #3H - OWB - AWP	8,500.0	8,560.0	139.0	101.6	3.717 SF	
SD WE 23 FED P25 #6H - OWB - AWP	6,264.5	6,280.7	841.2	815.1	32.252 CC	
SD WE 23 FED P25 #6H - OWB - AWP	7,900.0	7,913.7	841.4	811.7	28.321 ES	
SD WE 23 FED P25 #6H - OWB - AWP	8,500.0	8,472.7	848.0	817.2	27.512 SF	
SD WE 23 FEDERAL P25 6H - OWB - AWP	6,274.6	6,275.7	992.2	965.8	37.581 CC	
SD WE 23 FEDERAL P25 6H - OWB - AWP	7,900.0	7,898.7	992.4	962.4	33.109 ES	
SD WE 23 FEDERAL P25 6H - OWB - AWP	8,500.0	8,457.6	998.1	967.1	32.134 SF	
SD WE 23 FEDERAL P25 7H - OWB - AWP	8,500.0	8,564.8	186.2	138.5	3.908 SF	
SD WE 23 FEDERAL P25 7H - OWB - AWP	8,577.6	8,631.4	183.3	136.4	3.909 CC, ES	
STATE LINE OFFSETS						
APOLLO 7 #6H - OWB - AWP	19,600.4	11,978.0	692.0	602.7	7.754 CC, ES, SF	
APOLLO 7 #8H - OWB - AWP	19,600.4	12,005.0	688.9	599.3	7.692 CC, ES, SF	
APOLLO 7 #9H - OWB - AWP	19,600.4	12,016.0	973.4	871.0	9.507 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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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						Out of range
_ZIA HILLS UNIT 2632 WC 706H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2632 WC 707H - OWB - PWP0	1,100.0	1,100.0	30.1	21.5	3.512 CC	
_ZIA HILLS UNIT 2632 WC 707H - OWB - PWP0	1,300.0	1,298.4	30.4	20.8	3.179 ES	
_ZIA HILLS UNIT 2632 WC 707H - OWB - PWP0	1,400.0	1,397.5	30.8	20.9	3.113 SF	
_ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0	1,100.0	1,100.0	59.8	51.3	6.977 CC	
_ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0	1,200.0	1,198.0	60.3	51.2	6.618 ES	
_ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0	19,600.4	19,681.5	856.0	709.6	5.848 SF	
_ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0	1,100.0	1,100.0	29.9	21.3	3.485 CC, ES	
_ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0	19,600.4	19,416.5	465.5	324.8	3.310 SF	
_ZIA HILLS UNIT 2632 WC 711H - OWB - PWP0	1,100.0	1,100.0	89.9	81.3	10.481 CC, ES	
_ZIA HILLS UNIT 2632 WC 711H - OWB - PWP0	1,200.0	1,196.9	92.8	83.7	10.193 SF	
_ZIA HILLS UNIT 2632 WC 712H - OWB - PWP0	1,100.0	1,100.0	59.9	51.3	6.983 CC, ES	
_ZIA HILLS UNIT 2632 WC 712H - OWB - PWP0	19,600.4	19,626.8	856.0	711.3	5.914 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		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)				
1,800.0	1,794.3	1,948.2	1,945.7	6.3	8.8	-16.95	496.4	-922.0	978.7	963.5	15.18	64.461			
1,900.0	1,892.8	2,050.8	2,047.3	6.7	9.1	-17.07	493.6	-908.8	949.4	933.6	15.78	60.165			
2,000.0	1,991.2	2,150.6	2,146.2	7.0	9.4	-17.21	490.3	-895.6	919.6	903.2	16.40	56.086			
2,100.0	2,089.6	2,250.3	2,244.9	7.3	9.8	-17.37	486.7	-882.2	889.3	872.3	17.03	52.213			
2,200.0	2,188.0	2,350.8	2,344.4	7.7	10.1	-17.54	482.9	-868.0	858.5	840.8	17.69	48.533			
2,300.0	2,286.5	2,450.1	2,442.5	8.1	10.5	-17.69	479.2	-853.3	827.2	808.8	18.36	45.053			
2,400.0	2,384.9	2,547.7	2,538.9	8.4	10.8	-17.84	475.6	-838.4	795.4	776.4	19.04	41.771			
2,505.5	2,488.7	2,652.2	2,642.0	8.8	11.2	-18.01	471.5	-822.2	761.5	741.8	19.78	38.493			
2,600.0	2,581.9	2,750.8	2,739.2	9.2	11.6	-18.06	467.3	-806.0	731.1	710.6	20.45	35.751			
2,700.0	2,680.7	2,845.2	2,832.2	9.6	12.0	-18.06	463.1	-789.9	699.8	678.6	21.16	33.067			
2,800.0	2,779.8	2,942.0	2,927.5	10.0	12.4	-17.99	459.2	-773.2	670.0	648.1	21.88	30.624			
2,900.0	2,879.1	3,040.2	3,024.0	10.4	12.8	-17.87	455.1	-755.9	641.5	618.9	22.60	28.387			
3,000.0	2,978.6	3,134.9	3,117.1	10.7	13.2	-17.67	451.5	-739.1	614.6	591.3	23.32	26.355			
3,100.0	3,078.3	3,232.2	3,212.8	11.1	13.6	-17.36	448.4	-721.9	589.5	565.5	24.04	24.528			
3,200.0	3,178.1	3,333.9	3,312.7	11.4	14.0	-16.89	445.5	-702.9	565.5	540.8	24.74	22.862			
3,300.0	3,278.0	3,431.9	3,408.8	11.7	14.4	-16.30	442.9	-684.0	542.6	517.2	25.43	21.335			

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
3,400.0	3,377.9	3,523.1	3,498.4	12.0	14.8	-15.69	440.5	-666.8	521.8	495.7	26.13	19.974		
3,500.0	3,477.9	3,613.5	3,587.4	12.3	15.2	-15.07	438.3	-651.3	504.3	477.5	26.77	18.837		
3,522.1	3,500.0	3,633.6	3,607.3	12.3	15.3	-61.50	437.8	-648.0	500.9	474.0	26.89	18.629		
3,600.0	3,577.9	3,707.4	3,680.1	12.4	15.6	-61.01	436.2	-636.4	489.3	462.0	27.26	17.948		
3,700.0	3,677.9	3,802.7	3,774.3	12.4	16.0	-60.37	434.3	-622.1	475.1	447.4	27.74	17.126		
3,800.0	3,777.9	3,897.6	3,868.2	12.5	16.3	-59.71	432.6	-608.5	461.8	433.6	28.22	16.367		
3,900.0	3,877.9	4,000.1	3,969.6	12.6	16.8	-58.96	430.8	-593.9	448.7	420.0	28.68	15.646		
4,000.0	3,977.9	4,100.8	4,069.3	12.7	17.2	-58.19	428.7	-579.1	435.1	405.9	29.14	14.930		
4,100.0	4,077.9	4,206.4	4,173.5	12.7	17.6	-57.33	425.9	-562.8	420.6	391.0	29.59	14.211		
4,200.0	4,177.9	4,310.6	4,276.2	12.8	18.1	-56.46	421.9	-545.3	404.4	374.3	30.05	13.454		
4,300.0	4,277.9	4,408.9	4,372.9	12.9	18.5	-55.51	418.1	-528.2	387.7	357.2	30.53	12.701		
4,400.0	4,377.9	4,505.9	4,468.3	13.0	18.9	-54.43	414.9	-511.3	371.4	340.5	30.98	11.990		
4,500.0	4,477.9	4,601.4	4,562.4	13.0	19.4	-53.28	412.0	-495.1	355.9	324.4	31.49	11.303		
4,600.0	4,577.9	4,697.0	4,656.8	13.1	19.9	-52.08	409.4	-479.7	341.4	309.4	31.99	10.672		
4,700.0	4,677.9	4,794.3	4,752.8	13.2	20.3	-50.76	407.0	-464.5	327.7	295.3	32.45	10.098		
4,800.0	4,777.9	4,891.5	4,848.9	13.3	20.8	-49.32	405.0	-449.7	314.6	281.8	32.88	9.569		
4,900.0	4,877.9	4,988.3	4,944.5	13.3	21.3	-47.77	403.4	-435.4	302.4	269.1	33.27	9.090		
5,000.0	4,977.9	5,085.4	5,040.7	13.4	21.7	-46.11	402.2	-421.5	291.1	257.5	33.61	8.661		
5,100.0	5,077.9	5,183.1	5,137.4	13.5	22.2	-44.34	401.2	-408.1	280.6	246.6	33.91	8.274		
5,200.0	5,177.9	5,282.4	5,235.8	13.6	22.7	-42.42	400.4	-394.7	270.6	236.5	34.16	7.922		
5,300.0	5,277.9	5,382.6	5,335.1	13.6	23.1	-40.33	399.3	-380.8	260.6	226.3	34.36	7.586		
5,400.0	5,377.9	5,482.4	5,433.9	13.7	23.6	-38.16	397.7	-367.1	250.6	216.1	34.53	7.259		
5,500.0	5,477.9	5,582.1	5,532.7	13.8	24.0	-36.16	395.0	-354.3	240.7	206.0	34.70	6.938		
5,600.0	5,577.9	5,679.4	5,629.3	13.9	24.5	-34.28	392.0	-342.8	231.4	196.5	34.86	6.638		
5,700.0	5,677.9	5,777.1	5,726.4	13.9	24.9	-32.40	389.4	-332.2	223.1	188.1	34.99	6.376		
5,800.0	5,777.9	5,875.3	5,824.0	14.0	25.3	-30.41	387.2	-321.9	215.7	180.6	35.07	6.150		
5,900.0	5,877.9	5,975.7	5,923.9	14.1	25.8	-28.22	385.2	-311.5	208.9	173.8	35.10	5.951		
6,000.0	5,977.9	6,078.8	6,026.2	14.2	26.2	-25.68	382.1	-299.8	201.0	165.9	35.05	5.734		
6,100.0	6,077.9	6,178.2	6,124.8	14.2	26.7	-22.88	378.2	-287.5	192.3	157.4	34.93	5.504		
6,200.0	6,177.9	6,276.2	6,222.0	14.3	27.1	-19.81	374.9	-275.4	184.6	149.9	34.74	5.314		
6,300.0	6,277.9	6,374.3	6,319.4	14.4	27.6	-16.56	372.1	-263.7	178.1	143.7	34.49	5.166		
6,400.0	6,377.9	6,472.7	6,417.2	14.5	28.0	-13.34	369.6	-252.8	172.8	138.6	34.24	5.048		
6,500.0	6,477.9	6,571.6	6,515.5	14.5	28.4	-10.22	367.3	-242.9	168.5	134.5	34.01	4.955		
6,600.0	6,577.9	6,670.8	6,614.3	14.6	28.8	-7.26	365.2	-233.8	165.0	131.2	33.81	4.880		
6,700.0	6,677.9	6,770.2	6,713.3	14.7	29.2	-4.39	363.1	-225.4	162.0	128.4	33.59	4.823		
6,800.0	6,777.9	6,869.5	6,812.3	14.8	29.6	-1.64	361.1	-217.6	159.6	126.2	33.47	4.770		
6,900.0	6,877.9	6,968.9	6,911.4	14.8	30.0	1.01	359.4	-210.2	157.8	124.4	33.43	4.720		
7,000.0	6,977.9	7,068.6	7,010.8	14.9	30.4	3.54	357.7	-203.3	156.4	123.0	33.46	4.676		
7,100.0	7,077.9	7,168.5	7,110.5	15.0	30.8	5.87	356.1	-197.1	155.3	121.8	33.55	4.630		
7,200.0	7,177.9	7,268.4	7,210.2	15.1	31.1	7.94	354.5	-191.7	154.4	120.7	33.69	4.584		
7,300.0	7,277.9	7,368.4	7,310.1	15.2	31.5	9.71	353.0	-187.1	153.6	119.8	33.87	4.535		
7,400.0	7,377.9	7,468.4	7,410.1	15.2	31.9	11.34	351.5	-182.9	152.9	118.8	34.08	4.486		
7,500.0	7,477.9	7,568.7	7,510.2	15.3	32.2	12.89	349.9	-179.1	152.1	117.8	34.31	4.433		
7,600.0	7,577.9	7,669.2	7,610.7	15.4	32.5	14.26	348.1	-175.8	151.1	116.6	34.56	4.374		
7,700.0	7,677.9	7,769.2	7,710.6	15.5	32.9	15.45	346.1	-173.1	150.0	115.1	34.81	4.308		
7,800.0	7,777.9	7,869.0	7,810.3	15.5	33.2	16.60	344.3	-170.5	148.9	113.9	35.06	4.247		
7,900.0	7,877.9	7,969.0	7,910.3	15.6	33.5	17.67	342.6	-168.1	148.0	112.7	35.32	4.190		
8,000.0	7,977.9	8,069.1	8,010.3	15.7	33.8	18.59	341.0	-166.1	147.1	111.5	35.58	4.134		
8,100.0	8,077.9	8,169.4	8,110.7	15.8	34.0	19.41	339.3	-164.5	146.0	110.2	35.82	4.076		
8,200.0	8,177.9	8,269.8	8,211.0	15.8	34.3	20.17	337.4	-163.1	144.7	108.6	36.02	4.016		
8,300.0	8,277.9	8,372.9	8,314.1	15.9	34.5	21.35	334.3	-161.1	142.6	106.4	36.18	3.942		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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		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)				
8,400.0	8,377.9	8,473.4	8,414.2	16.0	34.8	24.39	327.2	-156.0	138.0	101.4	36.58	3.773		
8,440.6	8,418.5	8,508.9	8,449.5	16.0	34.9	25.59	325.3	-153.8	137.1	100.2	36.86	3.719 CC, ES		
8,500.0	8,477.9	8,560.0	8,500.4	16.1	35.1	27.73	324.4	-148.4	139.0	101.6	37.40	3.717 SF		
8,600.0	8,577.9	8,646.9	8,586.3	16.2	35.4	31.25	328.1	-136.2	149.7	111.3	38.40	3.898		
8,700.0	8,677.9	8,725.2	8,662.7	16.2	35.6	32.60	340.3	-124.3	171.0	132.0	38.94	4.390		
8,800.0	8,777.9	8,803.7	8,737.1	16.3	35.7	31.61	362.6	-113.9	202.3	163.4	38.88	5.204		
8,900.0	8,877.9	8,874.0	8,801.0	16.4	35.7	29.19	390.9	-107.2	242.3	203.9	38.38	6.313		
9,000.0	8,977.9	8,944.6	8,862.2	16.5	35.7	26.25	425.9	-102.4	290.0	252.1	37.87	7.657		
9,100.0	9,077.9	9,015.0	8,920.1	16.5	35.7	22.79	465.8	-102.0	343.2	305.8	37.39	9.180		
9,200.0	9,177.9	9,075.5	8,968.4	16.6	35.7	20.34	502.2	-101.6	400.8	363.7	37.07	10.810		
9,300.0	9,277.9	9,120.8	9,002.9	16.7	35.7	18.63	531.6	-101.7	463.6	426.7	36.85	12.581		
9,400.0	9,377.9	9,147.0	9,021.4	16.8	35.7	17.62	550.1	-102.3	532.8	496.1	36.66	14.534		
9,500.0	9,477.9	9,192.0	9,050.4	16.9	35.7	15.90	584.5	-104.0	607.2	570.6	36.67	16.557		
9,600.0	9,577.9	9,192.0	9,050.4	16.9	35.7	15.90	584.5	-104.0	685.9	649.3	36.59	18.748		
9,700.0	9,677.9	9,236.0	9,074.8	17.0	35.8	14.26	621.0	-106.4	767.7	730.9	36.77	20.875		
9,800.0	9,777.9	9,236.0	9,074.8	17.1	35.8	14.26	621.0	-106.4	852.1	815.3	36.85	23.127		
9,900.0	9,877.9	9,256.2	9,084.5	17.2	35.8	13.53	638.6	-107.9	938.9	901.9	37.05	25.346		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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
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)				
2,300.0	2,286.5	2,327.9	2,322.9	8.1	7.7	-26.03	416.2	-1,061.1	986.9	971.6	15.35	64.313		
2,400.0	2,384.9	2,425.9	2,420.4	8.4	7.9	-27.06	406.7	-1,063.4	970.5	954.7	15.79	61.464		
2,505.5	2,488.7	2,528.1	2,522.1	8.8	8.2	-28.18	396.8	-1,065.8	953.5	937.2	16.27	58.594		
2,600.0	2,581.9	2,627.3	2,620.7	9.2	8.4	-29.22	386.9	-1,068.0	939.0	922.3	16.69	56.262		
2,700.0	2,680.7	2,734.8	2,727.8	9.6	8.7	-30.26	376.8	-1,068.9	924.4	907.2	17.12	53.992		
2,800.0	2,779.8	2,824.0	2,816.6	10.0	8.9	-31.05	369.3	-1,069.4	911.4	893.8	17.55	51.924		
2,900.0	2,879.1	2,913.9	2,906.4	10.4	9.2	-31.67	364.1	-1,070.3	901.2	883.2	17.98	50.117		
3,000.0	2,978.6	3,008.0	3,000.3	10.7	9.4	-32.25	359.6	-1,071.9	893.3	874.9	18.41	48.526		
3,100.0	3,078.3	3,118.8	3,111.0	11.1	9.7	-32.85	354.9	-1,073.2	886.8	868.0	18.81	47.149		
3,200.0	3,178.1	3,232.7	3,224.9	11.4	9.9	-33.24	352.1	-1,072.5	880.3	861.1	19.14	45.983		
3,300.0	3,278.0	3,343.2	3,335.4	11.7	10.0	-33.50	350.1	-1,069.9	873.7	854.3	19.43	44.965		
3,400.0	3,377.9	3,433.1	3,425.2	12.0	10.0	-33.60	349.1	-1,067.4	868.3	848.6	19.74	43.989		
3,500.0	3,477.9	3,523.0	3,515.1	12.3	10.0	-33.60	349.4	-1,066.3	866.0	846.0	20.01	43.271		
3,522.1	3,500.0	3,543.7	3,535.8	12.3	10.0	-80.16	349.5	-1,066.1	865.8	845.8	20.04	43.201		
3,600.0	3,577.9	3,622.8	3,614.9	12.4	9.9	-80.09	350.5	-1,065.3	865.3	845.2	20.13	42.991		
3,700.0	3,677.9	3,722.2	3,714.3	12.4	9.8	-79.97	352.1	-1,064.3	864.5	844.2	20.26	42.675		
3,800.0	3,777.9	3,821.3	3,813.4	12.5	9.7	-79.85	353.8	-1,063.3	863.8	843.4	20.39	42.363		
3,900.0	3,877.9	3,923.2	3,915.2	12.6	9.6	-79.71	355.8	-1,062.2	863.1	842.6	20.52	42.055		
4,000.0	3,977.9	4,027.1	4,019.1	12.7	9.6	-79.56	357.7	-1,060.6	861.9	841.3	20.65	41.736		
4,100.0	4,077.9	4,131.0	4,123.0	12.7	9.5	-79.43	359.5	-1,058.8	860.6	839.8	20.78	41.413		
4,200.0	4,177.9	4,239.8	4,231.8	12.8	9.5	-79.33	360.5	-1,056.1	858.3	837.4	20.90	41.061		
4,300.0	4,277.9	4,338.3	4,330.3	12.9	9.5	-79.31	360.3	-1,053.4	855.5	834.5	21.04	40.653		
4,400.0	4,377.9	4,434.0	4,425.9	13.0	9.6	-79.29	360.2	-1,051.2	853.3	832.1	21.20	40.255		
4,500.0	4,477.9	4,531.1	4,523.0	13.0	9.8	-79.26	360.2	-1,049.4	851.4	830.0	21.47	39.656		
4,600.0	4,577.9	4,630.0	4,621.8	13.1	9.9	-79.24	360.1	-1,047.7	849.7	828.0	21.74	39.087		
4,700.0	4,677.9	4,728.3	4,720.2	13.2	10.1	-79.23	360.1	-1,046.1	848.2	826.2	22.02	38.511		
4,800.0	4,777.9	4,827.1	4,819.0	13.3	10.3	-79.19	360.3	-1,044.7	846.8	824.5	22.31	37.953		
4,900.0	4,877.9	4,926.6	4,918.4	13.3	10.5	-79.15	360.7	-1,043.4	845.6	823.0	22.60	37.417		
5,000.0	4,977.9	5,024.8	5,016.6	13.4	10.7	-79.10	361.3	-1,042.1	844.4	821.5	22.88	36.905		
5,100.0	5,077.9	5,122.5	5,114.3	13.5	10.9	-79.05	361.9	-1,041.1	843.5	820.3	23.16	36.421		
5,200.0	5,177.9	5,221.8	5,213.6	13.6	11.0	-78.99	362.5	-1,040.3	842.8	819.4	23.44	35.961		
5,300.0	5,277.9	5,321.3	5,313.1	13.6	11.2	-78.93	363.3	-1,039.5	842.2	818.4	23.71	35.513		
5,400.0	5,377.9	5,419.0	5,410.8	13.7	11.3	-78.87	364.1	-1,038.8	841.7	817.7	23.98	35.106		
5,500.0	5,477.9	5,517.2	5,508.9	13.8	11.5	-78.81	364.9	-1,038.5	841.5	817.2	24.23	34.722		
5,600.0	5,577.9	5,616.7	5,608.5	13.9	11.6	-78.76	365.6	-1,038.2	841.4	816.9	24.48	34.365		
5,680.1	5,658.0	5,696.2	5,688.0	13.9	11.7	-78.73	366.1	-1,038.1	841.3	816.7	24.68	34.091		
5,700.0	5,677.9	5,715.9	5,707.7	13.9	11.7	-78.72	366.2	-1,038.1	841.3	816.6	24.73	34.026		
5,800.0	5,777.9	5,814.6	5,806.4	14.0	11.9	-78.68	366.8	-1,038.1	841.5	816.5	24.96	33.709		
5,900.0	5,877.9	5,915.6	5,907.4	14.1	12.0	-78.64	367.4	-1,038.1	841.6	816.4	25.20	33.396		
6,000.0	5,977.9	6,017.8	6,009.5	14.2	12.1	-78.59	368.0	-1,037.9	841.6	816.1	25.44	33.078		
6,100.0	6,077.9	6,117.6	6,109.3	14.2	12.3	-78.55	368.6	-1,037.6	841.4	815.7	25.69	32.754		
6,200.0	6,177.9	6,217.1	6,208.8	14.3	12.5	-78.50	369.3	-1,037.4	841.2	815.3	25.93	32.439		
6,264.5	6,242.4	6,280.7	6,272.4	14.4	12.5	-78.48	369.6	-1,037.3	841.2	815.1	26.08	32.252 CC		
6,300.0	6,277.9	6,315.7	6,307.4	14.4	12.6	-78.47	369.8	-1,037.2	841.2	815.0	26.16	32.151		
6,400.0	6,377.9	6,415.2	6,406.9	14.5	12.7	-78.44	370.3	-1,037.3	841.3	814.9	26.39	31.875		
6,500.0	6,477.9	6,516.0	6,507.8	14.5	12.9	-78.41	370.6	-1,037.3	841.4	814.8	26.62	31.604		
6,600.0	6,577.9	6,616.2	6,607.9	14.6	13.0	-78.40	370.8	-1,037.2	841.4	814.5	26.85	31.338		
6,604.4	6,582.4	6,620.6	6,612.4	14.6	13.0	-78.40	370.8	-1,037.2	841.4	814.5	26.86	31.326		
6,700.0	6,677.9	6,715.9	6,707.6	14.7	13.2	-78.40	370.8	-1,037.2	841.4	814.3	27.07	31.081		
6,800.0	6,777.9	6,816.3	6,808.0	14.8	13.3	-78.41	370.6	-1,037.3	841.4	814.1	27.30	30.821		
6,900.0	6,877.9	6,916.6	6,908.4	14.8	13.5	-78.41	370.6	-1,037.2	841.4	813.9	27.53	30.562		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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		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)			
6,939.6	6,917.6	6,955.8	6,947.6	14.9	13.5	-78.41	370.6	-1,037.2	841.4	813.8	27.62	30.465	
7,000.0	6,977.9	7,015.5	7,007.2	14.9	13.6	-78.42	370.5	-1,037.3	841.4	813.7	27.75	30.320	
7,100.0	7,077.9	7,115.0	7,106.8	15.0	13.8	-78.43	370.4	-1,037.4	841.5	813.6	27.97	30.086	
7,200.0	7,177.9	7,216.2	7,208.0	15.1	13.9	-78.44	370.3	-1,037.5	841.6	813.4	28.19	29.854	
7,300.0	7,277.9	7,317.0	7,308.7	15.2	14.1	-78.44	370.2	-1,037.5	841.5	813.1	28.42	29.613	
7,400.0	7,377.9	7,417.4	7,409.1	15.2	14.2	-78.46	369.9	-1,037.4	841.4	812.8	28.65	29.369	
7,500.0	7,477.9	7,516.8	7,508.6	15.3	14.4	-78.49	369.5	-1,037.4	841.3	812.4	28.87	29.141	
7,584.0	7,561.9	7,600.2	7,591.9	15.4	14.5	-78.52	369.0	-1,037.4	841.3	812.2	29.05	28.956	
7,600.0	7,577.9	7,616.1	7,607.8	15.4	14.6	-78.52	369.0	-1,037.5	841.3	812.2	29.09	28.922	
7,700.0	7,677.9	7,716.4	7,708.1	15.5	14.7	-78.56	368.4	-1,037.6	841.3	812.0	29.30	28.712	
7,791.8	7,769.7	7,807.9	7,799.7	15.5	14.8	-78.60	367.9	-1,037.6	841.2	811.8	29.49	28.524	
7,800.0	7,777.9	7,816.0	7,807.7	15.5	14.9	-78.60	367.9	-1,037.7	841.2	811.7	29.51	28.508	
7,900.0	7,877.9	7,913.7	7,905.4	15.6	15.0	-78.64	367.3	-1,037.9	841.4	811.7	29.71	28.321 ES	
8,000.0	7,977.9	8,011.9	8,003.6	15.7	15.1	-78.68	366.9	-1,038.4	841.8	811.9	29.91	28.150	
8,100.0	8,077.9	8,110.8	8,102.5	15.8	15.3	-78.73	366.3	-1,039.1	842.4	812.3	30.09	27.993	
8,200.0	8,177.9	8,209.9	8,201.6	15.8	15.4	-78.79	365.5	-1,040.0	843.1	812.8	30.28	27.844	
8,300.0	8,277.9	8,309.1	8,300.8	15.9	15.5	-78.84	364.9	-1,040.9	843.9	813.4	30.47	27.699	
8,400.0	8,377.9	8,406.0	8,397.7	16.0	15.5	-78.81	365.5	-1,041.7	844.9	814.3	30.61	27.602	
8,500.0	8,477.9	8,472.7	8,464.1	16.1	16.2	-78.41	371.7	-1,042.6	848.0	817.2	30.82	27.512 SF	
8,600.0	8,577.9	8,532.0	8,521.8	16.2	16.4	-77.56	384.9	-1,044.1	855.4	824.4	31.00	27.597	
8,700.0	8,677.9	8,588.3	8,574.7	16.2	16.4	-76.34	404.1	-1,046.4	867.9	836.7	31.16	27.850	
8,800.0	8,777.9	8,632.2	8,613.5	16.3	16.5	-75.09	424.2	-1,048.8	886.5	855.2	31.35	28.282	
8,900.0	8,877.9	8,678.9	8,652.5	16.4	16.5	-73.52	449.9	-1,052.2	911.7	880.2	31.55	28.900	
9,000.0	8,977.9	8,740.9	8,702.0	16.5	16.5	-71.33	486.7	-1,057.0	941.9	910.1	31.79	29.632	
9,100.0	9,077.9	8,780.5	8,731.6	16.5	16.5	-69.81	512.9	-1,059.5	977.3	945.3	32.03	30.516	

