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

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

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

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-025-55003

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 05/30/2025

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 250 FNL / 2570 FEL / TWSP: 26S / RANGE: 32E / SECTION: 26 / LAT: 32.020208 / LONG: -103.645339 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 600 FEL / TWSP: 26S / RANGE: 32E / SECTION: 26 / LAT: 32.02062 / LONG: -103.638984 (TVD: 12062 feet, MD: 12212 feet)

PPP: NENE / 1 FNL / 600 FEL / TWSP: 26S / RANGE: 32E / SECTION: 35 / LAT: 32.006194 / LONG: -103.638954 (TVD: 12184 feet, MD: 17393 feet)

BHL: LOT 1 / 50 FSL / 600 FEL / TWSP: 26S / RANGE: 32E / SECTION: 35 / LAT: 32.00037 / LONG: -103.638957 (TVD: 12184 feet, MD: 19507 feet)

BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-025-55003	98081	ZIA HILLS;WOLFCAMP

Property Code	Property Name	Well Number
337705	ZIA HILLS UNIT 2632 WC	711H

OGRID No.	Operator Name	Ground Level Elevation
217817	CONOCOPHILLIPS COMPANY	3,120'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal | Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	26	26S	32E		250' FNL	2,570' FEL	32.020208°	-103.645339°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 1	35	26S	32E		50' FSL	600' FEL	32.000370°	-103.638957°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
	Infill	Pending 709H		Unit

Order Numbers. R-20080 | Well setbacks are under Common Ownership: ☒Yes ☐No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	26	26S	32E		250' FNL	2,570' FEL	32.020208°	-103.645339°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	26	26S	32E		100' FNL	600' FEL	32.020620°	-103.638984°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 1	35	26S	32E		100' FSL	600' FEL	32.000508°	-103.638957°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:

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 3/19/2025

Signature Date

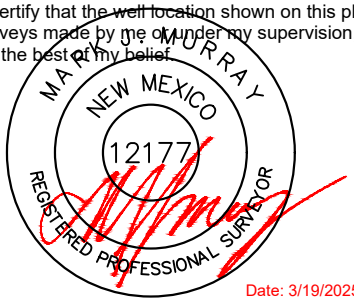
Stan Wagner

Printed Name

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Date: 3/19/2025

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
12177	3/19/2025

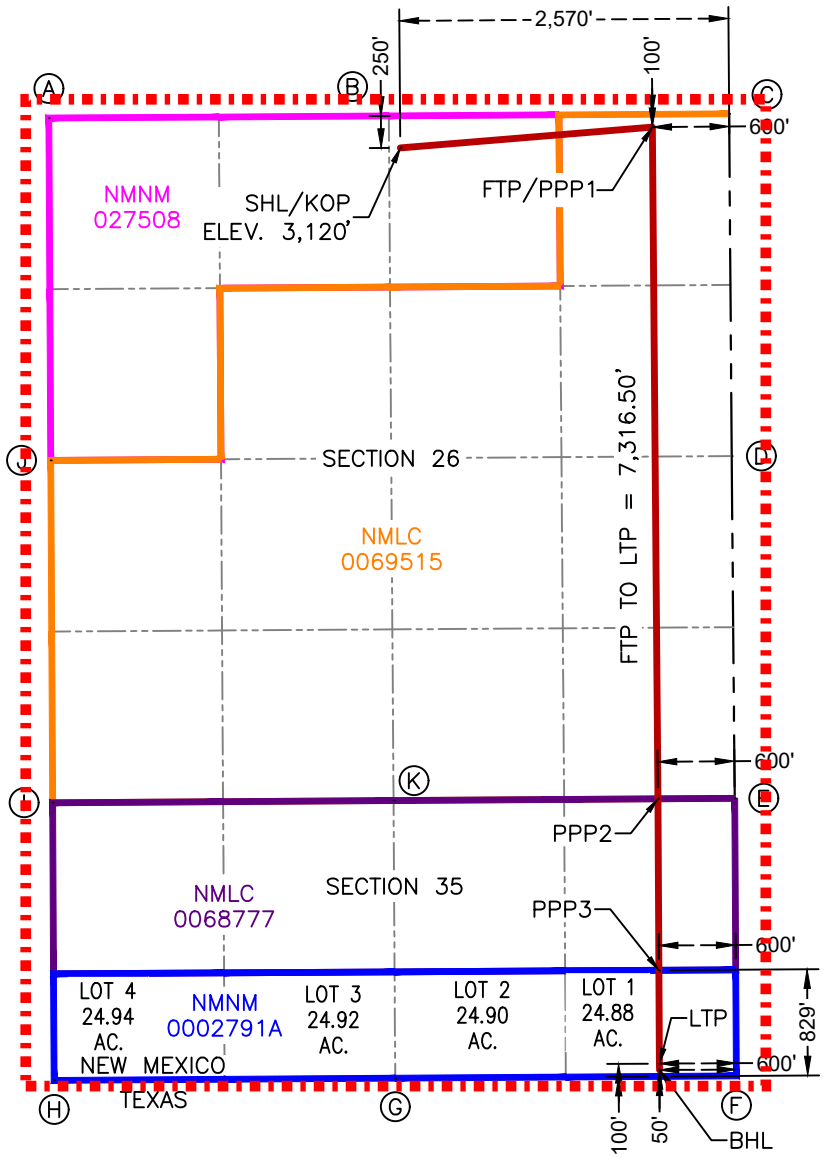
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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 711H



SURFACE HOLE LOCATION
& KICK-OFF POINT
250' FNL & 2,570' FEL
ELEV.=3,120'

NAD 83 X = 754,562.87'
NAD 83 Y = 371,769.26'
NAD 83 LAT = 32.020208°
NAD 83 LONG = -103.645339°

FIRST TAKE POINT &
PENETRATION POINT 1
100' FNL & 600' FEL

NAD 83 X = 756,531.70'
NAD 83 Y = 371,931.76'
NAD 83 LAT = 32.020620°
NAD 83 LONG = -103.638984°

PENETRATION POINT 2
0' FSL & 600' FEL

NAD 83 X = 756,574.56'
NAD 83 Y = 366,684.13'
NAD 83 LAT = 32.006194°
NAD 83 LONG = -103.638954°

PENETRATION POINT 3
829' FSL & 600' FEL

NAD 83 X = 756,582.55'
NAD 83 Y = 365,344.79'
NAD 83 LAT = 32.002513°
NAD 83 LONG = -103.638956°

LAST TAKE POINT
100' FSL & 600' FEL

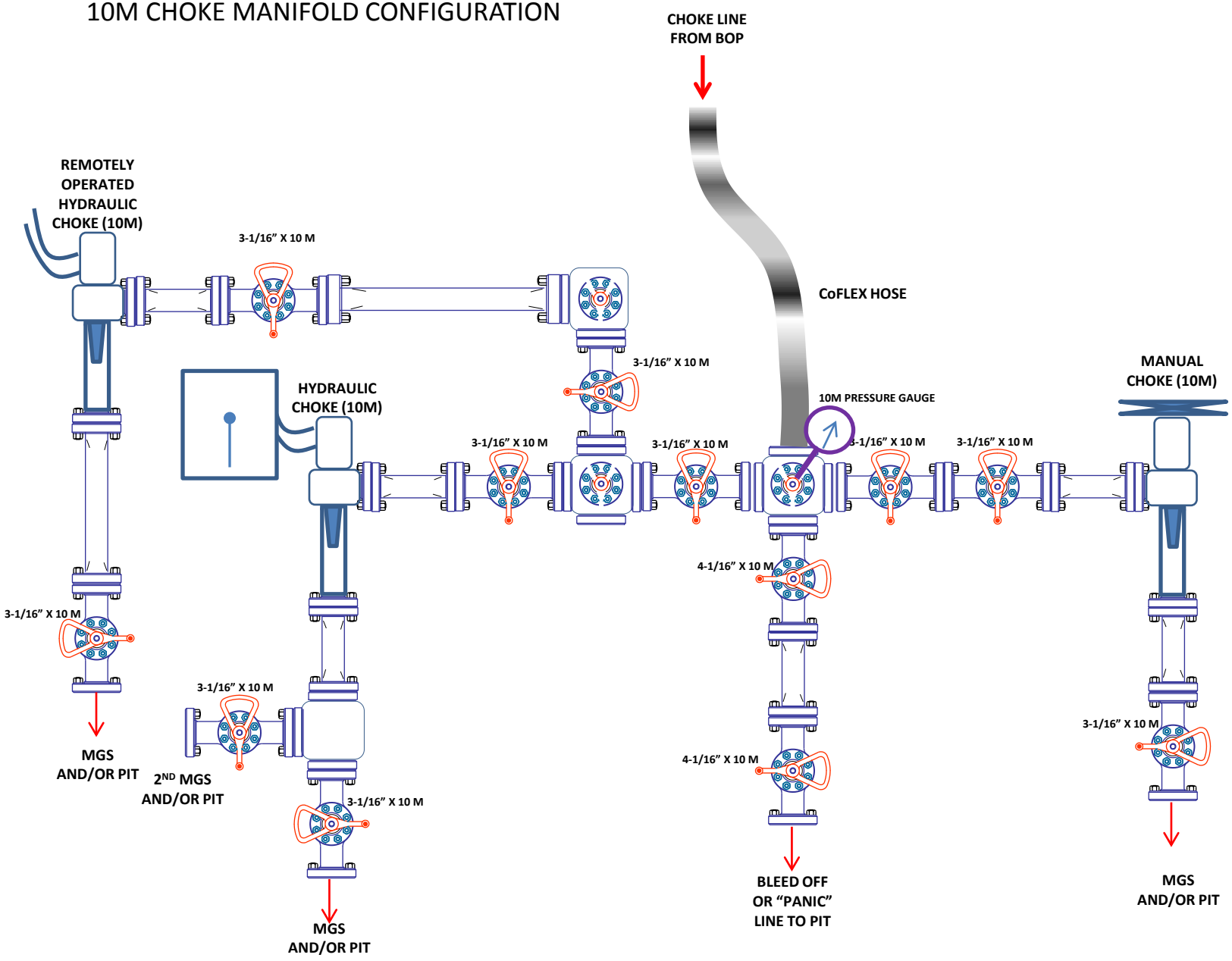
NAD 83 X = 756,586.91'
NAD 83 Y = 364,615.48'
NAD 83 LAT = 32.000508°
NAD 83 LONG = -103.638957°

BOTTOM HOLE LOCATION
50' FSL & 600' FEL

NAD 83 X = 756,587.20'
NAD 83 Y = 364,565.48'
NAD 83 LAT = 32.000370°
NAD 83 LONG = -103.638957°

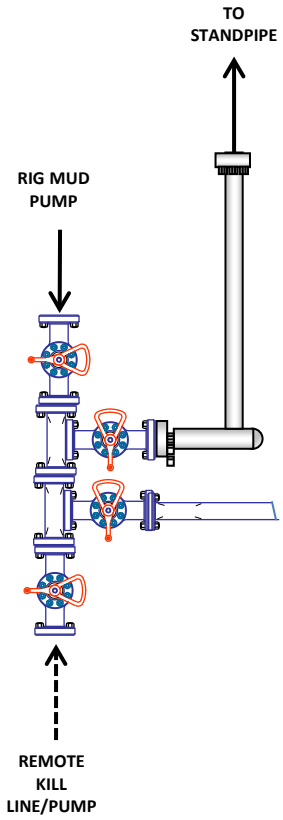
CORNER COORDINATES NEW MEXICO EAST - NAD 83					
A	IRON PIPE W/BRASS CAP N:372,002.66' E:751,816.12'	E	IRON PIPE W/BRASS CAP N:366,688.03' E:757,174.54'	I	IRON PIPE W/BRASS CAP N:366,653.36' E:751,847.09'
B	IRON PIPE W/BRASS CAP N:372,018.70' E:754,473.10'	F	IRON PIPE W/BRASS CAP N:364,519.44' E:757,187.49'	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

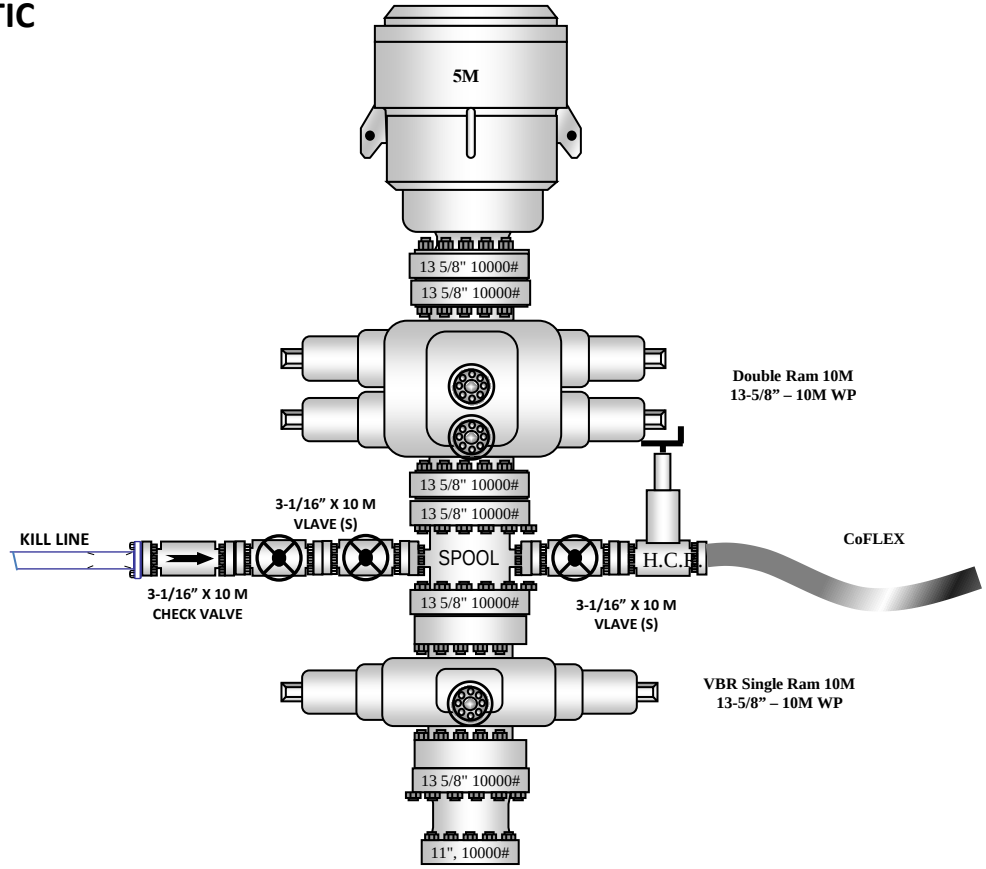


10M BOP Stack

10M REMOTE KILL SCHEMATIC



10M BOP Stack
(5M Annular)



ConocoPhillips Company - Zia Hills Unit 2632 WC 711H

1. Geologic Formations

TVD of target	12,184' EOL	Pilot hole depth	NA
MD at TD:	19,507'	Deepest expected fresh water:	400'

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

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1070	10.75"	45.5	J55	BTC	4.27	1.04	14.69	16.35
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	1.38	1.00	2.98	3.01
8.750"	8200	11660	7.625"	29.7	P110-ICY	W513	1.21	1.51	3.08	1.85
6.75"	0	11460	5.5"	23	P110-CY	BTC	1.81	1.96	2.77	2.77
6.75"	11460	19,507	5.5"	23	P110-CY	W441	1.70	1.98	2.60	2.36
						BLM Minimum Safety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency 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	1.26	5.18	5.36
8.75"	4220	11660	7.625"	29.7	P110-ICY	W513	1.21	1.51	3.08	1.85
6.75"	0	11460	5.5"	23	P110-CY	BTC	1.81	2.11	2.77	2.77
6.75"	11460	19,507	5.5"	23	P110-CY	W441	1.70	1.98	2.60	2.36
					BLM Minimum Safety Factor		1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

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

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

ConocoPhillips Company - Zia Hills Unit 2632 WC 711H

	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 3rd 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 2nd 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 711H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	520	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
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	720	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	610	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results
Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0’	50%
1st Intermediate	0’	50%
Production	11,160'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	640	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Int. #1	650	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl2
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl2
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%
1st Intermediate	0’	50%
2nd Intermediate	4,220'	20%
Production	11,160'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2632 WC 711H

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4" or 9-7/8”	13-5/8”	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4”	13-5/8”	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR Part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips Company - Zia Hills Unit 2632 WC 711H

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

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 711H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8555 psi at 12184' TVD
Abnormal Temperature	NO 175 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H2S 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 (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S 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 H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S 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 H_2S 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

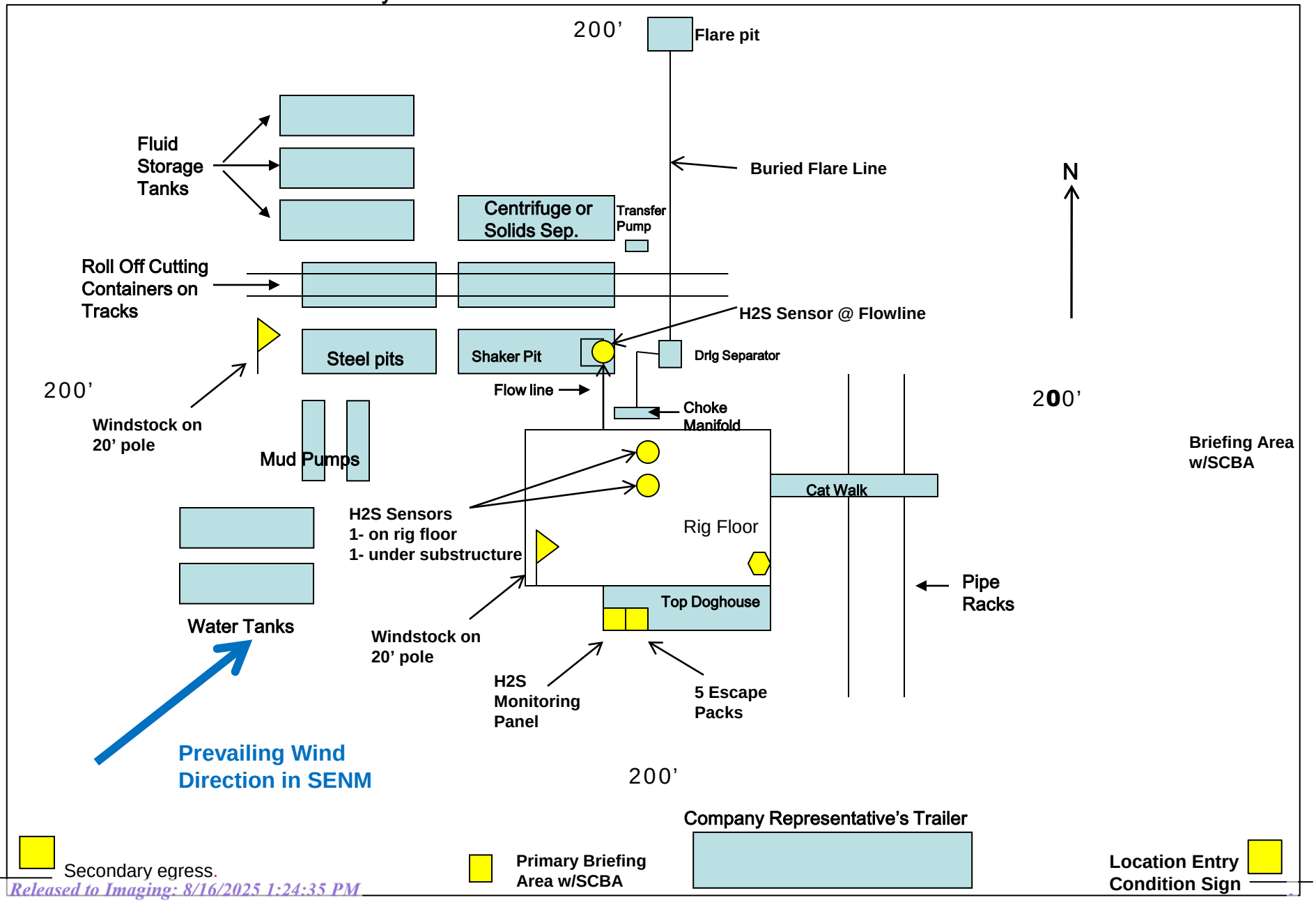
	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	OFFICE
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
H_2S 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 711H - Slot ZIA HILLS UNIT2632 WC 711H

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 711H - Slot ZIA HILLS UNIT2632 WC 711H

Well Position	**+N/-S**	0.0 usft	**Northing:**	371,718.78 usft	**Latitude:**	32° 1' 12.299 N
	+E/-W	0.0 usft	**Easting:**	714,364.25 usft	**Longitude:**	103° 38' 30.050 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	47,253.55532799