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)	
4,700.0	4,677.9	4,715.7	4,707.5	13.2	10.5	-78.30	404.2	-1,191.4	999.3	976.9	22.38	44.646		
4,800.0	4,777.9	4,814.1	4,805.9	13.3	10.7	-78.28	404.3	-1,190.0	997.9	975.2	22.67	44.027		
4,900.0	4,877.9	4,913.4	4,905.2	13.3	10.8	-78.24	404.7	-1,188.6	996.6	973.7	22.95	43.433		
5,000.0	4,977.9	5,011.6	5,003.4	13.4	11.0	-78.20	405.2	-1,187.3	995.5	972.2	23.22	42.862		
5,100.0	5,077.9	5,108.9	5,100.7	13.5	11.2	-78.15	405.8	-1,186.3	994.5	971.0	23.50	42.324		
5,200.0	5,177.9	5,207.8	5,199.6	13.6	11.3	-78.10	406.5	-1,185.5	993.8	970.1	23.77	41.809		
5,300.0	5,277.9	5,307.3	5,299.1	13.6	11.5	-78.05	407.2	-1,184.7	993.2	969.1	24.04	41.307		
5,400.0	5,377.9	5,404.8	5,396.5	13.7	11.6	-78.00	408.0	-1,184.0	992.7	968.4	24.30	40.848		
5,500.0	5,477.9	5,502.3	5,494.1	13.8	11.8	-77.95	408.8	-1,183.6	992.5	967.9	24.56	40.413		
5,600.0	5,577.9	5,601.8	5,593.6	13.9	11.9	-77.91	409.5	-1,183.4	992.4	967.6	24.80	40.010		
5,689.2	5,667.1	5,690.3	5,682.1	13.9	12.0	-77.87	410.1	-1,183.2	992.3	967.3	25.02	39.664		
5,700.0	5,677.9	5,701.0	5,692.8	13.9	12.0	-77.87	410.1	-1,183.2	992.3	967.3	25.04	39.624		
5,800.0	5,777.9	5,799.4	5,791.2	14.0	12.1	-77.83	410.7	-1,183.1	992.4	967.2	25.28	39.264		
5,900.0	5,877.9	5,900.0	5,891.8	14.1	12.3	-77.80	411.4	-1,183.2	992.6	967.1	25.51	38.910		
6,000.0	5,977.9	6,002.6	5,994.3	14.2	12.4	-77.76	412.0	-1,183.1	992.6	966.9	25.75	38.551		
6,100.0	6,077.9	6,102.8	6,094.5	14.2	12.6	-77.73	412.6	-1,182.7	992.4	966.4	25.99	38.185		
6,200.0	6,177.9	6,202.3	6,194.1	14.3	12.7	-77.69	413.2	-1,182.5	992.3	966.1	26.23	37.826		
6,274.6	6,252.5	6,275.7	6,267.5	14.4	12.8	-77.66	413.6	-1,182.3	992.2	965.8	26.40	37.581 CC		
6,300.0	6,277.9	6,300.8	6,292.5	14.4	12.9	-77.65	413.8	-1,182.3	992.3	965.8	26.46	37.499		
6,400.0	6,377.9	6,399.8	6,391.5	14.5	13.0	-77.63	414.2	-1,182.3	992.4	965.7	26.69	37.183		
6,500.0	6,477.9	6,500.8	6,492.6	14.5	13.1	-77.61	414.6	-1,182.3	992.5	965.5	26.92	36.874		
6,600.0	6,577.9	6,601.2	6,593.0	14.6	13.3	-77.60	414.8	-1,182.3	992.5	965.3	27.14	36.570		
6,611.7	6,589.6	6,612.8	6,604.6	14.6	13.3	-77.60	414.8	-1,182.3	992.5	965.3	27.16	36.535		
6,700.0	6,677.9	6,700.9	6,692.6	14.7	13.4	-77.59	414.8	-1,182.3	992.5	965.1	27.36	36.276		
6,800.0	6,777.9	6,801.2	6,793.0	14.8	13.6	-77.60	414.7	-1,182.3	992.5	964.9	27.58	35.980		
6,900.0	6,877.9	6,901.8	6,893.6	14.8	13.7	-77.60	414.6	-1,182.3	992.5	964.6	27.81	35.685		
6,955.2	6,933.1	6,956.3	6,948.1	14.9	13.8	-77.61	414.6	-1,182.3	992.4	964.5	27.93	35.530		
7,000.0	6,977.9	7,000.5	6,992.3	14.9	13.9	-77.61	414.6	-1,182.3	992.4	964.4	28.03	35.406		
7,100.0	7,077.9	7,099.6	7,091.4	15.0	14.0	-77.62	414.5	-1,182.5	992.6	964.3	28.25	35.138		
7,200.0	7,177.9	7,201.0	7,192.8	15.1	14.2	-77.62	414.4	-1,182.6	992.7	964.2	28.47	34.872		
7,300.0	7,277.9	7,302.1	7,293.8	15.2	14.3	-77.63	414.3	-1,182.6	992.6	963.9	28.69	34.600		
7,400.0	7,377.9	7,402.6	7,394.3	15.2	14.5	-77.64	414.0	-1,182.5	992.5	963.6	28.92	34.321		
7,500.0	7,477.9	7,502.1	7,493.9	15.3	14.6	-77.67	413.6	-1,182.5	992.4	963.2	29.14	34.056		
7,600.0	7,577.9	7,601.2	7,593.0	15.4	14.8	-77.70	413.1	-1,182.5	992.3	963.0	29.35	33.805		
7,700.0	7,677.9	7,701.4	7,693.2	15.5	14.9	-77.73	412.5	-1,182.6	992.3	962.7	29.57	33.563		
7,800.0	7,777.9	7,801.4	7,793.2	15.5	15.1	-77.76	412.0	-1,182.7	992.3	962.5	29.77	33.327		
7,809.8	7,787.7	7,811.0	7,802.7	15.5	15.1	-77.76	411.9	-1,182.7	992.3	962.5	29.79	33.305		
7,900.0	7,877.9	7,898.7	7,890.5	15.6	15.2	-77.79	411.4	-1,182.9	992.4	962.4	29.97	33.109 ES		
8,000.0	7,977.9	7,996.4	7,988.1	15.7	15.3	-77.82	411.0	-1,183.4	992.8	962.6	30.17	32.907		
8,100.0	8,077.9	8,095.1	8,086.9	15.8	15.5	-77.87	410.4	-1,184.1	993.3	962.9	30.35	32.724		
8,200.0	8,177.9	8,194.0	8,185.8	15.8	15.6	-77.92	409.7	-1,184.9	994.0	963.4	30.54	32.547		
8,300.0	8,277.9	8,293.1	8,284.8	15.9	15.7	-77.96	409.0	-1,185.8	994.7	964.0	30.72	32.376		
8,400.0	8,377.9	8,390.5	8,382.2	16.0	15.8	-77.96	409.2	-1,186.7	995.7	964.8	30.87	32.251		
8,500.0	8,477.9	8,457.6	8,449.1	16.1	16.2	-77.73	413.5	-1,187.4	998.1	967.1	31.06	32.134 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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,300.0	2,286.5	2,460.7	2,453.5	8.1	12.1	-20.00	516.0	-1,011.8	988.2	967.8	20.41	48.416	
2,400.0	2,384.9	2,558.7	2,550.3	8.4	12.4	-20.20	512.3	-996.8	956.6	935.5	21.01	45.526	
2,505.5	2,488.7	2,664.5	2,654.8	8.8	12.8	-20.44	508.1	-980.2	922.7	901.0	21.67	42.583	
2,600.0	2,581.9	2,764.4	2,753.2	9.2	13.1	-20.54	503.8	-963.7	892.2	869.9	22.26	40.074	
2,700.0	2,680.7	2,859.0	2,846.3	9.6	13.4	-20.59	499.7	-947.6	861.0	838.1	22.90	37.588	
2,800.0	2,779.8	2,956.6	2,942.4	10.0	13.8	-20.60	495.7	-930.7	831.2	807.7	23.56	35.287	
2,900.0	2,879.1	3,054.5	3,038.7	10.4	14.1	-20.56	491.7	-913.4	802.7	778.5	24.21	33.150	
3,000.0	2,978.6	3,148.9	3,131.4	10.7	14.4	-20.46	488.2	-896.7	775.8	750.9	24.88	31.183	
3,100.0	3,078.3	3,248.0	3,228.9	11.1	14.8	-20.27	485.0	-879.0	750.6	725.1	25.54	29.388	
3,200.0	3,178.1	3,351.1	3,330.2	11.4	15.2	-19.96	482.1	-859.7	726.3	700.1	26.20	27.722	
3,300.0	3,278.0	3,448.2	3,425.4	11.7	15.6	-19.58	479.6	-840.9	703.1	676.3	26.86	26.177	
3,400.0	3,377.9	3,535.9	3,511.5	12.0	15.9	-19.20	477.3	-824.6	682.3	654.8	27.52	24.792	
3,500.0	3,477.9	3,626.0	3,600.3	12.3	16.3	-18.79	475.1	-809.2	664.5	636.3	28.21	23.559	
3,522.1	3,500.0	3,646.2	3,620.2	12.3	16.4	-65.27	474.7	-805.9	661.0	632.6	28.33	23.328	
3,600.0	3,577.9	3,717.3	3,690.4	12.4	16.7	-64.97	473.2	-794.6	649.0	620.3	28.77	22.557	
3,700.0	3,677.9	3,811.1	3,783.1	12.4	17.1	-64.58	471.3	-780.5	634.6	605.4	29.26	21.689	
3,800.0	3,777.9	3,904.7	3,875.8	12.5	17.4	-64.18	469.7	-767.1	621.0	591.3	29.73	20.887	
3,900.0	3,877.9	4,008.8	3,978.8	12.6	17.8	-63.73	467.8	-752.3	607.4	577.2	30.20	20.111	
4,000.0	3,977.9	4,110.8	4,079.7	12.7	18.2	-63.27	465.6	-737.3	593.3	562.6	30.68	19.339	
4,100.0	4,077.9	4,219.6	4,187.1	12.7	18.6	-62.77	462.7	-720.3	578.1	547.0	31.16	18.555	
4,200.0	4,177.9	4,324.8	4,290.7	12.8	19.0	-62.31	458.5	-702.5	561.3	529.6	31.65	17.733	
4,300.0	4,277.9	4,422.7	4,387.0	12.9	19.4	-61.81	454.8	-685.4	544.0	511.9	32.16	16.918	
4,400.0	4,377.9	4,516.0	4,478.8	13.0	19.8	-61.27	451.7	-669.2	527.1	494.5	32.66	16.138	
4,500.0	4,477.9	4,613.0	4,574.3	13.0	20.3	-60.66	448.8	-652.8	510.9	477.7	33.24	15.372	
4,600.0	4,577.9	4,707.5	4,667.6	13.1	20.7	-60.06	446.3	-637.7	495.6	461.8	33.80	14.662	
4,700.0	4,677.9	4,804.2	4,763.1	13.2	21.1	-59.39	444.0	-622.7	481.0	446.6	34.36	14.001	
4,800.0	4,777.9	4,900.7	4,858.4	13.3	21.6	-58.67	442.0	-608.0	466.9	432.0	34.89	13.379	
4,900.0	4,877.9	4,996.4	4,953.1	13.3	22.0	-57.90	440.5	-593.9	453.4	418.0	35.42	12.804	
5,000.0	4,977.9	5,092.7	5,048.4	13.4	22.5	-57.08	439.3	-580.2	440.8	404.8	35.92	12.271	
5,100.0	5,077.9	5,189.6	5,144.4	13.5	22.9	-56.22	438.3	-566.8	428.7	392.3	36.41	11.775	
5,200.0	5,177.9	5,289.2	5,243.1	13.6	23.3	-55.28	437.5	-553.4	417.0	380.2	36.88	11.307	
5,300.0	5,277.9	5,390.2	5,343.1	13.6	23.8	-54.28	436.4	-539.4	405.1	367.7	37.34	10.847	
5,400.0	5,377.9	5,489.0	5,440.9	13.7	24.2	-53.31	434.7	-525.9	393.0	355.2	37.81	10.395	
5,500.0	5,477.9	5,587.3	5,538.4	13.8	24.7	-52.51	432.0	-513.4	381.2	342.9	38.27	9.959	
5,600.0	5,577.9	5,683.1	5,633.5	13.9	25.1	-51.80	429.1	-502.1	370.0	331.2	38.73	9.551	
5,700.0	5,677.9	5,779.4	5,729.2	13.9	25.5	-51.09	426.5	-491.6	359.8	320.6	39.18	9.181	
5,800.0	5,777.9	5,877.1	5,826.3	14.0	25.9	-50.32	424.3	-481.4	350.2	310.6	39.61	8.842	
5,900.0	5,877.9	5,978.5	5,927.2	14.1	26.3	-49.44	422.3	-470.9	341.0	301.0	40.04	8.518	
6,000.0	5,977.9	6,084.3	6,032.2	14.2	26.8	-48.50	419.0	-458.8	330.4	289.9	40.46	8.166	
6,100.0	6,077.9	6,183.8	6,130.9	14.2	27.2	-47.56	415.1	-446.5	318.5	277.7	40.87	7.795	
6,200.0	6,177.9	6,281.5	6,227.8	14.3	27.6	-46.48	411.9	-434.4	307.2	266.0	41.25	7.448	
6,300.0	6,277.9	6,378.2	6,323.7	14.4	28.1	-45.33	409.1	-422.9	296.7	255.1	41.59	7.134	
6,400.0	6,377.9	6,475.0	6,419.9	14.5	28.5	-44.17	406.7	-412.3	287.1	245.2	41.90	6.852	
6,500.0	6,477.9	6,572.3	6,516.7	14.5	28.9	-43.05	404.5	-402.5	278.5	236.3	42.20	6.601	
6,600.0	6,577.9	6,670.1	6,614.1	14.6	29.3	-41.97	402.3	-393.6	270.8	228.3	42.47	6.376	
6,700.0	6,677.9	6,768.6	6,712.2	14.7	29.6	-40.92	400.3	-385.2	263.5	220.9	42.67	6.176	
6,800.0	6,777.9	6,867.0	6,810.2	14.8	30.0	-39.89	398.3	-377.4	256.9	214.0	42.90	5.989	
6,900.0	6,877.9	6,965.6	6,908.6	14.8	30.4	-38.86	396.6	-370.1	250.8	207.7	43.14	5.815	
7,000.0	6,977.9	7,064.3	7,007.0	14.9	30.8	-37.85	395.0	-363.3	245.2	201.9	43.36	5.656	
7,100.0	7,077.9	7,163.0	7,105.6	15.0	31.1	-36.92	393.4	-357.1	240.2	196.6	43.58	5.511	
7,200.0	7,177.9	7,261.6	7,203.9	15.1	31.5	-36.10	391.8	-351.7	235.6	191.8	43.81	5.378	

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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)	Semi Reference (usft)	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)			
7,300.0	7,277.9	7,360.2	7,302.5	15.2	31.9	-35.40	390.3	-347.1	231.7	187.6	44.05	5.259	
7,400.0	7,377.9	7,460.0	7,402.1	15.2	32.2	-34.77	388.8	-342.9	228.0	183.7	44.31	5.146	
7,500.0	7,477.9	7,559.6	7,501.7	15.3	32.5	-34.18	387.2	-339.0	224.5	179.9	44.57	5.037	
7,600.0	7,577.9	7,659.1	7,601.1	15.4	32.9	-33.73	385.4	-335.7	221.2	176.3	44.86	4.930	
7,700.0	7,677.9	7,758.6	7,700.6	15.5	33.2	-33.41	383.5	-333.0	218.0	172.8	45.19	4.825	
7,800.0	7,777.9	7,858.2	7,800.1	15.5	33.5	-33.10	381.7	-330.4	215.0	169.5	45.51	4.725	
7,900.0	7,877.9	7,957.6	7,899.4	15.6	33.8	-32.81	380.0	-328.0	212.3	166.5	45.82	4.633	
8,000.0	7,977.9	8,056.9	7,998.7	15.7	34.1	-32.59	378.4	-326.0	209.8	163.7	46.15	4.547	
8,100.0	8,077.9	8,157.0	8,098.7	15.8	34.3	-32.45	376.7	-324.3	207.5	161.0	46.51	4.462	
8,200.0	8,177.9	8,257.0	8,198.8	15.8	34.6	-32.41	374.8	-323.0	205.2	158.3	46.88	4.377	
8,300.0	8,277.9	8,365.0	8,306.7	15.9	34.8	-32.40	371.9	-321.1	202.1	154.8	47.32	4.271	
8,400.0	8,377.9	8,469.2	8,410.5	16.0	35.1	-32.26	364.6	-315.9	193.5	145.8	47.74	4.054	
8,500.0	8,477.9	8,564.8	8,505.6	16.1	35.4	-30.56	361.6	-307.5	186.2	138.5	47.64	3.908 SF	
8,577.6	8,555.5	8,631.4	8,571.5	16.1	35.6	-27.65	364.0	-298.1	183.3	136.4	46.90	3.909 CC, ES	
8,600.0	8,577.9	8,650.2	8,590.1	16.2	35.7	-26.69	365.6	-295.4	183.6	137.0	46.59	3.940	
8,700.0	8,677.9	8,726.5	8,664.4	16.2	35.9	-21.90	377.7	-283.8	192.1	147.4	44.69	4.298	
8,800.0	8,777.9	8,794.0	8,728.5	16.3	36.0	-17.53	396.5	-274.6	214.6	172.2	42.43	5.058	
8,900.0	8,877.9	8,862.7	8,791.5	16.4	36.0	-13.93	423.1	-267.9	250.1	209.5	40.63	6.157	
9,000.0	8,977.9	8,927.0	8,847.7	16.5	36.0	-11.17	453.8	-262.8	295.7	256.5	39.27	7.530	
9,100.0	9,077.9	8,984.4	8,895.7	16.5	36.0	-9.73	485.3	-261.6	349.5	311.2	38.32	9.119	
9,200.0	9,177.9	9,051.5	8,949.9	16.6	36.0	-8.54	524.7	-261.5	407.7	369.8	37.90	10.759	
9,300.0	9,277.9	9,105.0	8,991.7	16.7	36.0	-7.70	558.2	-261.2	469.9	432.5	37.46	12.547	
9,400.0	9,377.9	9,147.0	9,021.9	16.8	36.0	-7.24	587.3	-262.0	538.1	501.0	37.11	14.500	
9,500.0	9,477.9	9,163.3	9,032.8	16.9	36.0	-7.09	599.4	-262.5	611.0	574.3	36.64	16.673	
9,600.0	9,577.9	9,192.0	9,050.9	16.9	36.0	-6.87	621.6	-263.6	688.4	651.8	36.53	18.845	
9,700.0	9,677.9	9,208.7	9,060.7	17.0	36.0	-6.77	635.2	-264.4	769.2	732.7	36.45	21.104	
9,800.0	9,777.9	9,236.0	9,075.3	17.1	36.1	-6.63	658.1	-266.1	853.0	816.4	36.56	23.330	
9,900.0	9,877.9	9,236.0	9,075.3	17.2	36.1	-6.63	658.1	-266.1	938.8	902.2	36.57	25.673	

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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		Offset Wellbore Centre		Rule Assigned:				Warning				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance						
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	No-Go	Separation				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Distance	Factor				
19,100.0	12,367.0	11,883.0	11,859.9	67.5	23.2	-43.44	-7,434.5	301.6	993.0	926.9	66.09	15.025				
19,200.0	12,367.0	11,931.0	11,900.1	68.5	23.2	-46.02	-7,460.5	304.3	921.3	852.3	68.99	13.355				
19,300.0	12,367.0	11,931.0	11,900.1	69.4	23.2	-46.02	-7,460.5	304.3	853.8	780.0	73.80	11.569				
19,400.0	12,367.0	11,952.2	11,916.2	70.3	23.2	-47.11	-7,474.3	305.2	792.5	714.1	78.41	10.108				
19,500.0	12,367.0	11,965.3	11,925.3	71.3	23.2	-47.73	-7,483.6	305.7	738.1	654.4	83.71	8.817				
19,600.4	12,367.0	11,978.0	11,933.6	72.2	23.2	-48.30	-7,493.3	306.1	692.0	602.7	89.23	7.754 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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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
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		
19,200.0	12,367.0	11,879.1	11,804.8	68.5	25.0	34.02	-7,472.7	-538.7	935.2	863.2	71.99	12.991		
19,300.0	12,367.0	11,910.0	11,827.9	69.4	25.0	35.13	-7,493.2	-538.2	866.7	791.1	75.65	11.457		
19,400.0	12,367.0	11,958.0	11,862.6	70.3	25.0	36.99	-7,526.5	-538.2	802.1	723.2	78.95	10.160		
19,500.0	12,367.0	11,958.0	11,862.6	71.3	25.0	36.99	-7,526.5	-538.2	742.5	657.3	85.23	8.712		
19,600.4	12,367.0	12,005.0	11,892.8	72.2	25.1	38.83	-7,562.4	-539.2	688.9	599.3	89.56	7.692 CC, ES, SF		

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

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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 710H	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		Offset Wellbore Centre		Distance		Rule Assigned:					
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
19,600.4	12,367.0	12,016.0	11,920.7	72.2	28.0	62.29	-7,527.3	-983.3	973.4	871.0	102.38	9.507 CC, ES, SF	

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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 707H - 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	-90.32	-0.2	-30.1	30.1	29.6	0.48	62.821	
100.0	100.0	100.0	100.0	1.2	1.2	-90.32	-0.2	-30.1	30.1	27.3	2.87	10.506	
200.0	200.0	200.0	200.0	1.7	1.7	-90.32	-0.2	-30.1	30.1	26.3	3.86	7.796	
300.0	300.0	300.0	300.0	2.1	2.1	-90.32	-0.2	-30.1	30.1	25.5	4.63	6.500	
400.0	400.0	400.0	400.0	2.4	2.4	-90.32	-0.2	-30.1	30.1	24.8	5.29	5.697	
500.0	500.0	500.0	500.0	2.7	2.7	-90.32	-0.2	-30.1	30.1	24.3	5.87	5.134	
600.0	600.0	600.0	600.0	3.0	3.0	-90.32	-0.2	-30.1	30.1	23.7	6.39	4.711	
700.0	700.0	700.0	700.0	3.2	3.2	-90.32	-0.2	-30.1	30.1	23.2	6.88	4.377	
800.0	800.0	800.0	800.0	3.5	3.5	-90.32	-0.2	-30.1	30.1	22.8	7.34	4.104	
900.0	900.0	900.0	900.0	3.7	3.7	-90.32	-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	-90.32	-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	-90.32	-0.2	-30.1	30.1	21.5	8.58	3.512 CC	
1,200.0	1,200.0	1,199.2	1,199.2	4.4	4.4	-43.90	0.9	-31.4	30.2	21.1	9.07	3.327	
1,300.0	1,299.8	1,298.4	1,298.3	4.7	4.7	-44.38	4.2	-35.4	30.4	20.8	9.55	3.179 ES	
1,400.0	1,399.5	1,397.5	1,397.0	5.0	4.9	-45.67	9.5	-42.0	30.8	20.9	9.88	3.113 SF	
1,500.0	1,498.7	1,496.4	1,495.2	5.4	5.1	-50.74	14.9	-52.0	32.2	21.9	10.29	3.129	
1,608.3	1,605.6	1,603.2	1,600.9	5.8	5.5	-59.75	20.5	-66.5	35.7	25.1	10.67	3.349	
1,700.0	1,695.9	1,694.2	1,690.6	6.0	5.7	-67.05	25.2	-81.4	41.0	30.2	10.81	3.792	
1,800.0	1,794.3	1,793.9	1,788.7	6.3	6.0	-72.97	30.3	-97.9	47.5	36.4	11.11	4.279	
1,900.0	1,892.8	1,893.6	1,886.9	6.7	6.3	-77.42	35.4	-114.4	54.4	43.0	11.42	4.764	
2,000.0	1,991.2	1,993.3	1,985.1	7.0	6.6	-80.86	40.5	-131.0	61.6	49.8	11.76	5.238	
2,100.0	2,089.6	2,093.0	2,083.2	7.3	7.0	-83.58	45.6	-147.5	68.9	56.8	12.10	5.696	
2,200.0	2,188.0	2,192.6	2,181.4	7.7	7.3	-85.77	50.7	-164.0	76.4	63.9	12.45	6.135	
2,300.0	2,286.5	2,292.3	2,279.6	8.1	7.7	-87.57	55.8	-180.5	83.9	71.1	12.80	6.555	
2,400.0	2,384.9	2,392.0	2,377.8	8.4	8.1	-89.07	60.9	-197.0	91.5	78.4	13.16	6.955	
2,505.5	2,488.7	2,497.2	2,481.3	8.8	8.5	-90.41	66.2	-214.4	99.6	86.1	13.55	7.351	
2,600.0	2,581.9	2,591.4	2,574.1	9.2	8.9	-91.09	71.1	-230.1	106.9	93.0	13.90	7.691	
2,700.0	2,680.7	2,691.1	2,672.3	9.6	9.3	-90.87	76.2	-246.6	114.5	100.3	14.29	8.017	
2,800.0	2,779.8	2,790.8	2,770.5	10.0	9.7	-89.87	81.3	-263.1	122.2	107.5	14.71	8.310	
2,900.0	2,879.1	2,890.4	2,868.6	10.4	10.1	-88.22	86.4	-279.6	130.0	114.8	15.16	8.571	
3,000.0	2,978.6	2,989.9	2,966.6	10.7	10.5	-86.05	91.4	-296.1	137.9	122.2	15.67	8.802	
3,100.0	3,078.3	3,089.4	3,064.6	11.1	10.9	-83.46	96.5	-312.6	146.3	130.0	16.24	9.004	
3,200.0	3,178.1	3,188.7	3,162.3	11.4	11.3	-80.52	101.6	-329.0	155.2	138.3	16.90	9.181	
3,300.0	3,278.0	3,287.8	3,259.9	11.7	11.7	-77.34	106.7	-345.5	164.8	147.2	17.65	9.340	
3,400.0	3,377.9	3,386.7	3,357.4	12.0	12.2	-74.00	111.7	-361.8	175.4	156.9	18.48	9.492	
3,500.0	3,477.9	3,485.3	3,454.5	12.3	12.6	-70.56	116.8	-378.2	187.2	167.8	19.39	9.653	
3,522.1	3,500.0	3,507.1	3,475.9	12.3	12.7	-116.38	117.9	-381.8	189.9	170.4	19.58	9.698	
3,600.0	3,577.9	3,583.8	3,551.5	12.4	13.0	-113.73	121.8	-394.5	200.0	179.7	20.29	9.857	
3,700.0	3,677.9	3,682.3	3,648.5	12.4	13.4	-110.70	126.9	-410.8	213.5	192.3	21.19	10.074	
3,800.0	3,777.9	3,780.8	3,745.5	12.5	13.9	-108.03	131.9	-427.2	227.5	205.5	22.07	10.311	
3,900.0	3,877.9	3,879.3	3,842.5	12.6	14.3	-105.67	136.9	-443.5	242.0	219.1	22.91	10.562	
4,000.0	3,977.9	3,977.8	3,939.5	12.7	14.7	-103.58	142.0	-459.8	256.8	233.1	23.72	10.823	
4,100.0	4,077.9	4,076.3	4,036.5	12.7	15.1	-101.72	147.0	-476.1	271.9	247.4	24.51	11.091	
4,200.0	4,177.9	4,174.7	4,133.5	12.8	15.6	-100.05	152.1	-492.4	287.2	262.0	25.28	11.361	
4,300.0	4,277.9	4,273.2	4,230.5	12.9	16.0	-98.56	157.1	-508.7	302.8	276.8	26.03	11.632	
4,400.0	4,377.9	4,371.7	4,327.5	13.0	16.4	-97.21	162.1	-525.1	318.6	291.8	26.76	11.903	
4,500.0	4,477.9	4,470.2	4,424.5	13.0	16.9	-95.99	167.2	-541.4	334.5	307.0	27.48	12.171	
4,600.0	4,577.9	4,569.6	4,522.4	13.1	17.3	-94.87	172.2	-557.8	350.5	322.3	28.17	12.441	
4,700.0	4,677.9	4,674.4	4,625.8	13.2	17.7	-93.86	177.2	-574.0	365.6	336.7	28.88	12.658	
4,800.0	4,777.9	4,779.8	4,730.1	13.3	18.2	-93.03	181.7	-588.5	379.0	349.5	29.56	12.824	
4,900.0	4,877.9	4,885.7	4,835.2	13.3	18.6	-92.36	185.6	-601.1	390.8	360.6	30.19	12.943	

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

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Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3125.0usft (Original Well Elev)
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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2632 WC 710H	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 707H - 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)				
5,000.0	4,977.9	4,992.1	4,940.9	13.4	19.1	-91.81	189.0	-612.0	400.9	370.1	30.79	13.019		
5,100.0	5,077.9	5,098.8	5,047.3	13.5	19.5	-91.38	191.7	-621.0	409.3	377.9	31.35	13.054		
5,200.0	5,177.9	5,205.9	5,154.1	13.6	19.9	-91.06	194.0	-628.1	415.9	384.0	31.87	13.051		
5,300.0	5,277.9	5,313.2	5,261.2	13.6	20.2	-90.82	195.6	-633.4	420.7	388.4	32.33	13.013		
5,400.0	5,377.9	5,420.7	5,368.7	13.7	20.6	-90.68	196.6	-636.7	423.8	391.1	32.73	12.947		
5,500.0	5,477.9	5,528.3	5,476.2	13.8	20.8	-90.62	197.0	-638.1	425.1	392.1	33.02	12.872		
5,600.0	5,577.9	5,630.0	5,577.9	13.9	20.9	-90.62	197.0	-638.1	425.1	392.0	33.13	12.831		
5,700.0	5,677.9	5,730.0	5,677.9	13.9	20.9	-90.62	197.0	-638.1	425.1	391.9	33.25	12.786		
5,800.0	5,777.9	5,830.0	5,777.9	14.0	20.9	-90.62	197.0	-638.1	425.1	391.8	33.37	12.742		
5,900.0	5,877.9	5,930.0	5,877.9	14.1	21.0	-90.62	197.0	-638.1	425.1	391.7	33.48	12.698		
6,000.0	5,977.9	6,030.0	5,977.9	14.2	21.0	-90.62	197.0	-638.1	425.1	391.5	33.60	12.654		
6,100.0	6,077.9	6,130.0	6,077.9	14.2	21.1	-90.62	197.0	-638.1	425.1	391.4	33.72	12.610		
6,200.0	6,177.9	6,230.0	6,177.9	14.3	21.1	-90.62	197.0	-638.1	425.1	391.3	33.83	12.566		
6,300.0	6,277.9	6,330.0	6,277.9	14.4	21.2	-90.62	197.0	-638.1	425.1	391.2	33.95	12.522		
6,400.0	6,377.9	6,430.0	6,377.9	14.5	21.2	-90.62	197.0	-638.1	425.1	391.1	34.07	12.479		
6,500.0	6,477.9	6,530.0	6,477.9	14.5	21.3	-90.62	197.0	-638.1	425.1	391.0	34.19	12.435		
6,600.0	6,577.9	6,630.0	6,577.9	14.6	21.3	-90.62	197.0	-638.1	425.1	390.8	34.31	12.392		
6,700.0	6,677.9	6,730.0	6,677.9	14.7	21.3	-90.62	197.0	-638.1	425.1	390.7	34.43	12.349		
6,800.0	6,777.9	6,830.0	6,777.9	14.8	21.4	-90.62	197.0	-638.1	425.1	390.6	34.55	12.307		
6,900.0	6,877.9	6,930.0	6,877.9	14.8	21.4	-90.62	197.0	-638.1	425.1	390.5	34.67	12.264		
7,000.0	6,977.9	7,030.0	6,977.9	14.9	21.5	-90.62	197.0	-638.1	425.1	390.4	34.79	12.222		
7,100.0	7,077.9	7,130.0	7,077.9	15.0	21.5	-90.62	197.0	-638.1	425.1	390.2	34.91	12.179		
7,200.0	7,177.9	7,230.0	7,177.9	15.1	21.6	-90.62	197.0	-638.1	425.1	390.1	35.03	12.137		
7,300.0	7,277.9	7,330.0	7,277.9	15.2	21.6	-90.62	197.0	-638.1	425.1	390.0	35.15	12.095		
7,400.0	7,377.9	7,430.0	7,377.9	15.2	21.7	-90.62	197.0	-638.1	425.1	389.9	35.27	12.054		
7,500.0	7,477.9	7,530.0	7,477.9	15.3	21.7	-90.62	197.0	-638.1	425.1	389.8	35.39	12.012		
7,600.0	7,577.9	7,630.0	7,577.9	15.4	21.8	-90.62	197.0	-638.1	425.1	389.6	35.52	11.971		
7,700.0	7,677.9	7,730.0	7,677.9	15.5	21.8	-90.62	197.0	-638.1	425.1	389.5	35.64	11.930		
7,800.0	7,777.9	7,830.0	7,777.9	15.5	21.9	-90.62	197.0	-638.1	425.1	389.4	35.76	11.889		
7,900.0	7,877.9	7,930.0	7,877.9	15.6	21.9	-90.62	197.0	-638.1	425.1	389.3	35.88	11.848		
8,000.0	7,977.9	8,030.0	7,977.9	15.7	22.0	-90.62	197.0	-638.1	425.1	389.1	36.01	11.807		
8,100.0	8,077.9	8,130.0	8,077.9	15.8	22.0	-90.62	197.0	-638.1	425.1	389.0	36.13	11.767		
8,200.0	8,177.9	8,230.0	8,177.9	15.8	22.1	-90.62	197.0	-638.1	425.1	388.9	36.26	11.726		
8,300.0	8,277.9	8,330.0	8,277.9	15.9	22.1	-90.62	197.0	-638.1	425.1	388.8	36.38	11.686		
8,400.0	8,377.9	8,430.0	8,377.9	16.0	22.2	-90.62	197.0	-638.1	425.1	388.6	36.50	11.646		
8,500.0	8,477.9	8,530.0	8,477.9	16.1	22.2	-90.62	197.0	-638.1	425.1	388.5	36.63	11.607		
8,600.0	8,577.9	8,630.0	8,577.9	16.2	22.3	-90.62	197.0	-638.1	425.1	388.4	36.75	11.567		
8,700.0	8,677.9	8,730.0	8,677.9	16.2	22.3	-90.62	197.0	-638.1	425.1	388.3	36.88	11.528		
8,800.0	8,777.9	8,830.0	8,777.9	16.3	22.4	-90.62	197.0	-638.1	425.1	388.1	37.01	11.489		
8,900.0	8,877.9	8,930.0	8,877.9	16.4	22.4	-90.62	197.0	-638.1	425.1	388.0	37.13	11.450		
9,000.0	8,977.9	9,030.0	8,977.9	16.5	22.5	-90.62	197.0	-638.1	425.1	387.9	37.26	11.411		
9,100.0	9,077.9	9,130.0	9,077.9	16.5	22.5	-90.62	197.0	-638.1	425.1	387.8	37.38	11.372		
9,200.0	9,177.9	9,230.0	9,177.9	16.6	22.6	-90.62	197.0	-638.1	425.1	387.6	37.51	11.334		
9,300.0	9,277.9	9,330.0	9,277.9	16.7	22.6	-90.62	197.0	-638.1	425.1	387.5	37.64	11.295		
9,400.0	9,377.9	9,430.0	9,377.9	16.8	22.7	-90.62	197.0	-638.1	425.1	387.4	37.77	11.257		
9,500.0	9,477.9	9,530.0	9,477.9	16.9	22.7	-90.62	197.0	-638.1	425.1	387.2	37.89	11.219		
9,600.0	9,577.9	9,630.0	9,577.9	16.9	22.8	-90.62	197.0	-638.1	425.1	387.1	38.02	11.182		
9,700.0	9,677.9	9,730.0	9,677.9	17.0	22.8	-90.62	197.0	-638.1	425.1	387.0	38.15	11.144		
9,800.0	9,777.9	9,830.0	9,777.9	17.1	22.9	-90.62	197.0	-638.1	425.1	386.9	38.28	11.107		
9,900.0	9,877.9	9,930.0	9,877.9	17.2	22.9	-90.62	197.0	-638.1	425.1	386.7	38.41	11.069		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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 707H - 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)					
10,000.0	9,977.9	10,030.0	9,977.9	17.2	23.0	-90.62	197.0	-638.1	425.1	386.6	38.54	11.032	
10,100.0	10,077.9	10,130.0	10,077.9	17.3	23.0	-90.62	197.0	-638.1	425.1	386.5	38.66	10.996	
10,200.0	10,177.9	10,230.0	10,177.9	17.4	23.1	-90.62	197.0	-638.1	425.1	386.3	38.79	10.959	
10,300.0	10,277.9	10,330.0	10,277.9	17.5	23.1	-90.62	197.0	-638.1	425.1	386.2	38.92	10.922	
10,400.0	10,377.9	10,430.0	10,377.9	17.6	23.2	-90.62	197.0	-638.1	425.1	386.1	39.05	10.886	
10,500.0	10,477.9	10,530.0	10,477.9	17.6	23.2	-90.62	197.0	-638.1	425.1	386.0	39.18	10.850	
10,600.0	10,577.9	10,630.0	10,577.9	17.7	23.3	-90.62	197.0	-638.1	425.1	385.8	39.31	10.814	
10,700.0	10,677.9	10,730.0	10,677.9	17.8	23.3	-90.62	197.0	-638.1	425.1	385.7	39.44	10.778	
10,800.0	10,777.9	10,830.0	10,777.9	17.9	23.4	-90.62	197.0	-638.1	425.1	385.6	39.58	10.743	
10,900.0	10,877.9	10,930.0	10,877.9	17.9	23.4	-90.62	197.0	-638.1	425.1	385.4	39.71	10.707	
11,000.0	10,977.9	11,030.0	10,977.9	18.0	23.5	-90.62	197.0	-638.1	425.1	385.3	39.84	10.672	
11,100.0	11,077.9	11,130.0	11,077.9	18.1	23.6	-90.62	197.0	-638.1	425.1	385.2	39.97	10.637	
11,200.0	11,177.9	11,230.0	11,177.9	18.2	23.6	-90.62	197.0	-638.1	425.1	385.0	40.10	10.602	
11,300.0	11,277.9	11,330.0	11,277.9	18.3	23.7	-90.62	197.0	-638.1	425.1	384.9	40.23	10.567	
11,400.0	11,377.9	11,430.0	11,377.9	18.3	23.7	-90.62	197.0	-638.1	425.1	384.8	40.36	10.533	
11,500.0	11,477.9	11,530.0	11,477.9	18.4	23.8	-90.62	197.0	-638.1	425.1	384.6	40.50	10.498	
11,600.0	11,577.9	11,630.0	11,577.9	18.5	23.8	-90.62	197.0	-638.1	425.1	384.5	40.63	10.464	
11,700.0	11,677.9	11,730.0	11,677.9	18.6	23.9	-90.62	197.0	-638.1	425.1	384.4	40.76	10.431	
11,710.0	11,687.9	11,740.0	11,687.9	18.6	23.9	-90.62	197.0	-638.1	425.1	384.4	40.77	10.428	
11,800.0	11,777.9	11,829.1	11,776.8	18.7	23.8	-91.32	191.8	-638.1	425.2	384.5	40.75	10.434	
11,900.0	11,877.9	11,922.5	11,867.2	18.7	23.7	-94.36	169.2	-638.0	426.3	385.8	40.50	10.527	
11,911.6	11,889.5	11,932.6	11,876.7	18.7	23.7	-94.83	165.7	-637.9	426.6	386.2	40.46	10.545	
11,925.0	11,902.9	11,944.2	11,887.5	18.7	23.7	84.91	161.4	-637.9	427.1	386.7	40.41	10.568	
11,950.0	11,927.9	11,965.6	11,907.1	18.7	23.6	83.81	152.8	-637.9	428.0	387.7	40.33	10.613	
11,975.0	11,952.7	11,986.7	11,926.1	18.7	23.6	82.72	143.5	-637.8	429.1	388.8	40.26	10.656	
12,000.0	11,977.4	12,007.6	11,944.4	18.6	23.6	81.65	133.5	-637.8	430.3	390.1	40.22	10.697	
12,025.0	12,001.9	12,028.2	11,962.0	18.6	23.5	80.61	122.9	-637.7	431.6	391.4	40.20	10.735	
12,050.0	12,026.0	12,050.0	11,980.2	18.5	23.5	79.54	110.8	-637.6	433.0	392.9	40.18	10.776	
12,075.0	12,049.8	12,068.7	11,995.3	18.5	23.5	78.61	99.8	-637.6	434.6	394.3	40.24	10.798	
12,100.0	12,073.1	12,088.7	12,010.9	18.4	23.5	77.66	87.4	-637.5	436.2	395.9	40.30	10.822	
12,125.0	12,095.9	12,108.4	12,025.9	18.4	23.4	76.73	74.5	-637.4	437.8	397.5	40.39	10.841	
12,150.0	12,118.1	12,128.0	12,040.2	18.3	23.4	75.85	61.1	-637.3	439.5	399.0	40.50	10.853	
12,175.0	12,139.8	12,147.4	12,053.8	18.3	23.4	74.99	47.2	-637.3	441.3	400.6	40.64	10.859	
12,200.0	12,160.7	12,166.7	12,066.7	18.2	23.4	74.18	32.9	-637.2	443.0	402.2	40.80	10.859	
12,225.0	12,180.9	12,185.9	12,079.0	18.2	23.4	73.40	18.2	-637.1	444.8	403.8	40.98	10.853	
12,250.0	12,200.3	12,204.9	12,090.6	18.2	23.4	72.66	3.2	-637.0	446.5	405.3	41.19	10.841	
12,275.0	12,218.8	12,225.0	12,102.2	18.1	23.3	71.93	-13.3	-636.9	448.2	406.8	41.38	10.832	
12,300.0	12,236.5	12,242.6	12,111.8	18.1	23.3	71.31	-28.0	-636.8	449.9	408.2	41.65	10.802	
12,325.0	12,253.2	12,261.2	12,121.3	18.1	23.3	70.69	-44.0	-636.7	451.5	409.6	41.90	10.776	
12,350.0	12,268.9	12,279.8	12,130.2	18.0	23.3	70.12	-60.4	-636.6	453.0	410.8	42.16	10.745	
12,375.0	12,283.5	12,300.0	12,139.1	18.0	23.3	69.56	-78.4	-636.5	454.5	412.1	42.39	10.720	
12,400.0	12,297.1	12,316.8	12,146.0	18.0	23.3	69.11	-93.8	-636.4	455.8	413.1	42.71	10.673	
12,425.0	12,309.5	12,335.2	12,152.8	18.0	23.3	68.66	-110.8	-636.4	457.1	414.1	42.99	10.633	
12,450.0	12,320.9	12,353.5	12,159.0	18.0	23.3	68.27	-128.1	-636.3	458.3	415.0	43.27	10.591	
12,475.0	12,331.0	12,375.0	12,165.4	17.9	23.3	67.88	-148.6	-636.1	459.3	415.8	43.49	10.563	
12,500.0	12,339.9	12,390.0	12,169.3	17.9	23.4	67.61	-163.1	-636.1	460.2	416.4	43.82	10.503	
12,525.0	12,347.6	12,408.1	12,173.4	17.9	23.4	67.35	-180.7	-636.0	461.0	416.9	44.09	10.457	
12,550.0	12,354.0	12,425.0	12,176.7	18.0	23.4	67.14	-197.3	-635.9	461.7	417.3	44.36	10.407	
12,575.0	12,359.1	12,444.4	12,179.7	18.0	23.4	66.96	-216.5	-635.7	462.2	417.7	44.59	10.366	
12,600.0	12,363.0	12,462.5	12,181.7	18.0	23.4	66.83	-234.4	-635.6	462.6	417.8	44.83	10.320	
12,625.0	12,365.6	12,480.6	12,183.1	18.0	23.4	66.75	-252.5	-635.5	462.9	417.8	45.05	10.275	

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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 707H - 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
12,650.0	12,366.8	12,500.0	12,183.9	18.0	23.5	66.72	-271.9	-635.4	463.0	417.8	45.25	10.233		
12,650.9	12,366.8	12,500.0	12,183.9	18.0	23.5	66.72	-271.9	-635.4	463.0	417.8	45.26	10.230		
12,661.6	12,367.0	12,507.0	12,184.0	18.0	23.5	66.72	-278.9	-635.4	463.0	417.7	45.35	10.210		
12,663.5	12,367.0	12,508.5	12,184.0	18.0	23.5	66.72	-280.4	-635.4	463.0	417.7	45.36	10.207		
12,700.0	12,367.0	12,544.8	12,184.0	18.1	23.5	66.72	-316.7	-635.2	463.0	417.5	45.58	10.160		
12,800.0	12,367.0	12,644.8	12,184.0	18.3	23.7	66.72	-416.7	-634.6	463.1	416.9	46.21	10.021		
12,900.0	12,367.0	12,744.8	12,184.0	18.5	23.9	66.72	-516.7	-634.0	463.1	416.2	46.91	9.873		
13,000.0	12,367.0	12,844.8	12,184.0	18.8	24.2	66.73	-616.7	-633.4	463.1	415.5	47.67	9.716		
13,100.0	12,367.0	12,944.8	12,184.0	19.1	24.5	66.73	-716.7	-632.9	463.2	414.7	48.49	9.553		
13,200.0	12,367.0	13,044.8	12,184.0	19.4	24.8	66.73	-816.7	-632.3	463.2	413.8	49.36	9.384		
13,300.0	12,367.0	13,144.8	12,184.0	19.9	25.1	66.73	-916.7	-631.7	463.2	413.0	50.29	9.211		
13,400.0	12,367.0	13,244.8	12,184.0	20.3	25.5	66.73	-1,016.7	-631.2	463.3	412.0	51.27	9.036		
13,500.0	12,367.0	13,344.8	12,184.0	20.8	25.9	66.74	-1,116.7	-630.6	463.3	411.0	52.30	8.859		
13,600.0	12,367.0	13,444.8	12,184.0	21.3	26.4	66.74	-1,216.7	-630.0	463.4	410.0	53.37	8.682		
13,700.0	12,367.0	13,544.8	12,184.0	21.9	26.8	66.74	-1,316.7	-629.4	463.4	408.9	54.48	8.506		
13,800.0	12,367.0	13,644.8	12,184.0	22.5	27.3	66.74	-1,416.7	-628.9	463.4	407.8	55.63	8.330		
13,900.0	12,367.0	13,744.8	12,184.0	23.1	27.8	66.74	-1,516.7	-628.3	463.5	406.6	56.82	8.156		
14,000.0	12,367.0	13,844.8	12,184.0	23.7	28.4	66.74	-1,616.7	-627.7	463.5	405.4	58.05	7.985		
14,100.0	12,367.0	13,944.8	12,184.0	24.4	28.9	66.75	-1,716.7	-627.1	463.5	404.2	59.30	7.816		
14,200.0	12,367.0	14,044.8	12,184.0	25.1	29.5	66.75	-1,816.7	-626.6	463.6	403.0	60.59	7.651		
14,300.0	12,367.0	14,144.8	12,184.0	25.8	30.1	66.75	-1,916.7	-626.0	463.6	401.7	61.91	7.489		
14,400.0	12,367.0	14,244.8	12,184.0	26.5	30.7	66.75	-2,016.7	-625.4	463.6	400.4	63.25	7.330		
14,500.0	12,367.0	14,344.8	12,184.0	27.2	31.4	66.75	-2,116.7	-624.8	463.7	399.1	64.62	7.176		
14,600.0	12,367.0	14,444.8	12,184.0	28.0	32.0	66.76	-2,216.7	-624.3	463.7	397.7	66.01	7.025		
14,700.0	12,367.0	14,544.8	12,184.0	28.7	32.7	66.76	-2,316.7	-623.7	463.7	396.3	67.42	6.878		
14,800.0	12,367.0	14,644.8	12,184.0	29.5	33.4	66.76	-2,416.7	-623.1	463.8	394.9	68.86	6.735		
14,900.0	12,367.0	14,744.8	12,184.0	30.3	34.0	66.76	-2,516.7	-622.5	463.8	393.5	70.31	6.596		
15,000.0	12,367.0	14,844.8	12,184.0	31.1	34.8	66.76	-2,616.7	-622.0	463.8	392.1	71.78	6.462		
15,100.0	12,367.0	14,944.8	12,184.0	31.9	35.5	66.77	-2,716.7	-621.4	463.9	390.6	73.27	6.331		
15,200.0	12,367.0	15,044.8	12,184.0	32.7	36.2	66.77	-2,816.7	-620.8	463.9	389.1	74.78	6.204		
15,300.0	12,367.0	15,144.8	12,184.0	33.5	37.0	66.77	-2,916.7	-620.3	464.0	387.7	76.30	6.081		
15,400.0	12,367.0	15,244.8	12,184.0	34.3	37.7	66.77	-3,016.7	-619.7	464.0	386.2	77.83	5.961		
15,500.0	12,367.0	15,344.8	12,184.0	35.2	38.5	66.77	-3,116.7	-619.1	464.0	384.6	79.38	5.845		
15,600.0	12,367.0	15,444.8	12,184.0	36.0	39.2	66.77	-3,216.7	-618.5	464.1	383.1	80.94	5.733		
15,700.0	12,367.0	15,544.8	12,184.0	36.9	40.0	66.78	-3,316.7	-618.0	464.1	381.6	82.52	5.624		
15,800.0	12,367.0	15,644.8	12,184.0	37.7	40.8	66.78	-3,416.7	-617.4	464.1	380.0	84.10	5.519		
15,900.0	12,367.0	15,744.8	12,184.0	38.6	41.6	66.78	-3,516.7	-616.8	464.2	378.5	85.70	5.416		
16,000.0	12,367.0	15,844.8	12,184.0	39.4	42.4	66.78	-3,616.7	-616.2	464.2	376.9	87.30	5.317		
16,100.0	12,367.0	15,944.8	12,184.0	40.3	43.2	66.78	-3,716.7	-615.7	464.2	375.3	88.92	5.221		
16,200.0	12,367.0	16,044.8	12,184.0	41.2	44.0	66.79	-3,816.7	-615.1	464.3	373.7	90.54	5.128		
16,300.0	12,367.0	16,144.8	12,184.0	42.1	44.8	66.79	-3,916.7	-614.5	464.3	372.1	92.17	5.038		
16,400.0	12,367.0	16,244.8	12,184.0	42.9	45.7	66.79	-4,016.7	-613.9	464.3	370.5	93.81	4.950		
16,500.0	12,367.0	16,344.8	12,184.0	43.8	46.5	66.79	-4,116.7	-613.4	464.4	368.9	95.46	4.865		
16,600.0	12,367.0	16,444.8	12,184.0	44.7	47.3	66.79	-4,216.7	-612.8	464.4	367.3	97.11	4.782		
16,700.0	12,367.0	16,544.8	12,184.0	45.6	48.2	66.80	-4,316.7	-612.2	464.5	365.7	98.78	4.702		
16,800.0	12,367.0	16,644.8	12,184.0	46.5	49.0	66.80	-4,416.7	-611.6	464.5	364.0	100.44	4.624		
16,900.0	12,367.0	16,744.8	12,184.0	47.4	49.9	66.80	-4,516.7	-611.1	464.5	362.4	102.12	4.549		
17,000.0	12,367.0	16,844.8	12,184.0	48.3	50.7	66.80	-4,616.7	-610.5	464.6	360.8	103.80	4.476		
17,100.0	12,367.0	16,944.8	12,184.0	49.2	51.6	66.80	-4,716.7	-609.9	464.6	359.1	105.49	4.404		
17,200.0	12,367.0	17,044.8	12,184.0	50.1	52.4	66.80	-4,816.6	-609.4	464.6	357.5	107.18	4.335		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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 707H - 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		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)			
17,300.0	12,367.0	17,144.8	12,184.0	51.0	53.3	66.81	-4,916.6	-608.8	464.7	355.8	108.87	4.268	
17,400.0	12,367.0	17,244.8	12,184.0	51.9	54.2	66.81	-5,016.6	-608.2	464.7	354.1	110.58	4.203	
17,500.0	12,367.0	17,344.8	12,184.0	52.8	55.0	66.81	-5,116.6	-607.6	464.7	352.5	112.28	4.139	
17,600.0	12,367.0	17,444.8	12,184.0	53.7	55.9	66.81	-5,216.6	-607.1	464.8	350.8	113.99	4.077	
17,700.0	12,367.0	17,544.8	12,184.0	54.6	56.8	66.81	-5,316.6	-606.5	464.8	349.1	115.71	4.017	
17,800.0	12,367.0	17,644.8	12,184.0	55.5	57.7	66.82	-5,416.6	-605.9	464.8	347.4	117.43	3.959	
17,900.0	12,367.0	17,744.8	12,184.0	56.5	58.6	66.82	-5,516.6	-605.3	464.9	345.7	119.15	3.902	
18,000.0	12,367.0	17,844.8	12,184.0	57.4	59.4	66.82	-5,616.6	-604.8	464.9	344.0	120.88	3.846	
18,100.0	12,367.0	17,944.8	12,184.0	58.3	60.3	66.82	-5,716.6	-604.2	464.9	342.3	122.61	3.792	
18,200.0	12,367.0	18,044.8	12,184.0	59.2	61.2	66.82	-5,816.6	-603.6	465.0	340.6	124.34	3.740	
18,300.0	12,367.0	18,144.8	12,184.0	60.1	62.1	66.83	-5,916.6	-603.0	465.0	338.9	126.08	3.688	
18,400.0	12,367.0	18,244.8	12,184.0	61.1	63.0	66.83	-6,016.6	-602.5	465.1	337.2	127.82	3.638	
18,500.0	12,367.0	18,344.8	12,184.0	62.0	63.9	66.83	-6,116.6	-601.9	465.1	335.5	129.56	3.590	
18,600.0	12,367.0	18,444.8	12,184.0	62.9	64.8	66.83	-6,216.6	-601.3	465.1	333.8	131.31	3.542	
18,700.0	12,367.0	18,544.8	12,184.0	63.8	65.7	66.83	-6,316.6	-600.7	465.2	332.1	133.06	3.496	
18,800.0	12,367.0	18,644.8	12,184.0	64.8	66.6	66.83	-6,416.6	-600.2	465.2	330.4	134.81	3.451	
18,900.0	12,367.0	18,744.8	12,184.0	65.7	67.5	66.84	-6,516.6	-599.6	465.2	328.7	136.56	3.407	
19,000.0	12,367.0	18,844.8	12,184.0	66.6	68.4	66.84	-6,616.6	-599.0	465.3	326.9	138.32	3.364	
19,100.0	12,367.0	18,944.8	12,184.0	67.5	69.3	66.84	-6,716.6	-598.5	465.3	325.2	140.08	3.322	
19,200.0	12,367.0	19,044.8	12,184.0	68.5	70.2	66.84	-6,816.6	-597.9	465.3	323.5	141.84	3.281	
19,300.0	12,367.0	19,144.8	12,184.0	69.4	71.1	66.84	-6,916.6	-597.3	465.4	321.8	143.60	3.241	
19,400.0	12,367.0	19,244.8	12,184.0	70.3	72.0	66.85	-7,016.6	-596.7	465.4	320.0	145.37	3.202	
19,500.0	12,367.0	19,344.8	12,184.0	71.3	73.0	66.85	-7,116.6	-596.2	465.4	318.3	147.14	3.163	
19,600.4	12,367.0	19,445.3	12,184.0	72.2	73.9	66.85	-7,217.0	-595.6	465.5	316.6	148.91	3.126	