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	171.90

Plan Survey Tool Program **Date** 7/18/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,507.3	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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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	
1,737.2	12.74	77.67	1,731.9	15.1	68.9	2.00	2.00	0.00	77.67	
5,329.9	12.74	77.67	5,236.2	184.4	843.1	0.00	0.00	0.00	0.00	
6,604.2	0.00	0.00	6,500.0	214.5	981.0	1.00	-1.00	0.00	180.00	
11,810.7	0.00	0.00	11,706.5	214.5	981.0	0.00	0.00	0.00	0.00	
12,560.7	90.00	179.65	12,184.0	-263.0	983.9	12.00	12.00	23.95	179.65	
19,507.7	90.00	179.65	12,184.0	-7,209.8	1,026.5	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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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	77.67	1,200.0	0.4	1.7	-0.1	2.00	2.00	0.00
1,300.0	4.00	77.67	1,299.8	1.5	6.8	-0.5	2.00	2.00	0.00
1,400.0	6.00	77.67	1,399.5	3.4	15.3	-1.2	2.00	2.00	0.00
1,500.0	8.00	77.67	1,498.7	6.0	27.2	-2.1	2.00	2.00	0.00
1,600.0	10.00	77.67	1,597.5	9.3	42.5	-3.2	2.00	2.00	0.00
1,700.0	12.00	77.67	1,695.6	13.4	61.2	-4.6	2.00	2.00	0.00
1,737.2	12.74	77.67	1,731.9	15.1	68.9	-5.2	2.00	2.00	0.00
1,800.0	12.74	77.67	1,793.2	18.0	82.5	-6.2	0.00	0.00	0.00
1,900.0	12.74	77.67	1,890.7	22.7	104.0	-7.9	0.00	0.00	0.00
2,000.0	12.74	77.67	1,988.3	27.5	125.6	-9.5	0.00	0.00	0.00
2,100.0	12.74	77.67	2,085.8	32.2	147.1	-11.1	0.00	0.00	0.00
2,200.0	12.74	77.67	2,183.4	36.9	168.7	-12.7	0.00	0.00	0.00
2,300.0	12.74	77.67	2,280.9	41.6	190.2	-14.4	0.00	0.00	0.00
2,400.0	12.74	77.67	2,378.4	46.3	211.8	-16.0	0.00	0.00	0.00
2,500.0	12.74	77.67	2,476.0	51.0	233.3	-17.6	0.00	0.00	0.00
2,600.0	12.74	77.67	2,573.5	55.7	254.9	-19.2	0.00	0.00	0.00
2,700.0	12.74	77.67	2,671.0	60.4	276.4	-20.9	0.00	0.00	0.00
2,800.0	12.74	77.67	2,768.6	65.2	298.0	-22.5	0.00	0.00	0.00
2,900.0	12.74	77.67	2,866.1	69.9	319.5	-24.1	0.00	0.00	0.00
3,000.0	12.74	77.67	2,963.7	74.6	341.1	-25.8	0.00	0.00	0.00
3,100.0	12.74	77.67	3,061.2	79.3	362.6	-27.4	0.00	0.00	0.00
3,200.0	12.74	77.67	3,158.7	84.0	384.2	-29.0	0.00	0.00	0.00
3,300.0	12.74	77.67	3,256.3	88.7	405.7	-30.6	0.00	0.00	0.00
3,400.0	12.74	77.67	3,353.8	93.4	427.3	-32.3	0.00	0.00	0.00
3,500.0	12.74	77.67	3,451.3	98.1	448.8	-33.9	0.00	0.00	0.00
3,600.0	12.74	77.67	3,548.9	102.8	470.4	-35.5	0.00	0.00	0.00
3,700.0	12.74	77.67	3,646.4	107.6	491.9	-37.1	0.00	0.00	0.00
3,800.0	12.74	77.67	3,743.9	112.3	513.5	-38.8	0.00	0.00	0.00
3,900.0	12.74	77.67	3,841.5	117.0	535.0	-40.4	0.00	0.00	0.00
4,000.0	12.74	77.67	3,939.0	121.7	556.6	-42.0	0.00	0.00	0.00
4,100.0	12.74	77.67	4,036.6	126.4	578.1	-43.7	0.00	0.00	0.00
4,200.0	12.74	77.67	4,134.1	131.1	599.6	-45.3	0.00	0.00	0.00
4,300.0	12.74	77.67	4,231.6	135.8	621.2	-46.9	0.00	0.00	0.00
4,400.0	12.74	77.67	4,329.2	140.5	642.7	-48.5	0.00	0.00	0.00
4,500.0	12.74	77.67	4,426.7	145.3	664.3	-50.2	0.00	0.00	0.00
4,600.0	12.74	77.67	4,524.2	150.0	685.8	-51.8	0.00	0.00	0.00
4,700.0	12.74	77.67	4,621.8	154.7	707.4	-53.4	0.00	0.00	0.00
4,800.0	12.74	77.67	4,719.3	159.4	728.9	-55.0	0.00	0.00	0.00
4,900.0	12.74	77.67	4,816.9	164.1	750.5	-56.7	0.00	0.00	0.00
5,000.0	12.74	77.67	4,914.4	168.8	772.0	-58.3	0.00	0.00	0.00
5,100.0	12.74	77.67	5,011.9	173.5	793.6	-59.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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	12.74	77.67	5,109.5	178.2	815.1	-61.6	0.00	0.00	0.00
5,300.0	12.74	77.67	5,207.0	182.9	836.7	-63.2	0.00	0.00	0.00
5,329.9	12.74	77.67	5,236.2	184.4	843.1	-63.7	0.00	0.00	0.00
5,400.0	12.04	77.67	5,304.6	187.6	857.8	-64.8	1.00	-1.00	0.00
5,500.0	11.04	77.67	5,402.6	191.8	877.4	-66.3	1.00	-1.00	0.00
5,600.0	10.04	77.67	5,500.9	195.7	895.2	-67.6	1.00	-1.00	0.00
5,700.0	9.04	77.67	5,599.5	199.3	911.4	-68.8	1.00	-1.00	0.00
5,800.0	8.04	77.67	5,698.4	202.5	926.0	-69.9	1.00	-1.00	0.00
5,900.0	7.04	77.67	5,797.6	205.3	938.8	-70.9	1.00	-1.00	0.00
6,000.0	6.04	77.67	5,896.9	207.7	949.9	-71.7	1.00	-1.00	0.00
6,100.0	5.04	77.67	5,996.4	209.8	959.3	-72.4	1.00	-1.00	0.00
6,200.0	4.04	77.67	6,096.1	211.5	967.1	-73.0	1.00	-1.00	0.00
6,300.0	3.04	77.67	6,195.9	212.8	973.1	-73.5	1.00	-1.00	0.00
6,400.0	2.04	77.67	6,295.8	213.7	977.4	-73.8	1.00	-1.00	0.00
6,500.0	1.04	77.67	6,395.8	214.3	980.1	-74.0	1.00	-1.00	0.00
6,604.2	0.00	0.00	6,500.0	214.5	981.0	-74.1	1.00	-1.00	0.00
6,700.0	0.00	0.00	6,595.8	214.5	981.0	-74.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,695.8	214.5	981.0	-74.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,795.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,895.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,100.0	0.00	0.00	6,995.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,095.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,195.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,295.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,395.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,495.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,595.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,695.8	214.5	981.0	-74.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,795.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,895.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,100.0	0.00	0.00	7,995.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,095.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,195.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,295.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,395.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,495.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,595.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,695.8	214.5	981.0	-74.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,795.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,895.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,100.0	0.00	0.00	8,995.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,095.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,195.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,295.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,395.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,495.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,595.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,695.8	214.5	981.0	-74.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,795.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,895.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,100.0	0.00	0.00	9,995.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,095.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,195.8	214.5	981.0	-74.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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)
10,400.0	0.00	0.00	10,295.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,395.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,495.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,595.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,695.8	214.5	981.0	-74.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,795.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,895.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,100.0	0.00	0.00	10,995.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,095.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,195.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,295.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,500.0	0.00	0.00	11,395.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,600.0	0.00	0.00	11,495.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,700.0	0.00	0.00	11,595.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,800.0	0.00	0.00	11,695.8	214.5	981.0	-74.1	0.00	0.00	0.00
11,810.7	0.00	0.00	11,706.5	214.5	981.0	-74.1	0.00	0.00	0.00
11,825.0	1.71	179.65	11,720.8	214.3	981.0	-73.9	12.00	12.00	0.00
11,850.0	4.71	179.65	11,745.7	212.9	981.0	-72.5	12.00	12.00	0.00
11,875.0	7.71	179.65	11,770.6	210.2	981.0	-69.8	12.00	12.00	0.00
11,900.0	10.71	179.65	11,795.3	206.2	981.1	-65.8	12.00	12.00	0.00
11,925.0	13.71	179.65	11,819.7	200.9	981.1	-60.6	12.00	12.00	0.00
11,950.0	16.71	179.65	11,843.8	194.3	981.1	-54.1	12.00	12.00	0.00
11,975.0	19.71	179.65	11,867.6	186.5	981.2	-46.3	12.00	12.00	0.00
12,000.0	22.71	179.65	11,890.9	177.5	981.2	-37.4	12.00	12.00	0.00
12,025.0	25.71	179.65	11,913.7	167.2	981.3	-27.2	12.00	12.00	0.00
12,050.0	28.71	179.65	11,935.9	155.8	981.4	-15.9	12.00	12.00	0.00
12,075.0	31.71	179.65	11,957.5	143.2	981.4	-3.4	12.00	12.00	0.00
12,100.0	34.71	179.65	11,978.4	129.5	981.5	10.1	12.00	12.00	0.00
12,125.0	37.71	179.65	11,998.6	114.7	981.6	24.8	12.00	12.00	0.00
12,150.0	40.71	179.65	12,017.9	98.9	981.7	40.4	12.00	12.00	0.00
12,175.0	43.71	179.65	12,036.5	82.1	981.8	57.1	12.00	12.00	0.00
12,200.0	46.71	179.65	12,054.1	64.4	981.9	74.6	12.00	12.00	0.00
12,225.0	49.71	179.65	12,070.7	45.8	982.0	93.1	12.00	12.00	0.00
12,250.0	52.71	179.65	12,086.4	26.3	982.2	112.4	12.00	12.00	0.00
12,275.0	55.71	179.65	12,101.0	6.0	982.3	132.5	12.00	12.00	0.00
12,300.0	58.71	179.65	12,114.5	-15.0	982.4	153.3	12.00	12.00	0.00
12,325.0	61.71	179.65	12,127.0	-36.7	982.5	174.8	12.00	12.00	0.00
12,350.0	64.71	179.65	12,138.2	-59.0	982.7	196.9	12.00	12.00	0.00
12,375.0	67.71	179.65	12,148.3	-81.9	982.8	219.6	12.00	12.00	0.00
12,400.0	70.71	179.65	12,157.2	-105.3	983.0	242.8	12.00	12.00	0.00
12,425.0	73.71	179.65	12,164.8	-129.1	983.1	266.4	12.00	12.00	0.00
12,450.0	76.71	179.65	12,171.2	-153.2	983.3	290.3	12.00	12.00	0.00
12,475.0	79.71	179.65	12,176.3	-177.7	983.4	314.5	12.00	12.00	0.00
12,500.0	82.71	179.65	12,180.1	-202.4	983.6	339.0	12.00	12.00	0.00
12,525.0	85.71	179.65	12,182.6	-227.3	983.7	363.7	12.00	12.00	0.00
12,550.0	88.71	179.65	12,183.8	-252.2	983.9	388.4	12.00	12.00	0.00
12,560.7	90.00	179.65	12,184.0	-263.0	983.9	399.0	12.00	12.00	0.00
12,600.0	90.00	179.65	12,184.0	-302.2	984.2	437.9	0.00	0.00	0.00
12,700.0	90.00	179.65	12,184.0	-402.2	984.8	537.0	0.00	0.00	0.00
12,800.0	90.00	179.65	12,184.0	-502.2	985.4	636.1	0.00	0.00	0.00
12,900.0	90.00	179.65	12,184.0	-602.2	986.0	735.2	0.00	0.00	0.00
13,000.0	90.00	179.65	12,184.0	-702.2	986.6	834.3	0.00	0.00	0.00
13,100.0	90.00	179.65	12,184.0	-802.2	987.2	933.4	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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)
13,200.0	90.00	179.65	12,184.0	-902.2	987.8	1,032.5	0.00	0.00	0.00
13,300.0	90.00	179.65	12,184.0	-1,002.2	988.5	1,131.6	0.00	0.00	0.00
13,400.0	90.00	179.65	12,184.0	-1,102.2	989.1	1,230.6	0.00	0.00	0.00
13,500.0	90.00	179.65	12,184.0	-1,202.2	989.7	1,329.7	0.00	0.00	0.00
13,600.0	90.00	179.65	12,184.0	-1,302.2	990.3	1,428.8	0.00	0.00	0.00
13,700.0	90.00	179.65	12,184.0	-1,402.2	990.9	1,527.9	0.00	0.00	0.00
13,800.0	90.00	179.65	12,184.0	-1,502.2	991.5	1,627.0	0.00	0.00	0.00
13,900.0	90.00	179.65	12,184.0	-1,602.2	992.1	1,726.1	0.00	0.00	0.00
14,000.0	90.00	179.65	12,184.0	-1,702.2	992.8	1,825.2	0.00	0.00	0.00
14,100.0	90.00	179.65	12,184.0	-1,802.2	993.4	1,924.2	0.00	0.00	0.00
14,200.0	90.00	179.65	12,184.0	-1,902.2	994.0	2,023.3	0.00	0.00	0.00
14,300.0	90.00	179.65	12,184.0	-2,002.2	994.6	2,122.4	0.00	0.00	0.00
14,400.0	90.00	179.65	12,184.0	-2,102.2	995.2	2,221.5	0.00	0.00	0.00
14,500.0	90.00	179.65	12,184.0	-2,202.2	995.8	2,320.6	0.00	0.00	0.00
14,600.0	90.00	179.65	12,184.0	-2,302.2	996.4	2,419.7	0.00	0.00	0.00
14,700.0	90.00	179.65	12,184.0	-2,402.2	997.0	2,518.8	0.00	0.00	0.00
14,800.0	90.00	179.65	12,184.0	-2,502.2	997.7	2,617.8	0.00	0.00	0.00
14,900.0	90.00	179.65	12,184.0	-2,602.2	998.3	2,716.9	0.00	0.00	0.00
15,000.0	90.00	179.65	12,184.0	-2,702.2	998.9	2,816.0	0.00	0.00	0.00
15,100.0	90.00	179.65	12,184.0	-2,802.2	999.5	2,915.1	0.00	0.00	0.00
15,200.0	90.00	179.65	12,184.0	-2,902.2	1,000.1	3,014.2	0.00	0.00	0.00
15,300.0	90.00	179.65	12,184.0	-3,002.2	1,000.7	3,113.3	0.00	0.00	0.00
15,400.0	90.00	179.65	12,184.0	-3,102.2	1,001.3	3,212.4	0.00	0.00	0.00
15,500.0	90.00	179.65	12,184.0	-3,202.2	1,001.9	3,311.4	0.00	0.00	0.00
15,600.0	90.00	179.65	12,184.0	-3,302.2	1,002.6	3,410.5	0.00	0.00	0.00
15,700.0	90.00	179.65	12,184.0	-3,402.2	1,003.2	3,509.6	0.00	0.00	0.00
15,800.0	90.00	179.65	12,184.0	-3,502.2	1,003.8	3,608.7	0.00	0.00	0.00
15,900.0	90.00	179.65	12,184.0	-3,602.2	1,004.4	3,707.8	0.00	0.00	0.00
16,000.0	90.00	179.65	12,184.0	-3,702.2	1,005.0	3,806.9	0.00	0.00	0.00
16,100.0	90.00	179.65	12,184.0	-3,802.2	1,005.6	3,906.0	0.00	0.00	0.00
16,200.0	90.00	179.65	12,184.0	-3,902.2	1,006.2	4,005.1	0.00	0.00	0.00
16,300.0	90.00	179.65	12,184.0	-4,002.2	1,006.9	4,104.1	0.00	0.00	0.00
16,400.0	90.00	179.65	12,184.0	-4,102.2	1,007.5	4,203.2	0.00	0.00	0.00
16,500.0	90.00	179.65	12,184.0	-4,202.2	1,008.1	4,302.3	0.00	0.00	0.00
16,600.0	90.00	179.65	12,184.0	-4,302.2	1,008.7	4,401.4	0.00	0.00	0.00
16,700.0	90.00	179.65	12,184.0	-4,402.2	1,009.3	4,500.5	0.00	0.00	0.00
16,800.0	90.00	179.65	12,184.0	-4,502.2	1,009.9	4,599.6	0.00	0.00	0.00
16,900.0	90.00	179.65	12,184.0	-4,602.2	1,010.5	4,698.7	0.00	0.00	0.00
17,000.0	90.00	179.65	12,184.0	-4,702.2	1,011.1	4,797.7	0.00	0.00	0.00
17,100.0	90.00	179.65	12,184.0	-4,802.2	1,011.8	4,896.8	0.00	0.00	0.00
17,200.0	90.00	179.65	12,184.0	-4,902.2	1,012.4	4,995.9	0.00	0.00	0.00
17,300.0	90.00	179.65	12,184.0	-5,002.2	1,013.0	5,095.0	0.00	0.00	0.00
17,400.0	90.00	179.65	12,184.0	-5,102.2	1,013.6	5,194.1	0.00	0.00	0.00
17,500.0	90.00	179.65	12,184.0	-5,202.1	1,014.2	5,293.2	0.00	0.00	0.00
17,600.0	90.00	179.65	12,184.0	-5,302.1	1,014.8	5,392.3	0.00	0.00	0.00
17,700.0	90.00	179.65	12,184.0	-5,402.1	1,015.4	5,491.3	0.00	0.00	0.00
17,800.0	90.00	179.65	12,184.0	-5,502.1	1,016.0	5,590.4	0.00	0.00	0.00
17,900.0	90.00	179.65	12,184.0	-5,602.1	1,016.7	5,689.5	0.00	0.00	0.00
18,000.0	90.00	179.65	12,184.0	-5,702.1	1,017.3	5,788.6	0.00	0.00	0.00
18,100.0	90.00	179.65	12,184.0	-5,802.1	1,017.9	5,887.7	0.00	0.00	0.00
18,200.0	90.00	179.65	12,184.0	-5,902.1	1,018.5	5,986.8	0.00	0.00	0.00
18,300.0	90.00	179.65	12,184.0	-6,002.1	1,019.1	6,085.9	0.00	0.00	0.00
18,400.0	90.00	179.65	12,184.0	-6,102.1	1,019.7	6,184.9	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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)
18,500.0	90.00	179.65	12,184.0	-6,202.1	1,020.3	6,284.0	0.00	0.00	0.00
18,600.0	90.00	179.65	12,184.0	-6,302.1	1,021.0	6,383.1	0.00	0.00	0.00
18,700.0	90.00	179.65	12,184.0	-6,402.1	1,021.6	6,482.2	0.00	0.00	0.00
18,800.0	90.00	179.65	12,184.0	-6,502.1	1,022.2	6,581.3	0.00	0.00	0.00
18,900.0	90.00	179.65	12,184.0	-6,602.1	1,022.8	6,680.4	0.00	0.00	0.00
19,000.0	90.00	179.65	12,184.0	-6,702.1	1,023.4	6,779.5	0.00	0.00	0.00
19,100.0	90.00	179.65	12,184.0	-6,802.1	1,024.0	6,878.5	0.00	0.00	0.00
19,200.0	90.00	179.65	12,184.0	-6,902.1	1,024.6	6,977.6	0.00	0.00	0.00
19,300.0	90.00	179.65	12,184.0	-7,002.1	1,025.2	7,076.7	0.00	0.00	0.00
19,400.0	90.00	179.65	12,184.0	-7,102.1	1,025.9	7,175.8	0.00	0.00	0.00
19,507.7	90.00	179.65	12,184.0	-7,209.8	1,026.5	7,282.5	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
LTP (ZIA HILLS UNIT 26	90.00	179.67	12,184.0	-7,159.8	1,026.3	364,558.98	715,390.55	32° 0' 1.381 N	103° 38' 18.664 W
- plan misses target center by 0.1usft at 19457.7usft MD (12184.0 TVD, -7159.8 N, 1026.2 E)									
- Circle (radius 50.0)									
FTP (ZIA HILLS UNIT 26	0.00	0.00	12,184.0	164.5	979.1	371,883.26	715,343.37	32° 1' 13.865 N	103° 38' 18.665 W
- plan misses target center by 163.4usft at 12212.0usft MD (12062.2 TVD, 55.6 N, 982.0 E)									
- Circle (radius 50.0)									
PBHL (ZIA HILLS UNIT :	0.00	359.65	12,184.0	-7,209.8	1,026.5	364,508.98	715,390.77	32° 0' 0.886 N	103° 38' 18.665 W
- plan hits target center									
- Rectangle (sides W100.0 H7,375.0 D20.0)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
19,507.7	12,184.0	5-1/2" Production Casing	5-1/2	6

Project:	**ZIA HILLS UNIT AREA**
Site:	**ZIA HILLS UNIT 2632 PROJECT**
Well:	**_ZIA HILLS UNIT 2632 WC 711H**
Wellbore:	**OWB**
Design:	**PWP0**