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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 710H	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)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.17	-0.2	-59.8	59.8	59.4	0.48	124.802		
100.0	100.0	100.0	100.0	1.2	1.2	-90.17	-0.2	-59.8	59.8	57.0	2.87	20.872		
200.0	200.0	200.0	200.0	1.7	1.7	-90.17	-0.2	-59.8	59.8	56.0	3.86	15.488		
300.0	300.0	300.0	300.0	2.1	2.1	-90.17	-0.2	-59.8	59.8	55.2	4.63	12.914		
400.0	400.0	400.0	400.0	2.4	2.4	-90.17	-0.2	-59.8	59.8	54.5	5.29	11.318		
500.0	500.0	500.0	500.0	2.7	2.7	-90.17	-0.2	-59.8	59.8	54.0	5.87	10.200		
600.0	600.0	600.0	600.0	3.0	3.0	-90.17	-0.2	-59.8	59.8	53.4	6.39	9.359		
700.0	700.0	700.0	700.0	3.2	3.2	-90.17	-0.2	-59.8	59.8	53.0	6.88	8.695		
800.0	800.0	800.0	800.0	3.5	3.5	-90.17	-0.2	-59.8	59.8	52.5	7.34	8.153		
900.0	900.0	900.0	900.0	3.7	3.7	-90.17	-0.2	-59.8	59.8	52.1	7.77	7.700		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-90.17	-0.2	-59.8	59.8	51.7	8.18	7.313		
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	-90.17	-0.2	-59.8	59.8	51.3	8.58	6.977 CC		
1,200.0	1,200.0	1,198.0	1,198.0	4.4	4.4	-44.40	0.1	-61.5	60.3	51.2	9.11	6.618 ES		
1,300.0	1,299.8	1,295.9	1,295.8	4.7	4.7	-46.77	1.1	-66.4	61.6	52.0	9.60	6.413		
1,400.0	1,399.5	1,393.7	1,393.2	5.0	5.0	-50.46	2.7	-74.6	64.0	54.0	10.08	6.353		
1,500.0	1,498.7	1,491.4	1,490.2	5.4	5.3	-55.13	4.8	-86.1	67.9	57.4	10.53	6.449		
1,608.3	1,605.6	1,596.9	1,594.4	5.8	5.7	-60.79	7.9	-102.1	74.0	63.0	10.99	6.731		
1,700.0	1,695.9	1,686.1	1,682.0	6.0	6.0	-64.86	11.1	-118.5	81.5	70.2	11.32	7.203		
1,800.0	1,794.3	1,783.7	1,777.3	6.3	6.3	-67.42	15.1	-139.4	92.6	81.0	11.63	7.961		
1,900.0	1,892.8	1,883.0	1,874.0	6.7	6.6	-69.20	19.3	-161.5	104.5	92.4	12.04	8.675		
2,000.0	1,991.2	1,982.2	1,970.7	7.0	6.9	-70.62	23.5	-183.5	116.5	104.0	12.48	9.328		
2,100.0	2,089.6	2,081.5	2,067.3	7.3	7.3	-71.77	27.7	-205.5	128.5	115.5	12.94	9.931		
2,200.0	2,188.0	2,180.7	2,164.0	7.7	7.6	-72.72	31.9	-227.5	140.5	127.1	13.40	10.488		
2,300.0	2,286.5	2,280.0	2,260.7	8.1	8.0	-73.53	36.1	-249.5	152.6	138.8	13.87	11.003		
2,400.0	2,384.9	2,379.2	2,357.4	8.4	8.4	-74.21	40.4	-271.6	164.8	150.4	14.35	11.480		
2,505.5	2,488.7	2,483.9	2,459.4	8.8	8.8	-74.83	44.8	-294.8	177.6	162.7	14.87	11.938		
2,600.0	2,581.9	2,577.7	2,550.7	9.2	9.2	-75.20	48.8	-315.6	189.2	173.9	15.34	12.333		
2,700.0	2,680.7	2,676.9	2,647.3	9.6	9.6	-75.09	53.0	-337.6	202.0	186.2	15.88	12.720		
2,800.0	2,779.8	2,775.9	2,743.9	10.0	10.0	-74.57	57.2	-359.6	215.3	198.8	16.46	13.079		
2,900.0	2,879.1	2,874.9	2,840.3	10.4	10.4	-73.70	61.4	-381.6	229.1	212.0	17.08	13.414		
3,000.0	2,978.6	2,973.7	2,936.5	10.7	10.9	-72.55	65.6	-403.5	243.4	225.7	17.73	13.729		
3,100.0	3,078.3	3,072.4	3,032.6	11.1	11.3	-71.19	69.8	-425.4	258.4	240.0	18.42	14.028		
3,200.0	3,178.1	3,170.8	3,128.5	11.4	11.7	-69.65	74.0	-447.2	274.2	255.0	19.15	14.317		
3,300.0	3,278.0	3,269.0	3,224.2	11.7	12.2	-67.99	78.2	-469.0	290.8	270.9	19.91	14.602		
3,400.0	3,377.9	3,367.0	3,319.6	12.0	12.6	-66.23	82.3	-490.8	308.4	287.7	20.71	14.893		
3,500.0	3,477.9	3,464.6	3,414.7	12.3	13.0	-64.41	86.5	-512.4	327.0	305.5	21.52	15.197		
3,522.1	3,500.0	3,486.1	3,435.7	12.3	13.1	-110.58	87.4	-517.2	331.2	309.5	21.68	15.278		
3,600.0	3,577.9	3,562.1	3,509.6	12.4	13.5	-109.07	90.6	-534.0	346.5	324.2	22.28	15.552		
3,700.0	3,677.9	3,659.5	3,604.5	12.4	13.9	-107.32	94.7	-555.7	366.4	343.3	23.05	15.897		
3,800.0	3,777.9	3,756.9	3,699.4	12.5	14.4	-105.75	98.9	-577.3	386.5	362.7	23.80	16.243		
3,900.0	3,877.9	3,854.3	3,794.3	12.6	14.8	-104.33	103.0	-598.9	407.0	382.4	24.54	16.586		
4,000.0	3,977.9	3,951.7	3,889.2	12.7	15.3	-103.05	107.2	-620.5	427.6	402.3	25.26	16.925		
4,100.0	4,077.9	4,049.1	3,984.1	12.7	15.7	-101.88	111.3	-642.1	448.4	422.5	25.98	17.259		
4,200.0	4,177.9	4,146.5	4,079.0	12.8	16.2	-100.82	115.4	-663.7	469.4	442.7	26.69	17.587		
4,300.0	4,277.9	4,244.0	4,173.9	12.9	16.6	-99.85	119.6	-685.3	490.6	463.2	27.40	17.907		
4,400.0	4,377.9	4,341.4	4,268.8	13.0	17.1	-98.96	123.7	-707.0	511.8	483.7	28.09	18.220		
4,500.0	4,477.9	4,438.8	4,363.7	13.0	17.5	-98.14	127.9	-728.6	533.2	504.4	28.78	18.524		
4,600.0	4,577.9	4,536.2	4,458.6	13.1	18.0	-97.38	132.0	-750.2	554.7	525.2	29.47	18.820		
4,700.0	4,677.9	4,633.6	4,553.5	13.2	18.4	-96.68	136.1	-771.8	576.2	546.1	30.16	19.108		
4,800.0	4,777.9	4,731.0	4,648.4	13.3	18.9	-96.03	140.3	-793.4	597.9	567.0	30.84	19.388		
4,900.0	4,877.9	4,828.4	4,743.3	13.3	19.3	-95.43	144.4	-815.0	619.6	588.0	31.52	19.659		

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

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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 710H	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)				
5,000.0	4,977.9	4,925.9	4,838.2	13.4	19.8	-94.86	148.5	-836.7	641.3	609.1	32.19	19.922		
5,100.0	5,077.9	5,023.3	4,933.1	13.5	20.3	-94.33	152.7	-858.3	663.1	630.3	32.87	20.177		
5,200.0	5,177.9	5,120.7	5,028.0	13.6	20.7	-93.84	156.8	-879.9	685.0	651.5	33.54	20.424		
5,300.0	5,277.9	5,218.1	5,122.9	13.6	21.2	-93.38	161.0	-901.5	706.9	672.7	34.21	20.664		
5,400.0	5,377.9	5,317.3	5,219.5	13.7	21.6	-92.93	165.2	-923.5	728.9	694.0	34.89	20.888		
5,500.0	5,477.9	5,429.0	5,328.6	13.8	22.2	-92.49	169.7	-947.0	749.7	714.0	35.65	21.031		
5,600.0	5,577.9	5,541.6	5,439.1	13.9	22.7	-92.11	173.8	-968.5	768.7	732.3	36.38	21.132		
5,700.0	5,677.9	5,655.1	5,550.8	13.9	23.2	-91.78	177.5	-988.1	785.8	748.7	37.08	21.193		
5,800.0	5,777.9	5,769.3	5,663.6	14.0	23.7	-91.50	180.9	-1,005.6	801.0	763.3	37.75	21.218		
5,900.0	5,877.9	5,884.3	5,777.5	14.1	24.2	-91.26	183.8	-1,020.9	814.3	775.9	38.39	21.209		
6,000.0	5,977.9	5,999.8	5,892.2	14.2	24.7	-91.06	186.3	-1,034.1	825.7	786.7	39.00	21.170		
6,100.0	6,077.9	6,115.8	6,007.7	14.2	25.1	-90.91	188.4	-1,045.0	835.1	795.5	39.57	21.104		
6,200.0	6,177.9	6,232.2	6,123.7	14.3	25.5	-90.78	190.1	-1,053.7	842.5	802.4	40.09	21.014		
6,300.0	6,277.9	6,348.9	6,240.3	14.4	26.0	-90.70	191.3	-1,060.1	847.9	807.4	40.56	20.904		
6,400.0	6,377.9	6,465.8	6,357.1	14.5	26.3	-90.64	192.1	-1,064.1	851.4	810.4	40.97	20.782		
6,500.0	6,477.9	6,582.9	6,474.2	14.5	26.6	-90.62	192.4	-1,065.8	852.8	811.6	41.19	20.703		
6,600.0	6,577.9	6,686.6	6,577.9	14.6	26.6	-90.62	192.4	-1,065.8	852.9	811.6	41.30	20.651		
6,700.0	6,677.9	6,786.6	6,677.9	14.7	26.6	-90.62	192.4	-1,065.8	852.9	811.5	41.39	20.604		
6,800.0	6,777.9	6,886.6	6,777.9	14.8	26.7	-90.62	192.4	-1,065.8	852.9	811.4	41.49	20.557		
6,900.0	6,877.9	6,986.6	6,877.9	14.8	26.7	-90.62	192.4	-1,065.8	852.9	811.3	41.59	20.509		
7,000.0	6,977.9	7,086.6	6,977.9	14.9	26.7	-90.62	192.4	-1,065.8	852.9	811.2	41.68	20.462		
7,100.0	7,077.9	7,186.6	7,077.9	15.0	26.8	-90.62	192.4	-1,065.8	852.9	811.1	41.78	20.415		
7,200.0	7,177.9	7,286.6	7,177.9	15.1	26.8	-90.62	192.4	-1,065.8	852.9	811.0	41.87	20.368		
7,300.0	7,277.9	7,386.6	7,277.9	15.2	26.9	-90.62	192.4	-1,065.8	852.9	810.9	41.97	20.321		
7,400.0	7,377.9	7,486.6	7,377.9	15.2	26.9	-90.62	192.4	-1,065.8	852.9	810.8	42.07	20.273		
7,500.0	7,477.9	7,586.6	7,477.9	15.3	26.9	-90.62	192.4	-1,065.8	852.9	810.7	42.17	20.226		
7,600.0	7,577.9	7,686.6	7,577.9	15.4	27.0	-90.62	192.4	-1,065.8	852.9	810.6	42.27	20.179		
7,700.0	7,677.9	7,786.6	7,677.9	15.5	27.0	-90.62	192.4	-1,065.8	852.9	810.5	42.36	20.132		
7,800.0	7,777.9	7,886.6	7,777.9	15.5	27.0	-90.62	192.4	-1,065.8	852.9	810.4	42.46	20.085		
7,900.0	7,877.9	7,986.6	7,877.9	15.6	27.1	-90.62	192.4	-1,065.8	852.9	810.3	42.56	20.038		
8,000.0	7,977.9	8,086.6	7,977.9	15.7	27.1	-90.62	192.4	-1,065.8	852.9	810.2	42.66	19.991		
8,100.0	8,077.9	8,186.6	8,077.9	15.8	27.1	-90.62	192.4	-1,065.8	852.9	810.1	42.76	19.944		
8,200.0	8,177.9	8,286.6	8,177.9	15.8	27.2	-90.62	192.4	-1,065.8	852.9	810.0	42.86	19.898		
8,300.0	8,277.9	8,386.6	8,277.9	15.9	27.2	-90.62	192.4	-1,065.8	852.9	809.9	42.96	19.851		
8,400.0	8,377.9	8,486.6	8,377.9	16.0	27.2	-90.62	192.4	-1,065.8	852.9	809.8	43.07	19.804		
8,500.0	8,477.9	8,586.6	8,477.9	16.1	27.3	-90.62	192.4	-1,065.8	852.9	809.7	43.17	19.757		
8,600.0	8,577.9	8,686.6	8,577.9	16.2	27.3	-90.62	192.4	-1,065.8	852.9	809.6	43.27	19.711		
8,700.0	8,677.9	8,786.6	8,677.9	16.2	27.4	-90.62	192.4	-1,065.8	852.9	809.5	43.37	19.664		
8,800.0	8,777.9	8,886.6	8,777.9	16.3	27.4	-90.62	192.4	-1,065.8	852.9	809.4	43.48	19.618		
8,900.0	8,877.9	8,986.6	8,877.9	16.4	27.4	-90.62	192.4	-1,065.8	852.9	809.3	43.58	19.571		
9,000.0	8,977.9	9,086.6	8,977.9	16.5	27.5	-90.62	192.4	-1,065.8	852.9	809.2	43.68	19.525		
9,100.0	9,077.9	9,186.6	9,077.9	16.5	27.5	-90.62	192.4	-1,065.8	852.9	809.1	43.79	19.479		
9,200.0	9,177.9	9,286.6	9,177.9	16.6	27.5	-90.62	192.4	-1,065.8	852.9	809.0	43.89	19.432		
9,300.0	9,277.9	9,386.6	9,277.9	16.7	27.6	-90.62	192.4	-1,065.8	852.9	808.9	43.99	19.386		
9,400.0	9,377.9	9,486.6	9,377.9	16.8	27.6	-90.62	192.4	-1,065.8	852.9	808.8	44.10	19.340		
9,500.0	9,477.9	9,586.6	9,477.9	16.9	27.7	-90.62	192.4	-1,065.8	852.9	808.7	44.20	19.294		
9,600.0	9,577.9	9,686.6	9,577.9	16.9	27.7	-90.62	192.4	-1,065.8	852.9	808.6	44.31	19.248		
9,700.0	9,677.9	9,786.6	9,677.9	17.0	27.7	-90.62	192.4	-1,065.8	852.9	808.5	44.42	19.202		
9,800.0	9,777.9	9,886.6	9,777.9	17.1	27.8	-90.62	192.4	-1,065.8	852.9	808.4	44.52	19.156		
9,900.0	9,877.9	9,986.6	9,877.9	17.2	27.8	-90.62	192.4	-1,065.8	852.9	808.3	44.63	19.110		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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)				
10,000.0	9,977.9	10,086.6	9,977.9	17.2	27.9	-90.62	192.4	-1,065.8	852.9	808.1	44.74	19.065		
10,100.0	10,077.9	10,186.6	10,077.9	17.3	27.9	-90.62	192.4	-1,065.8	852.9	808.0	44.84	19.019		
10,200.0	10,177.9	10,286.6	10,177.9	17.4	27.9	-90.62	192.4	-1,065.8	852.9	807.9	44.95	18.974		
10,300.0	10,277.9	10,386.6	10,277.9	17.5	28.0	-90.62	192.4	-1,065.8	852.9	807.8	45.06	18.928		
10,400.0	10,377.9	10,486.6	10,377.9	17.6	28.0	-90.62	192.4	-1,065.8	852.9	807.7	45.17	18.883		
10,500.0	10,477.9	10,586.6	10,477.9	17.6	28.1	-90.62	192.4	-1,065.8	852.9	807.6	45.28	18.838		
10,600.0	10,577.9	10,686.6	10,577.9	17.7	28.1	-90.62	192.4	-1,065.8	852.9	807.5	45.38	18.792		
10,700.0	10,677.9	10,786.6	10,677.9	17.8	28.1	-90.62	192.4	-1,065.8	852.9	807.4	45.49	18.747		
10,800.0	10,777.9	10,886.6	10,777.9	17.9	28.2	-90.62	192.4	-1,065.8	852.9	807.3	45.60	18.702		
10,900.0	10,877.9	10,986.6	10,877.9	17.9	28.2	-90.62	192.4	-1,065.8	852.9	807.2	45.71	18.657		
11,000.0	10,977.9	11,086.6	10,977.9	18.0	28.3	-90.62	192.4	-1,065.8	852.9	807.1	45.82	18.612		
11,100.0	11,077.9	11,186.6	11,077.9	18.1	28.3	-90.62	192.4	-1,065.8	852.9	807.0	45.93	18.568		
11,200.0	11,177.9	11,286.6	11,177.9	18.2	28.3	-90.62	192.4	-1,065.8	852.9	806.8	46.04	18.523		
11,300.0	11,277.9	11,386.6	11,277.9	18.3	28.4	-90.62	192.4	-1,065.8	852.9	806.7	46.16	18.479		
11,400.0	11,377.9	11,486.6	11,377.9	18.3	28.4	-90.62	192.4	-1,065.8	852.9	806.6	46.27	18.434		
11,500.0	11,477.9	11,586.6	11,477.9	18.4	28.5	-90.62	192.4	-1,065.8	852.9	806.5	46.38	18.390		
11,600.0	11,577.9	11,686.6	11,577.9	18.5	28.5	-90.62	192.4	-1,065.8	852.9	806.4	46.49	18.346		
11,700.0	11,677.9	11,786.6	11,677.9	18.6	28.6	-90.62	192.4	-1,065.8	852.9	806.3	46.60	18.301		
11,800.0	11,777.9	11,886.6	11,777.9	18.7	28.6	-90.62	192.4	-1,065.8	852.9	806.2	46.71	18.257		
11,900.0	11,877.9	11,986.6	11,877.9	18.7	28.6	-90.62	192.4	-1,065.8	852.9	806.1	46.83	18.214		
11,911.6	11,889.5	11,998.2	11,889.5	18.7	28.6	-90.62	192.4	-1,065.8	852.9	806.0	46.84	18.210		
11,925.0	11,902.9	12,011.5	11,902.8	18.7	28.6	89.73	192.2	-1,065.8	852.9	806.0	46.84	18.208		
11,950.0	11,927.9	12,036.3	11,927.5	18.7	28.6	89.74	190.9	-1,065.8	852.9	806.0	46.84	18.210		
11,975.0	11,952.7	12,061.1	11,952.2	18.7	28.6	89.74	188.3	-1,065.8	852.9	806.1	46.82	18.214		
12,000.0	11,977.4	12,085.8	11,976.6	18.6	28.6	89.74	184.4	-1,065.8	852.9	806.1	46.81	18.219		
12,025.0	12,001.9	12,110.6	12,000.9	18.6	28.6	89.74	179.3	-1,065.8	852.9	806.1	46.80	18.224		
12,050.0	12,026.0	12,135.4	12,024.8	18.5	28.5	89.75	172.8	-1,065.7	852.9	806.1	46.79	18.230		
12,075.0	12,049.8	12,160.2	12,048.4	18.5	28.5	89.75	165.2	-1,065.7	852.9	806.1	46.77	18.236		
12,100.0	12,073.1	12,185.0	12,071.6	18.4	28.5	89.75	156.4	-1,065.6	852.9	806.1	46.75	18.242		
12,125.0	12,095.9	12,209.8	12,094.2	18.4	28.5	89.76	146.3	-1,065.6	852.9	806.2	46.74	18.249		
12,150.0	12,118.1	12,234.6	12,116.3	18.3	28.4	89.77	135.1	-1,065.5	852.9	806.2	46.72	18.255		
12,175.0	12,139.8	12,259.4	12,137.9	18.3	28.4	89.77	122.8	-1,065.4	852.9	806.2	46.71	18.261		
12,200.0	12,160.7	12,284.2	12,158.7	18.2	28.4	89.78	109.3	-1,065.4	852.9	806.2	46.69	18.267		
12,225.0	12,180.9	12,309.0	12,178.8	18.2	28.4	89.79	94.8	-1,065.3	852.9	806.2	46.68	18.273		
12,250.0	12,200.3	12,333.8	12,198.2	18.2	28.4	89.80	79.2	-1,065.2	852.9	806.3	46.67	18.278		
12,275.0	12,218.8	12,358.7	12,216.7	18.1	28.4	89.81	62.7	-1,065.1	852.9	806.3	46.65	18.282		
12,300.0	12,236.5	12,383.5	12,234.3	18.1	28.3	89.82	45.2	-1,065.0	852.9	806.3	46.65	18.285		
12,325.0	12,253.2	12,408.4	12,251.0	18.1	28.3	89.83	26.8	-1,064.9	852.9	806.3	46.64	18.287		
12,350.0	12,268.9	12,433.2	12,266.8	18.0	28.3	89.84	7.6	-1,064.8	853.0	806.3	46.64	18.288		
12,375.0	12,283.5	12,458.1	12,281.5	18.0	28.3	89.85	-12.4	-1,064.7	853.0	806.3	46.64	18.288		
12,400.0	12,297.1	12,483.0	12,295.2	18.0	28.3	89.86	-33.2	-1,064.5	853.0	806.3	46.65	18.286		
12,425.0	12,309.5	12,507.8	12,307.7	18.0	28.3	89.87	-54.7	-1,064.4	853.0	806.3	46.65	18.283		
12,450.0	12,320.9	12,532.7	12,319.2	18.0	28.3	89.89	-76.8	-1,064.3	853.0	806.3	46.67	18.278		
12,475.0	12,331.0	12,557.7	12,329.4	17.9	28.3	89.90	-99.5	-1,064.2	853.0	806.3	46.69	18.271		
12,500.0	12,339.9	12,582.6	12,338.5	17.9	28.3	89.91	-122.7	-1,064.0	853.0	806.3	46.71	18.262		
12,525.0	12,347.6	12,607.5	12,346.4	17.9	28.3	89.92	-146.4	-1,063.9	853.0	806.3	46.74	18.251		
12,550.0	12,354.0	12,632.4	12,353.0	18.0	28.3	89.94	-170.4	-1,063.8	853.0	806.3	46.77	18.238		
12,575.0	12,359.1	12,657.4	12,358.4	18.0	28.4	89.95	-194.8	-1,063.6	853.0	806.2	46.81	18.223		
12,600.0	12,363.0	12,682.4	12,362.4	18.0	28.4	89.96	-219.4	-1,063.5	853.0	806.2	46.86	18.206		
12,625.0	12,365.6	12,707.3	12,365.2	18.0	28.4	89.98	-244.2	-1,063.3	853.1	806.2	46.91	18.187		
12,650.0	12,366.8	12,732.3	12,366.7	18.0	28.4	89.99	-269.2	-1,063.2	853.1	806.1	46.96	18.166		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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 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		
12,661.6	12,367.0	12,743.9	12,366.9	18.0	28.4	90.00	-280.7	-1,063.1	853.1	806.1	46.99	18.155		
12,700.0	12,367.0	12,782.3	12,367.0	18.1	28.5	90.00	-319.1	-1,062.9	853.1	806.0	47.09	18.116		
12,800.0	12,367.0	12,882.3	12,367.0	18.3	28.6	90.00	-419.1	-1,062.3	853.1	805.7	47.43	17.988		
12,900.0	12,367.0	12,982.3	12,367.0	18.5	28.8	90.00	-519.1	-1,061.8	853.2	805.3	47.84	17.834		
13,000.0	12,367.0	13,082.3	12,367.0	18.8	29.0	90.00	-619.1	-1,061.2	853.2	804.9	48.32	17.656		
13,100.0	12,367.0	13,182.3	12,367.0	19.1	29.3	90.00	-719.1	-1,060.6	853.3	804.4	48.88	17.457		
13,200.0	12,367.0	13,282.3	12,367.0	19.4	29.6	90.00	-819.1	-1,060.1	853.3	803.8	49.50	17.239		
13,300.0	12,367.0	13,382.3	12,367.0	19.9	29.9	90.00	-919.1	-1,059.5	853.3	803.2	50.19	17.004		
13,400.0	12,367.0	13,482.3	12,367.0	20.3	30.2	90.00	-1,019.1	-1,058.9	853.4	802.5	50.93	16.755		
13,500.0	12,367.0	13,582.3	12,367.0	20.8	30.6	90.00	-1,119.1	-1,058.4	853.4	801.7	51.74	16.494		
13,600.0	12,367.0	13,682.3	12,367.0	21.3	30.9	90.00	-1,219.1	-1,057.8	853.5	800.9	52.61	16.224		
13,700.0	12,367.0	13,782.3	12,367.0	21.9	31.3	90.00	-1,319.1	-1,057.2	853.5	800.0	53.52	15.946		
13,800.0	12,367.0	13,882.3	12,367.0	22.5	31.8	90.00	-1,419.1	-1,056.6	853.6	799.1	54.49	15.663		
13,900.0	12,367.0	13,982.3	12,367.0	23.1	32.2	90.00	-1,519.1	-1,056.1	853.6	798.1	55.51	15.377		
14,000.0	12,367.0	14,082.3	12,367.0	23.7	32.7	90.00	-1,619.1	-1,055.5	853.6	797.1	56.58	15.088		
14,100.0	12,367.0	14,182.3	12,367.0	24.4	33.2	90.00	-1,719.1	-1,054.9	853.7	796.0	57.68	14.799		
14,200.0	12,367.0	14,282.3	12,367.0	25.1	33.7	90.00	-1,819.1	-1,054.4	853.7	794.9	58.83	14.511		
14,300.0	12,367.0	14,382.3	12,367.0	25.8	34.2	90.00	-1,919.1	-1,053.8	853.8	793.7	60.02	14.225		
14,400.0	12,367.0	14,482.3	12,367.0	26.5	34.8	90.00	-2,019.1	-1,053.2	853.8	792.6	61.24	13.942		
14,500.0	12,367.0	14,582.3	12,367.0	27.2	35.4	90.00	-2,119.1	-1,052.7	853.8	791.4	62.50	13.662		
14,600.0	12,367.0	14,682.3	12,367.0	28.0	36.0	90.00	-2,219.1	-1,052.1	853.9	790.1	63.79	13.387		
14,700.0	12,367.0	14,782.3	12,367.0	28.7	36.6	90.00	-2,319.1	-1,051.5	853.9	788.8	65.11	13.116		
14,800.0	12,367.0	14,882.3	12,367.0	29.5	37.2	90.00	-2,419.1	-1,050.9	854.0	787.5	66.45	12.851		
14,900.0	12,367.0	14,982.3	12,367.0	30.3	37.8	90.00	-2,519.1	-1,050.4	854.0	786.2	67.83	12.591		
15,000.0	12,367.0	15,082.3	12,367.0	31.1	38.5	90.00	-2,619.1	-1,049.8	854.1	784.8	69.23	12.337		
15,100.0	12,367.0	15,182.3	12,367.0	31.9	39.1	90.00	-2,719.1	-1,049.2	854.1	783.5	70.65	12.089		
15,200.0	12,367.0	15,282.3	12,367.0	32.7	39.8	90.00	-2,819.1	-1,048.7	854.1	782.1	72.09	11.848		
15,300.0	12,367.0	15,382.3	12,367.0	33.5	40.5	90.00	-2,919.1	-1,048.1	854.2	780.6	73.56	11.612		
15,400.0	12,367.0	15,482.3	12,367.0	34.3	41.2	90.00	-3,019.1	-1,047.5	854.2	779.2	75.04	11.383		
15,500.0	12,367.0	15,582.3	12,367.0	35.2	41.9	90.00	-3,119.1	-1,047.0	854.3	777.7	76.55	11.160		
15,600.0	12,367.0	15,682.3	12,367.0	36.0	42.6	90.00	-3,219.1	-1,046.4	854.3	776.2	78.07	10.943		
15,700.0	12,367.0	15,782.3	12,367.0	36.9	43.3	90.00	-3,319.1	-1,045.8	854.4	774.7	79.61	10.732		
15,800.0	12,367.0	15,882.3	12,367.0	37.7	44.0	90.00	-3,419.1	-1,045.2	854.4	773.2	81.16	10.527		
15,900.0	12,367.0	15,982.3	12,367.0	38.6	44.8	90.00	-3,519.1	-1,044.7	854.4	771.7	82.73	10.329		
16,000.0	12,367.0	16,082.3	12,367.0	39.4	45.5	90.00	-3,619.1	-1,044.1	854.5	770.2	84.31	10.135		
16,100.0	12,367.0	16,182.3	12,367.0	40.3	46.3	90.00	-3,719.1	-1,043.5	854.5	768.6	85.90	9.948		
16,200.0	12,367.0	16,282.3	12,367.0	41.2	47.0	90.00	-3,819.1	-1,043.0	854.6	767.1	87.51	9.766		
16,300.0	12,367.0	16,382.3	12,367.0	42.1	47.8	90.00	-3,919.1	-1,042.4	854.6	765.5	89.13	9.589		
16,400.0	12,367.0	16,482.3	12,367.0	42.9	48.6	90.00	-4,019.1	-1,041.8	854.7	763.9	90.75	9.417		
16,500.0	12,367.0	16,582.3	12,367.0	43.8	49.4	90.00	-4,119.1	-1,041.3	854.7	762.3	92.39	9.251		
16,600.0	12,367.0	16,682.3	12,367.0	44.7	50.2	90.00	-4,219.1	-1,040.7	854.7	760.7	94.04	9.089		
16,700.0	12,367.0	16,782.3	12,367.0	45.6	51.0	90.00	-4,319.1	-1,040.1	854.8	759.1	95.70	8.932		
16,800.0	12,367.0	16,882.3	12,367.0	46.5	51.8	90.00	-4,419.1	-1,039.5	854.8	757.5	97.37	8.779		
16,900.0	12,367.0	16,982.3	12,367.0	47.4	52.6	90.00	-4,519.1	-1,039.0	854.9	755.8	99.04	8.631		
17,000.0	12,367.0	17,082.3	12,367.0	48.3	53.4	90.00	-4,619.1	-1,038.4	854.9	754.2	100.73	8.487		
17,100.0	12,367.0	17,182.3	12,367.0	49.2	54.2	90.00	-4,719.1	-1,037.8	854.9	752.5	102.42	8.347		
17,200.0	12,367.0	17,282.3	12,367.0	50.1	55.0	90.00	-4,819.1	-1,037.3	855.0	750.9	104.12	8.212		
17,300.0	12,367.0	17,382.3	12,367.0	51.0	55.8	90.00	-4,919.1	-1,036.7	855.0	749.2	105.82	8.080		
17,400.0	12,367.0	17,482.3	12,367.0	51.9	56.7	90.00	-5,019.1	-1,036.1	855.1	747.5	107.54	7.952		
17,500.0	12,367.0	17,582.3	12,367.0	52.8	57.5	90.00	-5,119.1	-1,035.5	855.1	745.9	109.25	7.827		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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:		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)			
17,600.0	12,367.0	17,682.3	12,367.0	53.7	58.3	90.00	-5,219.1	-1,035.0	855.2	744.2	110.98	7.706	
17,700.0	12,367.0	17,782.3	12,367.0	54.6	59.2	90.00	-5,319.1	-1,034.4	855.2	742.5	112.71	7.588	
17,800.0	12,367.0	17,882.3	12,367.0	55.5	60.0	90.00	-5,419.1	-1,033.8	855.2	740.8	114.44	7.473	
17,900.0	12,367.0	17,982.3	12,367.0	56.5	60.9	90.00	-5,519.1	-1,033.3	855.3	739.1	116.18	7.362	
18,000.0	12,367.0	18,082.3	12,367.0	57.4	61.7	90.00	-5,619.1	-1,032.7	855.3	737.4	117.93	7.253	
18,100.0	12,367.0	18,182.3	12,367.0	58.3	62.6	90.00	-5,719.1	-1,032.1	855.4	735.7	119.68	7.147	
18,200.0	12,367.0	18,282.3	12,367.0	59.2	63.5	90.00	-5,819.1	-1,031.6	855.4	734.0	121.43	7.044	
18,300.0	12,367.0	18,382.3	12,367.0	60.1	64.3	90.00	-5,919.1	-1,031.0	855.5	732.3	123.19	6.944	
18,400.0	12,367.0	18,482.3	12,367.0	61.1	65.2	90.00	-6,019.1	-1,030.4	855.5	730.5	124.95	6.846	
18,500.0	12,367.0	18,582.3	12,367.0	62.0	66.1	90.00	-6,119.1	-1,029.8	855.5	728.8	126.72	6.751	
18,600.0	12,367.0	18,682.3	12,367.0	62.9	66.9	90.00	-6,219.0	-1,029.3	855.6	727.1	128.49	6.659	
18,700.0	12,367.0	18,782.3	12,367.0	63.8	67.8	90.00	-6,319.0	-1,028.7	855.6	725.4	130.27	6.568	
18,800.0	12,367.0	18,882.3	12,367.0	64.8	68.7	90.00	-6,419.0	-1,028.1	855.7	723.6	132.04	6.480	
18,900.0	12,367.0	18,982.3	12,367.0	65.7	69.5	90.00	-6,519.0	-1,027.6	855.7	721.9	133.83	6.394	
19,000.0	12,367.0	19,082.3	12,367.0	66.6	70.4	90.00	-6,619.0	-1,027.0	855.7	720.1	135.61	6.310	
19,100.0	12,367.0	19,182.3	12,367.0	67.5	71.3	90.00	-6,719.0	-1,026.4	855.8	718.4	137.40	6.229	
19,200.0	12,367.0	19,282.3	12,367.0	68.5	72.2	90.00	-6,819.0	-1,025.9	855.8	716.6	139.19	6.149	
19,300.0	12,367.0	19,382.3	12,367.0	69.4	73.1	90.00	-6,919.0	-1,025.3	855.9	714.9	140.98	6.071	
19,400.0	12,367.0	19,482.3	12,367.0	70.3	74.0	90.00	-7,019.0	-1,024.7	855.9	713.1	142.78	5.995	
19,500.0	12,367.0	19,582.3	12,367.0	71.3	74.9	90.00	-7,119.0	-1,024.1	856.0	711.4	144.58	5.920	
19,600.4	12,367.0	19,681.5	12,367.0	72.2	75.7	90.00	-7,218.2	-1,023.6	856.0	709.6	146.38	5.848 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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)		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	89.30	0.4	29.9	29.9	29.4	0.48	62.331	
100.0	100.0	100.0	100.0	1.2	1.2	89.30	0.4	29.9	29.9	27.0	2.87	10.424	
200.0	200.0	200.0	200.0	1.7	1.7	89.30	0.4	29.9	29.9	26.0	3.86	7.735	
300.0	300.0	300.0	300.0	2.1	2.1	89.30	0.4	29.9	29.9	25.3	4.63	6.450	
400.0	400.0	400.0	400.0	2.4	2.4	89.30	0.4	29.9	29.9	24.6	5.29	5.653	
500.0	500.0	500.0	500.0	2.7	2.7	89.30	0.4	29.9	29.9	24.0	5.87	5.094	
600.0	600.0	600.0	600.0	3.0	3.0	89.30	0.4	29.9	29.9	23.5	6.39	4.674	
700.0	700.0	700.0	700.0	3.2	3.2	89.30	0.4	29.9	29.9	23.0	6.88	4.343	
800.0	800.0	800.0	800.0	3.5	3.5	89.30	0.4	29.9	29.9	22.5	7.34	4.072	
900.0	900.0	900.0	900.0	3.7	3.7	89.30	0.4	29.9	29.9	22.1	7.77	3.846	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	89.30	0.4	29.9	29.9	21.7	8.18	3.652	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	89.30	0.4	29.9	29.9	21.3	8.58	3.485 CC, ES	
1,200.0	1,200.0	1,199.2	1,199.2	4.4	4.4	135.74	1.6	31.0	32.3	23.3	9.06	3.567	
1,300.0	1,299.8	1,298.1	1,298.0	4.7	4.7	135.42	5.5	34.5	39.6	30.1	9.53	4.154	
1,400.0	1,399.5	1,396.3	1,395.8	5.0	5.0	135.05	11.7	40.1	51.7	41.7	10.00	5.166	
1,500.0	1,498.7	1,493.5	1,492.3	5.4	5.3	134.70	20.4	47.9	68.5	58.0	10.47	6.538	
1,608.3	1,605.6	1,598.1	1,595.6	5.8	5.6	134.46	32.3	58.6	91.8	80.9	10.93	8.403	
1,700.0	1,695.9	1,687.2	1,683.6	6.0	5.8	134.91	42.9	68.1	113.2	101.9	11.32	10.004	
1,800.0	1,794.3	1,784.5	1,779.6	6.3	6.1	135.23	54.4	78.5	136.5	124.8	11.77	11.597	
1,900.0	1,892.8	1,881.7	1,875.6	6.7	6.4	135.46	66.0	88.9	159.9	147.6	12.25	13.051	
2,000.0	1,991.2	1,978.9	1,971.6	7.0	6.7	135.64	77.5	99.3	183.2	170.5	12.74	14.379	
2,100.0	2,089.6	2,076.2	2,067.6	7.3	7.1	135.77	89.1	109.7	206.6	193.3	13.25	15.592	
2,200.0	2,188.0	2,173.4	2,163.5	7.7	7.4	135.88	100.7	120.1	229.9	216.1	13.77	16.700	
2,300.0	2,286.5	2,270.6	2,259.5	8.1	7.8	135.96	112.2	130.5	253.3	239.0	14.30	17.714	
2,400.0	2,384.9	2,367.9	2,355.5	8.4	8.1	136.03	123.8	140.9	276.6	261.8	14.84	18.643	
2,505.5	2,488.7	2,470.4	2,456.8	8.8	8.5	136.10	136.0	151.8	301.2	285.8	15.42	19.530	
2,600.0	2,581.9	2,562.5	2,547.6	9.2	8.9	136.20	146.9	161.7	322.7	306.8	15.94	20.247	
2,700.0	2,680.7	2,662.6	2,646.5	9.6	9.3	136.14	158.5	172.1	344.1	327.6	16.51	20.841	
2,800.0	2,779.8	2,765.0	2,747.9	10.0	9.7	136.09	169.2	181.7	363.1	346.0	17.09	21.251	
2,900.0	2,879.1	2,868.1	2,850.2	10.4	10.1	136.05	178.6	190.2	379.8	362.1	17.66	21.508	
3,000.0	2,978.6	2,971.8	2,953.4	10.7	10.5	136.02	186.6	197.4	394.0	375.7	18.21	21.629	
3,100.0	3,078.3	3,076.0	3,057.2	11.1	10.8	136.00	193.3	203.4	405.7	386.9	18.76	21.630	
3,200.0	3,178.1	3,180.6	3,161.5	11.4	11.2	135.99	198.6	208.2	415.0	395.7	19.28	21.527	
3,300.0	3,278.0	3,285.6	3,266.4	11.7	11.5	135.98	202.5	211.7	421.7	402.0	19.77	21.333	
3,400.0	3,377.9	3,390.7	3,371.5	12.0	11.9	135.98	205.0	213.9	426.0	405.8	20.22	21.066	
3,500.0	3,477.9	3,496.0	3,476.8	12.3	12.1	135.98	206.0	214.9	427.8	407.2	20.61	20.757	
3,522.1	3,500.0	3,519.3	3,500.0	12.3	12.1	89.40	206.1	214.9	427.9	407.3	20.65	20.724	
3,548.0	3,526.0	3,545.3	3,526.0	12.3	12.2	89.40	206.1	214.9	427.9	407.2	20.69	20.684	
3,600.0	3,577.9	3,597.2	3,577.9	12.4	12.2	89.40	206.1	214.9	427.9	407.1	20.77	20.605	
3,700.0	3,677.9	3,697.2	3,677.9	12.4	12.3	89.40	206.1	214.9	427.9	407.0	20.94	20.434	
3,800.0	3,777.9	3,797.2	3,777.9	12.5	12.4	89.40	206.1	214.9	427.9	406.8	21.11	20.266	
3,900.0	3,877.9	3,897.2	3,877.9	12.6	12.4	89.40	206.1	214.9	427.9	406.6	21.29	20.101	
4,000.0	3,977.9	3,997.2	3,977.9	12.7	12.5	89.40	206.1	214.9	427.9	406.4	21.46	19.939	
4,100.0	4,077.9	4,097.2	4,077.9	12.7	12.6	89.40	206.1	214.9	427.9	406.3	21.63	19.779	
4,200.0	4,177.9	4,197.2	4,177.9	12.8	12.7	89.40	206.1	214.9	427.9	406.1	21.81	19.622	
4,300.0	4,277.9	4,297.2	4,277.9	12.9	12.7	89.40	206.1	214.9	427.9	405.9	21.98	19.468	
4,400.0	4,377.9	4,397.2	4,377.9	13.0	12.8	89.40	206.1	214.9	427.9	405.8	22.15	19.317	
4,500.0	4,477.9	4,497.2	4,477.9	13.0	12.9	89.40	206.1	214.9	427.9	405.6	22.32	19.168	
4,600.0	4,577.9	4,597.2	4,577.9	13.1	13.0	89.40	206.1	214.9	427.9	405.4	22.50	19.021	
4,700.0	4,677.9	4,697.2	4,677.9	13.2	13.0	89.40	206.1	214.9	427.9	405.2	22.67	18.877	
4,800.0	4,777.9	4,797.2	4,777.9	13.3	13.1	89.40	206.1	214.9	427.9	405.1	22.84	18.735	

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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		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	
4,900.0	4,877.9	4,897.2	4,877.9	13.3	13.2	89.40	206.1	214.9	427.9	404.9	23.01	18.595	
5,000.0	4,977.9	4,997.2	4,977.9	13.4	13.3	89.40	206.1	214.9	427.9	404.7	23.18	18.458	
5,100.0	5,077.9	5,097.2	5,077.9	13.5	13.3	89.40	206.1	214.9	427.9	404.6	23.35	18.322	
5,200.0	5,177.9	5,197.2	5,177.9	13.6	13.4	89.40	206.1	214.9	427.9	404.4	23.53	18.189	
5,300.0	5,277.9	5,297.2	5,277.9	13.6	13.5	89.40	206.1	214.9	427.9	404.2	23.70	18.058	
5,400.0	5,377.9	5,397.2	5,377.9	13.7	13.6	89.40	206.1	214.9	427.9	404.0	23.87	17.928	
5,500.0	5,477.9	5,497.2	5,477.9	13.8	13.7	89.40	206.1	214.9	427.9	403.9	24.04	17.801	
5,600.0	5,577.9	5,597.2	5,577.9	13.9	13.7	89.40	206.1	214.9	427.9	403.7	24.21	17.676	
5,700.0	5,677.9	5,697.2	5,677.9	13.9	13.8	89.40	206.1	214.9	427.9	403.5	24.38	17.552	
5,800.0	5,777.9	5,797.2	5,777.9	14.0	13.9	89.40	206.1	214.9	427.9	403.4	24.55	17.430	
5,900.0	5,877.9	5,897.2	5,877.9	14.1	14.0	89.40	206.1	214.9	427.9	403.2	24.72	17.310	
6,000.0	5,977.9	5,997.2	5,977.9	14.2	14.0	89.40	206.1	214.9	427.9	403.0	24.89	17.192	
6,100.0	6,077.9	6,097.2	6,077.9	14.2	14.1	89.40	206.1	214.9	427.9	402.8	25.06	17.075	
6,200.0	6,177.9	6,197.2	6,177.9	14.3	14.2	89.40	206.1	214.9	427.9	402.7	25.23	16.961	
6,300.0	6,277.9	6,297.2	6,277.9	14.4	14.3	89.40	206.1	214.9	427.9	402.5	25.40	16.847	
6,400.0	6,377.9	6,397.2	6,377.9	14.5	14.4	89.40	206.1	214.9	427.9	402.3	25.57	16.735	
6,500.0	6,477.9	6,497.2	6,477.9	14.5	14.4	89.40	206.1	214.9	427.9	402.2	25.74	16.625	
6,600.0	6,577.9	6,597.2	6,577.9	14.6	14.5	89.40	206.1	214.9	427.9	402.0	25.91	16.517	
6,700.0	6,677.9	6,697.2	6,677.9	14.7	14.6	89.40	206.1	214.9	427.9	401.8	26.08	16.409	
6,800.0	6,777.9	6,797.2	6,777.9	14.8	14.7	89.40	206.1	214.9	427.9	401.7	26.25	16.304	
6,900.0	6,877.9	6,897.2	6,877.9	14.8	14.7	89.40	206.1	214.9	427.9	401.5	26.42	16.199	
7,000.0	6,977.9	6,997.2	6,977.9	14.9	14.8	89.40	206.1	214.9	427.9	401.3	26.58	16.096	
7,100.0	7,077.9	7,097.2	7,077.9	15.0	14.9	89.40	206.1	214.9	427.9	401.2	26.75	15.995	
7,200.0	7,177.9	7,197.2	7,177.9	15.1	15.0	89.40	206.1	214.9	427.9	401.0	26.92	15.894	
7,300.0	7,277.9	7,297.2	7,277.9	15.2	15.1	89.40	206.1	214.9	427.9	400.8	27.09	15.796	
7,400.0	7,377.9	7,397.2	7,377.9	15.2	15.1	89.40	206.1	214.9	427.9	400.6	27.26	15.698	
7,500.0	7,477.9	7,497.2	7,477.9	15.3	15.2	89.40	206.1	214.9	427.9	400.5	27.43	15.601	
7,600.0	7,577.9	7,597.2	7,577.9	15.4	15.3	89.40	206.1	214.9	427.9	400.3	27.60	15.506	
7,700.0	7,677.9	7,697.2	7,677.9	15.5	15.4	89.40	206.1	214.9	427.9	400.1	27.76	15.412	
7,800.0	7,777.9	7,797.2	7,777.9	15.5	15.4	89.40	206.1	214.9	427.9	400.0	27.93	15.319	
7,900.0	7,877.9	7,897.2	7,877.9	15.6	15.5	89.40	206.1	214.9	427.9	399.8	28.10	15.228	
8,000.0	7,977.9	7,997.2	7,977.9	15.7	15.6	89.40	206.1	214.9	427.9	399.6	28.27	15.137	
8,100.0	8,077.9	8,097.2	8,077.9	15.8	15.7	89.40	206.1	214.9	427.9	399.5	28.44	15.048	
8,200.0	8,177.9	8,197.2	8,177.9	15.8	15.8	89.40	206.1	214.9	427.9	399.3	28.60	14.960	
8,300.0	8,277.9	8,297.2	8,277.9	15.9	15.8	89.40	206.1	214.9	427.9	399.1	28.77	14.872	
8,400.0	8,377.9	8,397.2	8,377.9	16.0	15.9	89.40	206.1	214.9	427.9	399.0	28.94	14.786	
8,500.0	8,477.9	8,497.2	8,477.9	16.1	16.0	89.40	206.1	214.9	427.9	398.8	29.11	14.701	
8,600.0	8,577.9	8,597.2	8,577.9	16.2	16.1	89.40	206.1	214.9	427.9	398.6	29.27	14.617	
8,700.0	8,677.9	8,697.2	8,677.9	16.2	16.1	89.40	206.1	214.9	427.9	398.5	29.44	14.534	
8,800.0	8,777.9	8,797.2	8,777.9	16.3	16.2	89.40	206.1	214.9	427.9	398.3	29.61	14.452	
8,900.0	8,877.9	8,897.2	8,877.9	16.4	16.3	89.40	206.1	214.9	427.9	398.1	29.78	14.370	
9,000.0	8,977.9	8,997.2	8,977.9	16.5	16.4	89.40	206.1	214.9	427.9	398.0	29.94	14.290	
9,100.0	9,077.9	9,097.2	9,077.9	16.5	16.5	89.40	206.1	214.9	427.9	397.8	30.11	14.211	
9,200.0	9,177.9	9,197.2	9,177.9	16.6	16.5	89.40	206.1	214.9	427.9	397.6	30.28	14.132	
9,300.0	9,277.9	9,297.2	9,277.9	16.7	16.6	89.40	206.1	214.9	427.9	397.5	30.45	14.055	
9,400.0	9,377.9	9,397.2	9,377.9	16.8	16.7	89.40	206.1	214.9	427.9	397.3	30.61	13.978	
9,500.0	9,477.9	9,497.2	9,477.9	16.9	16.8	89.40	206.1	214.9	427.9	397.1	30.78	13.902	
9,600.0	9,577.9	9,597.2	9,577.9	16.9	16.9	89.40	206.1	214.9	427.9	397.0	30.95	13.827	
9,700.0	9,677.9	9,697.2	9,677.9	17.0	16.9	89.40	206.1	214.9	427.9	396.8	31.11	13.753	
9,800.0	9,777.9	9,797.2	9,777.9	17.1	17.0	89.40	206.1	214.9	427.9	396.6	31.28	13.680	