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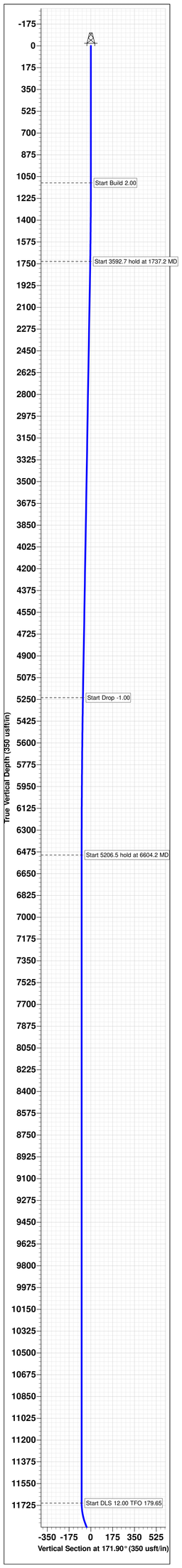
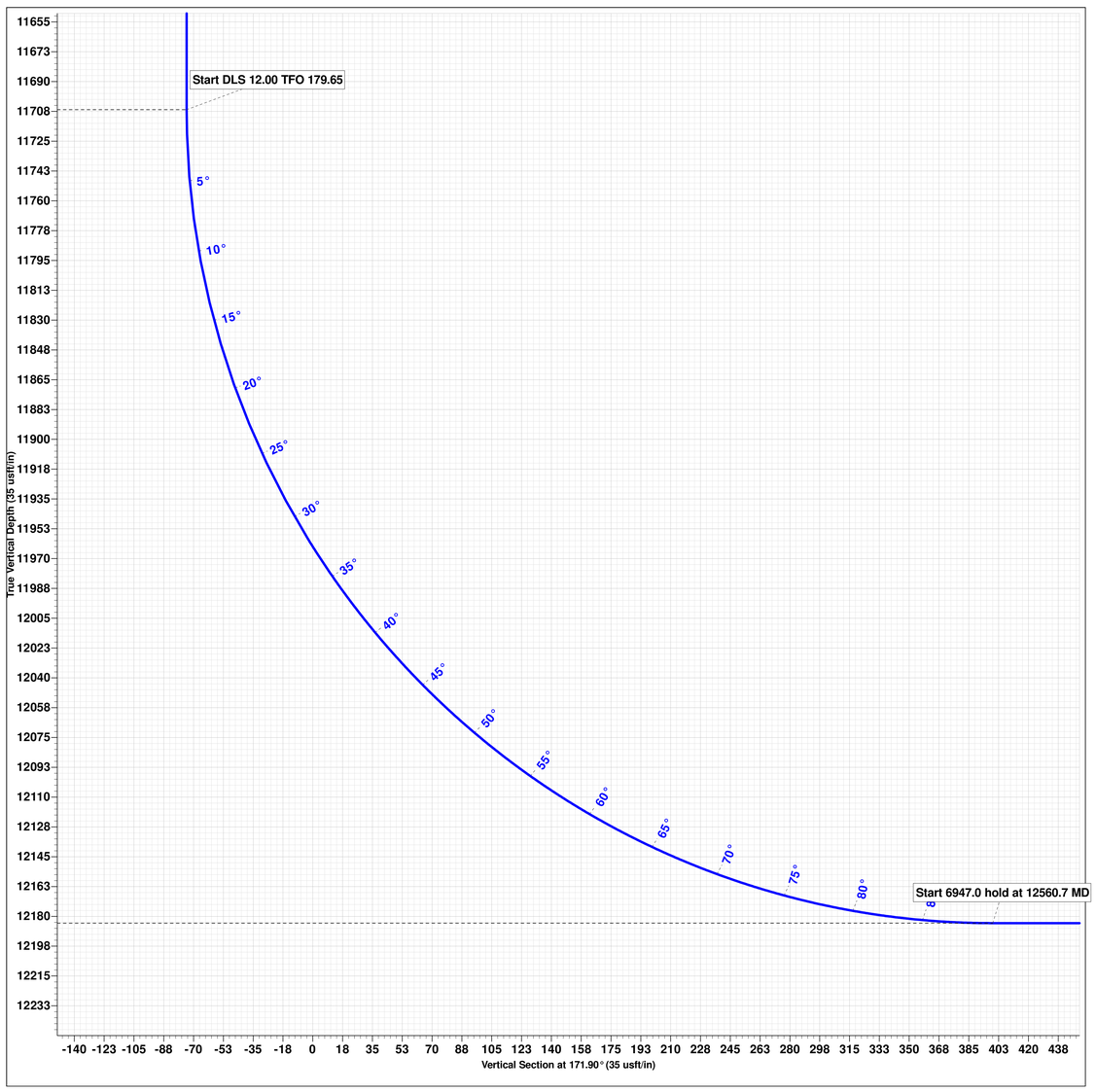
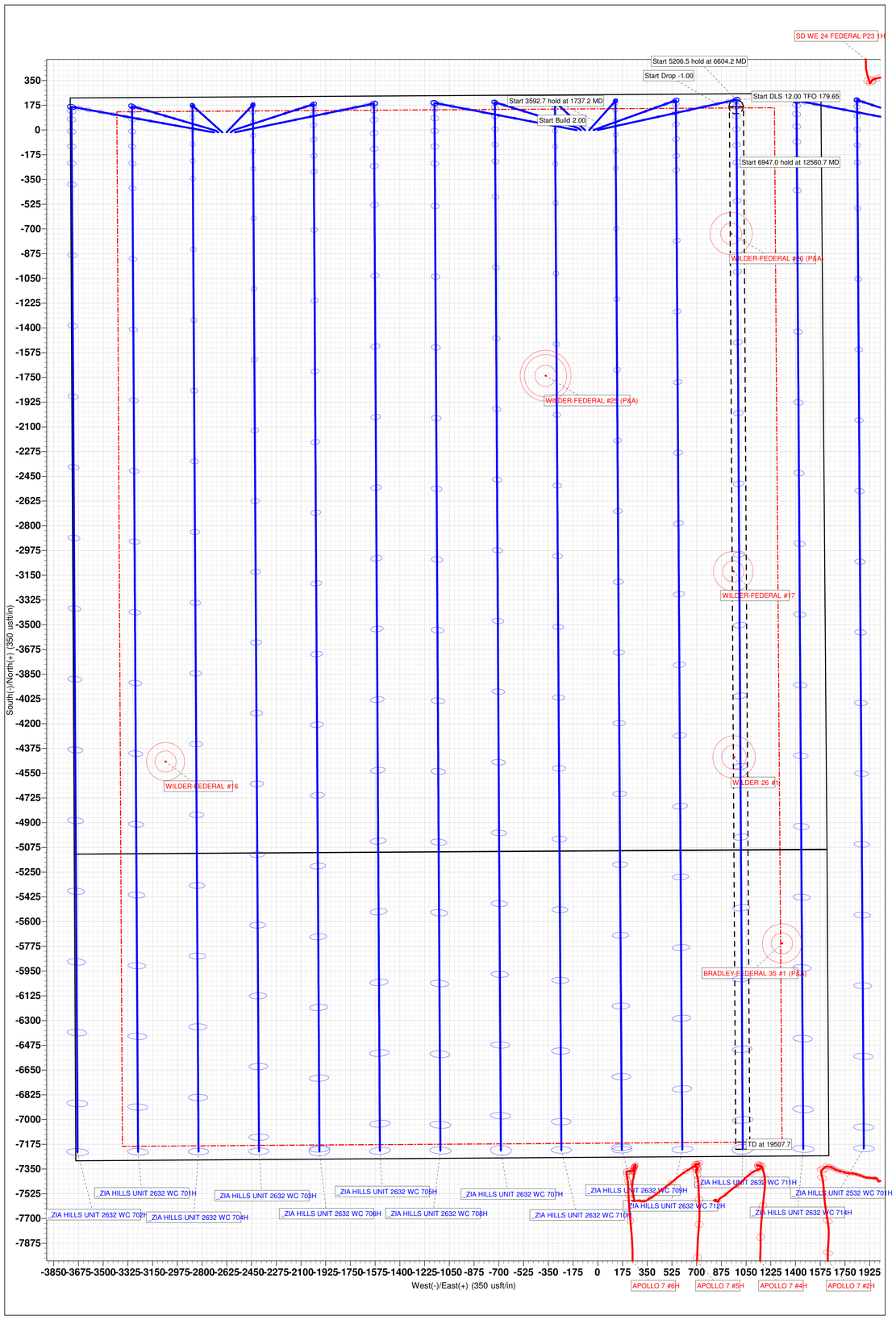
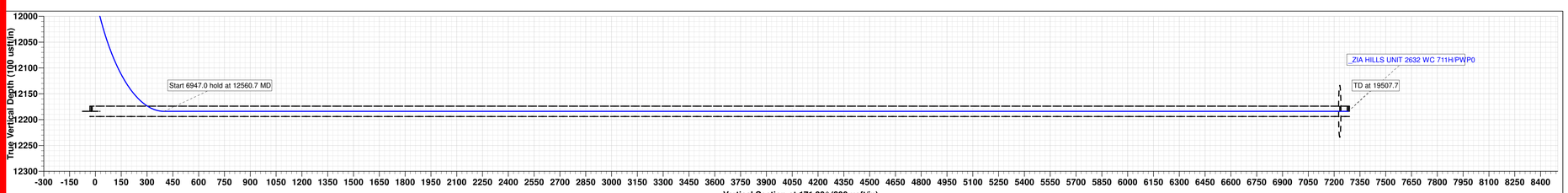
SECTION DETAILS

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
1737.2	12.74	77.67	1731.9	15.1	68.9	2.00	77.67	-5.2
5329.9	12.74	77.67	5236.2	184.4	843.1	0.00	0.00	-63.7
6604.2	0.00	0.00	6500.0	214.5	981.0	1.00	180.00	-74.1
11810.7	0.00	0.00	11706.5	214.5	981.0	0.00	0.00	-74.1
12560.7	90.00	179.65	12184.0	-263.0	983.9	12.00	179.65	399.0
19507.7	90.00	179.65	12184.0	-7209.8	1026.5	0.00	0.00	7282.5









DELAWARE BASIN EAST

ZIA HILLS UNIT AREA
ZIA HILLS UNIT 2632 PROJECT
_ZIA HILLS UNIT 2632 WC 711H

OWB
PWP0

Anticollision Report

18 July, 2024

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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	19,507.3	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
RED HILLS WEST						
SD WE 24 FEDERAL P23 1H - OWB - AWP	8,837.7	8,866.0	942.3	877.3	14.496	CC, ES, SF
STATE LINE OFFSETS						
APOLLO 7 #2H - OWB - AWP	19,507.7	11,878.5	738.6	629.0	6.742	CC, ES, SF
APOLLO 7 #4H - OWB - AWP	19,507.7	11,849.0	547.2	459.5	6.240	CC, ES, SF
APOLLO 7 #5H - OWB - AWP	19,507.7	11,979.0	496.6	414.7	6.063	CC, ES, SF
APOLLO 7 #6H - OWB - AWP	19,507.7	11,961.8	890.5	790.9	8.937	CC, ES, SF
ZIA HILLS UNIT 2532 PROJECT						
_ZIA HILLS UNIT 2532 WC 701H - OWB - PWP0	11,800.0	11,761.0	853.9	803.5	16.941	CC
_ZIA HILLS UNIT 2532 WC 701H - OWB - PWP0	19,507.7	19,451.0	856.6	708.9	5.799	ES, SF
_ZIA HILLS UNIT 2632 WC 714H - OWB - PWP0	11,901.1	11,908.8	425.6	369.5	7.574	CC
_ZIA HILLS UNIT 2632 WC 714H - OWB - PWP0	19,507.7	19,680.3	461.6	313.8	3.123	ES, SF
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	120.0	111.4	13.993	CC, ES
_ZIA HILLS UNIT 2632 WC 707H - OWB - PWP0	1,200.0	1,196.8	123.0	113.9	13.497	SF
_ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0	1,100.0	1,100.0	149.7	141.1	17.458	CC, ES
_ZIA HILLS UNIT 2632 WC 708H - OWB - PWP0	1,200.0	1,195.0	153.1	143.9	16.736	SF
_ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0	1,100.0	1,100.0	60.0	51.4	6.996	CC
_ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0	1,200.0	1,201.4	60.5	51.4	6.645	ES
_ZIA HILLS UNIT 2632 WC 709H - OWB - PWP0	19,507.7	19,417.2	856.0	709.8	5.856	SF
_ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0	1,100.0	1,100.0	89.9	81.3	10.481	CC, ES
_ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0	1,200.0	1,197.7	92.8	83.7	10.190	SF
_ZIA HILLS UNIT 2632 WC 712H - OWB - PWP0	1,497.9	1,501.7	24.5	13.7	2.269	Caution - Monitor Closely, CC
_ZIA HILLS UNIT 2632 WC 712H - OWB - PWP0	1,500.0	1,503.8	24.5	13.7	2.267	Caution - Monitor Closely, ES, 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

CC - Min centre to center distance or covergent 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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ZIA HILLS UNIT 2632 PROJECT						
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	4,889.2	4,813.2	917.9	715.2	4.530	CC
WILDER-FEDERAL #26 (P&A) - OWB - AWP	5,100.0	5,000.0	919.2	708.8	4.369	ES, SF

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P23 1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 80-r.5 MWD

Offset Well Error: 3.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
6,700.0	6,595.8	6,802.4	6,727.7	26.5	31.5	81.48	360.9	1,958.9	993.0	935.3	57.66	17.221	
6,800.0	6,695.8	6,881.8	6,806.8	26.5	31.8	81.57	358.5	1,952.7	984.8	926.7	58.12	16.946	
6,900.0	6,795.8	6,961.6	6,886.5	26.6	32.1	81.67	356.2	1,948.1	978.7	920.2	58.52	16.724	
7,000.0	6,895.8	7,041.9	6,966.7	26.6	32.4	81.74	354.4	1,945.1	974.7	915.8	58.88	16.554	
7,100.0	6,995.8	7,128.5	7,053.3	26.7	32.7	81.79	353.3	1,943.4	972.5	913.3	59.21	16.424	
7,200.0	7,095.8	7,227.8	7,152.6	26.7	33.0	81.84	352.2	1,941.9	970.8	911.3	59.53	16.307	
7,300.0	7,195.8	7,330.5	7,255.2	26.7	33.3	81.90	351.0	1,940.3	969.1	909.3	59.87	16.189	
7,400.0	7,295.8	7,435.9	7,360.7	26.8	33.6	81.99	349.2	1,938.2	967.0	906.7	60.21	16.060	
7,500.0	7,395.8	7,516.5	7,441.3	26.8	33.7	82.05	348.0	1,937.0	965.3	905.0	60.35	15.995	
7,515.0	7,410.8	7,528.0	7,452.7	26.8	33.7	82.06	347.9	1,937.0	965.3	904.9	60.37	15.990	
7,600.0	7,495.8	7,610.5	7,535.2	26.8	33.7	82.10	347.1	1,937.3	965.4	905.0	60.38	15.989	
7,700.0	7,595.8	7,713.8	7,638.5	26.9	33.8	82.17	345.9	1,937.4	965.4	904.9	60.50	15.959	
7,800.0	7,695.8	7,817.5	7,742.3	26.9	34.0	82.24	344.8	1,937.2	965.1	904.4	60.65	15.912	
7,900.0	7,795.8	7,921.6	7,846.3	26.9	34.2	82.31	343.6	1,936.6	964.3	903.4	60.89	15.836	
8,000.0	7,895.8	8,025.1	7,949.7	27.0	34.4	82.39	342.1	1,935.5	963.1	902.0	61.15	15.750	
8,100.0	7,995.8	8,127.8	8,052.5	27.0	34.7	82.49	340.2	1,934.2	961.6	900.2	61.43	15.655	
8,200.0	8,095.8	8,229.2	8,153.9	27.0	34.9	82.61	338.0	1,932.8	959.9	898.2	61.70	15.558	
8,300.0	8,195.8	8,330.0	8,254.6	27.1	35.2	82.75	335.5	1,931.2	958.1	896.1	61.97	15.461	
8,400.0	8,295.8	8,431.1	8,355.7	27.1	35.4	82.90	332.7	1,929.6	956.2	893.9	62.24	15.363	
8,500.0	8,395.8	8,533.0	8,457.5	27.2	35.7	83.05	329.9	1,927.9	954.1	891.6	62.50	15.266	
8,600.0	8,495.8	8,626.8	8,551.1	27.2	36.9	82.91	332.1	1,925.7	952.1	888.2	63.96	14.886	
8,700.0	8,595.8	8,777.6	8,696.4	27.2	37.3	80.62	368.6	1,914.0	947.6	882.9	64.69	14.647	
8,800.0	8,695.8	8,847.9	8,759.0	27.3	37.4	78.70	399.2	1,905.2	942.7	877.7	64.96	14.513	
8,837.7	8,733.5	8,866.0	8,774.5	27.3	37.4	78.13	408.3	1,903.1	942.3	877.3	65.00	14.496	CC, ES, SF
8,900.0	8,795.8	8,912.0	8,812.9	27.3	37.5	76.59	433.3	1,898.8	943.8	878.7	65.07	14.503	
9,000.0	8,895.8	8,912.0	8,812.9	27.3	37.5	76.59	433.3	1,898.8	951.6	887.1	64.54	14.744	
9,100.0	8,995.8	8,966.9	8,856.8	27.4	37.7	74.63	466.1	1,896.1	966.0	901.7	64.27	15.031	
9,200.0	9,095.8	9,029.0	8,904.1	27.4	37.9	72.33	506.3	1,897.3	989.4	925.5	63.89	15.486	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 #2H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 164-r.5 MWD

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
19,100.0	12,184.0	11,753.0	11,722.5	72.1	34.0	-51.40	-7,434.0	1,593.5	963.1	875.5	87.56	10.999	
19,200.0	12,184.0	11,792.0	11,755.0	73.0	33.9	-53.60	-7,455.4	1,596.3	899.1	806.9	92.17	9.755	
19,300.0	12,184.0	11,816.0	11,774.1	73.8	33.9	-54.92	-7,469.8	1,597.5	840.3	742.5	97.80	8.592	
19,400.0	12,184.0	11,847.0	11,797.9	74.7	33.9	-56.62	-7,489.6	1,599.0	787.4	684.0	103.37	7.617	
19,507.7	12,184.0	11,878.5	11,820.6	75.7	33.9	-58.31	-7,511.3	1,600.7	738.6	629.0	109.55	6.742	CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 #4H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 103-r.5 MWD

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
18,900.0	12,184.0	11,662.0	11,625.5	70.3	28.7	-15.47	-7,392.6	1,178.9	973.6	910.4	63.17	15.411	
19,000.0	12,184.0	11,662.0	11,625.5	71.2	28.7	-15.47	-7,392.6	1,178.9	894.2	826.8	67.41	13.266	
19,100.0	12,184.0	11,689.0	11,646.6	72.1	28.7	-16.33	-7,409.0	1,181.7	818.0	747.1	70.91	11.536	
19,200.0	12,184.0	11,709.0	11,661.6	73.0	28.7	-16.91	-7,422.3	1,183.0	745.7	670.2	75.53	9.874	
19,300.0	12,184.0	11,755.0	11,694.2	73.8	28.7	-18.03	-7,454.7	1,183.5	676.9	598.0	78.90	8.579	
19,400.0	12,184.0	11,802.0	11,725.2	74.7	28.6	-18.91	-7,490.0	1,181.4	611.8	529.1	82.65	7.403	
19,507.7	12,184.0	11,849.0	11,753.0	75.7	28.6	-19.60	-7,527.7	1,177.7	547.2	459.5	87.69	6.240	CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 #5H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 25-r.5 MWD