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,900.0	9,877.9	9,897.2	9,877.9	17.2	17.1	89.40	206.1	214.9	427.9	396.5	31.45	13.608		
10,000.0	9,977.9	9,997.2	9,977.9	17.2	17.2	89.40	206.1	214.9	427.9	396.3	31.61	13.536		
10,100.0	10,077.9	10,097.2	10,077.9	17.3	17.2	89.40	206.1	214.9	427.9	396.1	31.78	13.465		
10,200.0	10,177.9	10,197.2	10,177.9	17.4	17.3	89.40	206.1	214.9	427.9	396.0	31.95	13.395		
10,300.0	10,277.9	10,297.2	10,277.9	17.5	17.4	89.40	206.1	214.9	427.9	395.8	32.11	13.325		
10,400.0	10,377.9	10,397.2	10,377.9	17.6	17.5	89.40	206.1	214.9	427.9	395.6	32.28	13.257		
10,500.0	10,477.9	10,497.2	10,477.9	17.6	17.6	89.40	206.1	214.9	427.9	395.5	32.44	13.189		
10,600.0	10,577.9	10,597.2	10,577.9	17.7	17.6	89.40	206.1	214.9	427.9	395.3	32.61	13.121		
10,700.0	10,677.9	10,697.2	10,677.9	17.8	17.7	89.40	206.1	214.9	427.9	395.1	32.78	13.055		
10,800.0	10,777.9	10,797.2	10,777.9	17.9	17.8	89.40	206.1	214.9	427.9	395.0	32.94	12.989		
10,900.0	10,877.9	10,897.2	10,877.9	17.9	17.9	89.40	206.1	214.9	427.9	394.8	33.11	12.924		
11,000.0	10,977.9	10,997.2	10,977.9	18.0	18.0	89.40	206.1	214.9	427.9	394.6	33.28	12.859		
11,100.0	11,077.9	11,097.2	11,077.9	18.1	18.0	89.40	206.1	214.9	427.9	394.5	33.44	12.796		
11,200.0	11,177.9	11,197.2	11,177.9	18.2	18.1	89.40	206.1	214.9	427.9	394.3	33.61	12.732		
11,300.0	11,277.9	11,297.2	11,277.9	18.3	18.2	89.40	206.1	214.9	427.9	394.1	33.77	12.670		
11,400.0	11,377.9	11,397.2	11,377.9	18.3	18.3	89.40	206.1	214.9	427.9	394.0	33.94	12.608		
11,500.0	11,477.9	11,497.2	11,477.9	18.4	18.4	89.40	206.1	214.9	427.9	393.8	34.11	12.547		
11,600.0	11,577.9	11,597.2	11,577.9	18.5	18.4	89.40	206.1	214.9	427.9	393.6	34.27	12.486		
11,700.0	11,677.9	11,697.2	11,677.9	18.6	18.5	89.40	206.1	214.9	427.9	393.5	34.44	12.426		
11,770.4	11,748.4	11,767.7	11,748.4	18.6	18.5	89.65	204.2	214.9	427.9	393.4	34.51	12.401		
11,800.0	11,777.9	11,797.0	11,777.4	18.7	18.4	90.11	200.8	214.9	427.9	393.4	34.52	12.397		
11,900.0	11,877.9	11,891.0	11,868.4	18.7	18.3	93.19	177.8	215.1	428.8	394.2	34.58	12.402		
11,911.6	11,889.5	11,901.2	11,878.0	18.7	18.2	93.66	174.2	215.1	429.1	394.5	34.59	12.407		
11,925.0	11,902.9	11,912.8	11,888.8	18.7	18.2	-85.39	169.9	215.1	429.5	394.9	34.59	12.416		
11,950.0	11,927.9	11,934.4	11,908.5	18.7	18.2	-84.28	161.2	215.2	430.3	395.7	34.59	12.440		
11,975.0	11,952.7	11,955.6	11,927.6	18.7	18.1	-83.19	151.8	215.2	431.3	396.7	34.60	12.466		
12,000.0	11,977.4	11,976.6	11,945.9	18.6	18.1	-82.12	141.7	215.3	432.5	397.9	34.62	12.492		
12,025.0	12,001.9	11,997.3	11,963.6	18.6	18.1	-81.07	130.9	215.3	433.8	399.1	34.65	12.519		
12,050.0	12,026.0	12,017.7	11,980.6	18.5	18.0	-80.06	119.6	215.4	435.1	400.5	34.69	12.545		
12,075.0	12,049.8	12,038.0	11,996.9	18.5	18.0	-79.06	107.6	215.5	436.6	401.9	34.74	12.568		
12,100.0	12,073.1	12,058.0	12,012.6	18.4	18.0	-78.10	95.1	215.6	438.2	403.4	34.81	12.589		
12,125.0	12,095.9	12,077.8	12,027.5	18.4	17.9	-77.17	82.0	215.6	439.8	404.9	34.89	12.606		
12,150.0	12,118.1	12,097.5	12,041.8	18.3	17.9	-76.28	68.5	215.7	441.5	406.5	34.99	12.619		
12,175.0	12,139.8	12,117.0	12,055.4	18.3	17.9	-75.41	54.6	215.8	443.2	408.1	35.10	12.628		
12,200.0	12,160.7	12,136.3	12,068.3	18.2	17.8	-74.59	40.2	215.9	444.9	409.7	35.22	12.632		
12,225.0	12,180.9	12,155.5	12,080.5	18.2	17.8	-73.80	25.4	216.0	446.7	411.3	35.36	12.631		
12,250.0	12,200.3	12,175.0	12,092.3	18.2	17.8	-73.04	9.9	216.1	448.4	412.9	35.51	12.627		
12,275.0	12,218.8	12,193.5	12,102.9	18.1	17.8	-72.34	-5.3	216.2	450.1	414.4	35.68	12.615		
12,300.0	12,236.5	12,212.4	12,113.1	18.1	17.8	-71.67	-21.2	216.3	451.7	415.9	35.85	12.600		
12,325.0	12,253.2	12,231.1	12,122.6	18.1	17.8	-71.04	-37.3	216.4	453.4	417.3	36.04	12.581		
12,350.0	12,268.9	12,250.0	12,131.6	18.0	17.7	-70.45	-53.9	216.5	454.9	418.7	36.22	12.560		
12,375.0	12,283.5	12,268.3	12,139.6	18.0	17.7	-69.91	-70.4	216.6	456.4	420.0	36.41	12.533		
12,400.0	12,297.1	12,286.8	12,147.0	18.0	17.7	-69.41	-87.3	216.7	457.8	421.2	36.61	12.505		
12,425.0	12,309.5	12,305.2	12,153.8	18.0	17.7	-68.95	-104.4	216.8	459.1	422.3	36.80	12.474		
12,450.0	12,320.9	12,325.0	12,160.4	18.0	17.7	-68.52	-123.1	216.9	460.3	423.3	36.97	12.448		
12,475.0	12,331.0	12,341.8	12,165.3	17.9	17.7	-68.17	-139.1	217.0	461.3	424.2	37.18	12.408		
12,500.0	12,339.9	12,360.0	12,170.0	17.9	17.7	-67.85	-156.7	217.1	462.3	425.0	37.36	12.374		
12,525.0	12,347.6	12,375.0	12,173.4	17.9	17.7	-67.60	-171.4	217.2	463.2	425.6	37.56	12.330		
12,550.0	12,354.0	12,396.3	12,177.4	18.0	17.7	-67.34	-192.3	217.3	463.9	426.2	37.70	12.305		
12,575.0	12,359.1	12,414.5	12,180.0	18.0	17.8	-67.15	-210.3	217.4	464.5	426.6	37.85	12.271		
12,600.0	12,363.0	12,432.6	12,182.0	18.0	17.8	-67.00	-228.2	217.5	464.9	426.9	37.99	12.238		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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					Rule Assigned:							Offset Well Error:	0.0 usft
Measured Depth	Vertical Reference	Measured Depth	Vertical Offset	Semi Major Axis Reference	Semi Major Axis Offset	Highside Toolface	Offset Wellbore Centre		Distance		No-Go	Separation	Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)	Factor			
12,625.0	12,365.6	12,450.0	12,183.3	18.0	17.8	-66.91	-245.6	217.7	465.2	427.1	38.12	12.205			
12,650.0	12,366.8	12,468.7	12,183.9	18.0	17.8	-66.85	-264.4	217.8	465.4	427.1	38.22	12.175			
12,661.6	12,367.0	12,477.6	12,184.0	18.0	17.8	-66.85	-273.2	217.8	465.4	427.1	38.27	12.162			
12,700.0	12,367.0	12,516.0	12,184.0	18.1	17.9	-66.85	-311.7	218.1	465.4	427.0	38.39	12.122			
12,800.0	12,367.0	12,616.0	12,184.0	18.3	18.0	-66.85	-411.7	218.7	465.4	426.6	38.80	11.995			
12,900.0	12,367.0	12,716.0	12,184.0	18.5	18.2	-66.85	-511.7	219.3	465.4	426.1	39.29	11.845			
13,000.0	12,367.0	12,816.0	12,184.0	18.8	18.5	-66.85	-611.7	219.9	465.4	425.5	39.86	11.676			
13,100.0	12,367.0	12,916.0	12,184.0	19.1	18.8	-66.85	-711.6	220.5	465.4	424.9	40.51	11.489			
13,200.0	12,367.0	13,016.0	12,184.0	19.4	19.2	-66.85	-811.6	221.1	465.4	424.2	41.23	11.287			
13,300.0	12,367.0	13,116.0	12,184.0	19.9	19.6	-66.85	-911.6	221.7	465.4	423.4	42.02	11.075			
13,400.0	12,367.0	13,216.0	12,184.0	20.3	20.0	-66.85	-1,011.6	222.4	465.4	422.5	42.88	10.853			
13,500.0	12,367.0	13,316.0	12,184.0	20.8	20.5	-66.85	-1,111.6	223.0	465.4	421.6	43.80	10.625			
13,600.0	12,367.0	13,416.0	12,184.0	21.3	21.0	-66.85	-1,211.6	223.6	465.4	420.6	44.78	10.393			
13,700.0	12,367.0	13,516.0	12,184.0	21.9	21.6	-66.85	-1,311.6	224.2	465.4	419.6	45.81	10.159			
13,800.0	12,367.0	13,616.0	12,184.0	22.5	22.2	-66.85	-1,411.6	224.8	465.4	418.5	46.90	9.924			
13,900.0	12,367.0	13,716.0	12,184.0	23.1	22.8	-66.85	-1,511.6	225.4	465.4	417.4	48.03	9.690			
14,000.0	12,367.0	13,816.0	12,184.0	23.7	23.4	-66.85	-1,611.6	226.0	465.4	416.2	49.20	9.459			
14,100.0	12,367.0	13,916.0	12,184.0	24.4	24.1	-66.85	-1,711.6	226.7	465.4	415.0	50.42	9.231			
14,200.0	12,367.0	14,016.0	12,184.0	25.1	24.8	-66.85	-1,811.6	227.3	465.4	413.7	51.68	9.007			
14,300.0	12,367.0	14,116.0	12,184.0	25.8	25.5	-66.85	-1,911.6	227.9	465.4	412.5	52.97	8.787			
14,400.0	12,367.0	14,216.0	12,184.0	26.5	26.2	-66.85	-2,011.6	228.5	465.4	411.1	54.29	8.573			
14,500.0	12,367.0	14,316.0	12,184.0	27.2	27.0	-66.85	-2,111.6	229.1	465.4	409.8	55.64	8.365			
14,600.0	12,367.0	14,416.0	12,184.0	28.0	27.7	-66.85	-2,211.6	229.7	465.4	408.4	57.02	8.162			
14,700.0	12,367.0	14,516.0	12,184.0	28.7	28.5	-66.85	-2,311.6	230.3	465.4	407.0	58.43	7.966			
14,800.0	12,367.0	14,616.0	12,184.0	29.5	29.3	-66.85	-2,411.6	230.9	465.4	405.6	59.86	7.775			
14,900.0	12,367.0	14,716.0	12,184.0	30.3	30.1	-66.85	-2,511.6	231.6	465.4	404.1	61.31	7.591			
15,000.0	12,367.0	14,816.0	12,184.0	31.1	30.9	-66.85	-2,611.6	232.2	465.4	402.6	62.79	7.413			
15,100.0	12,367.0	14,916.0	12,184.0	31.9	31.7	-66.85	-2,711.6	232.8	465.4	401.1	64.28	7.240			
15,200.0	12,367.0	15,016.0	12,184.0	32.7	32.5	-66.85	-2,811.6	233.4	465.4	399.6	65.80	7.074			
15,300.0	12,367.0	15,116.0	12,184.0	33.5	33.3	-66.85	-2,911.6	234.0	465.4	398.1	67.33	6.913			
15,400.0	12,367.0	15,216.0	12,184.0	34.3	34.1	-66.85	-3,011.6	234.6	465.4	396.6	68.87	6.758			
15,500.0	12,367.0	15,316.0	12,184.0	35.2	35.0	-66.85	-3,111.6	235.2	465.4	395.0	70.43	6.608			
15,600.0	12,367.0	15,416.0	12,184.0	36.0	35.8	-66.85	-3,211.6	235.9	465.4	393.4	72.01	6.464			
15,700.0	12,367.0	15,516.0	12,184.0	36.9	36.7	-66.85	-3,311.6	236.5	465.4	391.8	73.59	6.324			
15,800.0	12,367.0	15,616.0	12,184.0	37.7	37.5	-66.85	-3,411.6	237.1	465.4	390.2	75.19	6.190			
15,900.0	12,367.0	15,716.0	12,184.0	38.6	38.4	-66.85	-3,511.6	237.7	465.4	388.6	76.81	6.060			
16,000.0	12,367.0	15,816.0	12,184.0	39.4	39.3	-66.85	-3,611.6	238.3	465.4	387.0	78.43	5.935			
16,100.0	12,367.0	15,916.0	12,184.0	40.3	40.1	-66.85	-3,711.6	238.9	465.4	385.4	80.06	5.814			
16,200.0	12,367.0	16,016.0	12,184.0	41.2	41.0	-66.85	-3,811.6	239.5	465.4	383.7	81.70	5.697			
16,300.0	12,367.0	16,116.0	12,184.0	42.1	41.9	-66.85	-3,911.6	240.2	465.4	382.1	83.35	5.584			
16,400.0	12,367.0	16,216.0	12,184.0	42.9	42.8	-66.85	-4,011.6	240.8	465.4	380.4	85.01	5.475			
16,500.0	12,367.0	16,316.0	12,184.0	43.8	43.6	-66.85	-4,111.6	241.4	465.4	378.8	86.67	5.370			
16,600.0	12,367.0	16,416.0	12,184.0	44.7	44.5	-66.85	-4,211.6	242.0	465.4	377.1	88.35	5.268			
16,700.0	12,367.0	16,516.0	12,184.0	45.6	45.4	-66.85	-4,311.6	242.6	465.4	375.4	90.03	5.170			
16,800.0	12,367.0	16,616.0	12,184.0	46.5	46.3	-66.85	-4,411.6	243.2	465.4	373.7	91.71	5.075			
16,900.0	12,367.0	16,716.0	12,184.0	47.4	47.2	-66.85	-4,511.6	243.8	465.4	372.0	93.41	4.983			
17,000.0	12,367.0	16,816.0	12,184.0	48.3	48.1	-66.85	-4,611.6	244.4	465.4	370.3	95.11	4.894			
17,100.0	12,367.0	16,916.0	12,184.0	49.2	49.0	-66.85	-4,711.6	245.1	465.5	368.6	96.81	4.808			
17,200.0	12,367.0	17,016.0	12,184.0	50.1	49.9	-66.85	-4,811.6	245.7	465.5	366.9	98.52	4.724			
17,300.0	12,367.0	17,116.0	12,184.0	51.0	50.8	-66.85	-4,911.6	246.3	465.5	365.2	100.24	4.644			

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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	12,367.0	17,216.0	12,184.0	51.9	51.7	-66.85	-5,011.6	246.9	465.5	363.5	101.96	4.565	
17,500.0	12,367.0	17,316.0	12,184.0	52.8	52.7	-66.85	-5,111.6	247.5	465.5	361.8	103.68	4.489	
17,600.0	12,367.0	17,416.0	12,184.0	53.7	53.6	-66.85	-5,211.6	248.1	465.5	360.0	105.41	4.416	
17,700.0	12,367.0	17,516.0	12,184.0	54.6	54.5	-66.85	-5,311.6	248.7	465.5	358.3	107.14	4.344	
17,800.0	12,367.0	17,616.0	12,184.0	55.5	55.4	-66.85	-5,411.6	249.4	465.5	356.6	108.88	4.275	
17,900.0	12,367.0	17,716.0	12,184.0	56.5	56.3	-66.85	-5,511.6	250.0	465.5	354.8	110.62	4.208	
18,000.0	12,367.0	17,816.0	12,184.0	57.4	57.2	-66.85	-5,611.6	250.6	465.5	353.1	112.36	4.143	
18,100.0	12,367.0	17,916.0	12,184.0	58.3	58.2	-66.85	-5,711.6	251.2	465.5	351.4	114.11	4.079	
18,200.0	12,367.0	18,016.0	12,184.0	59.2	59.1	-66.85	-5,811.6	251.8	465.5	349.6	115.86	4.017	
18,300.0	12,367.0	18,116.0	12,184.0	60.1	60.0	-66.85	-5,911.6	252.4	465.5	347.9	117.61	3.958	
18,400.0	12,367.0	18,216.0	12,184.0	61.1	60.9	-66.85	-6,011.5	253.0	465.5	346.1	119.37	3.899	
18,500.0	12,367.0	18,316.0	12,184.0	62.0	61.9	-66.85	-6,111.5	253.7	465.5	344.3	121.13	3.843	
18,600.0	12,367.0	18,416.0	12,184.0	62.9	62.8	-66.85	-6,211.5	254.3	465.5	342.6	122.89	3.788	
18,700.0	12,367.0	18,516.0	12,184.0	63.8	63.7	-66.85	-6,311.5	254.9	465.5	340.8	124.66	3.734	
18,800.0	12,367.0	18,616.0	12,184.0	64.8	64.6	-66.85	-6,411.5	255.5	465.5	339.0	126.42	3.682	
18,900.0	12,367.0	18,716.0	12,184.0	65.7	65.6	-66.85	-6,511.5	256.1	465.5	337.3	128.19	3.631	
19,000.0	12,367.0	18,816.0	12,184.0	66.6	66.5	-66.85	-6,611.5	256.7	465.5	335.5	129.96	3.582	
19,100.0	12,367.0	18,916.0	12,184.0	67.5	67.4	-66.85	-6,711.5	257.3	465.5	333.7	131.74	3.533	
19,200.0	12,367.0	19,016.0	12,184.0	68.5	68.4	-66.85	-6,811.5	257.9	465.5	332.0	133.51	3.486	
19,300.0	12,367.0	19,116.0	12,184.0	69.4	69.3	-66.85	-6,911.5	258.6	465.5	330.2	135.29	3.441	
19,400.0	12,367.0	19,216.0	12,184.0	70.3	70.2	-66.85	-7,011.5	259.2	465.5	328.4	137.07	3.396	
19,500.0	12,367.0	19,316.0	12,184.0	71.3	71.2	-66.85	-7,111.5	259.8	465.5	326.6	138.85	3.352	
19,600.4	12,367.0	19,416.5	12,184.0	72.2	72.1	-66.85	-7,211.9	260.4	465.5	324.8	140.64	3.310 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot
Project:	ZIA HILLS UNIT AREA	TVD Reference:	ZIA HILLS UNIT2632 WC 710H
Reference Site:	ZIA HILLS UNIT 2632 PROJECT	MD Reference:	WELL @ 3125.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	WELL @ 3125.0usft (Original Well Elev)
Reference Well:	_ZIA HILLS UNIT 2632 WC 710H	Survey Calculation Method:	Grid
Well Error:	0.0 usft	Output errors are at	Minimum Curvature
Reference Wellbore	OWB	Database:	2.00 sigma
Reference Design:	PWP0	Offset TVD Reference:	EDT 17 Permian Prod
			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							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	
0.0	0.0	0.0	0.0	0.0	0.0	89.52	0.7	89.9	89.9	89.4	0.48	187.475		
100.0	100.0	100.0	100.0	1.2	1.2	89.52	0.7	89.9	89.9	87.0	2.87	31.353		
200.0	200.0	200.0	200.0	1.7	1.7	89.52	0.7	89.9	89.9	86.0	3.86	23.265		
300.0	300.0	300.0	300.0	2.1	2.1	89.52	0.7	89.9	89.9	85.3	4.63	19.399		
400.0	400.0	400.0	400.0	2.4	2.4	89.52	0.7	89.9	89.9	84.6	5.29	17.001		
500.0	500.0	500.0	500.0	2.7	2.7	89.52	0.7	89.9	89.9	84.0	5.87	15.322		
600.0	600.0	600.0	600.0	3.0	3.0	89.52	0.7	89.9	89.9	83.5	6.39	14.058		
700.0	700.0	700.0	700.0	3.2	3.2	89.52	0.7	89.9	89.9	83.0	6.88	13.061		
800.0	800.0	800.0	800.0	3.5	3.5	89.52	0.7	89.9	89.9	82.5	7.34	12.248		
900.0	900.0	900.0	900.0	3.7	3.7	89.52	0.7	89.9	89.9	82.1	7.77	11.566		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	89.52	0.7	89.9	89.9	81.7	8.18	10.985		
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	89.52	0.7	89.9	89.9	81.3	8.58	10.481 CC, ES		
1,200.0	1,200.0	1,196.9	1,196.9	4.4	4.4	136.57	1.1	91.5	92.8	83.7	9.10	10.193 SF		
1,300.0	1,299.8	1,293.3	1,293.2	4.7	4.7	137.83	2.1	96.3	101.6	92.0	9.62	10.559		
1,400.0	1,399.5	1,388.7	1,388.2	5.0	5.0	139.48	3.9	104.1	116.2	106.1	10.14	11.458		
1,500.0	1,498.7	1,482.5	1,481.4	5.4	5.3	141.15	6.2	114.8	136.8	126.1	10.68	12.805		
1,608.3	1,605.6	1,581.8	1,579.5	5.8	5.6	142.73	9.4	129.4	165.5	154.2	11.31	14.641		
1,700.0	1,695.9	1,664.1	1,660.4	6.0	5.9	143.92	12.6	144.0	193.9	182.2	11.76	16.498		
1,800.0	1,794.3	1,753.3	1,747.6	6.3	6.2	144.63	16.6	162.3	227.6	215.4	12.20	18.654		
1,900.0	1,892.8	1,847.1	1,839.1	6.7	6.4	145.11	21.0	182.5	262.1	249.4	12.72	20.616		
2,000.0	1,991.2	1,940.9	1,930.7	7.0	6.8	145.47	25.4	202.7	296.7	283.4	13.28	22.339		
2,100.0	2,089.6	2,034.7	2,022.2	7.3	7.1	145.76	29.8	222.9	331.3	317.4	13.87	23.881		
2,200.0	2,188.0	2,128.5	2,113.7	7.7	7.4	145.99	34.3	243.2	365.9	351.4	14.48	25.262		
2,300.0	2,286.5	2,222.4	2,205.2	8.1	7.8	146.18	38.7	263.4	400.5	385.4	15.11	26.500		
2,400.0	2,384.9	2,316.2	2,296.7	8.4	8.1	146.34	43.1	283.6	435.1	419.4	15.76	27.611		
2,505.5	2,488.7	2,415.1	2,393.2	8.8	8.5	146.49	47.8	304.9	471.6	455.2	16.46	28.651		
2,600.0	2,581.9	2,504.0	2,479.9	9.2	8.9	146.74	52.0	324.1	503.7	486.6	17.09	29.480		
2,700.0	2,680.7	2,598.6	2,572.1	9.6	9.3	146.88	56.4	344.4	536.3	518.6	17.76	30.197		
2,800.0	2,779.8	2,693.5	2,664.7	10.0	9.7	146.91	60.9	364.9	567.6	549.1	18.44	30.777		
2,900.0	2,879.1	2,788.9	2,757.8	10.4	10.1	146.86	65.4	385.5	597.4	578.3	19.12	31.240		
3,000.0	2,978.6	2,884.8	2,851.3	10.7	10.5	146.72	69.9	406.1	625.9	606.1	19.81	31.601		
3,100.0	3,078.3	2,980.9	2,945.1	11.1	10.9	146.52	74.4	426.8	653.0	632.5	20.49	31.873		
3,200.0	3,178.1	3,077.5	3,039.2	11.4	11.3	146.25	79.0	447.6	678.7	657.5	21.16	32.071		
3,300.0	3,278.0	3,174.3	3,133.7	11.7	11.7	145.92	83.5	468.5	703.0	681.2	21.83	32.207		
3,400.0	3,377.9	3,271.4	3,228.4	12.0	12.2	145.54	88.1	489.4	726.0	703.6	22.48	32.295		
3,500.0	3,477.9	3,368.8	3,323.4	12.3	12.6	145.11	92.7	510.4	747.7	724.6	23.10	32.361		
3,522.1	3,500.0	3,390.3	3,344.4	12.3	12.7	98.43	93.7	515.1	752.3	729.1	23.22	32.403		
3,600.0	3,577.9	3,466.3	3,418.5	12.4	13.0	97.98	97.3	531.4	768.4	744.8	23.61	32.542		
3,700.0	3,677.9	3,563.9	3,513.6	12.4	13.5	97.42	101.9	552.5	789.2	765.1	24.14	32.688		
3,800.0	3,777.9	3,661.4	3,608.8	12.5	13.9	96.90	106.5	573.5	810.1	785.4	24.68	32.818		
3,900.0	3,877.9	3,758.9	3,703.9	12.6	14.3	96.40	111.1	594.5	831.0	805.7	25.23	32.933		
4,000.0	3,977.9	3,856.5	3,799.0	12.7	14.8	95.92	115.7	615.5	851.9	826.2	25.79	33.035		
4,100.0	4,077.9	3,954.0	3,894.2	12.7	15.2	95.47	120.3	636.5	873.0	846.6	26.35	33.125		
4,200.0	4,177.9	4,051.5	3,989.3	12.8	15.7	95.04	124.9	657.5	894.0	867.1	26.93	33.205		
4,300.0	4,277.9	4,149.1	4,084.4	12.9	16.1	94.63	129.5	678.6	915.2	887.7	27.50	33.275		
4,400.0	4,377.9	4,246.6	4,179.6	13.0	16.6	94.23	134.1	699.6	936.3	908.2	28.09	33.337		
4,500.0	4,477.9	4,344.2	4,274.7	13.0	17.0	93.86	138.7	720.6	957.5	928.9	28.68	33.391		
4,600.0	4,577.9	4,441.7	4,369.8	13.1	17.5	93.50	143.3	741.6	978.8	949.5	29.27	33.439		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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
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	89.47	0.5	59.9	59.9	59.4	0.48	124.903	
100.0	100.0	100.0	100.0	1.2	1.2	89.47	0.5	59.9	59.9	57.0	2.87	20.889	
200.0	200.0	200.0	200.0	1.7	1.7	89.47	0.5	59.9	59.9	56.0	3.86	15.500	
300.0	300.0	300.0	300.0	2.1	2.1	89.47	0.5	59.9	59.9	55.3	4.63	12.924	
400.0	400.0	400.0	400.0	2.4	2.4	89.47	0.5	59.9	59.9	54.6	5.29	11.327	
500.0	500.0	500.0	500.0	2.7	2.7	89.47	0.5	59.9	59.9	54.0	5.87	10.208	
600.0	600.0	600.0	600.0	3.0	3.0	89.47	0.5	59.9	59.9	53.5	6.39	9.366	
700.0	700.0	700.0	700.0	3.2	3.2	89.47	0.5	59.9	59.9	53.0	6.88	8.702	
800.0	800.0	800.0	800.0	3.5	3.5	89.47	0.5	59.9	59.9	52.5	7.34	8.160	
900.0	900.0	900.0	900.0	3.7	3.7	89.47	0.5	59.9	59.9	52.1	7.77	7.706	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	89.47	0.5	59.9	59.9	51.7	8.18	7.319	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	89.47	0.5	59.9	59.9	51.3	8.58	6.983 CC, ES	
1,200.0	1,200.0	1,197.4	1,197.3	4.4	4.5	136.42	1.3	61.9	63.2	54.0	9.19	6.881	
1,300.0	1,299.8	1,294.0	1,293.8	4.7	4.9	137.33	3.5	68.0	73.3	63.5	9.77	7.498	
1,400.0	1,399.5	1,389.3	1,388.5	5.0	5.3	138.35	7.0	77.8	90.0	79.6	10.35	8.696	
1,500.0	1,498.7	1,485.2	1,483.3	5.4	5.5	139.39	11.8	91.0	112.5	101.8	10.76	10.457	
1,608.3	1,605.6	1,589.7	1,586.7	5.8	5.7	140.99	17.0	105.6	140.3	129.0	11.33	12.382	
1,700.0	1,695.9	1,677.9	1,673.9	6.0	6.0	142.51	21.5	118.0	165.2	153.4	11.76	14.049	
1,800.0	1,794.3	1,774.1	1,769.0	6.3	6.2	143.72	26.4	131.5	192.5	180.2	12.26	15.694	
1,900.0	1,892.8	1,870.2	1,864.0	6.7	6.5	144.64	31.2	145.0	219.8	207.0	12.79	17.181	
2,000.0	1,991.2	1,966.3	1,959.1	7.0	6.8	145.35	36.1	158.5	247.2	233.8	13.34	18.523	
2,100.0	2,089.6	2,062.5	2,054.2	7.3	7.2	145.91	41.0	172.0	274.6	260.6	13.91	19.734	
2,200.0	2,188.0	2,158.6	2,149.2	7.7	7.5	146.38	45.8	185.5	302.0	287.5	14.50	20.827	
2,300.0	2,286.5	2,254.8	2,244.3	8.1	7.8	146.77	50.7	199.0	329.4	314.3	15.10	21.814	
2,400.0	2,384.9	2,350.9	2,339.4	8.4	8.2	147.10	55.5	212.5	356.8	341.1	15.71	22.707	
2,505.5	2,488.7	2,452.3	2,439.6	8.8	8.5	147.39	60.7	226.7	385.8	369.4	16.38	23.549	
2,600.0	2,581.9	2,543.4	2,529.7	9.2	8.9	147.70	65.3	239.5	411.1	394.1	16.98	24.218	
2,700.0	2,680.7	2,640.1	2,625.3	9.6	9.3	147.88	70.2	253.1	436.5	418.9	17.61	24.784	
2,800.0	2,779.8	2,737.2	2,721.3	10.0	9.6	147.92	75.1	266.7	460.5	442.2	18.25	25.228	
2,900.0	2,879.1	2,834.6	2,817.6	10.4	10.0	147.85	80.0	280.4	483.0	464.1	18.89	25.566	
3,000.0	2,978.6	2,932.3	2,914.3	10.7	10.4	147.68	85.0	294.1	504.1	484.6	19.53	25.811	
3,100.0	3,078.3	3,030.3	3,011.1	11.1	10.8	147.42	89.9	307.8	523.8	503.6	20.16	25.976	
3,200.0	3,178.1	3,128.5	3,108.3	11.4	11.2	147.08	94.9	321.6	542.1	521.3	20.79	26.072	
3,300.0	3,278.0	3,227.0	3,205.6	11.7	11.6	146.66	99.9	335.5	558.9	537.5	21.41	26.110	
3,400.0	3,377.9	3,325.6	3,303.2	12.0	12.0	146.17	104.8	349.3	574.4	552.4	22.00	26.102	
3,500.0	3,477.9	3,424.4	3,400.8	12.3	12.4	145.60	109.8	363.2	588.5	565.9	22.57	26.073	
3,522.1	3,500.0	3,446.2	3,422.4	12.3	12.5	98.89	110.9	366.2	591.4	568.7	22.67	26.089	
3,600.0	3,577.9	3,523.3	3,498.6	12.4	12.8	98.36	114.8	377.0	601.6	578.6	23.01	26.145	
3,700.0	3,677.9	3,622.2	3,596.4	12.4	13.2	97.71	119.8	390.9	614.9	591.4	23.48	26.192	
3,800.0	3,777.9	3,721.0	3,694.2	12.5	13.6	97.08	124.8	404.8	628.2	604.2	23.95	26.229	
3,900.0	3,877.9	3,819.9	3,791.9	12.6	14.0	96.48	129.9	418.7	641.5	617.1	24.43	26.259	
4,000.0	3,977.9	3,918.8	3,889.7	12.7	14.4	95.90	134.9	432.6	655.0	630.0	24.92	26.280	
4,100.0	4,077.9	4,017.7	3,987.5	12.7	14.8	95.35	139.9	446.4	668.5	643.0	25.42	26.295	
4,200.0	4,177.9	4,116.6	4,085.3	12.8	15.3	94.82	144.9	460.3	682.0	656.1	25.93	26.305	
4,300.0	4,277.9	4,215.5	4,183.0	12.9	15.7	94.31	149.9	474.2	695.6	669.2	26.44	26.308	
4,400.0	4,377.9	4,314.3	4,280.8	13.0	16.1	93.81	154.9	488.1	709.3	682.3	26.96	26.308	
4,500.0	4,477.9	4,413.2	4,378.6	13.0	16.5	93.34	159.9	501.9	723.0	695.5	27.49	26.303	
4,600.0	4,577.9	4,512.1	4,476.4	13.1	16.9	92.89	164.9	515.8	736.8	708.8	28.02	26.295	
4,700.0	4,677.9	4,611.0	4,574.1	13.2	17.3	92.45	169.9	529.7	750.6	722.0	28.56	26.284	
4,800.0	4,777.9	4,709.9	4,671.9	13.3	17.8	92.02	174.9	543.6	764.4	735.3	29.10	26.270	
4,900.0	4,877.9	4,808.7	4,769.7	13.3	18.2	91.62	179.9	557.5	778.3	748.7	29.65	26.254	