Offset Well Error: 3.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
18,900.0	12,184.0	11,837.0	11,790.3	70.3	28.9	40.20	-7,410.4	706.0	947.9	890.2	57.76	16.411	
19,000.0	12,184.0	11,859.7	11,810.5	71.2	28.9	41.58	-7,420.5	708.0	863.4	803.4	60.04	14.380	
19,100.0	12,184.0	11,877.7	11,826.1	72.1	28.9	42.71	-7,429.5	709.4	782.0	719.1	62.96	12.421	
19,200.0	12,184.0	11,894.5	11,840.2	73.0	28.9	43.80	-7,438.6	710.7	704.2	637.6	66.57	10.578	
19,300.0	12,184.0	11,922.1	11,862.8	73.8	28.9	45.70	-7,454.2	712.2	630.4	559.8	70.62	8.927	
19,400.0	12,184.0	11,952.2	11,886.6	74.7	28.9	47.91	-7,472.6	713.3	562.0	486.5	75.48	7.446	
19,507.7	12,184.0	11,979.0	11,906.4	75.7	28.9	49.91	-7,490.7	713.9	496.6	414.7	81.91	6.063	CC, ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
19,300.0	12,184.0	11,931.0	11,900.1	73.8	23.2	71.58	-7,461.3	214.4	970.4	878.7	91.71	10.581	
19,400.0	12,184.0	11,940.7	11,907.7	74.7	23.2	72.06	-7,467.3	214.9	927.6	831.9	95.66	9.697	
19,507.7	12,184.0	11,961.8	11,923.0	75.7	23.2	73.02	-7,481.8	215.7	890.5	790.9	99.64	8.937	CC, ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
5,300.0	5,207.0	5,272.2	5,217.0	21.5	19.5	10.91	212.4	1,834.9	998.7	958.8	39.87	25.046	
5,329.9	5,236.2	5,301.4	5,246.2	21.6	19.5	10.98	212.4	1,834.9	992.2	952.2	40.02	24.789	
5,400.0	5,304.6	5,369.9	5,314.6	21.9	19.5	11.12	212.4	1,834.9	977.4	937.0	40.39	24.200	
5,500.0	5,402.6	5,467.8	5,412.6	22.4	19.6	11.31	212.4	1,834.9	957.8	916.8	40.91	23.409	
5,600.0	5,500.9	5,566.2	5,510.9	22.9	19.6	11.49	212.4	1,834.9	939.8	898.4	41.43	22.682	
5,700.0	5,599.5	5,664.8	5,609.5	23.3	19.7	11.66	212.4	1,834.9	923.6	881.6	41.95	22.018	
5,800.0	5,698.4	5,763.7	5,708.4	23.7	19.7	11.82	212.4	1,834.9	909.0	866.6	42.45	21.414	
5,900.0	5,797.6	5,862.8	5,807.6	24.2	19.8	11.97	212.4	1,834.9	896.2	853.2	42.94	20.870	
6,000.0	5,896.9	5,962.1	5,906.9	24.6	19.8	12.10	212.4	1,834.9	885.0	841.6	43.42	20.383	
6,100.0	5,996.4	6,061.7	6,006.4	25.0	19.8	12.21	212.4	1,834.9	875.6	831.7	43.89	19.951	
6,200.0	6,096.1	6,161.4	6,106.1	25.3	19.9	12.30	212.4	1,834.9	867.8	823.5	44.33	19.575	
6,300.0	6,195.9	6,261.2	6,205.9	25.7	19.9	12.38	212.4	1,834.9	861.8	817.0	44.76	19.254	
6,400.0	6,295.8	6,361.1	6,305.8	26.0	20.0	12.43	212.4	1,834.9	857.5	812.3	45.16	18.987	
6,500.0	6,395.8	6,461.0	6,405.8	26.3	20.0	12.46	212.4	1,834.9	854.8	809.3	45.52	18.779	
6,604.2	6,500.0	6,565.2	6,510.0	26.5	20.1	90.14	212.4	1,834.9	853.9	808.2	45.74	18.668	
6,700.0	6,595.8	6,661.0	6,605.8	26.5	20.1	90.14	212.4	1,834.9	853.9	808.1	45.82	18.638	
6,800.0	6,695.8	6,761.0	6,705.8	26.5	20.2	90.14	212.4	1,834.9	853.9	808.0	45.90	18.605	
6,900.0	6,795.8	6,861.0	6,805.8	26.6	20.2	90.14	212.4	1,834.9	853.9	807.9	45.98	18.572	
7,000.0	6,895.8	6,961.0	6,905.8	26.6	20.3	90.14	212.4	1,834.9	853.9	807.9	46.06	18.539	
7,100.0	6,995.8	7,061.0	7,005.8	26.7	20.3	90.14	212.4	1,834.9	853.9	807.8	46.14	18.507	
7,200.0	7,095.8	7,161.0	7,105.8	26.7	20.4	90.14	212.4	1,834.9	853.9	807.7	46.22	18.474	
7,300.0	7,195.8	7,261.0	7,205.8	26.7	20.4	90.14	212.4	1,834.9	853.9	807.6	46.31	18.441	
7,400.0	7,295.8	7,361.0	7,305.8	26.8	20.5	90.14	212.4	1,834.9	853.9	807.5	46.39	18.408	
7,500.0	7,395.8	7,461.0	7,405.8	26.8	20.5	90.14	212.4	1,834.9	853.9	807.4	46.47	18.375	
7,600.0	7,495.8	7,561.0	7,505.8	26.8	20.6	90.14	212.4	1,834.9	853.9	807.4	46.56	18.342	
7,700.0	7,595.8	7,661.0	7,605.8	26.9	20.6	90.14	212.4	1,834.9	853.9	807.3	46.64	18.309	
7,800.0	7,695.8	7,761.0	7,705.8	26.9	20.7	90.14	212.4	1,834.9	853.9	807.2	46.72	18.276	
7,900.0	7,795.8	7,861.0	7,805.8	26.9	20.7	90.14	212.4	1,834.9	853.9	807.1	46.81	18.242	
8,000.0	7,895.8	7,961.0	7,905.8	27.0	20.8	90.14	212.4	1,834.9	853.9	807.0	46.89	18.209	
8,100.0	7,995.8	8,061.0	8,005.8	27.0	20.8	90.14	212.4	1,834.9	853.9	806.9	46.98	18.176	
8,200.0	8,095.8	8,161.0	8,105.8	27.0	20.9	90.14	212.4	1,834.9	853.9	806.8	47.07	18.143	
8,300.0	8,195.8	8,261.0	8,205.8	27.1	21.0	90.14	212.4	1,834.9	853.9	806.8	47.15	18.109	
8,400.0	8,295.8	8,361.0	8,305.8	27.1	21.0	90.14	212.4	1,834.9	853.9	806.7	47.24	18.076	
8,500.0	8,395.8	8,461.0	8,405.8	27.2	21.1	90.14	212.4	1,834.9	853.9	806.6	47.33	18.043	
8,600.0	8,495.8	8,561.0	8,505.8	27.2	21.1	90.14	212.4	1,834.9	853.9	806.5	47.41	18.009	
8,700.0	8,595.8	8,661.0	8,605.8	27.2	21.2	90.14	212.4	1,834.9	853.9	806.4	47.50	17.976	
8,800.0	8,695.8	8,761.0	8,705.8	27.3	21.2	90.14	212.4	1,834.9	853.9	806.3	47.59	17.943	
8,900.0	8,795.8	8,861.0	8,805.8	27.3	21.3	90.14	212.4	1,834.9	853.9	806.2	47.68	17.909	
9,000.0	8,895.8	8,961.0	8,905.8	27.3	21.3	90.14	212.4	1,834.9	853.9	806.1	47.77	17.876	
9,100.0	8,995.8	9,061.0	9,005.8	27.4	21.4	90.14	212.4	1,834.9	853.9	806.1	47.86	17.842	
9,200.0	9,095.8	9,161.0	9,105.8	27.4	21.4	90.14	212.4	1,834.9	853.9	806.0	47.95	17.809	
9,300.0	9,195.8	9,261.0	9,205.8	27.5	21.5	90.14	212.4	1,834.9	853.9	805.9	48.04	17.775	
9,400.0	9,295.8	9,361.0	9,305.8	27.5	21.5	90.14	212.4	1,834.9	853.9	805.8	48.13	17.742	
9,500.0	9,395.8	9,461.0	9,405.8	27.5	21.6	90.14	212.4	1,834.9	853.9	805.7	48.22	17.708	
9,600.0	9,495.8	9,561.0	9,505.8	27.6	21.6	90.14	212.4	1,834.9	853.9	805.6	48.31	17.675	
9,700.0	9,595.8	9,661.0	9,605.8	27.6	21.7	90.14	212.4	1,834.9	853.9	805.5	48.40	17.641	
9,800.0	9,695.8	9,761.0	9,705.8	27.7	21.8	90.14	212.4	1,834.9	853.9	805.4	48.50	17.608	
9,900.0	9,795.8	9,861.0	9,805.8	27.7	21.8	90.14	212.4	1,834.9	853.9	805.3	48.59	17.574	
10,000.0	9,895.8	9,961.0	9,905.8	27.7	21.9	90.14	212.4	1,834.9	853.9	805.2	48.68	17.540	
10,100.0	9,995.8	10,061.0	10,005.8	27.8	21.9	90.14	212.4	1,834.9	853.9	805.1	48.78	17.507	
10,200.0	10,095.8	10,161.0	10,105.8	27.8	22.0	90.14	212.4	1,834.9	853.9	805.0	48.87	17.473	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
10,300.0	10,195.8	10,261.0	10,205.8	27.9	22.0	90.14	212.4	1,834.9	853.9	805.0	48.96	17.440	
10,400.0	10,295.8	10,361.0	10,305.8	27.9	22.1	90.14	212.4	1,834.9	853.9	804.9	49.06	17.406	
10,500.0	10,395.8	10,461.0	10,405.8	27.9	22.1	90.14	212.4	1,834.9	853.9	804.8	49.15	17.373	
10,600.0	10,495.8	10,561.0	10,505.8	28.0	22.2	90.14	212.4	1,834.9	853.9	804.7	49.25	17.339	
10,700.0	10,595.8	10,661.0	10,605.8	28.0	22.3	90.14	212.4	1,834.9	853.9	804.6	49.34	17.306	
10,800.0	10,695.8	10,761.0	10,705.8	28.1	22.3	90.14	212.4	1,834.9	853.9	804.5	49.44	17.272	
10,900.0	10,795.8	10,861.0	10,805.8	28.1	22.4	90.14	212.4	1,834.9	853.9	804.4	49.54	17.239	
11,000.0	10,895.8	10,961.0	10,905.8	28.1	22.4	90.14	212.4	1,834.9	853.9	804.3	49.63	17.205	
11,100.0	10,995.8	11,061.0	11,005.8	28.2	22.5	90.14	212.4	1,834.9	853.9	804.2	49.73	17.172	
11,200.0	11,095.8	11,161.0	11,105.8	28.2	22.5	90.14	212.4	1,834.9	853.9	804.1	49.83	17.138	
11,300.0	11,195.8	11,261.0	11,205.8	28.3	22.6	90.14	212.4	1,834.9	853.9	804.0	49.92	17.105	
11,400.0	11,295.8	11,361.0	11,305.8	28.3	22.7	90.14	212.4	1,834.9	853.9	803.9	50.02	17.071	
11,500.0	11,395.8	11,461.0	11,405.8	28.4	22.7	90.14	212.4	1,834.9	853.9	803.8	50.12	17.038	
11,600.0	11,495.8	11,561.0	11,505.8	28.4	22.8	90.14	212.4	1,834.9	853.9	803.7	50.22	17.004	
11,700.0	11,595.8	11,661.0	11,605.8	28.4	22.8	90.14	212.4	1,834.9	853.9	803.6	50.32	16.971	
11,800.0	11,695.8	11,761.0	11,705.8	28.5	22.9	90.14	212.4	1,834.9	853.9	803.5	50.41	16.941 CC	
11,810.7	11,706.5	11,771.6	11,716.3	28.5	22.9	90.15	212.3	1,834.9	853.9	803.5	50.41	16.939	
11,825.0	11,720.8	11,785.6	11,730.4	28.5	22.9	-89.48	211.8	1,834.9	853.9	803.5	50.41	16.940	
11,850.0	11,745.7	11,810.2	11,754.9	28.5	22.8	-89.45	209.9	1,834.9	853.9	803.5	50.40	16.942	
11,875.0	11,770.6	11,834.7	11,779.2	28.4	22.8	-89.42	206.8	1,834.9	853.9	803.5	50.39	16.946	
11,900.0	11,795.3	11,859.3	11,803.4	28.4	22.8	-89.39	202.5	1,835.0	853.9	803.6	50.38	16.950	
11,925.0	11,819.7	11,883.8	11,827.2	28.4	22.7	-89.36	196.9	1,835.0	853.9	803.6	50.37	16.954	
11,950.0	11,843.8	11,908.2	11,850.7	28.4	22.7	-89.33	190.1	1,835.1	853.9	803.6	50.36	16.958	
11,975.0	11,867.6	11,932.7	11,873.8	28.3	22.7	-89.31	182.1	1,835.1	854.0	803.6	50.34	16.963	
12,000.0	11,890.9	11,957.1	11,896.5	28.3	22.6	-89.28	172.9	1,835.2	854.0	803.6	50.33	16.967	
12,025.0	11,913.7	11,981.6	11,918.7	28.3	22.6	-89.26	162.7	1,835.2	854.0	803.7	50.32	16.972	
12,050.0	11,935.9	12,006.0	11,940.2	28.3	22.6	-89.24	151.3	1,835.3	854.0	803.7	50.30	16.977	
12,075.0	11,957.5	12,030.4	11,961.2	28.2	22.5	-89.23	138.8	1,835.4	854.0	803.7	50.29	16.981	
12,100.0	11,978.4	12,054.8	11,981.5	28.2	22.5	-89.21	125.2	1,835.5	854.0	803.7	50.28	16.986	
12,125.0	11,998.6	12,079.2	12,001.1	28.2	22.5	-89.20	110.7	1,835.6	854.0	803.7	50.27	16.990	
12,150.0	12,017.9	12,103.5	12,019.9	28.2	22.5	-89.19	95.2	1,835.7	854.0	803.8	50.26	16.993	
12,175.0	12,036.5	12,127.9	12,037.8	28.2	22.4	-89.18	78.7	1,835.8	854.0	803.8	50.25	16.996	
12,200.0	12,054.1	12,152.3	12,054.9	28.2	22.4	-89.17	61.4	1,835.9	854.0	803.8	50.24	16.998	
12,225.0	12,070.7	12,176.6	12,071.1	28.1	22.4	-89.17	43.2	1,836.0	854.0	803.8	50.24	16.999	
12,250.0	12,086.4	12,201.0	12,086.4	28.1	22.4	-89.17	24.2	1,836.1	854.0	803.8	50.24	16.999	
12,275.0	12,101.0	12,225.3	12,100.6	28.1	22.4	-89.17	4.4	1,836.3	854.0	803.8	50.24	16.998	
12,300.0	12,114.5	12,250.0	12,114.0	28.1	22.4	-89.17	-16.3	1,836.4	854.1	803.8	50.25	16.996	
12,301.1	12,115.1	12,250.8	12,114.4	28.1	22.4	-89.17	-16.9	1,836.4	854.1	803.8	50.25	16.996	
12,325.0	12,127.0	12,274.1	12,126.0	28.1	22.3	-89.17	-37.1	1,836.5	854.1	803.8	50.26	16.993	
12,350.0	12,138.2	12,298.4	12,137.1	28.1	22.3	-89.18	-58.8	1,836.7	854.1	803.8	50.28	16.988	
12,375.0	12,148.3	12,322.8	12,147.1	28.1	22.3	-89.19	-81.0	1,836.8	854.1	803.8	50.29	16.982	
12,400.0	12,157.2	12,347.2	12,155.9	28.1	22.4	-89.20	-103.8	1,837.0	854.1	803.8	50.32	16.974	
12,425.0	12,164.8	12,371.6	12,163.5	28.1	22.4	-89.22	-126.9	1,837.1	854.1	803.7	50.35	16.965	
12,450.0	12,171.2	12,396.0	12,170.0	28.2	22.4	-89.23	-150.5	1,837.3	854.1	803.7	50.38	16.954	
12,475.0	12,176.3	12,420.4	12,175.3	28.2	22.4	-89.25	-174.3	1,837.4	854.1	803.7	50.41	16.941	
12,500.0	12,180.1	12,444.8	12,179.3	28.2	22.4	-89.27	-198.4	1,837.6	854.1	803.6	50.46	16.927	
12,525.0	12,182.6	12,469.3	12,182.1	28.2	22.4	-89.29	-222.7	1,837.7	854.1	803.6	50.50	16.912	
12,550.0	12,183.8	12,493.7	12,183.6	28.2	22.5	-89.31	-247.1	1,837.9	854.1	803.6	50.55	16.895	
12,560.7	12,184.0	12,504.2	12,183.9	28.3	22.5	-89.32	-257.6	1,838.0	854.1	803.5	50.58	16.887	
12,600.0	12,184.0	12,543.4	12,184.0	28.3	22.6	-89.33	-296.7	1,838.2	854.1	803.4	50.68	16.854	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,700.0	12,184.0	12,643.4	12,184.0	28.5	22.7	-89.33	-396.7	1,838.9	854.2	803.2	50.99	16.751	
12,800.0	12,184.0	12,743.4	12,184.0	28.6	23.0	-89.33	-496.7	1,839.5	854.2	802.8	51.37	16.627	
12,900.0	12,184.0	12,843.4	12,184.0	28.9	23.2	-89.33	-596.7	1,840.2	854.2	802.4	51.82	16.484	
13,000.0	12,184.0	12,943.4	12,184.0	29.1	23.5	-89.33	-696.7	1,840.8	854.3	801.9	52.34	16.322	
13,100.0	12,184.0	13,043.4	12,184.0	29.4	23.8	-89.33	-796.7	1,841.5	854.3	801.4	52.92	16.145	
13,200.0	12,184.0	13,143.4	12,184.0	29.7	24.2	-89.33	-896.7	1,842.1	854.3	800.8	53.56	15.952	
13,300.0	12,184.0	13,243.4	12,184.0	30.0	24.6	-89.33	-996.7	1,842.8	854.4	800.1	54.26	15.747	
13,400.0	12,184.0	13,343.4	12,184.0	30.4	25.0	-89.33	-1,096.7	1,843.4	854.4	799.4	55.01	15.531	
13,500.0	12,184.0	13,443.4	12,184.0	30.8	25.5	-89.33	-1,196.7	1,844.1	854.4	798.6	55.83	15.305	
13,600.0	12,184.0	13,543.4	12,184.0	31.2	26.0	-89.33	-1,296.7	1,844.7	854.5	797.8	56.69	15.072	
13,700.0	12,184.0	13,643.4	12,184.0	31.6	26.5	-89.33	-1,396.7	1,845.3	854.5	796.9	57.61	14.834	
13,800.0	12,184.0	13,743.4	12,184.0	32.1	27.0	-89.33	-1,496.7	1,846.0	854.5	796.0	58.57	14.590	
13,900.0	12,184.0	13,843.4	12,184.0	32.6	27.5	-89.33	-1,596.7	1,846.6	854.6	795.0	59.58	14.344	
14,000.0	12,184.0	13,943.4	12,184.0	33.1	28.1	-89.33	-1,696.7	1,847.3	854.6	794.0	60.63	14.096	
14,100.0	12,184.0	14,043.4	12,184.0	33.6	28.7	-89.33	-1,796.7	1,847.9	854.7	792.9	61.72	13.847	
14,200.0	12,184.0	14,143.4	12,184.0	34.1	29.3	-89.33	-1,896.7	1,848.6	854.7	791.8	62.85	13.598	
14,300.0	12,184.0	14,243.4	12,184.0	34.7	30.0	-89.33	-1,996.7	1,849.2	854.7	790.7	64.02	13.351	
14,400.0	12,184.0	14,343.4	12,184.0	35.2	30.6	-89.33	-2,096.7	1,849.9	854.8	789.5	65.22	13.105	
14,500.0	12,184.0	14,443.4	12,184.0	35.8	31.3	-89.33	-2,196.7	1,850.5	854.8	788.3	66.46	12.862	
14,600.0	12,184.0	14,543.4	12,184.0	36.4	32.0	-89.33	-2,296.7	1,851.2	854.8	787.1	67.73	12.622	
14,700.0	12,184.0	14,643.4	12,184.0	37.0	32.7	-89.33	-2,396.7	1,851.8	854.9	785.8	69.02	12.386	
14,800.0	12,184.0	14,743.4	12,184.0	37.7	33.4	-89.33	-2,496.7	1,852.5	854.9	784.6	70.34	12.153	
14,900.0	12,184.0	14,843.4	12,184.0	38.3	34.1	-89.33	-2,596.7	1,853.1	854.9	783.2	71.69	11.925	
15,000.0	12,184.0	14,943.4	12,184.0	39.0	34.8	-89.33	-2,696.7	1,853.8	855.0	781.9	73.07	11.701	
15,100.0	12,184.0	15,043.4	12,184.0	39.6	35.6	-89.33	-2,796.6	1,854.4	855.0	780.5	74.47	11.482	
15,200.0	12,184.0	15,143.4	12,184.0	40.3	36.3	-89.33	-2,896.6	1,855.1	855.0	779.2	75.89	11.268	
15,300.0	12,184.0	15,243.4	12,184.0	41.0	37.1	-89.33	-2,996.6	1,855.7	855.1	777.8	77.33	11.058	
15,400.0	12,184.0	15,343.4	12,184.0	41.7	37.9	-89.33	-3,096.6	1,856.4	855.1	776.3	78.79	10.854	
15,500.0	12,184.0	15,443.4	12,184.0	42.4	38.7	-89.33	-3,196.6	1,857.0	855.2	774.9	80.26	10.654	
15,600.0	12,184.0	15,543.4	12,184.0	43.2	39.4	-89.33	-3,296.6	1,857.7	855.2	773.4	81.76	10.460	
15,700.0	12,184.0	15,643.4	12,184.0	43.9	40.2	-89.33	-3,396.6	1,858.3	855.2	772.0	83.27	10.270	
15,800.0	12,184.0	15,743.4	12,184.0	44.6	41.1	-89.33	-3,496.6	1,859.0	855.3	770.5	84.80	10.086	
15,900.0	12,184.0	15,843.4	12,184.0	45.4	41.9	-89.33	-3,596.6	1,859.6	855.3	769.0	86.34	9.906	
16,000.0	12,184.0	15,943.4	12,184.0	46.1	42.7	-89.33	-3,696.6	1,860.3	855.3	767.4	87.90	9.731	
16,100.0	12,184.0	16,043.4	12,184.0	46.9	43.5	-89.33	-3,796.6	1,860.9	855.4	765.9	89.47	9.560	
16,200.0	12,184.0	16,143.4	12,184.0	47.7	44.3	-89.33	-3,896.6	1,861.6	855.4	764.3	91.05	9.394	
16,300.0	12,184.0	16,243.4	12,184.0	48.4	45.2	-89.33	-3,996.6	1,862.2	855.4	762.8	92.65	9.233	
16,400.0	12,184.0	16,343.4	12,184.0	49.2	46.0	-89.33	-4,096.6	1,862.9	855.5	761.2	94.26	9.076	
16,500.0	12,184.0	16,443.4	12,184.0	50.0	46.9	-89.33	-4,196.6	1,863.5	855.5	759.6	95.87	8.923	
16,600.0	12,184.0	16,543.4	12,184.0	50.8	47.7	-89.33	-4,296.6	1,864.2	855.5	758.0	97.50	8.775	
16,700.0	12,184.0	16,643.4	12,184.0	51.6	48.6	-89.33	-4,396.6	1,864.8	855.6	756.4	99.14	8.630	
16,800.0	12,184.0	16,743.4	12,184.0	52.4	49.4	-89.33	-4,496.6	1,865.5	855.6	754.8	100.79	8.489	
16,900.0	12,184.0	16,843.4	12,184.0	53.2	50.3	-89.33	-4,596.6	1,866.1	855.7	753.2	102.44	8.353	
17,000.0	12,184.0	16,943.4	12,184.0	54.1	51.1	-89.33	-4,696.6	1,866.8	855.7	751.6	104.10	8.219	
17,100.0	12,184.0	17,043.4	12,184.0	54.9	52.0	-89.33	-4,796.6	1,867.4	855.7	749.9	105.78	8.090	
17,200.0	12,184.0	17,143.4	12,184.0	55.7	52.9	-89.33	-4,896.6	1,868.1	855.8	748.3	107.46	7.964	
17,300.0	12,184.0	17,243.4	12,184.0	56.5	53.8	-89.33	-4,996.6	1,868.7	855.8	746.6	109.14	7.841	
17,400.0	12,184.0	17,343.4	12,184.0	57.4	54.6	-89.33	-5,096.6	1,869.3	855.8	745.0	110.84	7.722	
17,500.0	12,184.0	17,443.4	12,184.0	58.2	55.5	-89.33	-5,196.6	1,870.0	855.9	743.3	112.54	7.605	
17,600.0	12,184.0	17,543.4	12,184.0	59.1	56.4	-89.33	-5,296.6	1,870.6	855.9	741.7	114.24	7.492	
17,700.0	12,184.0	17,643.4	12,184.0	59.9	57.3	-89.33	-5,396.6	1,871.3	855.9	740.0	115.96	7.382	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,800.0	12,184.0	17,743.4	12,184.0	60.8	58.2	-89.33	-5,496.6	1,871.9	856.0	738.3	117.67	7.274	
17,900.0	12,184.0	17,843.4	12,184.0	61.6	59.1	-89.33	-5,596.6	1,872.6	856.0	736.6	119.40	7.169	
18,000.0	12,184.0	17,943.4	12,184.0	62.5	60.0	-89.33	-5,696.6	1,873.2	856.0	734.9	121.13	7.067	
18,100.0	12,184.0	18,043.4	12,184.0	63.3	60.9	-89.33	-5,796.6	1,873.9	856.1	733.2	122.86	6.968	
18,200.0	12,184.0	18,143.4	12,184.0	64.2	61.8	-89.33	-5,896.6	1,874.5	856.1	731.5	124.60	6.871	
18,300.0	12,184.0	18,243.4	12,184.0	65.1	62.7	-89.33	-5,996.6	1,875.2	856.1	729.8	126.35	6.776	
18,400.0	12,184.0	18,343.4	12,184.0	65.9	63.6	-89.33	-6,096.6	1,875.8	856.2	728.1	128.09	6.684	
18,500.0	12,184.0	18,443.4	12,184.0	66.8	64.5	-89.33	-6,196.6	1,876.5	856.2	726.4	129.85	6.594	
18,600.0	12,184.0	18,543.4	12,184.0	67.7	65.4	-89.33	-6,296.6	1,877.1	856.3	724.7	131.60	6.506	
18,700.0	12,184.0	18,643.4	12,184.0	68.5	66.3	-89.33	-6,396.6	1,877.8	856.3	722.9	133.36	6.421	
18,800.0	12,184.0	18,743.4	12,184.0	69.4	67.2	-89.33	-6,496.6	1,878.4	856.3	721.2	135.13	6.337	
18,900.0	12,184.0	18,843.4	12,184.0	70.3	68.1	-89.33	-6,596.6	1,879.1	856.4	719.5	136.90	6.256	
19,000.0	12,184.0	18,943.4	12,184.0	71.2	69.0	-89.33	-6,696.6	1,879.7	856.4	717.7	138.67	6.176	
19,100.0	12,184.0	19,043.4	12,184.0	72.1	69.9	-89.33	-6,796.6	1,880.4	856.4	716.0	140.44	6.098	
19,200.0	12,184.0	19,143.4	12,184.0	73.0	70.8	-89.33	-6,896.6	1,881.0	856.5	714.2	142.22	6.022	
19,300.0	12,184.0	19,243.4	12,184.0	73.8	71.8	-89.33	-6,996.6	1,881.7	856.5	712.5	144.00	5.948	
19,400.0	12,184.0	19,343.4	12,184.0	74.7	72.7	-89.33	-7,096.6	1,882.3	856.5	710.8	145.79	5.875	
19,507.7	12,184.0	19,451.0	12,184.0	75.7	73.7	-89.33	-7,204.2	1,883.0	856.6	708.9	147.71	5.799	ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 2532 PROJECT - _ZIA HILLS UNIT 2632 WC 714H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
4,600.0	4,524.2	4,823.3	4,743.2	18.2	19.6	12.55	161.4	1,652.0	988.6	951.9	36.68	26.956	
4,700.0	4,621.8	4,914.2	4,831.9	18.7	20.0	12.58	165.1	1,632.8	946.9	909.4	37.51	25.241	
4,800.0	4,719.3	5,005.1	4,920.7	19.1	20.5	12.62	168.8	1,613.6	905.1	866.8	38.35	23.600	
4,900.0	4,816.9	5,096.0	5,009.4	19.6	20.9	12.66	172.5	1,594.3	863.4	824.2	39.20	22.028	
5,000.0	4,914.4	5,186.8	5,098.2	20.1	21.3	12.71	176.2	1,575.1	821.7	781.6	40.04	20.523	
5,100.0	5,011.9	5,277.7	5,186.9	20.5	21.7	12.76	179.9	1,555.9	780.0	739.1	40.88	19.078	
5,200.0	5,109.5	5,367.4	5,274.4	21.0	22.1	12.82	183.6	1,536.9	738.2	696.5	41.72	17.695	
5,300.0	5,207.0	5,448.6	5,353.9	21.5	22.5	12.89	186.8	1,520.4	697.3	654.7	42.60	16.367	
5,329.9	5,236.2	5,473.1	5,377.9	21.6	22.6	12.91	187.7	1,515.6	685.3	642.4	42.86	15.988	
5,400.0	5,304.6	5,531.0	5,434.8	21.9	22.9	12.91	189.8	1,504.8	658.0	614.5	43.48	15.134	
5,500.0	5,402.6	5,614.9	5,517.3	22.4	23.3	12.91	192.6	1,490.1	621.6	577.2	44.36	14.011	
5,600.0	5,500.9	5,700.0	5,601.3	22.9	23.7	12.92	195.2	1,476.3	588.1	542.8	45.24	12.999	
5,700.0	5,599.5	5,787.0	5,687.3	23.3	24.0	12.94	197.7	1,463.6	557.6	511.5	46.10	12.096	
5,800.0	5,698.4	5,874.9	5,774.4	23.7	24.4	12.96	199.9	1,452.0	530.2	483.2	46.94	11.294	
5,900.0	5,797.6	5,964.0	5,862.9	24.2	24.8	12.98	201.9	1,441.6	505.9	458.1	47.77	10.590	
6,000.0	5,896.9	6,054.1	5,952.5	24.6	25.1	13.01	203.7	1,432.4	484.7	436.1	48.57	9.980	
6,100.0	5,996.4	6,145.0	6,043.1	25.0	25.5	13.03	205.2	1,424.6	466.7	417.4	49.33	9.461	
6,200.0	6,096.1	6,236.7	6,134.5	25.3	25.8	13.06	206.4	1,418.2	452.0	401.9	50.07	9.028	
6,300.0	6,195.9	6,329.0	6,226.6	25.7	26.2	13.08	207.4	1,413.1	440.5	389.8	50.75	8.679	
6,400.0	6,295.8	6,421.7	6,319.3	26.0	26.5	13.10	208.1	1,409.5	432.3	380.9	51.38	8.413	
6,500.0	6,395.8	6,514.7	6,412.2	26.3	26.7	13.11	208.5	1,407.4	427.4	375.4	51.93	8.230	
6,604.2	6,500.0	6,612.5	6,510.0	26.5	26.8	90.79	208.6	1,406.7	425.7	373.5	52.22	8.153	
6,700.0	6,595.8	6,708.3	6,605.8	26.5	26.9	90.79	208.6	1,406.7	425.7	373.5	52.28	8.143	
6,800.0	6,695.8	6,808.3	6,705.8	26.5	26.9	90.79	208.6	1,406.7	425.7	373.4	52.35	8.133	
6,900.0	6,795.8	6,908.3	6,805.8	26.6	26.9	90.79	208.6	1,406.7	425.7	373.3	52.41	8.123	
7,000.0	6,895.8	7,008.3	6,905.8	26.6	27.0	90.79	208.6	1,406.7	425.7	373.3	52.48	8.112	
7,100.0	6,995.8	7,108.3	7,005.8	26.7	27.0	90.79	208.6	1,406.7	425.7	373.2	52.55	8.102	
7,200.0	7,095.8	7,208.3	7,105.8	26.7	27.0	90.79	208.6	1,406.7	425.7	373.1	52.61	8.092	
7,300.0	7,195.8	7,308.3	7,205.8	26.7	27.1	90.79	208.6	1,406.7	425.7	373.0	52.68	8.081	
7,400.0	7,295.8	7,408.3	7,305.8	26.8	27.1	90.79	208.6	1,406.7	425.7	373.0	52.75	8.071	
7,500.0	7,395.8	7,508.3	7,405.8	26.8	27.1	90.79	208.6	1,406.7	425.7	372.9	52.82	8.060	
7,600.0	7,495.8	7,608.3	7,505.8	26.8	27.2	90.79	208.6	1,406.7	425.7	372.8	52.89	8.049	
7,700.0	7,595.8	7,708.3	7,605.8	26.9	27.2	90.79	208.6	1,406.7	425.7	372.8	52.96	8.039	
7,800.0	7,695.8	7,808.3	7,705.8	26.9	27.2	90.79	208.6	1,406.7	425.7	372.7	53.03	8.028	
7,900.0	7,795.8	7,908.3	7,805.8	26.9	27.3	90.79	208.6	1,406.7	425.7	372.6	53.10	8.017	
8,000.0	7,895.8	8,008.3	7,905.8	27.0	27.3	90.79	208.6	1,406.7	425.7	372.6	53.17	8.007	
8,100.0	7,995.8	8,108.3	8,005.8	27.0	27.3	90.79	208.6	1,406.7	425.7	372.5	53.24	7.996	
8,200.0	8,095.8	8,208.3	8,105.8	27.0	27.4	90.79	208.6	1,406.7	425.7	372.4	53.32	7.985	
8,300.0	8,195.8	8,308.3	8,205.8	27.1	27.4	90.79	208.6	1,406.7	425.7	372.3	53.39	7.974	
8,400.0	8,295.8	8,408.3	8,305.8	27.1	27.5	90.79	208.6	1,406.7	425.7	372.3	53.46	7.963	
8,500.0	8,395.8	8,508.3	8,405.8	27.2	27.5	90.79	208.6	1,406.7	425.7	372.2	53.53	7.953	
8,600.0	8,495.8	8,608.3	8,505.8	27.2	27.5	90.79	208.6	1,406.7	425.7	372.1	53.61	7.942	
8,700.0	8,595.8	8,708.3	8,605.8	27.2	27.6	90.79	208.6	1,406.7	425.7	372.1	53.68	7.931	
8,800.0	8,695.8	8,808.3	8,705.8	27.3	27.6	90.79	208.6	1,406.7	425.7	372.0	53.76	7.920	
8,900.0	8,795.8	8,908.3	8,805.8	27.3	27.6	90.79	208.6	1,406.7	425.7	371.9	53.83	7.909	
9,000.0	8,895.8	9,008.3	8,905.8	27.3	27.7	90.79	208.6	1,406.7	425.7	371.8	53.90	7.898	
9,100.0	8,995.8	9,108.3	9,005.8	27.4	27.7	90.79	208.6	1,406.7	425.7	371.8	53.98	7.887	
9,200.0	9,095.8	9,208.3	9,105.8	27.4	27.8	90.79	208.6	1,406.7	425.7	371.7	54.06	7.876	
9,300.0	9,195.8	9,308.3	9,205.8	27.5	27.8	90.79	208.6	1,406.7	425.7	371.6	54.13	7.865	
9,400.0	9,295.8	9,408.3	9,305.8	27.5	27.8	90.79	208.6	1,406.7	425.7	371.5	54.21	7.854	
9,500.0	9,395.8	9,508.3	9,405.8	27.5	27.9	90.79	208.6	1,406.7	425.7	371.4	54.29	7.842	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 2532 PROJECT - _ZIA HILLS UNIT 2632 WC 714H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,600.0	9,495.8	9,608.3	9,505.8	27.6	27.9	90.79	208.6	1,406.7	425.7	371.4	54.36	7.831	
9,700.0	9,595.8	9,708.3	9,605.8	27.6	27.9	90.79	208.6	1,406.7	425.7	371.3	54.44	7.820	
9,800.0	9,695.8	9,808.3	9,705.8	27.7	28.0	90.79	208.6	1,406.7	425.7	371.2	54.52	7.809	
9,900.0	9,795.8	9,908.3	9,805.8	27.7	28.0	90.79	208.6	1,406.7	425.7	371.1	54.60	7.798	
10,000.0	9,895.8	10,008.3	9,905.8	27.7	28.1	90.79	208.6	1,406.7	425.7	371.1	54.68	7.787	
10,100.0	9,995.8	10,108.3	10,005.8	27.8	28.1	90.79	208.6	1,406.7	425.7	371.0	54.75	7.775	
10,200.0	10,095.8	10,208.3	10,105.8	27.8	28.1	90.79	208.6	1,406.7	425.7	370.9	54.83	7.764	
10,300.0	10,195.8	10,308.3	10,205.8	27.9	28.2	90.79	208.6	1,406.7	425.7	370.8	54.91	7.753	
10,400.0	10,295.8	10,408.3	10,305.8	27.9	28.2	90.79	208.6	1,406.7	425.7	370.7	54.99	7.741	
10,500.0	10,395.8	10,508.3	10,405.8	27.9	28.3	90.79	208.6	1,406.7	425.7	370.7	55.07	7.730	
10,600.0	10,495.8	10,608.3	10,505.8	28.0	28.3	90.79	208.6	1,406.7	425.7	370.6	55.16	7.719	
10,700.0	10,595.8	10,708.3	10,605.8	28.0	28.3	90.79	208.6	1,406.7	425.7	370.5	55.24	7.707	
10,800.0	10,695.8	10,808.3	10,705.8	28.1	28.4	90.79	208.6	1,406.7	425.7	370.4	55.32	7.696	
10,900.0	10,795.8	10,908.3	10,805.8	28.1	28.4	90.79	208.6	1,406.7	425.7	370.3	55.40	7.685	
11,000.0	10,895.8	11,008.3	10,905.8	28.1	28.5	90.79	208.6	1,406.7	425.7	370.2	55.48	7.673	
11,100.0	10,995.8	11,108.3	11,005.8	28.2	28.5	90.79	208.6	1,406.7	425.7	370.2	55.57	7.662	
11,200.0	11,095.8	11,208.3	11,105.8	28.2	28.5	90.79	208.6	1,406.7	425.7	370.1	55.65	7.650	
11,300.0	11,195.8	11,308.3	11,205.8	28.3	28.6	90.79	208.6	1,406.7	425.7	370.0	55.73	7.639	
11,400.0	11,295.8	11,408.3	11,305.8	28.3	28.6	90.79	208.6	1,406.7	425.7	369.9	55.81	7.628	
11,500.0	11,395.8	11,508.3	11,405.8	28.4	28.7	90.79	208.6	1,406.7	425.7	369.8	55.90	7.616	
11,600.0	11,495.8	11,608.3	11,505.8	28.4	28.7	90.79	208.6	1,406.7	425.7	369.7	55.98	7.605	
11,700.0	11,595.8	11,708.3	11,605.8	28.4	28.7	90.79	208.6	1,406.7	425.7	369.7	56.07	7.593	
11,800.0	11,695.8	11,808.3	11,705.8	28.5	28.8	90.79	208.6	1,406.7	425.7	369.6	56.15	7.582	
11,810.7	11,706.5	11,819.0	11,716.5	28.5	28.8	90.79	208.6	1,406.7	425.7	369.6	56.16	7.581	
11,825.0	11,720.8	11,833.2	11,730.8	28.5	28.8	-88.89	208.6	1,406.7	425.7	369.6	56.17	7.580	
11,850.0	11,745.7	11,858.2	11,755.7	28.5	28.8	-89.08	208.6	1,406.7	425.7	369.5	56.18	7.578	
11,875.0	11,770.6	11,883.1	11,780.6	28.4	28.8	-89.45	208.6	1,406.7	425.7	369.5	56.19	7.576	
11,900.0	11,795.3	11,907.7	11,805.3	28.4	28.8	-89.98	208.6	1,406.7	425.6	369.5	56.20	7.574	
11,901.1	11,796.4	11,908.8	11,806.4	28.4	28.8	-90.01	208.6	1,406.7	425.6	369.5	56.20	7.574 CC	
11,925.0	11,819.7	11,932.2	11,829.7	28.4	28.8	-90.67	208.6	1,406.7	425.7	369.5	56.20	7.575	
11,950.0	11,843.8	11,956.3	11,853.8	28.4	28.8	-91.51	208.6	1,406.7	425.8	369.6	56.18	7.579	
11,975.0	11,867.6	11,980.0	11,877.6	28.3	28.9	-92.47	208.6	1,406.7	426.1	369.9	56.16	7.588	
12,000.0	11,890.9	12,004.0	11,901.6	28.3	28.9	-93.56	208.5	1,406.7	426.6	370.5	56.11	7.603	
12,025.0	11,913.7	12,029.1	11,926.6	28.3	28.8	-94.69	207.2	1,406.7	427.3	371.3	56.03	7.626	
12,050.0	11,935.9	12,054.6	11,952.0	28.3	28.8	-95.82	204.5	1,406.7	428.2	372.2	55.95	7.654	
12,075.0	11,957.5	12,080.7	11,977.7	28.2	28.8	-96.94	200.4	1,406.7	429.3	373.4	55.85	7.686	
12,100.0	11,978.4	12,107.4	12,003.8	28.2	28.8	-98.06	194.8	1,406.8	430.5	374.8	55.74	7.724	
12,125.0	11,998.6	12,134.7	12,030.2	28.2	28.7	-99.16	187.5	1,406.8	431.9	376.3	55.62	7.765	
12,150.0	12,017.9	12,162.7	12,056.6	28.2	28.7	-100.25	178.4	1,406.9	433.5	378.0	55.51	7.810	
12,175.0	12,036.5	12,191.4	12,083.2	28.2	28.7	-101.33	167.6	1,407.0	435.2	379.8	55.39	7.857	
12,200.0	12,054.1	12,220.8	12,109.7	28.2	28.7	-102.38	154.9	1,407.0	437.0	381.7	55.29	7.905	
12,225.0	12,070.7	12,250.9	12,135.9	28.1	28.6	-103.41	140.1	1,407.1	438.9	383.7	55.19	7.953	
12,250.0	12,086.4	12,281.8	12,161.9	28.1	28.6	-104.40	123.3	1,407.2	440.9	385.8	55.12	8.000	
12,275.0	12,101.0	12,313.6	12,187.3	28.1	28.6	-105.37	104.4	1,407.4	442.9	387.9	55.07	8.044	
12,300.0	12,114.5	12,346.1	12,212.0	28.1	28.6	-106.30	83.2	1,407.5	445.0	389.9	55.04	8.085	
12,325.0	12,127.0	12,379.4	12,235.8	28.1	28.5	-107.18	59.9	1,407.7	447.0	392.0	55.05	8.121	
12,350.0	12,138.2	12,413.6	12,258.4	28.1	28.5	-108.01	34.3	1,407.8	449.0	393.9	55.08	8.151	
12,375.0	12,148.3	12,448.6	12,279.6	28.1	28.5	-108.78	6.5	1,408.0	450.9	395.7	55.15	8.176	
12,400.0	12,157.2	12,484.3	12,299.1	28.1	28.5	-109.49	-23.5	1,408.2	452.7	397.4	55.25	8.193	
12,425.0	12,164.8	12,520.8	12,316.7	28.1	28.5	-110.13	-55.5	1,408.4	454.3	398.9	55.38	8.204	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 2532 PROJECT - _ZIA HILLS UNIT 2632 WC 714H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,450.0	12,171.2	12,558.0	12,332.0	28.2	28.5	-110.69	-89.3	1,408.6	455.8	400.3	55.53	8.209	
12,475.0	12,176.3	12,595.7	12,344.7	28.2	28.5	-111.17	-124.9	1,408.8	457.1	401.4	55.69	8.207	
12,500.0	12,180.1	12,634.0	12,354.8	28.2	28.6	-111.56	-161.8	1,409.1	458.1	402.2	55.86	8.201	
12,525.0	12,182.6	12,672.7	12,362.0	28.2	28.6	-111.85	-199.8	1,409.3	458.9	402.8	56.03	8.190	