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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
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)				
5,000.0	4,977.9	4,907.6	4,867.4	13.4	18.6	91.22	184.9	571.3	792.3	762.1	30.20	26.236		
5,100.0	5,077.9	5,006.5	4,965.2	13.5	19.0	90.84	189.9	585.2	806.2	775.5	30.75	26.217		
5,200.0	5,177.9	5,108.9	5,066.5	13.6	19.5	90.46	195.0	599.6	820.2	788.9	31.33	26.183		
5,300.0	5,277.9	5,229.4	5,186.0	13.6	20.0	90.08	200.4	614.4	832.5	800.5	32.03	25.995		
5,400.0	5,377.9	5,350.7	5,306.6	13.7	20.5	89.79	204.6	626.2	842.3	809.6	32.66	25.789		
5,500.0	5,477.9	5,472.7	5,428.2	13.8	20.9	89.58	207.8	634.9	849.4	816.2	33.24	25.555		
5,600.0	5,577.9	5,595.0	5,550.4	13.9	21.3	89.45	209.8	640.5	854.0	820.2	33.75	25.303		
5,700.0	5,677.9	5,717.6	5,672.9	13.9	21.7	89.40	210.6	642.8	855.9	821.7	34.13	25.079		
5,800.0	5,777.9	5,822.6	5,777.9	14.0	21.7	89.39	210.6	642.9	855.9	821.7	34.24	24.999		
5,900.0	5,877.9	5,922.6	5,877.9	14.1	21.8	89.39	210.6	642.9	855.9	821.6	34.35	24.917		
6,000.0	5,977.9	6,022.6	5,977.9	14.2	21.8	89.39	210.6	642.9	855.9	821.5	34.47	24.835		
6,100.0	6,077.9	6,122.6	6,077.9	14.2	21.9	89.39	210.6	642.9	855.9	821.4	34.58	24.753		
6,200.0	6,177.9	6,222.6	6,177.9	14.3	21.9	89.39	210.6	642.9	855.9	821.2	34.69	24.672		
6,300.0	6,277.9	6,322.6	6,277.9	14.4	21.9	89.39	210.6	642.9	855.9	821.1	34.81	24.591		
6,400.0	6,377.9	6,422.6	6,377.9	14.5	22.0	89.39	210.6	642.9	855.9	821.0	34.92	24.510		
6,500.0	6,477.9	6,522.6	6,477.9	14.5	22.0	89.39	210.6	642.9	855.9	820.9	35.04	24.429		
6,600.0	6,577.9	6,622.6	6,577.9	14.6	22.1	89.39	210.6	642.9	855.9	820.8	35.15	24.349		
6,700.0	6,677.9	6,722.6	6,677.9	14.7	22.1	89.39	210.6	642.9	855.9	820.7	35.27	24.269		
6,800.0	6,777.9	6,822.6	6,777.9	14.8	22.2	89.39	210.6	642.9	855.9	820.5	35.38	24.189		
6,900.0	6,877.9	6,922.6	6,877.9	14.8	22.2	89.39	210.6	642.9	855.9	820.4	35.50	24.110		
7,000.0	6,977.9	7,022.6	6,977.9	14.9	22.2	89.39	210.6	642.9	855.9	820.3	35.62	24.031		
7,100.0	7,077.9	7,122.6	7,077.9	15.0	22.3	89.39	210.6	642.9	855.9	820.2	35.74	23.952		
7,200.0	7,177.9	7,222.6	7,177.9	15.1	22.3	89.39	210.6	642.9	855.9	820.1	35.85	23.873		
7,300.0	7,277.9	7,322.6	7,277.9	15.2	22.4	89.39	210.6	642.9	855.9	820.0	35.97	23.795		
7,400.0	7,377.9	7,422.6	7,377.9	15.2	22.4	89.39	210.6	642.9	855.9	819.8	36.09	23.717		
7,500.0	7,477.9	7,522.6	7,477.9	15.3	22.5	89.39	210.6	642.9	855.9	819.7	36.21	23.639		
7,600.0	7,577.9	7,622.6	7,577.9	15.4	22.5	89.39	210.6	642.9	855.9	819.6	36.33	23.562		
7,700.0	7,677.9	7,722.6	7,677.9	15.5	22.6	89.39	210.6	642.9	855.9	819.5	36.45	23.485		
7,800.0	7,777.9	7,822.6	7,777.9	15.5	22.6	89.39	210.6	642.9	855.9	819.4	36.57	23.408		
7,900.0	7,877.9	7,922.6	7,877.9	15.6	22.7	89.39	210.6	642.9	855.9	819.2	36.69	23.331		
8,000.0	7,977.9	8,022.6	7,977.9	15.7	22.7	89.39	210.6	642.9	855.9	819.1	36.81	23.255		
8,100.0	8,077.9	8,122.6	8,077.9	15.8	22.7	89.39	210.6	642.9	855.9	819.0	36.93	23.179		
8,200.0	8,177.9	8,222.6	8,177.9	15.8	22.8	89.39	210.6	642.9	855.9	818.9	37.05	23.103		
8,300.0	8,277.9	8,322.6	8,277.9	15.9	22.8	89.39	210.6	642.9	855.9	818.8	37.17	23.028		
8,400.0	8,377.9	8,422.6	8,377.9	16.0	22.9	89.39	210.6	642.9	855.9	818.6	37.29	22.953		
8,500.0	8,477.9	8,522.6	8,477.9	16.1	22.9	89.39	210.6	642.9	855.9	818.5	37.41	22.878		
8,600.0	8,577.9	8,622.6	8,577.9	16.2	23.0	89.39	210.6	642.9	855.9	818.4	37.53	22.804		
8,700.0	8,677.9	8,722.6	8,677.9	16.2	23.0	89.39	210.6	642.9	855.9	818.3	37.66	22.730		
8,800.0	8,777.9	8,822.6	8,777.9	16.3	23.1	89.39	210.6	642.9	855.9	818.1	37.78	22.656		
8,900.0	8,877.9	8,922.6	8,877.9	16.4	23.1	89.39	210.6	642.9	855.9	818.0	37.90	22.582		
9,000.0	8,977.9	9,022.6	8,977.9	16.5	23.2	89.39	210.6	642.9	855.9	817.9	38.03	22.509		
9,100.0	9,077.9	9,122.6	9,077.9	16.5	23.2	89.39	210.6	642.9	855.9	817.8	38.15	22.436		
9,200.0	9,177.9	9,222.6	9,177.9	16.6	23.3	89.39	210.6	642.9	855.9	817.7	38.27	22.364		
9,300.0	9,277.9	9,322.6	9,277.9	16.7	23.3	89.39	210.6	642.9	855.9	817.5	38.40	22.291		
9,400.0	9,377.9	9,422.6	9,377.9	16.8	23.4	89.39	210.6	642.9	855.9	817.4	38.52	22.219		
9,500.0	9,477.9	9,522.6	9,477.9	16.9	23.4	89.39	210.6	642.9	855.9	817.3	38.65	22.148		
9,600.0	9,577.9	9,622.6	9,577.9	16.9	23.5	89.39	210.6	642.9	855.9	817.2	38.77	22.076		
9,700.0	9,677.9	9,722.6	9,677.9	17.0	23.5	89.39	210.6	642.9	855.9	817.0	38.90	22.005		
9,800.0	9,777.9	9,822.6	9,777.9	17.1	23.6	89.39	210.6	642.9	855.9	816.9	39.02	21.935		
9,900.0	9,877.9	9,922.6	9,877.9	17.2	23.6	89.39	210.6	642.9	855.9	816.8	39.15	21.864		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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
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)				
10,000.0	9,977.9	10,022.6	9,977.9	17.2	23.7	89.39	210.6	642.9	855.9	816.7	39.27	21.794		
10,100.0	10,077.9	10,122.6	10,077.9	17.3	23.7	89.39	210.6	642.9	855.9	816.5	39.40	21.724		
10,200.0	10,177.9	10,222.6	10,177.9	17.4	23.8	89.39	210.6	642.9	855.9	816.4	39.53	21.655		
10,300.0	10,277.9	10,322.6	10,277.9	17.5	23.8	89.39	210.6	642.9	855.9	816.3	39.65	21.585		
10,400.0	10,377.9	10,422.6	10,377.9	17.6	23.9	89.39	210.6	642.9	855.9	816.1	39.78	21.517		
10,500.0	10,477.9	10,522.6	10,477.9	17.6	23.9	89.39	210.6	642.9	855.9	816.0	39.91	21.448		
10,600.0	10,577.9	10,622.6	10,577.9	17.7	24.0	89.39	210.6	642.9	855.9	815.9	40.03	21.380		
10,700.0	10,677.9	10,722.6	10,677.9	17.8	24.0	89.39	210.6	642.9	855.9	815.8	40.16	21.312		
10,800.0	10,777.9	10,822.6	10,777.9	17.9	24.1	89.39	210.6	642.9	855.9	815.6	40.29	21.244		
10,900.0	10,877.9	10,922.6	10,877.9	17.9	24.1	89.39	210.6	642.9	855.9	815.5	40.42	21.177		
11,000.0	10,977.9	11,022.6	10,977.9	18.0	24.2	89.39	210.6	642.9	855.9	815.4	40.55	21.109		
11,100.0	11,077.9	11,122.6	11,077.9	18.1	24.2	89.39	210.6	642.9	855.9	815.3	40.68	21.043		
11,200.0	11,177.9	11,222.6	11,177.9	18.2	24.3	89.39	210.6	642.9	855.9	815.1	40.80	20.976		
11,300.0	11,277.9	11,322.6	11,277.9	18.3	24.3	89.39	210.6	642.9	855.9	815.0	40.93	20.910		
11,400.0	11,377.9	11,422.6	11,377.9	18.3	24.4	89.39	210.6	642.9	855.9	814.9	41.06	20.844		
11,500.0	11,477.9	11,522.6	11,477.9	18.4	24.4	89.39	210.6	642.9	855.9	814.7	41.19	20.779		
11,600.0	11,577.9	11,622.6	11,577.9	18.5	24.5	89.39	210.6	642.9	855.9	814.6	41.32	20.713		
11,700.0	11,677.9	11,722.6	11,677.9	18.6	24.6	89.39	210.6	642.9	855.9	814.5	41.45	20.648		
11,800.0	11,777.9	11,822.6	11,777.9	18.7	24.6	89.39	210.6	642.9	855.9	814.3	41.58	20.584		
11,900.0	11,877.9	11,922.6	11,877.9	18.7	24.7	89.39	210.6	642.9	855.9	814.2	41.71	20.522		
11,911.6	11,889.5	11,934.1	11,889.5	18.7	24.7	89.39	210.6	642.9	855.9	814.2	41.72	20.518		
11,925.0	11,902.9	11,947.7	11,903.0	18.7	24.7	-90.25	210.5	642.9	855.9	814.2	41.72	20.517		
11,950.0	11,927.9	11,972.9	11,928.2	18.7	24.6	-90.25	209.1	642.9	855.9	814.2	41.71	20.523		
11,975.0	11,952.7	11,998.1	11,953.2	18.7	24.6	-90.25	206.4	642.9	855.9	814.2	41.69	20.531		
12,000.0	11,977.4	12,023.3	11,978.1	18.6	24.6	-90.25	202.4	642.9	855.9	814.3	41.67	20.540		
12,025.0	12,001.9	12,048.5	12,002.7	18.6	24.5	-90.25	197.0	643.0	855.9	814.3	41.65	20.549		
12,050.0	12,026.0	12,073.7	12,027.0	18.5	24.5	-90.24	190.4	643.0	855.9	814.3	41.63	20.560		
12,075.0	12,049.8	12,098.9	12,051.0	18.5	24.5	-90.24	182.5	643.1	855.9	814.3	41.61	20.571		
12,100.0	12,073.1	12,124.0	12,074.4	18.4	24.4	-90.24	173.4	643.1	855.9	814.3	41.59	20.582		
12,125.0	12,095.9	12,149.2	12,097.4	18.4	24.4	-90.23	163.0	643.2	855.9	814.4	41.56	20.593		
12,150.0	12,118.1	12,174.4	12,119.7	18.3	24.3	-90.22	151.5	643.2	855.9	814.4	41.54	20.605		
12,175.0	12,139.8	12,199.6	12,141.5	18.3	24.3	-90.22	138.8	643.3	855.9	814.4	41.52	20.616		
12,200.0	12,160.7	12,224.7	12,162.5	18.2	24.3	-90.21	124.9	643.4	855.9	814.4	41.50	20.627		
12,225.0	12,180.9	12,249.9	12,182.7	18.2	24.2	-90.20	110.0	643.5	855.9	814.5	41.48	20.637		
12,250.0	12,200.3	12,275.1	12,202.2	18.2	24.2	-90.19	94.0	643.6	855.9	814.5	41.46	20.646		
12,275.0	12,218.8	12,300.2	12,220.7	18.1	24.2	-90.18	77.1	643.7	855.9	814.5	41.44	20.654		
12,300.0	12,236.5	12,325.3	12,238.4	18.1	24.2	-90.17	59.2	643.8	855.9	814.5	41.43	20.661		
12,325.0	12,253.2	12,350.5	12,255.0	18.1	24.1	-90.16	40.4	643.9	855.9	814.5	41.42	20.666		
12,350.0	12,268.9	12,375.6	12,270.7	18.0	24.1	-90.15	20.7	644.0	855.9	814.5	41.41	20.669		
12,375.0	12,283.5	12,400.7	12,285.3	18.0	24.1	-90.14	0.3	644.2	855.9	814.5	41.41	20.670		
12,400.0	12,297.1	12,425.8	12,298.8	18.0	24.1	-90.13	-20.9	644.3	855.9	814.5	41.41	20.668		
12,425.0	12,309.5	12,450.9	12,311.1	18.0	24.1	-90.12	-42.8	644.4	855.9	814.5	41.42	20.664		
12,450.0	12,320.9	12,476.0	12,322.3	18.0	24.1	-90.11	-65.2	644.6	855.9	814.5	41.43	20.657		
12,475.0	12,331.0	12,501.1	12,332.3	17.9	24.1	-90.10	-88.2	644.7	855.9	814.5	41.45	20.647		
12,500.0	12,339.9	12,526.2	12,341.1	17.9	24.1	-90.08	-111.7	644.9	855.9	814.4	41.48	20.635		
12,516.3	12,345.0	12,542.5	12,346.1	17.9	24.1	-90.08	-127.2	645.0	855.9	814.4	41.50	20.624		
12,525.0	12,347.6	12,551.2	12,348.6	17.9	24.1	-90.07	-135.6	645.0	855.9	814.4	41.51	20.619		
12,550.0	12,354.0	12,576.3	12,354.8	18.0	24.1	-90.06	-159.9	645.2	855.9	814.4	41.55	20.600		
12,575.0	12,359.1	12,601.3	12,359.8	18.0	24.1	-90.04	-184.4	645.3	855.9	814.3	41.59	20.578		
12,600.0	12,363.0	12,626.3	12,363.5	18.0	24.2	-90.03	-209.1	645.5	855.9	814.3	41.65	20.553		
12,625.0	12,365.6	12,651.4	12,365.8	18.0	24.2	-90.02	-234.0	645.6	855.9	814.2	41.70	20.524		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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
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)						
12,650.0	12,366.8	12,676.4	12,366.9	18.0	24.2	-90.01	-259.0	645.8	855.9	814.2	41.77	20.493		
12,661.6	12,367.0	12,687.9	12,367.0	18.0	24.2	-90.00	-270.6	645.8	855.9	814.1	41.80	20.478		
12,700.0	12,367.0	12,726.4	12,367.0	18.1	24.3	-90.00	-309.0	646.1	855.9	814.0	41.92	20.420		
12,800.0	12,367.0	12,826.4	12,367.0	18.3	24.5	-90.00	-409.0	646.7	855.9	813.6	42.29	20.238		
12,900.0	12,367.0	12,926.4	12,367.0	18.5	24.7	-90.00	-509.0	647.3	855.9	813.2	42.75	20.022		
13,000.0	12,367.0	13,026.4	12,367.0	18.8	24.9	-90.00	-609.0	647.9	855.9	812.6	43.29	19.773		
13,100.0	12,367.0	13,126.4	12,367.0	19.1	25.2	-90.00	-709.0	648.5	855.9	812.0	43.90	19.497		
13,200.0	12,367.0	13,226.4	12,367.0	19.4	25.5	-90.00	-809.0	649.1	855.9	811.3	44.59	19.197		
13,300.0	12,367.0	13,326.4	12,367.0	19.9	25.8	-90.00	-909.0	649.7	855.9	810.6	45.34	18.876		
13,400.0	12,367.0	13,426.4	12,367.0	20.3	26.2	-90.00	-1,009.0	650.4	855.9	809.8	46.17	18.540		
13,500.0	12,367.0	13,526.4	12,367.0	20.8	26.6	-90.00	-1,109.0	651.0	855.9	808.9	47.05	18.191		
13,600.0	12,367.0	13,626.4	12,367.0	21.3	27.0	-90.00	-1,209.0	651.6	855.9	807.9	48.00	17.832		
13,700.0	12,367.0	13,726.4	12,367.0	21.9	27.5	-90.00	-1,309.0	652.2	855.9	806.9	49.00	17.468		
13,800.0	12,367.0	13,826.4	12,367.0	22.5	28.0	-90.00	-1,409.0	652.8	855.9	805.9	50.06	17.100		
13,900.0	12,367.0	13,926.4	12,367.0	23.1	28.5	-90.00	-1,509.0	653.4	855.9	804.8	51.16	16.731		
14,000.0	12,367.0	14,026.4	12,367.0	23.7	29.0	-90.00	-1,609.0	654.0	855.9	803.6	52.31	16.363		
14,100.0	12,367.0	14,126.4	12,367.0	24.4	29.5	-90.00	-1,709.0	654.7	855.9	802.4	53.50	15.998		
14,200.0	12,367.0	14,226.4	12,367.0	25.1	30.1	-90.00	-1,809.0	655.3	855.9	801.2	54.74	15.638		
14,300.0	12,367.0	14,326.4	12,367.0	25.8	30.7	-90.00	-1,909.0	655.9	855.9	799.9	56.01	15.283		
14,400.0	12,367.0	14,426.4	12,367.0	26.5	31.3	-90.00	-2,009.0	656.5	855.9	798.6	57.31	14.935		
14,500.0	12,367.0	14,526.4	12,367.0	27.2	31.9	-90.00	-2,109.0	657.1	855.9	797.3	58.65	14.594		
14,600.0	12,367.0	14,626.4	12,367.0	28.0	32.5	-90.00	-2,209.0	657.7	855.9	795.9	60.02	14.261		
14,700.0	12,367.0	14,726.4	12,367.0	28.7	33.2	-90.00	-2,309.0	658.3	855.9	794.5	61.42	13.936		
14,800.0	12,367.0	14,826.4	12,367.0	29.5	33.9	-90.00	-2,409.0	658.9	855.9	793.1	62.84	13.621		
14,900.0	12,367.0	14,926.4	12,367.0	30.3	34.6	-90.00	-2,509.0	659.6	855.9	791.7	64.29	13.314		
15,000.0	12,367.0	15,026.4	12,367.0	31.1	35.2	-90.00	-2,609.0	660.2	856.0	790.2	65.76	13.016		
15,100.0	12,367.0	15,126.4	12,367.0	31.9	36.0	-90.00	-2,709.0	660.8	856.0	788.7	67.26	12.727		
15,200.0	12,367.0	15,226.4	12,367.0	32.7	36.7	-90.00	-2,809.0	661.4	856.0	787.2	68.77	12.446		
15,300.0	12,367.0	15,326.4	12,367.0	33.5	37.4	-90.00	-2,909.0	662.0	856.0	785.6	70.30	12.175		
15,400.0	12,367.0	15,426.4	12,367.0	34.3	38.1	-90.00	-3,009.0	662.6	856.0	784.1	71.85	11.912		
15,500.0	12,367.0	15,526.4	12,367.0	35.2	38.9	-90.00	-3,109.0	663.2	856.0	782.5	73.42	11.658		
15,600.0	12,367.0	15,626.4	12,367.0	36.0	39.7	-90.00	-3,209.0	663.9	856.0	781.0	75.00	11.412		
15,700.0	12,367.0	15,726.4	12,367.0	36.9	40.4	-90.00	-3,309.0	664.5	856.0	779.4	76.60	11.174		
15,800.0	12,367.0	15,826.4	12,367.0	37.7	41.2	-90.00	-3,409.0	665.1	856.0	777.7	78.21	10.944		
15,900.0	12,367.0	15,926.4	12,367.0	38.6	42.0	-90.00	-3,509.0	665.7	856.0	776.1	79.83	10.722		
16,000.0	12,367.0	16,026.4	12,367.0	39.4	42.8	-90.00	-3,609.0	666.3	856.0	774.5	81.47	10.506		
16,100.0	12,367.0	16,126.4	12,367.0	40.3	43.6	-90.00	-3,709.0	666.9	856.0	772.8	83.12	10.298		
16,200.0	12,367.0	16,226.4	12,367.0	41.2	44.4	-90.00	-3,809.0	667.5	856.0	771.2	84.77	10.097		
16,300.0	12,367.0	16,326.4	12,367.0	42.1	45.2	-90.00	-3,909.0	668.2	856.0	769.5	86.44	9.902		
16,400.0	12,367.0	16,426.4	12,367.0	42.9	46.0	-90.00	-4,009.0	668.8	856.0	767.8	88.12	9.714		
16,500.0	12,367.0	16,526.4	12,367.0	43.8	46.8	-90.00	-4,109.0	669.4	856.0	766.2	89.80	9.531		
16,600.0	12,367.0	16,626.4	12,367.0	44.7	47.7	-90.00	-4,209.0	670.0	856.0	764.5	91.50	9.355		
16,700.0	12,367.0	16,726.4	12,367.0	45.6	48.5	-90.00	-4,309.0	670.6	856.0	762.8	93.20	9.184		
16,800.0	12,367.0	16,826.4	12,367.0	46.5	49.3	-90.00	-4,409.0	671.2	856.0	761.1	94.91	9.019		
16,900.0	12,367.0	16,926.4	12,367.0	47.4	50.2	-90.00	-4,509.0	671.8	856.0	759.3	96.63	8.858		
17,000.0	12,367.0	17,026.4	12,367.0	48.3	51.0	-90.00	-4,609.0	672.4	856.0	757.6	98.35	8.703		
17,100.0	12,367.0	17,126.4	12,367.0	49.2	51.9	-90.00	-4,708.9	673.1	856.0	755.9	100.08	8.553		
17,200.0	12,367.0	17,226.4	12,367.0	50.1	52.7	-90.00	-4,808.9	673.7	856.0	754.2	101.82	8.407		
17,300.0	12,367.0	17,326.4	12,367.0	51.0	53.6	-90.00	-4,908.9	674.3	856.0	752.4	103.56	8.266		
17,400.0	12,367.0	17,426.4	12,367.0	51.9	54.5	-90.00	-5,008.9	674.9	856.0	750.7	105.31	8.128		

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 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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		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)			
17,500.0	12,367.0	17,526.4	12,367.0	52.8	55.3	-90.00	-5,108.9	675.5	856.0	748.9	107.06	7.995	
17,600.0	12,367.0	17,626.4	12,367.0	53.7	56.2	-90.00	-5,208.9	676.1	856.0	747.2	108.82	7.866	
17,700.0	12,367.0	17,726.4	12,367.0	54.6	57.1	-90.00	-5,308.9	676.7	856.0	745.4	110.58	7.741	
17,800.0	12,367.0	17,826.4	12,367.0	55.5	57.9	-90.00	-5,408.9	677.4	856.0	743.6	112.35	7.619	
17,900.0	12,367.0	17,926.4	12,367.0	56.5	58.8	-90.00	-5,508.9	678.0	856.0	741.9	114.12	7.501	
18,000.0	12,367.0	18,026.4	12,367.0	57.4	59.7	-90.00	-5,608.9	678.6	856.0	740.1	115.89	7.386	
18,100.0	12,367.0	18,126.4	12,367.0	58.3	60.6	-90.00	-5,708.9	679.2	856.0	738.3	117.67	7.274	
18,200.0	12,367.0	18,226.4	12,367.0	59.2	61.5	-90.00	-5,808.9	679.8	856.0	736.5	119.45	7.166	
18,300.0	12,367.0	18,326.4	12,367.0	60.1	62.4	-90.00	-5,908.9	680.4	856.0	734.7	121.24	7.060	
18,400.0	12,367.0	18,426.4	12,367.0	61.1	63.3	-90.00	-6,008.9	681.0	856.0	733.0	123.03	6.958	
18,500.0	12,367.0	18,526.4	12,367.0	62.0	64.1	-90.00	-6,108.9	681.6	856.0	731.2	124.82	6.858	
18,600.0	12,367.0	18,626.4	12,367.0	62.9	65.0	-90.00	-6,208.9	682.3	856.0	729.4	126.62	6.760	
18,700.0	12,367.0	18,726.4	12,367.0	63.8	65.9	-90.00	-6,308.9	682.9	856.0	727.6	128.42	6.666	
18,800.0	12,367.0	18,826.4	12,367.0	64.8	66.8	-90.00	-6,408.9	683.5	856.0	725.8	130.22	6.573	
18,900.0	12,367.0	18,926.4	12,367.0	65.7	67.7	-90.00	-6,508.9	684.1	856.0	724.0	132.02	6.484	
19,000.0	12,367.0	19,026.4	12,367.0	66.6	68.6	-90.00	-6,608.9	684.7	856.0	722.2	133.83	6.396	
19,100.0	12,367.0	19,126.4	12,367.0	67.5	69.5	-90.00	-6,708.9	685.3	856.0	720.4	135.64	6.311	
19,200.0	12,367.0	19,226.4	12,367.0	68.5	70.4	-90.00	-6,808.9	685.9	856.0	718.5	137.45	6.228	
19,300.0	12,367.0	19,326.4	12,367.0	69.4	71.3	-90.00	-6,908.9	686.6	856.0	716.7	139.27	6.146	
19,400.0	12,367.0	19,426.4	12,367.0	70.3	72.3	-90.00	-7,008.9	687.2	856.0	714.9	141.09	6.067	
19,500.0	12,367.0	19,526.4	12,367.0	71.3	73.2	-90.00	-7,108.9	687.8	856.0	713.1	142.90	5.990	
19,600.4	12,367.0	19,626.8	12,367.0	72.2	74.1	-90.00	-7,209.3	688.4	856.0	711.3	144.73	5.914 SF	