12,550.0	12,183.8	12,711.7	12,366.0	28.2	28.6	-112.04	-238.6	1,409.6	459.4	403.2	56.20	8.175	
12,560.7	12,184.0	12,728.5	12,366.8	28.3	28.6	-112.09	-255.3	1,409.7	459.6	403.3	56.26	8.168	
12,600.0	12,184.0	12,772.6	12,367.0	28.3	28.7	-112.11	-299.5	1,410.0	459.6	403.2	56.39	8.150	
12,700.0	12,184.0	12,872.6	12,367.0	28.5	28.8	-112.11	-399.5	1,410.6	459.6	402.9	56.70	8.106	
12,800.0	12,184.0	12,972.6	12,367.0	28.6	29.0	-112.11	-499.5	1,411.3	459.7	402.6	57.08	8.053	
12,900.0	12,184.0	13,072.6	12,367.0	28.9	29.2	-112.11	-599.5	1,411.9	459.7	402.2	57.51	7.994	
13,000.0	12,184.0	13,172.6	12,367.0	29.1	29.5	-112.10	-699.5	1,412.5	459.7	401.7	57.99	7.927	
13,100.0	12,184.0	13,272.6	12,367.0	29.4	29.8	-112.10	-799.5	1,413.2	459.8	401.2	58.53	7.854	
13,200.0	12,184.0	13,372.6	12,367.0	29.7	30.1	-112.10	-899.5	1,413.8	459.8	400.7	59.13	7.776	
13,300.0	12,184.0	13,472.6	12,367.0	30.0	30.4	-112.10	-999.5	1,414.5	459.8	400.0	59.78	7.692	
13,400.0	12,184.0	13,572.6	12,367.0	30.4	30.7	-112.10	-1,099.5	1,415.1	459.8	399.4	60.47	7.604	
13,500.0	12,184.0	13,672.6	12,367.0	30.8	31.1	-112.10	-1,199.5	1,415.8	459.9	398.7	61.22	7.512	
13,600.0	12,184.0	13,772.6	12,367.0	31.2	31.5	-112.10	-1,299.5	1,416.4	459.9	397.9	62.01	7.416	
13,700.0	12,184.0	13,872.6	12,367.0	31.6	32.0	-112.09	-1,399.5	1,417.1	459.9	397.1	62.85	7.318	
13,800.0	12,184.0	13,972.6	12,367.0	32.1	32.4	-112.09	-1,499.5	1,417.7	460.0	396.2	63.73	7.217	
13,900.0	12,184.0	14,072.6	12,367.0	32.6	32.9	-112.09	-1,599.5	1,418.4	460.0	395.3	64.66	7.114	
14,000.0	12,184.0	14,172.6	12,367.0	33.1	33.4	-112.09	-1,699.5	1,419.0	460.0	394.4	65.62	7.011	
14,100.0	12,184.0	14,272.6	12,367.0	33.6	33.9	-112.09	-1,799.5	1,419.6	460.0	393.4	66.62	6.906	
14,200.0	12,184.0	14,372.6	12,367.0	34.1	34.4	-112.09	-1,899.5	1,420.3	460.1	392.4	67.65	6.800	
14,300.0	12,184.0	14,472.6	12,367.0	34.7	35.0	-112.09	-1,999.5	1,420.9	460.1	391.4	68.73	6.695	
14,400.0	12,184.0	14,572.6	12,367.0	35.2	35.5	-112.08	-2,099.5	1,421.6	460.1	390.3	69.83	6.589	
14,500.0	12,184.0	14,672.6	12,367.0	35.8	36.1	-112.08	-2,199.5	1,422.2	460.2	389.2	70.97	6.484	
14,600.0	12,184.0	14,772.6	12,367.0	36.4	36.7	-112.08	-2,299.5	1,422.9	460.2	388.1	72.13	6.380	
14,700.0	12,184.0	14,872.6	12,367.0	37.0	37.3	-112.08	-2,399.5	1,423.5	460.2	386.9	73.33	6.277	
14,800.0	12,184.0	14,972.6	12,367.0	37.7	38.0	-112.08	-2,499.4	1,424.2	460.3	385.7	74.55	6.174	
14,900.0	12,184.0	15,072.6	12,367.0	38.3	38.6	-112.08	-2,599.4	1,424.8	460.3	384.5	75.79	6.073	
15,000.0	12,184.0	15,172.6	12,367.0	39.0	39.3	-112.07	-2,699.4	1,425.4	460.3	383.2	77.07	5.973	
15,100.0	12,184.0	15,272.6	12,367.0	39.6	39.9	-112.07	-2,799.4	1,426.1	460.3	382.0	78.36	5.875	
15,200.0	12,184.0	15,372.6	12,367.0	40.3	40.6	-112.07	-2,899.4	1,426.7	460.4	380.7	79.68	5.778	
15,300.0	12,184.0	15,472.6	12,367.0	41.0	41.3	-112.07	-2,999.4	1,427.4	460.4	379.4	81.02	5.683	
15,400.0	12,184.0	15,572.6	12,367.0	41.7	42.0	-112.07	-3,099.4	1,428.0	460.4	378.1	82.37	5.589	
15,500.0	12,184.0	15,672.6	12,367.0	42.4	42.7	-112.07	-3,199.4	1,428.7	460.5	376.7	83.75	5.498	
15,600.0	12,184.0	15,772.6	12,367.0	43.2	43.4	-112.07	-3,299.4	1,429.3	460.5	375.3	85.15	5.408	
15,700.0	12,184.0	15,872.6	12,367.0	43.9	44.2	-112.06	-3,399.4	1,430.0	460.5	374.0	86.56	5.320	
15,800.0	12,184.0	15,972.6	12,367.0	44.6	44.9	-112.06	-3,499.4	1,430.6	460.5	372.6	87.99	5.234	
15,900.0	12,184.0	16,072.6	12,367.0	45.4	45.6	-112.06	-3,599.4	1,431.2	460.6	371.1	89.44	5.150	
16,000.0	12,184.0	16,172.6	12,367.0	46.1	46.4	-112.06	-3,699.4	1,431.9	460.6	369.7	90.90	5.067	
16,100.0	12,184.0	16,272.6	12,367.0	46.9	47.2	-112.06	-3,799.4	1,432.5	460.6	368.3	92.37	4.987	
16,200.0	12,184.0	16,372.6	12,367.0	47.7	47.9	-112.06	-3,899.4	1,433.2	460.7	366.8	93.86	4.908	
16,300.0	12,184.0	16,472.6	12,367.0	48.4	48.7	-112.06	-3,999.4	1,433.8	460.7	365.3	95.36	4.831	
16,400.0	12,184.0	16,572.6	12,367.0	49.2	49.5	-112.05	-4,099.4	1,434.5	460.7	363.9	96.87	4.756	
16,500.0	12,184.0	16,672.6	12,367.0	50.0	50.3	-112.05	-4,199.4	1,435.1	460.8	362.4	98.40	4.683	
16,600.0	12,184.0	16,772.6	12,367.0	50.8	51.1	-112.05	-4,299.4	1,435.8	460.8	360.9	99.93	4.611	
16,700.0	12,184.0	16,872.6	12,367.0	51.6	51.9	-112.05	-4,399.4	1,436.4	460.8	359.3	101.48	4.541	
16,800.0	12,184.0	16,972.6	12,367.0	52.4	52.7	-112.05	-4,499.4	1,437.0	460.8	357.8	103.04	4.473	
16,900.0	12,184.0	17,072.6	12,367.0	53.2	53.5	-112.05	-4,599.4	1,437.7	460.9	356.3	104.60	4.406	
17,000.0	12,184.0	17,172.6	12,367.0	54.1	54.3	-112.05	-4,699.4	1,438.3	460.9	354.7	106.18	4.341	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 2532 PROJECT - _ZIA HILLS UNIT 2632 WC 714H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,100.0	12,184.0	17,272.6	12,367.0	54.9	55.1	-112.04	-4,799.4	1,439.0	460.9	353.2	107.76	4.277	
17,200.0	12,184.0	17,372.6	12,367.0	55.7	56.0	-112.04	-4,899.4	1,439.6	461.0	351.6	109.36	4.215	
17,300.0	12,184.0	17,472.6	12,367.0	56.5	56.8	-112.04	-4,999.4	1,440.3	461.0	350.0	110.96	4.155	
17,400.0	12,184.0	17,572.6	12,367.0	57.4	57.6	-112.04	-5,099.4	1,440.9	461.0	348.5	112.57	4.095	
17,500.0	12,184.0	17,672.6	12,367.0	58.2	58.5	-112.04	-5,199.4	1,441.6	461.0	346.9	114.19	4.038	
17,600.0	12,184.0	17,772.6	12,367.0	59.1	59.3	-112.04	-5,299.4	1,442.2	461.1	345.3	115.81	3.981	
17,700.0	12,184.0	17,872.6	12,367.0	59.9	60.2	-112.03	-5,399.4	1,442.9	461.1	343.7	117.44	3.926	
17,800.0	12,184.0	17,972.6	12,367.0	60.8	61.0	-112.03	-5,499.4	1,443.5	461.1	342.1	119.08	3.873	
17,900.0	12,184.0	18,072.6	12,367.0	61.6	61.9	-112.03	-5,599.4	1,444.1	461.2	340.4	120.72	3.820	
18,000.0	12,184.0	18,172.6	12,367.0	62.5	62.7	-112.03	-5,699.4	1,444.8	461.2	338.8	122.37	3.769	
18,100.0	12,184.0	18,272.6	12,367.0	63.3	63.6	-112.03	-5,799.4	1,445.4	461.2	337.2	124.03	3.719	
18,200.0	12,184.0	18,372.6	12,367.0	64.2	64.4	-112.03	-5,899.4	1,446.1	461.3	335.6	125.69	3.670	
18,300.0	12,184.0	18,472.6	12,367.0	65.1	65.3	-112.03	-5,999.4	1,446.7	461.3	333.9	127.35	3.622	
18,400.0	12,184.0	18,572.6	12,367.0	65.9	66.2	-112.02	-6,099.4	1,447.4	461.3	332.3	129.03	3.575	
18,500.0	12,184.0	18,672.6	12,367.0	66.8	67.0	-112.02	-6,199.4	1,448.0	461.3	330.6	130.70	3.530	
18,600.0	12,184.0	18,772.6	12,367.0	67.7	67.9	-112.02	-6,299.4	1,448.7	461.4	329.0	132.38	3.485	
18,700.0	12,184.0	18,872.6	12,367.0	68.5	68.8	-112.02	-6,399.4	1,449.3	461.4	327.3	134.07	3.442	
18,800.0	12,184.0	18,972.6	12,367.0	69.4	69.7	-112.02	-6,499.4	1,449.9	461.4	325.7	135.76	3.399	
18,900.0	12,184.0	19,072.6	12,367.0	70.3	70.5	-112.02	-6,599.4	1,450.6	461.5	324.0	137.45	3.357	
19,000.0	12,184.0	19,172.6	12,367.0	71.2	71.4	-112.02	-6,699.4	1,451.2	461.5	322.3	139.15	3.316	
19,100.0	12,184.0	19,272.6	12,367.0	72.1	72.3	-112.01	-6,799.4	1,451.9	461.5	320.7	140.86	3.277	
19,200.0	12,184.0	19,372.6	12,367.0	73.0	73.2	-112.01	-6,899.4	1,452.5	461.5	319.0	142.56	3.238	
19,300.0	12,184.0	19,472.6	12,367.0	73.8	74.1	-112.01	-6,999.4	1,453.2	461.6	317.3	144.27	3.199	
19,400.0	12,184.0	19,572.6	12,367.0	74.7	75.0	-112.01	-7,099.4	1,453.8	461.6	315.6	145.99	3.162	
19,507.7	12,184.0	19,680.3	12,367.0	75.7	75.9	-112.01	-7,207.0	1,454.5	461.6	313.8	147.83	3.123 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.44	-0.9	-120.0	120.0	119.5	0.48	250.295	
100.0	100.0	100.0	100.0	1.2	1.2	-90.44	-0.9	-120.0	120.0	117.1	2.87	41.860	
200.0	200.0	200.0	200.0	1.7	1.7	-90.44	-0.9	-120.0	120.0	116.1	3.86	31.061	
300.0	300.0	300.0	300.0	2.1	2.1	-90.44	-0.9	-120.0	120.0	115.4	4.63	25.899	
400.0	400.0	400.0	400.0	2.4	2.4	-90.44	-0.9	-120.0	120.0	114.7	5.29	22.698	
500.0	500.0	500.0	500.0	2.7	2.7	-90.44	-0.9	-120.0	120.0	114.1	5.87	20.456	
600.0	600.0	600.0	600.0	3.0	3.0	-90.44	-0.9	-120.0	120.0	113.6	6.39	18.769	
700.0	700.0	700.0	700.0	3.2	3.2	-90.44	-0.9	-120.0	120.0	113.1	6.88	17.438	
800.0	800.0	800.0	800.0	3.5	3.5	-90.44	-0.9	-120.0	120.0	112.7	7.34	16.352	
900.0	900.0	900.0	900.0	3.7	3.7	-90.44	-0.9	-120.0	120.0	112.2	7.77	15.442	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-90.44	-0.9	-120.0	120.0	111.8	8.18	14.666	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	-90.44	-0.9	-120.0	120.0	111.4	8.58	13.993	CC, ES
1,200.0	1,200.0	1,196.8	1,196.8	4.4	4.4	-167.76	0.1	-121.3	123.0	113.9	9.11	13.497	SF
1,300.0	1,299.8	1,293.1	1,292.9	4.7	4.7	-166.82	3.3	-125.0	132.0	122.4	9.64	13.695	
1,400.0	1,399.5	1,387.9	1,387.4	5.0	4.8	-165.57	8.2	-131.1	147.0	137.0	10.05	14.637	
1,500.0	1,498.7	1,480.5	1,479.4	5.3	5.1	-164.78	13.3	-140.0	168.5	157.9	10.57	15.940	
1,600.0	1,597.5	1,570.8	1,568.9	5.7	5.4	-164.46	18.1	-151.6	196.4	185.2	11.14	17.634	
1,700.0	1,695.6	1,660.1	1,657.0	6.0	5.6	-164.45	22.7	-165.6	230.2	218.6	11.65	19.766	
1,737.2	1,731.9	1,694.7	1,691.0	6.1	5.7	-164.50	24.4	-171.4	243.9	232.1	11.80	20.665	
1,800.0	1,793.2	1,753.0	1,748.4	6.3	5.9	-164.70	27.4	-181.0	267.4	255.3	12.12	22.072	
1,900.0	1,890.7	1,845.7	1,839.7	6.6	6.2	-164.96	32.2	-196.4	304.9	292.2	12.69	24.022	
2,000.0	1,988.3	1,938.4	1,931.0	7.0	6.5	-165.16	36.9	-211.7	342.3	329.0	13.29	25.745	
2,100.0	2,085.8	2,031.1	2,022.4	7.3	6.8	-165.33	41.6	-227.1	379.7	365.8	13.93	27.266	
2,200.0	2,183.4	2,123.9	2,113.7	7.7	7.1	-165.46	46.4	-242.5	417.1	402.5	14.58	28.610	
2,300.0	2,280.9	2,216.6	2,205.0	8.1	7.4	-165.57	51.1	-257.8	454.5	439.3	15.25	29.800	
2,400.0	2,378.4	2,309.3	2,296.3	8.5	7.8	-165.67	55.9	-273.2	492.0	476.0	15.94	30.856	
2,500.0	2,476.0	2,402.1	2,387.7	8.9	8.1	-165.75	60.6	-288.6	529.4	512.7	16.65	31.795	
2,600.0	2,573.5	2,494.8	2,479.0	9.3	8.5	-165.82	65.4	-303.9	566.8	549.5	17.37	32.632	
2,700.0	2,671.0	2,587.5	2,570.3	9.7	8.9	-165.88	70.1	-319.3	604.3	586.2	18.10	33.381	
2,800.0	2,768.6	2,680.3	2,661.6	10.1	9.2	-165.93	74.9	-334.7	641.7	622.8	18.84	34.054	
2,900.0	2,866.1	2,773.0	2,753.0	10.5	9.6	-165.98	79.6	-350.0	679.1	659.5	19.59	34.659	
3,000.0	2,963.7	2,865.7	2,844.3	11.0	10.0	-166.03	84.3	-365.4	716.5	696.2	20.35	35.206	
3,100.0	3,061.2	2,958.4	2,935.6	11.4	10.4	-166.07	89.1	-380.8	754.0	732.9	21.12	35.702	
3,200.0	3,158.7	3,051.2	3,026.9	11.8	10.8	-166.10	93.8	-396.1	791.4	769.5	21.89	36.152	
3,300.0	3,256.3	3,143.9	3,118.3	12.3	11.1	-166.13	98.6	-411.5	828.8	806.2	22.67	36.562	
3,400.0	3,353.8	3,236.6	3,209.6	12.7	11.5	-166.16	103.3	-426.9	866.3	842.8	23.45	36.937	
3,500.0	3,451.3	3,329.4	3,300.9	13.2	11.9	-166.19	108.1	-442.2	903.7	879.5	24.24	37.280	
3,600.0	3,548.9	3,422.1	3,392.2	13.6	12.3	-166.22	112.8	-457.6	941.1	916.1	25.03	37.596	
3,700.0	3,646.4	3,514.8	3,483.6	14.1	12.7	-166.24	117.5	-473.0	978.6	952.7	25.83	37.886	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.35	-0.9	-149.7	149.7	149.2	0.48	312.276	
100.0	100.0	100.0	100.0	1.2	1.2	-90.35	-0.9	-149.7	149.7	146.9	2.87	52.225	
200.0	200.0	200.0	200.0	1.7	1.7	-90.35	-0.9	-149.7	149.7	145.9	3.86	38.753	
300.0	300.0	300.0	300.0	2.1	2.1	-90.35	-0.9	-149.7	149.7	145.1	4.63	32.313	
400.0	400.0	400.0	400.0	2.4	2.4	-90.35	-0.9	-149.7	149.7	144.4	5.29	28.319	
500.0	500.0	500.0	500.0	2.7	2.7	-90.35	-0.9	-149.7	149.7	143.9	5.87	25.522	
600.0	600.0	600.0	600.0	3.0	3.0	-90.35	-0.9	-149.7	149.7	143.3	6.39	23.417	
700.0	700.0	700.0	700.0	3.2	3.2	-90.35	-0.9	-149.7	149.7	142.8	6.88	21.756	
800.0	800.0	800.0	800.0	3.5	3.5	-90.35	-0.9	-149.7	149.7	142.4	7.34	20.401	
900.0	900.0	900.0	900.0	3.7	3.7	-90.35	-0.9	-149.7	149.7	141.9	7.77	19.266	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-90.35	-0.9	-149.7	149.7	141.5	8.18	18.298	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	-90.35	-0.9	-149.7	149.7	141.1	8.58	17.458	CC, ES
1,200.0	1,200.0	1,195.0	1,195.0	4.4	4.4	-168.02	-0.6	-151.3	153.1	143.9	9.15	16.736	SF
1,300.0	1,299.8	1,289.4	1,289.3	4.7	4.7	-168.02	0.3	-155.9	163.0	153.3	9.70	16.812	
1,400.0	1,399.5	1,382.6	1,382.1	5.0	5.0	-168.01	1.7	-163.4	179.6	169.3	10.26	17.505	
1,500.0	1,498.7	1,473.9	1,472.9	5.3	5.3	-167.99	3.7	-173.6	202.6	191.7	10.83	18.702	
1,600.0	1,597.5	1,562.9	1,560.9	5.7	5.6	-167.96	6.1	-186.4	231.8	220.4	11.41	20.309	
1,700.0	1,695.6	1,649.1	1,645.8	6.0	5.9	-167.90	8.9	-201.2	267.1	255.1	12.00	22.254	
1,737.2	1,731.9	1,680.4	1,676.4	6.1	6.0	-167.88	10.1	-207.3	281.8	269.6	12.18	23.138	
1,800.0	1,793.2	1,732.4	1,727.2	6.3	6.1	-167.92	12.1	-218.0	307.7	295.2	12.44	24.736	
1,900.0	1,890.7	1,820.6	1,813.3	6.6	6.4	-167.93	15.9	-237.5	350.3	337.3	12.94	27.068	
2,000.0	1,988.3	1,911.1	1,901.3	7.0	6.7	-167.93	19.7	-257.6	393.0	379.4	13.54	29.020	
2,100.0	2,085.8	2,001.5	1,989.4	7.3	7.0	-167.94	23.6	-277.6	435.6	421.5	14.17	30.744	
2,200.0	2,183.4	2,091.9	2,077.5	7.7	7.3	-167.94	27.4	-297.7	478.3	463.5	14.82	32.265	
2,300.0	2,280.9	2,182.4	2,165.6	8.1	7.6	-167.94	31.2	-317.8	521.0	505.5	15.50	33.610	
2,400.0	2,378.4	2,272.8	2,253.7	8.5	8.0	-167.95	35.1	-337.8	563.7	547.5	16.20	34.803	
2,500.0	2,476.0	2,363.2	2,341.8	8.9	8.3	-167.95	38.9	-357.9	606.4	589.5	16.91	35.863	
2,600.0	2,573.5	2,453.7	2,429.9	9.3	8.7	-167.95	42.8	-378.0	649.1	631.4	17.63	36.807	
2,700.0	2,671.0	2,544.1	2,518.0	9.7	9.1	-167.95	46.6	-398.0	691.7	673.4	18.37	37.650	
2,800.0	2,768.6	2,634.5	2,606.1	10.1	9.4	-167.95	50.5	-418.1	734.4	715.3	19.12	38.406	
2,900.0	2,866.1	2,725.0	2,694.2	10.5	9.8	-167.96	54.3	-438.2	777.1	757.2	19.88	39.085	
3,000.0	2,963.7	2,815.4	2,782.3	11.0	10.2	-167.96	58.1	-458.2	819.8	799.1	20.65	39.697	
3,100.0	3,061.2	2,905.8	2,870.4	11.4	10.6	-167.96	62.0	-478.3	862.5	841.0	21.43	40.250	
3,200.0	3,158.7	2,996.3	2,958.5	11.8	11.0	-167.96	65.8	-498.4	905.1	882.9	22.21	40.752	
3,300.0	3,256.3	3,086.7	3,046.6	12.3	11.4	-167.96	69.7	-518.4	947.8	924.8	23.00	41.208	
3,400.0	3,353.8	3,177.1	3,134.7	12.7	11.8	-167.96	73.5	-538.5	990.5	966.7	23.80	41.623	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.37	-0.4	-60.0	60.0	59.5	0.48	125.145	
100.0	100.0	100.0	100.0	1.2	1.2	-90.37	-0.4	-60.0	60.0	57.1	2.87	20.929	
200.0	200.0	200.0	200.0	1.7	1.7	-90.37	-0.4	-60.0	60.0	56.1	3.86	15.530	
300.0	300.0	300.0	300.0	2.1	2.1	-90.37	-0.4	-60.0	60.0	55.4	4.63	12.949	
400.0	400.0	400.0	400.0	2.4	2.4	-90.37	-0.4	-60.0	60.0	54.7	5.29	11.349	
500.0	500.0	500.0	500.0	2.7	2.7	-90.37	-0.4	-60.0	60.0	54.1	5.87	10.228	
600.0	600.0	600.0	600.0	3.0	3.0	-90.37	-0.4	-60.0	60.0	53.6	6.39	9.384	
700.0	700.0	700.0	700.0	3.2	3.2	-90.37	-0.4	-60.0	60.0	53.1	6.88	8.719	
800.0	800.0	800.0	800.0	3.5	3.5	-90.37	-0.4	-60.0	60.0	52.7	7.34	8.176	
900.0	900.0	900.0	900.0	3.7	3.7	-90.37	-0.4	-60.0	60.0	52.2	7.77	7.721	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-90.37	-0.4	-60.0	60.0	51.8	8.18	7.333	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	-90.37	-0.4	-60.0	60.0	51.4	8.58	6.996 CC	
1,200.0	1,200.0	1,201.4	1,201.4	4.4	4.4	-167.12	0.9	-58.8	60.5	51.4	9.11	6.645 ES	
1,300.0	1,299.8	1,302.8	1,302.6	4.7	4.7	-164.49	4.9	-55.2	62.2	52.6	9.61	6.469	
1,400.0	1,399.5	1,404.0	1,403.4	5.0	5.0	-160.41	11.6	-49.2	65.2	55.1	10.09	6.459	
1,500.0	1,498.7	1,505.0	1,503.6	5.3	5.4	-155.35	20.9	-40.9	69.9	59.4	10.54	6.630	
1,600.0	1,597.5	1,605.1	1,602.6	5.7	5.6	-150.09	32.4	-30.5	76.8	65.9	10.89	7.054	
1,700.0	1,695.6	1,704.5	1,700.7	6.0	5.9	-146.66	44.2	-19.9	86.9	75.6	11.32	7.672	
1,737.2	1,731.9	1,741.4	1,737.1	6.1	6.0	-145.88	48.6	-16.0	91.4	80.0	11.44	7.989	
1,800.0	1,793.2	1,803.7	1,798.6	6.3	6.2	-144.94	56.0	-9.3	99.5	87.8	11.67	8.522	
1,900.0	1,890.7	1,902.8	1,896.5	6.6	6.5	-143.71	67.8	1.3	112.3	100.2	12.10	9.278	
2,000.0	1,988.3	2,002.0	1,994.3	7.0	6.8	-142.74	79.5	11.9	125.2	112.6	12.55	9.974	
2,100.0	2,085.8	2,101.1	2,092.2	7.3	7.2	-141.95	91.3	22.5	138.1	125.1	13.01	10.613	
2,200.0	2,183.4	2,200.3	2,190.1	7.7	7.5	-141.30	103.1	33.1	151.1	137.6	13.49	11.202	
2,300.0	2,280.9	2,299.4	2,287.9	8.1	7.9	-140.75	114.9	43.7	164.0	150.0	13.97	11.744	
2,400.0	2,378.4	2,398.6	2,385.8	8.5	8.3	-140.28	126.7	54.3	177.0	162.5	14.45	12.244	
2,500.0	2,476.0	2,497.7	2,483.7	8.9	8.6	-139.87	138.4	64.9	190.0	175.0	14.95	12.707	
2,600.0	2,573.5	2,596.9	2,581.6	9.3	9.0	-139.51	150.2	75.5	202.9	187.5	15.45	13.135	
2,700.0	2,671.0	2,695.1	2,678.7	9.7	9.4	-139.41	161.3	85.4	216.1	200.2	15.97	13.535	
2,800.0	2,768.6	2,793.2	2,775.9	10.1	9.8	-139.73	171.2	94.3	229.7	213.2	16.52	13.908	
2,900.0	2,866.1	2,891.2	2,873.1	10.5	10.2	-140.40	179.7	102.0	243.8	226.7	17.10	14.256	
3,000.0	2,963.7	2,988.8	2,970.3	11.0	10.5	-141.35	187.1	108.6	258.3	240.6	17.72	14.580	
3,100.0	3,061.2	3,086.2	3,067.4	11.4	10.9	-142.54	193.2	114.1	273.5	255.1	18.37	14.887	
3,200.0	3,158.7	3,183.3	3,164.2	11.8	11.2	-143.91	198.0	118.4	289.2	270.2	19.05	15.180	
3,300.0	3,256.3	3,279.9	3,260.7	12.3	11.5	-145.43	201.6	121.7	305.7	285.9	19.76	15.468	
3,400.0	3,353.8	3,376.1	3,356.8	12.7	11.8	-147.06	204.0	123.8	323.0	302.5	20.50	15.756	
3,500.0	3,451.3	3,471.8	3,452.5	13.2	12.1	-148.77	205.2	124.9	341.2	319.9	21.25	16.054	
3,600.0	3,548.9	3,568.2	3,548.9	13.6	12.2	-150.53	205.3	125.0	360.2	338.2	21.99	16.380	
3,700.0	3,646.4	3,665.7	3,646.4	14.1	12.3	-152.16	205.3	125.0	379.7	357.0	22.74	16.701	
3,800.0	3,743.9	3,763.2	3,743.9	14.5	12.3	-153.63	205.3	125.0	399.4	376.0	23.47	17.019	
3,900.0	3,841.5	3,860.8	3,841.5	15.0	12.4	-154.96	205.3	125.0	419.4	395.2	24.20	17.334	
4,000.0	3,939.0	3,958.3	3,939.0	15.4	12.5	-156.18	205.3	125.0	439.6	414.7	24.91	17.645	
4,100.0	4,036.6	4,055.8	4,036.6	15.9	12.6	-157.28	205.3	125.0	459.9	434.3	25.62	17.950	
4,200.0	4,134.1	4,153.4	4,134.1	16.4	12.6	-158.29	205.3	125.0	480.4	454.1	26.33	18.249	
4,300.0	4,231.6	4,250.9	4,231.6	16.8	12.7	-159.22	205.3	125.0	501.0	474.0	27.02	18.541	
4,400.0	4,329.2	4,348.5	4,329.2	17.3	12.8	-160.08	205.3	125.0	521.8	494.1	27.72	18.827	
4,500.0	4,426.7	4,446.0	4,426.7	17.8	12.9	-160.87	205.3	125.0	542.6	514.2	28.40	19.104	
4,600.0	4,524.2	4,543.5	4,524.2	18.2	12.9	-161.61	205.3	125.0	563.6	534.5	29.09	19.374	
4,700.0	4,621.8	4,641.1	4,621.8	18.7	13.0	-162.29	205.3	125.0	584.6	554.8	29.77	19.637	
4,800.0	4,719.3	4,738.6	4,719.3	19.1	13.1	-162.92	205.3	125.0	605.7	575.2	30.45	19.892	
4,900.0	4,816.9	4,836.1	4,816.9	19.6	13.1	-163.51	205.3	125.0	626.8	595.7	31.13	20.139	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,914.4	4,933.7	4,914.4	20.1	13.2	-164.06	205.3	125.0	648.1	616.3	31.80	20.379	
5,100.0	5,011.9	5,031.2	5,011.9	20.5	13.3	-164.58	205.3	125.0	669.3	636.9	32.47	20.611	
5,200.0	5,109.5	5,128.7	5,109.5	21.0	13.4	-165.07	205.3	125.0	690.7	657.5	33.15	20.836	
5,300.0	5,207.0	5,226.3	5,207.0	21.5	13.4	-165.52	205.3	125.0	712.0	678.2	33.82	21.055	
5,329.9	5,236.2	5,255.5	5,236.2	21.6	13.5	-165.66	205.3	125.0	718.4	684.4	34.01	21.125	
5,400.0	5,304.6	5,323.9	5,304.6	21.9	13.5	-165.98	205.3	125.0	733.0	698.6	34.47	21.269	
5,500.0	5,402.6	5,421.9	5,402.6	22.4	13.6	-166.40	205.3	125.0	752.5	717.4	35.12	21.427	
5,600.0	5,500.9	5,520.2	5,500.9	22.9	13.7	-166.76	205.3	125.0	770.3	734.5	35.76	21.542	
5,700.0	5,599.5	5,618.8	5,599.5	23.3	13.8	-167.07	205.3	125.0	786.5	750.1	36.38	21.615	
5,800.0	5,698.4	5,717.7	5,698.4	23.7	13.8	-167.34	205.3	125.0	801.0	764.0	36.99	21.651	
5,900.0	5,797.6	5,816.8	5,797.6	24.2	13.9	-167.57	205.3	125.0	813.8	776.2	37.59	21.650	
6,000.0	5,896.9	5,916.2	5,896.9	24.6	14.0	-167.77	205.3	125.0	824.9	786.7	38.16	21.616	
6,100.0	5,996.4	6,015.7	5,996.4	25.0	14.1	-167.93	205.3	125.0	834.4	795.6	38.71	21.551	
6,200.0	6,096.1	6,115.4	6,096.1	25.3	14.1	-168.06	205.3	125.0	842.1	802.9	39.24	21.458	
6,300.0	6,195.9	6,215.2	6,195.9	25.7	14.2	-168.15	205.3	125.0	848.1	808.4	39.75	21.339	
6,400.0	6,295.8	6,315.1	6,295.8	26.0	14.3	-168.22	205.3	125.0	852.5	812.3	40.21	21.199	
6,500.0	6,395.8	6,415.1	6,395.8	26.3	14.4	-168.27	205.3	125.0	855.1	814.5	40.63	21.045	
6,604.2	6,500.0	6,519.3	6,500.0	26.5	14.4	-90.61	205.3	125.0	856.0	815.2	40.89	20.936	
6,700.0	6,595.8	6,615.1	6,595.8	26.5	14.5	-90.61	205.3	125.0	856.0	815.1	40.98	20.890	
6,800.0	6,695.8	6,715.1	6,695.8	26.5	14.6	-90.61	205.3	125.0	856.0	815.0	41.07	20.841	
6,900.0	6,795.8	6,815.1	6,795.8	26.6	14.7	-90.61	205.3	125.0	856.0	814.9	41.17	20.793	
7,000.0	6,895.8	6,915.1	6,895.8	26.6	14.8	-90.61	205.3	125.0	856.0	814.8	41.27	20.744	
7,100.0	6,995.8	7,015.1	6,995.8	26.7	14.8	-90.61	205.3	125.0	856.0	814.7	41.36	20.695	
7,200.0	7,095.8	7,115.1	7,095.8	26.7	14.9	-90.61	205.3	125.0	856.0	814.6	41.46	20.647	
7,300.0	7,195.8	7,215.1	7,195.8	26.7	15.0	-90.61	205.3	125.0	856.0	814.5	41.56	20.598	
7,400.0	7,295.8	7,315.1	7,295.8	26.8	15.1	-90.61	205.3	125.0	856.0	814.4	41.66	20.549	
7,500.0	7,395.8	7,415.1	7,395.8	26.8	15.1	-90.61	205.3	125.0	856.0	814.3	41.76	20.501	
7,600.0	7,495.8	7,515.1	7,495.8	26.8	15.2	-90.61	205.3	125.0	856.0	814.2	41.86	20.452	
7,700.0	7,595.8	7,615.1	7,595.8	26.9	15.3	-90.61	205.3	125.0	856.0	814.1	41.96	20.404	
7,800.0	7,695.8	7,715.1	7,695.8	26.9	15.4	-90.61	205.3	125.0	856.0	814.0	42.06	20.355	
7,900.0	7,795.8	7,815.1	7,795.8	26.9	15.5	-90.61	205.3	125.0	856.0	813.9	42.16	20.307	
8,000.0	7,895.8	7,915.1	7,895.8	27.0	15.5	-90.61	205.3	125.0	856.0	813.8	42.26	20.258	
8,100.0	7,995.8	8,015.1	7,995.8	27.0	15.6	-90.61	205.3	125.0	856.0	813.7	42.36	20.210	
8,200.0	8,095.8	8,115.1	8,095.8	27.0	15.7	-90.61	205.3	125.0	856.0	813.6	42.46	20.162	
8,300.0	8,195.8	8,215.1	8,195.8	27.1	15.8	-90.61	205.3	125.0	856.0	813.5	42.56	20.113	
8,400.0	8,295.8	8,315.1	8,295.8	27.1	15.8	-90.61	205.3	125.0	856.0	813.4	42.66	20.065	
8,500.0	8,395.8	8,415.1	8,395.8	27.2	15.9	-90.61	205.3	125.0	856.0	813.3	42.77	20.017	
8,600.0	8,495.8	8,515.1	8,495.8	27.2	16.0	-90.61	205.3	125.0	856.0	813.2	42.87	19.969	
8,700.0	8,595.8	8,615.1	8,595.8	27.2	16.1	-90.61	205.3	125.0	856.0	813.1	42.97	19.921	
8,800.0	8,695.8	8,715.1	8,695.8	27.3	16.2	-90.61	205.3	125.0	856.0	813.0	43.08	19.873	
8,900.0	8,795.8	8,815.1	8,795.8	27.3	16.2	-90.61	205.3	125.0	856.0	812.9	43.18	19.825	
9,000.0	8,895.8	8,915.1	8,895.8	27.3	16.3	-90.61	205.3	125.0	856.0	812.8	43.28	19.778	
9,100.0	8,995.8	9,015.1	8,995.8	27.4	16.4	-90.61	205.3	125.0	856.0	812.7	43.39	19.730	
9,200.0	9,095.8	9,115.1	9,095.8	27.4	16.5	-90.61	205.3	125.0	856.0	812.6	43.49	19.682	
9,300.0	9,195.8	9,215.1	9,195.8	27.5	16.6	-90.61	205.3	125.0	856.0	812.4	43.60	19.635	
9,400.0	9,295.8	9,315.1	9,295.8	27.5	16.6	-90.61	205.3	125.0	856.0	812.3	43.70	19.587	
9,500.0	9,395.8	9,415.1	9,395.8	27.5	16.7	-90.61	205.3	125.0	856.0	812.2	43.81	19.540	
9,600.0	9,495.8	9,515.1	9,495.8	27.6	16.8	-90.61	205.3	125.0	856.0	812.1	43.92	19.492	
9,700.0	9,595.8	9,615.1	9,595.8	27.6	16.9	-90.61	205.3	125.0	856.0	812.0	44.02	19.445	
9,800.0	9,695.8	9,715.1	9,695.8	27.7	16.9	-90.61	205.3	125.0	856.0	811.9	44.13	19.398	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,900.0	9,795.8	9,815.1	9,795.8	27.7	17.0	-90.61	205.3	125.0	856.0	811.8	44.24	19.351	
10,000.0	9,895.8	9,915.1	9,895.8	27.7	17.1	-90.61	205.3	125.0	856.0	811.7	44.35	19.304	
10,100.0	9,995.8	10,015.1	9,995.8	27.8	17.2	-90.61	205.3	125.0	856.0	811.6	44.45	19.257	
10,200.0	10,095.8	10,115.1	10,095.8	27.8	17.3	-90.61	205.3	125.0	856.0	811.5	44.56	19.210	
10,300.0	10,195.8	10,215.1	10,195.8	27.9	17.3	-90.61	205.3	125.0	856.0	811.4	44.67	19.163	
10,400.0	10,295.8	10,315.1	10,295.8	27.9	17.4	-90.61	205.3	125.0	856.0	811.3	44.78	19.117	
10,500.0	10,395.8	10,415.1	10,395.8	27.9	17.5	-90.61	205.3	125.0	856.0	811.2	44.89	19.070	
10,600.0	10,495.8	10,515.1	10,495.8	28.0	17.6	-90.61	205.3	125.0	856.0	811.0	45.00	19.024	
10,700.0	10,595.8	10,615.1	10,595.8	28.0	17.7	-90.61	205.3	125.0	856.0	810.9	45.11	18.977	
10,800.0	10,695.8	10,715.1	10,695.8	28.1	17.7	-90.61	205.3	125.0	856.0	810.8	45.22	18.931	
10,900.0	10,795.8	10,815.1	10,795.8	28.1	17.8	-90.61	205.3	125.0	856.0	810.7	45.33	18.885	
11,000.0	10,895.8	10,915.1	10,895.8	28.1	17.9	-90.61	205.3	125.0	856.0	810.6	45.44	18.839	
11,100.0	10,995.8	11,015.1	10,995.8	28.2	18.0	-90.61	205.3	125.0	856.0	810.5	45.55	18.793	
11,200.0	11,095.8	11,115.1	11,095.8	28.2	18.1	-90.61	205.3	125.0	856.0	810.4	45.66	18.747	
11,300.0	11,195.8	11,215.1	11,195.8	28.3	18.1	-90.61	205.3	125.0	856.0	810.3	45.77	18.701	
11,400.0	11,295.8	11,315.1	11,295.8	28.3	18.2	-90.61	205.3	125.0	856.0	810.2	45.89	18.656	
11,500.0	11,395.8	11,415.1	11,395.8	28.4	18.3	-90.61	205.3	125.0	856.0	810.0	46.00	18.610	
11,600.0	11,495.8	11,515.1	11,495.8	28.4	18.4	-90.61	205.3	125.0	856.0	809.9	46.11	18.565	
11,700.0	11,595.8	11,615.1	11,595.8	28.4	18.4	-90.61	205.3	125.0	856.0	809.8	46.22	18.519	
11,800.0	11,695.8	11,715.1	11,695.8	28.5	18.5	-90.61	205.3	125.0	856.0	809.7	46.33	18.475	
11,810.7	11,706.5	11,725.8	11,706.5	28.5	18.5	-90.61	205.3	125.0	856.0	809.7	46.34	18.473	
11,825.0	11,720.8	11,740.0	11,720.7	28.5	18.5	89.74	205.1	125.0	856.0	809.7	46.34	18.472	
11,850.0	11,745.7	11,764.7	11,745.4	28.5	18.5	89.74	203.7	125.0	856.0	809.7	46.33	18.476	
11,875.0	11,770.6	11,789.5	11,770.1	28.4	18.5	89.74	201.1	125.0	856.0	809.7	46.32	18.482	
11,900.0	11,795.3	11,814.3	11,794.6	28.4	18.4	89.74	197.1	125.1	856.0	809.7	46.30	18.488	
11,925.0	11,819.7	11,839.1	11,818.8	28.4	18.4	89.74	191.9	125.1	856.0	809.8	46.28	18.495	
11,950.0	11,843.8	11,863.9	11,842.7	28.4	18.3	89.75	185.5	125.1	856.0	809.8	46.27	18.503	
11,975.0	11,867.6	11,888.8	11,866.3	28.3	18.3	89.75	177.8	125.2	856.0	809.8	46.25	18.511	
12,000.0	11,890.9	11,913.6	11,889.5	28.3	18.2	89.76	168.9	125.2	856.0	809.8	46.23	18.519	
12,025.0	11,913.7	11,938.4	11,912.1	28.3	18.2	89.76	158.8	125.3	856.0	809.8	46.20	18.527	
12,050.0	11,935.9	11,963.2	11,934.2	28.3	18.1	89.77	147.5	125.4	856.0	809.9	46.18	18.536	
12,075.0	11,957.5	11,988.0	11,955.7	28.2	18.1	89.78	135.1	125.4	856.0	809.9	46.16	18.544	
12,100.0	11,978.4	12,012.8	11,976.6	28.2	18.0	89.78	121.6	125.5	856.0	809.9	46.14	18.552	
12,125.0	11,998.6	12,037.7	11,996.7	28.2	18.0	89.79	107.0	125.6	856.0	809.9	46.13	18.559	
12,150.0	12,017.9	12,062.5	12,016.0	28.2	17.9	89.80	91.4	125.7	856.0	809.9	46.11	18.566	
12,175.0	12,036.5	12,087.4	12,034.5	28.2	17.9	89.81	74.8	125.8	856.0	809.9	46.09	18.572	
12,200.0	12,054.1	12,112.2	12,052.1	28.2	17.9	89.82	57.3	125.9	856.0	810.0	46.08	18.577	
12,225.0	12,070.7	12,137.1	12,068.8	28.1	17.8	89.83	38.9	126.0	856.0	810.0	46.07	18.581	
12,250.0	12,086.4	12,162.0	12,084.5	28.1	17.8	89.84	19.6	126.1	856.0	810.0	46.07	18.583	
12,275.0	12,101.0	12,186.8	12,099.2	28.1	17.8	89.85	-0.5	126.3	856.0	810.0	46.06	18.584	
12,300.0	12,114.5	12,211.7	12,112.8	28.1	17.8	89.86	-21.3	126.4	856.0	810.0	46.07	18.583	
12,325.0	12,127.0	12,236.6	12,125.3	28.1	17.7	89.87	-42.9	126.5	856.0	810.0	46.07	18.580	
12,350.0	12,138.2	12,261.5	12,136.7	28.1	17.7	89.89	-65.0	126.7	856.0	810.0	46.09	18.575	
12,375.0	12,148.3	12,286.4	12,146.9	28.1	17.7	89.90	-87.7	126.8	856.0	809.9	46.10	18.568	
12,400.0	12,157.2	12,311.4	12,155.9	28.1	17.7	89.91	-111.0	126.9	856.0	809.9	46.13	18.559	
12,425.0	12,164.8	12,336.3	12,163.7	28.1	17.7	89.93	-134.6	127.1	856.0	809.9	46.15	18.548	
12,450.0	12,171.2	12,361.2	12,170.3	28.2	17.7	89.94	-158.7	127.2	856.0	809.8	46.19	18.534	
12,475.0	12,176.3	12,386.2	12,175.6	28.2	17.7	89.95	-183.1	127.4	856.0	809.8	46.23	18.518	
12,500.0	12,180.1	12,411.2	12,179.6	28.2	17.8	89.97	-207.7	127.5	856.0	809.8	46.27	18.499	
12,525.0	12,182.6	12,436.1	12,182.3	28.2	17.8	89.98	-232.6	127.7	856.0	809.7	46.33	18.479	
12,550.0	12,183.8	12,461.1	12,183.7	28.2	17.8	89.99	-257.5	127.8	856.0	809.7	46.38	18.456	