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

ConocoPhillips

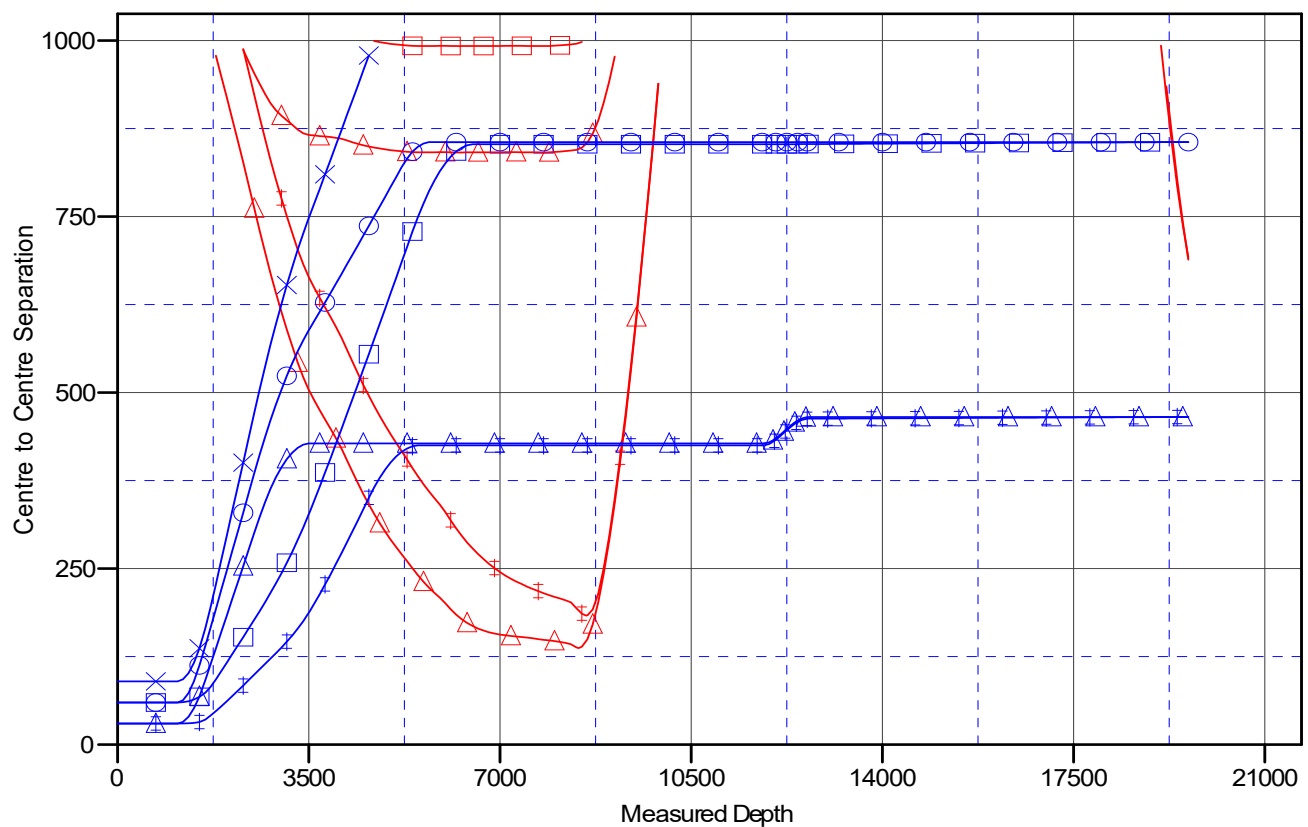
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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 710H - 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 6H,OWB, AWP V0	APOLLO 7 #8H, OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 708H, OWB, PWP0 V0
SD WE 23 FED P25 #6H, OWB, AWP V0	APOLLO 7 #9H, OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 709H, OWB, PWP0 V0
SD WE 23 FED P25 #3H, OWB, AWP V0	APOLLO 7 #6H, OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 711H, OWB, PWP0 V0
SD WE 23 FEDERAL P25 7H,OWB, AWP V0	_ZIA HILLS UNIT 2632 WC 707H, OWB, PWP0 V0	_ZIA HILLS UNIT 2632 WC 712H, OWB, PWP0 V0

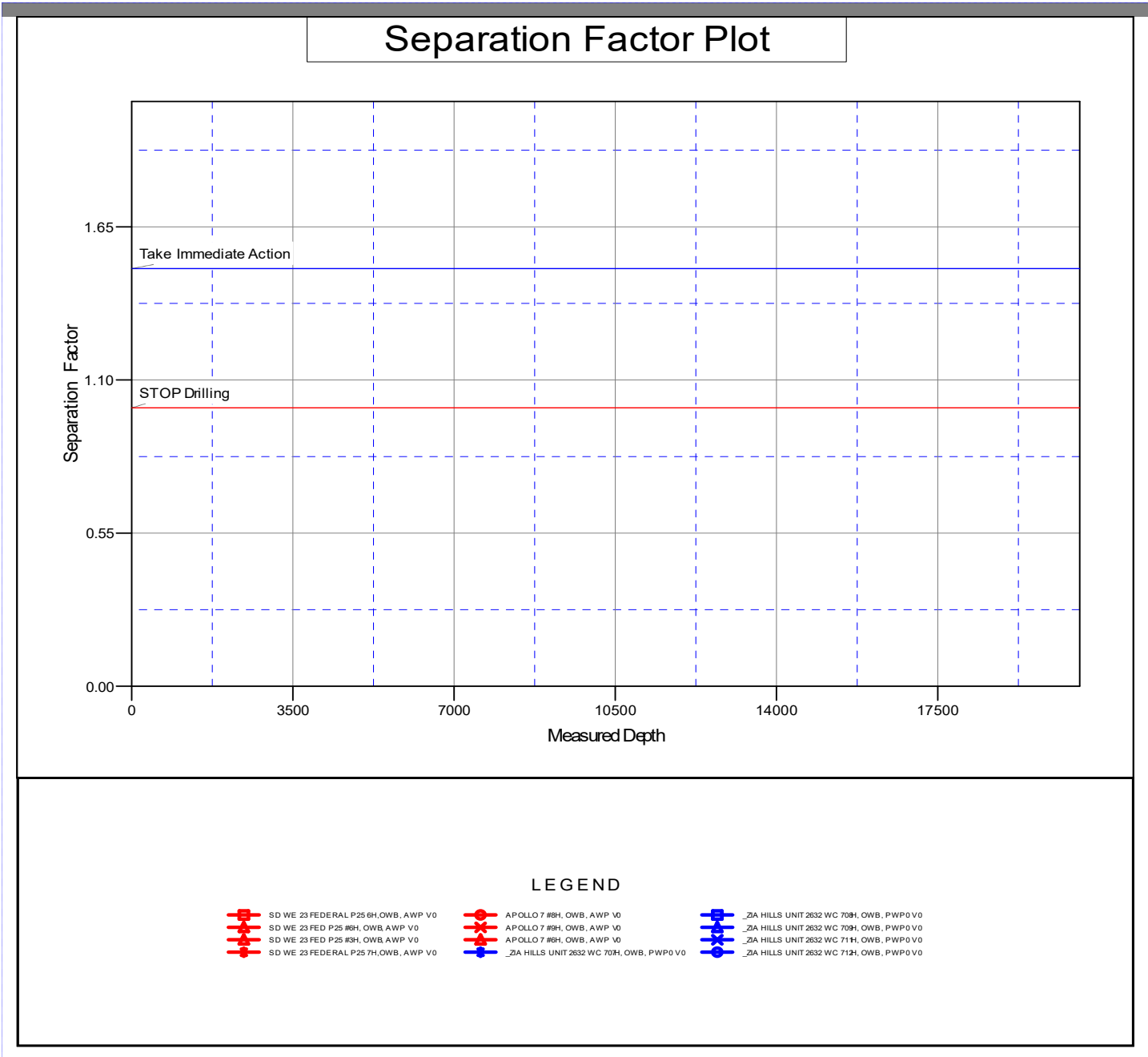
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UNIT2632 WC 710H
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 710H	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

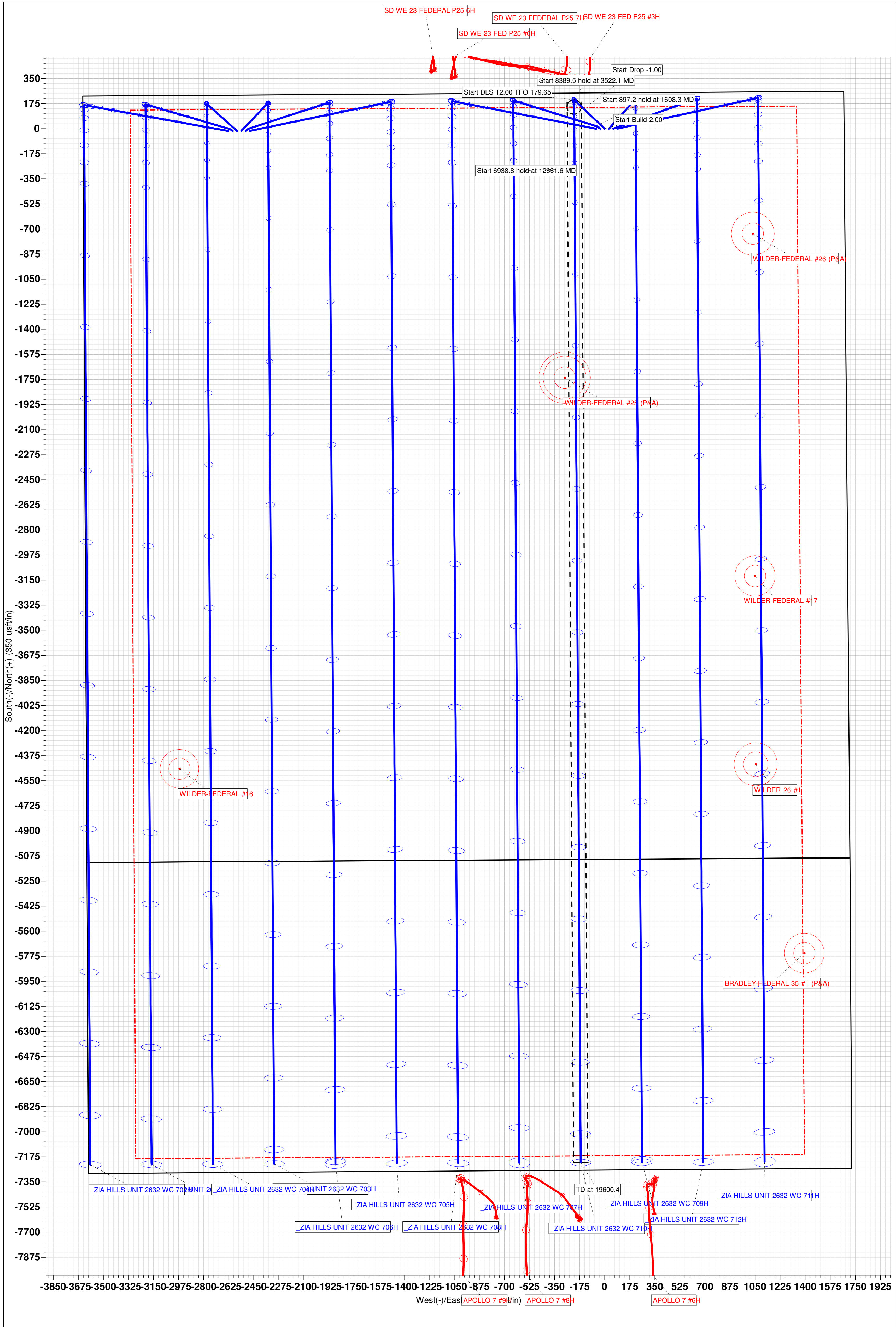
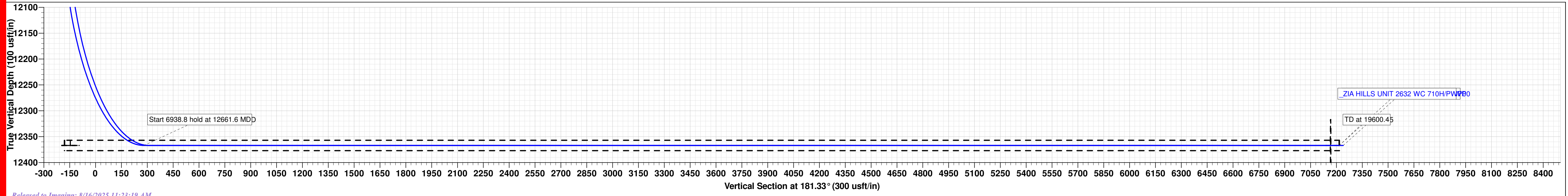
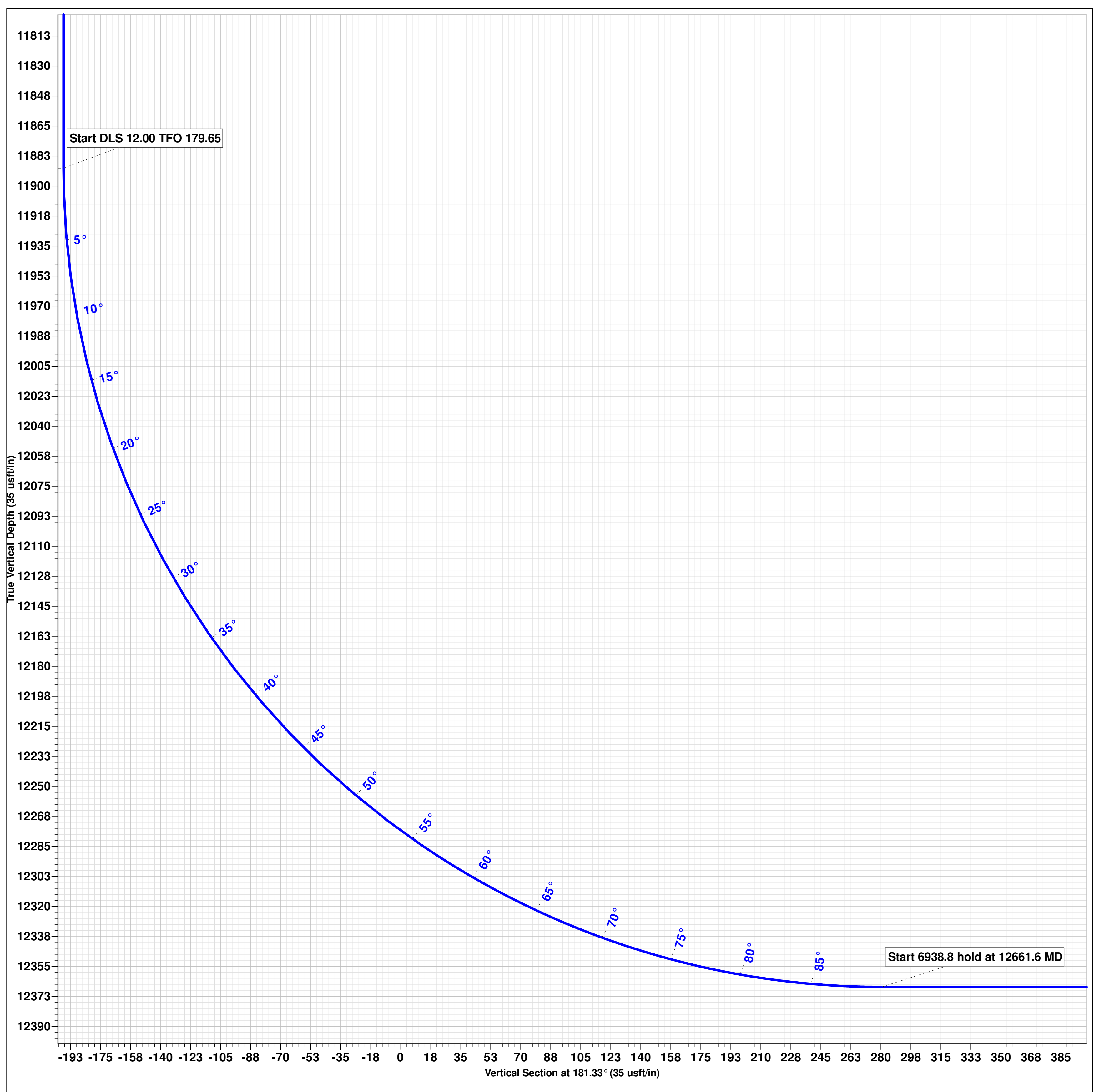
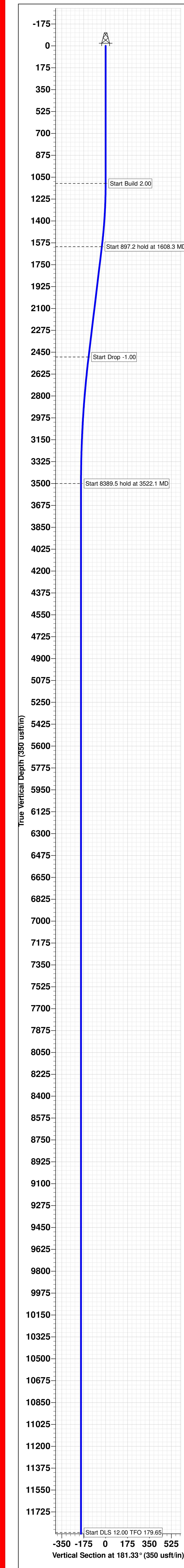
Coordinates are relative to: _ZIA HILLS UNIT 2632 WC 710H - Slot ZIA HILLS UN
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.37°



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

Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2632 PROJECT
Well: ZIA HILLS UNIT 2632 WC 710H
Wellbore: OWB
Design: PWP0

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0
1608.3	10.17	313.42	1605.6	30.9	-32.7	2.00	313.42	-30.1
2505.5	10.17	313.42	2488.7	139.8	-147.7	0.00	0.00	-136.3
3522.1	0.00	0.00	3500.0	201.6	-213.0	1.00	180.00	-196.6
11911.6	0.00	0.00	11889.5	201.6	-213.0	0.00	0.00	-196.6
12661.6	90.00	179.65	12367.0	-275.9	-210.1	12.00	179.65	280.7
19600.4	90.00	179.65	12367.0	-7214.6	-167.6	0.00	0.00	7216.5



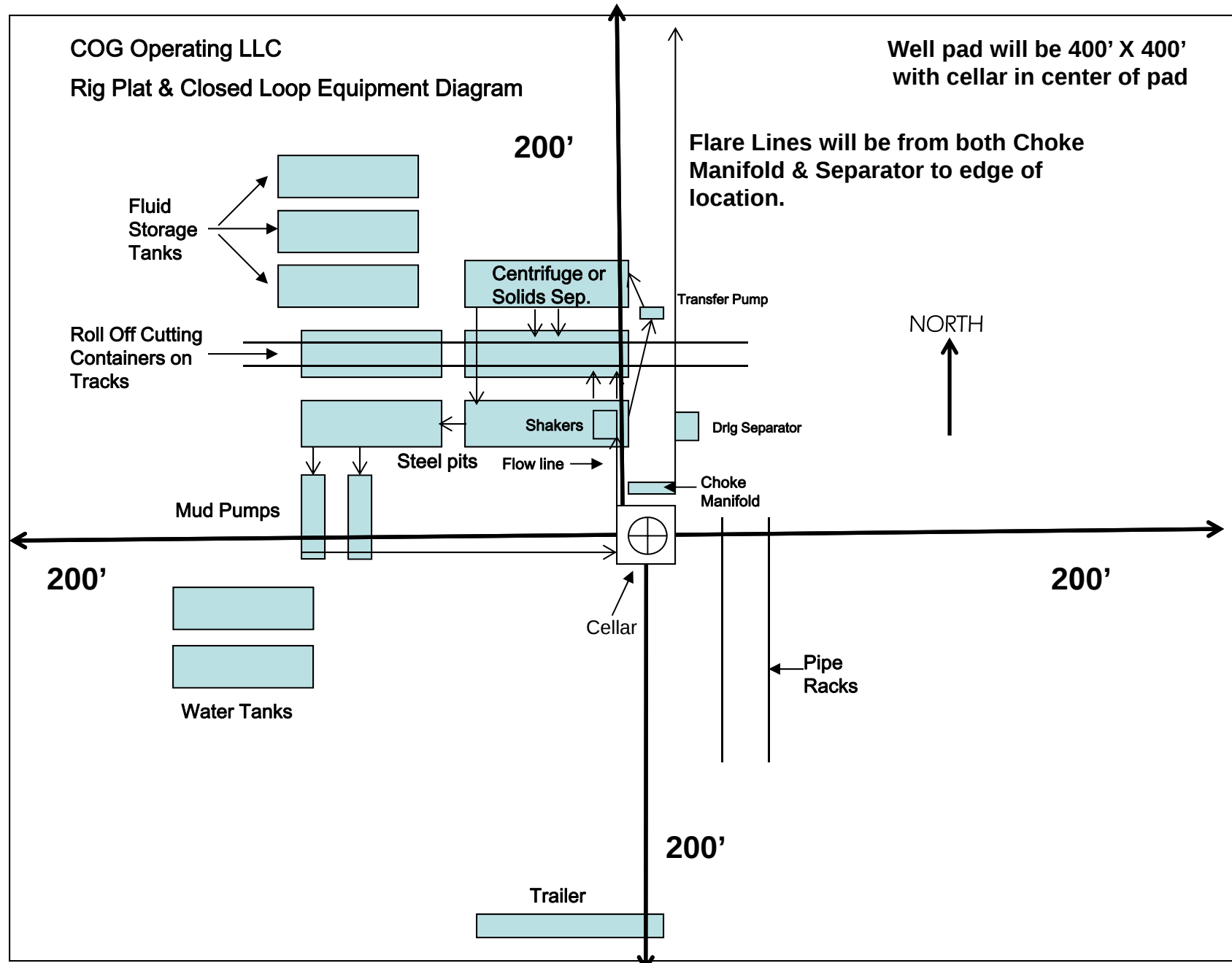


Exhibit 1

"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

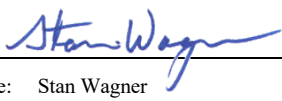
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

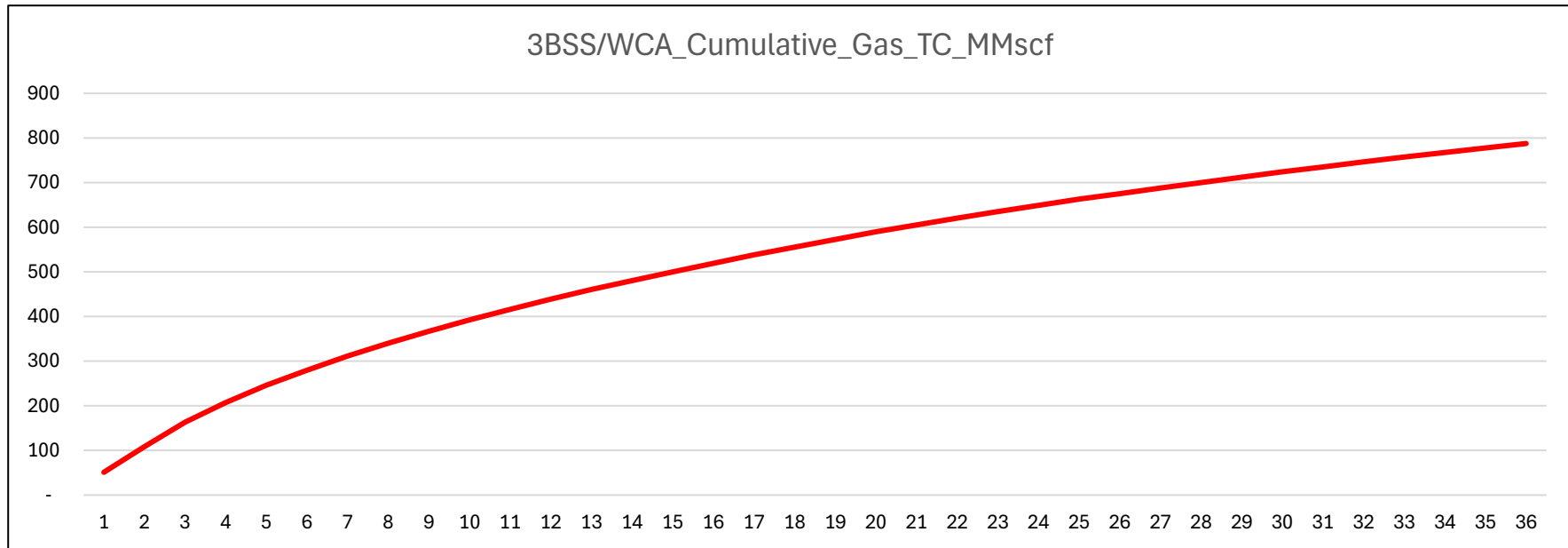
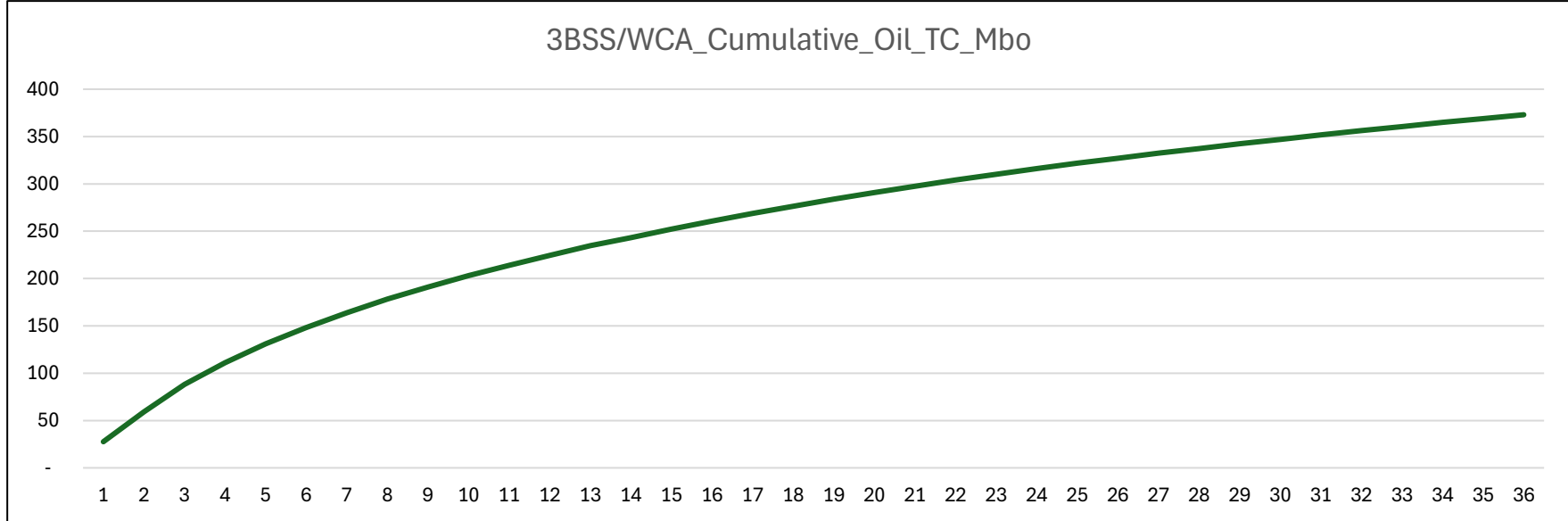
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize 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 710H
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 470432

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 470432
	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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CONDITIONS

Action 470432

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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