CC - Min centre to center distance or covergent 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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,560.7	12,184.0	12,471.8	12,183.9	28.3	17.8	90.00	-268.2	127.9	856.0	809.6	46.41	18.445	
12,600.0	12,184.0	12,511.1	12,184.0	28.3	17.9	90.00	-307.5	128.1	856.0	809.5	46.51	18.404	
12,700.0	12,184.0	12,611.1	12,184.0	28.5	18.0	90.00	-407.5	128.8	856.0	809.2	46.85	18.272	
12,800.0	12,184.0	12,711.1	12,184.0	28.6	18.2	90.00	-507.5	129.4	856.0	808.8	47.26	18.114	
12,900.0	12,184.0	12,811.1	12,184.0	28.9	18.5	90.00	-607.5	130.0	856.0	808.3	47.74	17.930	
13,000.0	12,184.0	12,911.1	12,184.0	29.1	18.8	90.00	-707.5	130.6	856.0	807.7	48.30	17.725	
13,100.0	12,184.0	13,011.1	12,184.0	29.4	19.1	90.00	-807.5	131.2	856.0	807.1	48.92	17.499	
13,200.0	12,184.0	13,111.1	12,184.0	29.7	19.5	90.00	-907.5	131.8	856.0	806.4	49.61	17.257	
13,300.0	12,184.0	13,211.1	12,184.0	30.0	20.0	90.00	-1,007.5	132.4	856.0	805.7	50.36	17.000	
13,400.0	12,184.0	13,311.1	12,184.0	30.4	20.5	90.00	-1,107.5	133.1	856.0	804.9	51.17	16.730	
13,500.0	12,184.0	13,411.1	12,184.0	30.8	21.0	90.00	-1,207.5	133.7	856.0	804.0	52.03	16.451	
13,600.0	12,184.0	13,511.1	12,184.0	31.2	21.6	90.00	-1,307.5	134.3	856.0	803.1	52.96	16.165	
13,700.0	12,184.0	13,611.1	12,184.0	31.6	22.2	90.00	-1,407.5	134.9	856.0	802.1	53.93	15.873	
13,800.0	12,184.0	13,711.1	12,184.0	32.1	22.8	90.00	-1,507.5	135.5	856.0	801.1	54.95	15.578	
13,900.0	12,184.0	13,811.1	12,184.0	32.6	23.4	90.00	-1,607.5	136.1	856.0	800.0	56.02	15.280	
14,000.0	12,184.0	13,911.1	12,184.0	33.1	24.1	90.00	-1,707.5	136.7	856.0	798.9	57.13	14.983	
14,100.0	12,184.0	14,011.1	12,184.0	33.6	24.8	90.00	-1,807.5	137.4	856.0	797.7	58.29	14.686	
14,200.0	12,184.0	14,111.1	12,184.0	34.1	25.5	90.00	-1,907.5	138.0	856.0	796.5	59.48	14.392	
14,300.0	12,184.0	14,211.1	12,184.0	34.7	26.2	90.00	-2,007.5	138.6	856.0	795.3	60.71	14.101	
14,400.0	12,184.0	14,311.1	12,184.0	35.2	26.9	90.00	-2,107.5	139.2	856.0	794.1	61.97	13.813	
14,500.0	12,184.0	14,411.1	12,184.0	35.8	27.7	90.00	-2,207.5	139.8	856.0	792.8	63.27	13.531	
14,600.0	12,184.0	14,511.1	12,184.0	36.4	28.4	90.00	-2,307.5	140.4	856.0	791.4	64.59	13.253	
14,700.0	12,184.0	14,611.1	12,184.0	37.0	29.2	90.00	-2,407.5	141.0	856.0	790.1	65.94	12.981	
14,800.0	12,184.0	14,711.1	12,184.0	37.7	30.0	90.00	-2,507.5	141.6	856.0	788.7	67.32	12.715	
14,900.0	12,184.0	14,811.1	12,184.0	38.3	30.8	90.00	-2,607.5	142.3	856.0	787.3	68.73	12.455	
15,000.0	12,184.0	14,911.1	12,184.0	39.0	31.6	90.00	-2,707.4	142.9	856.0	785.9	70.16	12.202	
15,100.0	12,184.0	15,011.1	12,184.0	39.6	32.4	90.00	-2,807.4	143.5	856.0	784.4	71.61	11.954	
15,200.0	12,184.0	15,111.1	12,184.0	40.3	33.3	90.00	-2,907.4	144.1	856.0	782.9	73.08	11.714	
15,300.0	12,184.0	15,211.1	12,184.0	41.0	34.1	90.00	-3,007.4	144.7	856.0	781.5	74.57	11.480	
15,400.0	12,184.0	15,311.1	12,184.0	41.7	34.9	90.00	-3,107.4	145.3	856.0	779.9	76.08	11.252	
15,500.0	12,184.0	15,411.1	12,184.0	42.4	35.8	90.00	-3,207.4	145.9	856.0	778.4	77.60	11.031	
15,600.0	12,184.0	15,511.1	12,184.0	43.2	36.6	90.00	-3,307.4	146.6	856.0	776.9	79.15	10.816	
15,700.0	12,184.0	15,611.1	12,184.0	43.9	37.5	90.00	-3,407.4	147.2	856.0	775.3	80.70	10.607	
15,800.0	12,184.0	15,711.1	12,184.0	44.6	38.3	90.00	-3,507.4	147.8	856.0	773.7	82.28	10.404	
15,900.0	12,184.0	15,811.1	12,184.0	45.4	39.2	90.00	-3,607.4	148.4	856.0	772.2	83.86	10.207	
16,000.0	12,184.0	15,911.1	12,184.0	46.1	40.1	90.00	-3,707.4	149.0	856.0	770.6	85.46	10.016	
16,100.0	12,184.0	16,011.1	12,184.0	46.9	41.0	90.00	-3,807.4	149.6	856.0	768.9	87.07	9.831	
16,200.0	12,184.0	16,111.1	12,184.0	47.7	41.8	90.00	-3,907.4	150.2	856.0	767.3	88.69	9.651	
16,300.0	12,184.0	16,211.1	12,184.0	48.4	42.7	90.00	-4,007.4	150.9	856.0	765.7	90.33	9.477	
16,400.0	12,184.0	16,311.1	12,184.0	49.2	43.6	90.00	-4,107.4	151.5	856.0	764.0	91.97	9.307	
16,500.0	12,184.0	16,411.1	12,184.0	50.0	44.5	90.00	-4,207.4	152.1	856.0	762.4	93.63	9.143	
16,600.0	12,184.0	16,511.1	12,184.0	50.8	45.4	90.00	-4,307.4	152.7	856.0	760.7	95.29	8.983	
16,700.0	12,184.0	16,611.1	12,184.0	51.6	46.3	90.00	-4,407.4	153.3	856.0	759.1	96.96	8.829	
16,800.0	12,184.0	16,711.1	12,184.0	52.4	47.2	90.00	-4,507.4	153.9	856.0	757.4	98.64	8.678	
16,900.0	12,184.0	16,811.1	12,184.0	53.2	48.1	90.00	-4,607.4	154.5	856.0	755.7	100.33	8.532	
17,000.0	12,184.0	16,911.1	12,184.0	54.1	49.0	90.00	-4,707.4	155.1	856.0	754.0	102.02	8.391	
17,100.0	12,184.0	17,011.1	12,184.0	54.9	49.9	90.00	-4,807.4	155.8	856.0	752.3	103.72	8.253	
17,200.0	12,184.0	17,111.1	12,184.0	55.7	50.8	90.00	-4,907.4	156.4	856.0	750.6	105.43	8.119	
17,300.0	12,184.0	17,211.1	12,184.0	56.5	51.7	90.00	-5,007.4	157.0	856.0	748.9	107.15	7.989	
17,400.0	12,184.0	17,311.1	12,184.0	57.4	52.6	90.00	-5,107.4	157.6	856.0	747.1	108.87	7.863	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
17,500.0	12,184.0	17,411.1	12,184.0	58.2	53.5	90.00	-5,207.4	158.2	856.0	745.4	110.60	7.740	
17,600.0	12,184.0	17,511.1	12,184.0	59.1	54.4	90.00	-5,307.4	158.8	856.0	743.7	112.33	7.621	
17,700.0	12,184.0	17,611.1	12,184.0	59.9	55.4	90.00	-5,407.4	159.4	856.0	741.9	114.07	7.504	
17,800.0	12,184.0	17,711.1	12,184.0	60.8	56.3	90.00	-5,507.4	160.1	856.0	740.2	115.81	7.391	
17,900.0	12,184.0	17,811.1	12,184.0	61.6	57.2	90.00	-5,607.4	160.7	856.0	738.4	117.56	7.281	
18,000.0	12,184.0	17,911.1	12,184.0	62.5	58.1	90.00	-5,707.4	161.3	856.0	736.7	119.31	7.174	
18,100.0	12,184.0	18,011.1	12,184.0	63.3	59.0	90.00	-5,807.4	161.9	856.0	734.9	121.07	7.070	
18,200.0	12,184.0	18,111.1	12,184.0	64.2	60.0	90.00	-5,907.4	162.5	856.0	733.2	122.83	6.969	
18,300.0	12,184.0	18,211.1	12,184.0	65.1	60.9	90.00	-6,007.4	163.1	856.0	731.4	124.60	6.870	
18,400.0	12,184.0	18,311.1	12,184.0	65.9	61.8	90.00	-6,107.4	163.7	856.0	729.6	126.37	6.774	
18,500.0	12,184.0	18,411.1	12,184.0	66.8	62.7	90.00	-6,207.4	164.4	856.0	727.9	128.14	6.680	
18,600.0	12,184.0	18,511.1	12,184.0	67.7	63.7	90.00	-6,307.4	165.0	856.0	726.1	129.92	6.589	
18,700.0	12,184.0	18,611.1	12,184.0	68.5	64.6	90.00	-6,407.4	165.6	856.0	724.3	131.70	6.500	
18,800.0	12,184.0	18,711.1	12,184.0	69.4	65.5	90.00	-6,507.4	166.2	856.0	722.5	133.48	6.413	
18,900.0	12,184.0	18,811.1	12,184.0	70.3	66.5	90.00	-6,607.4	166.8	856.0	720.7	135.27	6.328	
19,000.0	12,184.0	18,911.1	12,184.0	71.2	67.4	90.00	-6,707.4	167.4	856.0	718.9	137.06	6.246	
19,100.0	12,184.0	19,011.1	12,184.0	72.1	68.3	90.00	-6,807.4	168.0	856.0	717.1	138.85	6.165	
19,200.0	12,184.0	19,111.1	12,184.0	73.0	69.3	90.00	-6,907.4	168.6	856.0	715.4	140.65	6.086	
19,300.0	12,184.0	19,211.1	12,184.0	73.8	70.2	90.00	-7,007.4	169.3	856.0	713.6	142.44	6.009	
19,400.0	12,184.0	19,311.1	12,184.0	74.7	71.1	90.00	-7,107.4	169.9	856.0	711.8	144.25	5.934	
19,504.3	12,184.0	19,415.4	12,184.0	75.7	72.1	90.00	-7,211.6	170.5	856.0	709.9	146.13	5.858	
19,507.7	12,184.0	19,417.2	12,184.0	75.7	72.1	90.00	-7,213.5	170.5	856.0	709.8	146.16	5.856 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 2632 PROJECT - _ZIA HILLS UNIT 2632 WC 710H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.48	-0.7	-89.9	89.9	89.4	0.48	187.475	
100.0	100.0	100.0	100.0	1.2	1.2	-90.48	-0.7	-89.9	89.9	87.0	2.87	31.353	
200.0	200.0	200.0	200.0	1.7	1.7	-90.48	-0.7	-89.9	89.9	86.0	3.86	23.265	
300.0	300.0	300.0	300.0	2.1	2.1	-90.48	-0.7	-89.9	89.9	85.3	4.63	19.399	
400.0	400.0	400.0	400.0	2.4	2.4	-90.48	-0.7	-89.9	89.9	84.6	5.29	17.001	
500.0	500.0	500.0	500.0	2.7	2.7	-90.48	-0.7	-89.9	89.9	84.0	5.87	15.322	
600.0	600.0	600.0	600.0	3.0	3.0	-90.48	-0.7	-89.9	89.9	83.5	6.39	14.058	
700.0	700.0	700.0	700.0	3.2	3.2	-90.48	-0.7	-89.9	89.9	83.0	6.88	13.061	
800.0	800.0	800.0	800.0	3.5	3.5	-90.48	-0.7	-89.9	89.9	82.5	7.34	12.248	
900.0	900.0	900.0	900.0	3.7	3.7	-90.48	-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	-90.48	-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	-90.48	-0.7	-89.9	89.9	81.3	8.58	10.481	CC, ES
1,200.0	1,200.0	1,197.7	1,197.7	4.4	4.4	-167.63	0.4	-91.1	92.8	83.7	9.11	10.190	SF
1,300.0	1,299.8	1,294.9	1,294.7	4.7	4.7	-166.28	3.8	-94.7	101.7	92.0	9.63	10.555	
1,400.0	1,399.5	1,390.9	1,390.4	5.0	5.0	-164.48	9.4	-100.6	116.4	106.3	10.16	11.455	
1,500.0	1,498.7	1,485.5	1,484.3	5.3	5.3	-162.59	17.1	-108.7	137.1	126.4	10.71	12.804	
1,600.0	1,597.5	1,578.0	1,575.7	5.7	5.7	-160.84	26.6	-118.8	163.7	152.4	11.29	14.493	
1,700.0	1,695.6	1,671.3	1,667.6	6.0	6.0	-159.38	37.8	-130.6	195.3	183.5	11.85	16.480	
1,737.2	1,731.9	1,706.2	1,702.0	6.1	6.1	-159.00	42.0	-135.1	208.0	196.0	12.01	17.312	
1,800.0	1,793.2	1,765.2	1,760.1	6.3	6.2	-158.63	49.2	-142.7	229.7	217.4	12.31	18.659	
1,900.0	1,890.7	1,859.0	1,852.4	6.6	6.5	-158.16	60.6	-154.7	264.3	251.4	12.85	20.565	
2,000.0	1,988.3	1,952.8	1,944.7	7.0	6.8	-157.81	72.0	-166.7	298.8	285.4	13.42	22.274	
2,100.0	2,085.8	2,046.6	2,037.1	7.3	7.1	-157.52	83.3	-178.7	333.4	319.4	14.01	23.804	
2,200.0	2,183.4	2,140.4	2,129.4	7.7	7.5	-157.29	94.7	-190.8	368.0	353.4	14.62	25.176	
2,300.0	2,280.9	2,234.3	2,221.8	8.1	7.8	-157.10	106.1	-202.8	402.6	387.4	15.25	26.407	
2,400.0	2,378.4	2,328.1	2,314.1	8.5	8.2	-156.94	117.5	-214.8	437.2	421.3	15.89	27.514	
2,500.0	2,476.0	2,421.9	2,406.4	8.9	8.5	-156.81	128.9	-226.8	471.8	455.3	16.55	28.508	
2,600.0	2,573.5	2,516.5	2,499.6	9.3	8.9	-156.69	140.3	-239.0	506.4	489.2	17.23	29.388	
2,700.0	2,671.0	2,618.4	2,600.1	9.7	9.3	-156.64	152.0	-251.2	540.2	522.2	17.97	30.067	
2,800.0	2,768.6	2,721.4	2,701.9	10.1	9.7	-156.71	162.5	-262.3	572.6	553.8	18.71	30.597	
2,900.0	2,866.1	2,825.4	2,805.0	10.5	10.1	-156.88	171.8	-272.2	603.5	584.0	19.46	31.008	
3,000.0	2,963.7	2,930.4	2,909.4	11.0	10.5	-157.12	179.9	-280.7	633.0	612.7	20.21	31.317	
3,100.0	3,061.2	3,036.2	3,014.8	11.4	10.9	-157.45	186.7	-287.9	661.0	640.0	20.96	31.539	
3,200.0	3,158.7	3,143.0	3,121.2	11.8	11.2	-157.84	192.2	-293.8	687.5	665.9	21.70	31.688	
3,300.0	3,256.3	3,250.5	3,228.5	12.3	11.6	-158.30	196.4	-298.2	712.7	690.2	22.43	31.777	
3,400.0	3,353.8	3,358.7	3,336.6	12.7	11.9	-158.82	199.2	-301.2	736.3	713.2	23.14	31.820	
3,500.0	3,451.3	3,467.5	3,445.5	13.2	12.2	-159.40	200.7	-302.7	758.5	734.7	23.82	31.841	
3,600.0	3,548.9	3,570.9	3,548.9	13.6	12.3	-159.99	200.9	-302.9	779.4	755.0	24.38	31.964	
3,700.0	3,646.4	3,668.5	3,646.4	14.1	12.4	-160.53	200.9	-302.9	800.2	775.3	24.91	32.124	
3,800.0	3,743.9	3,766.0	3,743.9	14.5	12.5	-161.04	200.9	-302.9	821.1	795.7	25.45	32.265	
3,900.0	3,841.5	3,863.6	3,841.5	15.0	12.6	-161.52	200.9	-302.9	842.1	816.1	26.00	32.392	
4,000.0	3,939.0	3,961.1	3,939.0	15.4	12.6	-161.99	200.9	-302.9	863.1	836.5	26.55	32.506	
4,100.0	4,036.6	4,058.6	4,036.6	15.9	12.7	-162.43	200.9	-302.9	884.1	857.0	27.11	32.608	
4,200.0	4,134.1	4,156.2	4,134.1	16.4	12.8	-162.85	200.9	-302.9	905.2	877.5	27.68	32.700	
4,300.0	4,231.6	4,253.7	4,231.6	16.8	12.8	-163.25	200.9	-302.9	926.4	898.1	28.26	32.782	
4,400.0	4,329.2	4,351.2	4,329.2	17.3	12.9	-163.63	200.9	-302.9	947.5	918.7	28.84	32.856	
4,500.0	4,426.7	4,448.8	4,426.7	17.8	13.0	-164.00	200.9	-302.9	968.8	939.3	29.43	32.923	
4,600.0	4,524.2	4,546.3	4,524.2	18.2	13.1	-164.35	200.9	-302.9	990.0	960.0	30.02	32.982	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.38	-0.2	-30.0	30.0	29.5	0.48	62.572	
100.0	100.0	100.0	100.0	1.2	1.2	-90.38	-0.2	-30.0	30.0	27.1	2.87	10.465	
200.0	200.0	200.0	200.0	1.7	1.7	-90.38	-0.2	-30.0	30.0	26.1	3.86	7.765	
300.0	300.0	300.0	300.0	2.1	2.1	-90.38	-0.2	-30.0	30.0	25.4	4.63	6.475	
400.0	400.0	400.0	400.0	2.4	2.4	-90.38	-0.2	-30.0	30.0	24.7	5.29	5.674	
500.0	500.0	500.0	500.0	2.7	2.7	-90.38	-0.2	-30.0	30.0	24.1	5.87	5.114	
600.0	600.0	600.0	600.0	3.0	3.0	-90.38	-0.2	-30.0	30.0	23.6	6.39	4.692	
700.0	700.0	700.0	700.0	3.2	3.2	-90.38	-0.2	-30.0	30.0	23.1	6.88	4.359	
800.0	800.0	800.0	800.0	3.5	3.5	-90.38	-0.2	-30.0	30.0	22.7	7.34	4.088	
900.0	900.0	900.0	900.0	3.7	3.7	-90.38	-0.2	-30.0	30.0	22.2	7.77	3.860	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-90.38	-0.2	-30.0	30.0	21.8	8.18	3.666	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	-90.38	-0.2	-30.0	30.0	21.4	8.58	3.498	
1,200.0	1,200.0	1,201.3	1,201.3	4.4	4.5	-167.25	0.6	-27.8	29.5	20.3	9.25	3.193	
1,300.0	1,299.8	1,302.5	1,302.2	4.7	4.9	-164.69	3.0	-21.2	28.2	18.3	9.87	2.852	Normal Operations
1,400.0	1,399.5	1,403.6	1,402.6	5.0	5.3	-159.86	6.9	-10.2	26.0	15.6	10.44	2.491	Caution - Monitor Closely
1,497.9	1,496.6	1,501.7	1,499.6	5.3	5.5	-153.71	11.8	3.4	24.5	13.7	10.78	2.269	Caution - Monitor Closely, CC
1,500.0	1,498.7	1,503.8	1,501.7	5.3	5.5	-153.60	11.9	3.7	24.5	13.7	10.79	2.267	Caution - Monitor Closely, ES, SF
1,600.0	1,597.5	1,603.8	1,600.6	5.7	5.7	-150.60	17.0	17.7	26.1	14.9	11.27	2.319	Caution - Monitor Closely
1,700.0	1,695.6	1,703.7	1,699.4	6.0	6.0	-151.38	22.1	31.8	30.9	19.0	11.85	2.605	Normal Operations
1,737.2	1,731.9	1,740.7	1,736.0	6.1	6.1	-152.32	23.9	37.0	33.4	21.4	12.05	2.775	Normal Operations
1,800.0	1,793.2	1,803.4	1,798.0	6.3	6.3	-153.94	27.1	45.8	38.1	25.7	12.40	3.074	
1,900.0	1,890.7	1,903.1	1,896.6	6.6	6.6	-155.82	32.1	59.8	45.6	32.6	13.04	3.500	
2,000.0	1,988.3	2,002.8	1,995.1	7.0	7.0	-157.17	37.2	73.7	53.2	39.5	13.70	3.883	
2,100.0	2,085.8	2,102.5	2,093.7	7.3	7.3	-158.18	42.2	87.7	60.7	46.4	14.37	4.226	
2,200.0	2,183.4	2,202.2	2,192.3	7.7	7.6	-158.97	47.3	101.7	68.3	53.3	15.07	4.534	
2,300.0	2,280.9	2,301.9	2,290.9	8.1	8.0	-159.60	52.3	115.7	75.9	60.1	15.79	4.810	
2,400.0	2,378.4	2,401.6	2,389.5	8.5	8.4	-160.12	57.4	129.7	83.5	67.0	16.52	5.057	
2,500.0	2,476.0	2,501.3	2,488.1	8.9	8.7	-160.54	62.4	143.7	91.1	73.9	17.26	5.280	
2,600.0	2,573.5	2,601.1	2,586.7	9.3	9.1	-160.91	67.4	157.7	98.7	80.7	18.02	5.481	
2,700.0	2,671.0	2,700.8	2,685.3	9.7	9.5	-161.22	72.5	171.7	106.4	87.6	18.78	5.663	
2,800.0	2,768.6	2,800.5	2,783.9	10.1	9.9	-161.49	77.5	185.7	114.0	94.4	19.56	5.828	
2,900.0	2,866.1	2,900.2	2,882.5	10.5	10.3	-161.73	82.6	199.7	121.6	101.3	20.34	5.977	
3,000.0	2,963.7	2,999.9	2,981.1	11.0	10.7	-161.93	87.6	213.7	129.2	108.1	21.13	6.114	
3,100.0	3,061.2	3,099.6	3,079.7	11.4	11.1	-162.12	92.7	227.7	136.8	114.9	21.93	6.239	
3,200.0	3,158.7	3,199.3	3,178.3	11.8	11.5	-162.29	97.7	241.7	144.5	121.7	22.74	6.353	
3,300.0	3,256.3	3,299.0	3,276.8	12.3	11.9	-162.43	102.8	255.7	152.1	128.5	23.55	6.458	
3,400.0	3,353.8	3,398.7	3,375.4	12.7	12.3	-162.57	107.8	269.7	159.7	135.3	24.36	6.555	
3,500.0	3,451.3	3,498.4	3,474.0	13.2	12.7	-162.69	112.8	283.7	167.3	142.2	25.18	6.644	
3,600.0	3,548.9	3,598.1	3,572.6	13.6	13.1	-162.80	117.9	297.7	175.0	149.0	26.01	6.727	
3,700.0	3,646.4	3,697.8	3,671.2	14.1	13.5	-162.91	122.9	311.7	182.6	155.8	26.84	6.804	
3,800.0	3,743.9	3,797.5	3,769.8	14.5	13.9	-163.00	128.0	325.7	190.2	162.6	27.67	6.875	
3,900.0	3,841.5	3,897.3	3,868.4	15.0	14.3	-163.09	133.0	339.6	197.9	169.4	28.50	6.942	
4,000.0	3,939.0	3,997.0	3,967.0	15.4	14.8	-163.17	138.1	353.6	205.5	176.1	29.34	7.004	
4,100.0	4,036.6	4,096.7	4,065.6	15.9	15.2	-163.24	143.1	367.6	213.1	182.9	30.18	7.062	
4,200.0	4,134.1	4,196.4	4,164.2	16.4	15.6	-163.31	148.1	381.6	220.7	189.7	31.02	7.116	
4,300.0	4,231.6	4,296.1	4,262.8	16.8	16.0	-163.38	153.2	395.6	228.4	196.5	31.86	7.167	
4,400.0	4,329.2	4,395.8	4,361.4	17.3	16.4	-163.44	158.2	409.6	236.0	203.3	32.71	7.215	
4,500.0	4,426.7	4,495.5	4,459.9	17.8	16.9	-163.49	163.3	423.6	243.6	210.1	33.56	7.261	
4,600.0	4,524.2	4,595.2	4,558.5	18.2	17.3	-163.55	168.3	437.6	251.3	216.9	34.40	7.303	
4,700.0	4,621.8	4,694.9	4,657.1	18.7	17.7	-163.60	173.4	451.6	258.9	223.6	35.26	7.343	
4,800.0	4,719.3	4,794.6	4,755.7	19.1	18.1	-163.65	178.4	465.6	266.5	230.4	36.11	7.381	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,900.0	4,816.9	4,894.3	4,854.3	19.6	18.6	-163.69	183.4	479.6	274.2	237.2	36.96	7.417	
5,000.0	4,914.4	4,994.0	4,952.9	20.1	19.0	-163.73	188.5	493.6	281.8	244.0	37.82	7.452	
5,100.0	5,011.9	5,093.5	5,051.2	20.5	19.4	-163.77	193.5	507.5	289.4	250.8	38.66	7.486	
5,200.0	5,109.5	5,187.3	5,144.2	21.0	19.8	-163.89	197.9	519.7	298.1	258.6	39.50	7.548	
5,300.0	5,207.0	5,280.8	5,237.0	21.5	20.2	-164.16	201.6	529.9	308.8	268.5	40.32	7.659	
5,329.9	5,236.2	5,308.7	5,264.7	21.6	20.3	-164.26	202.5	532.6	312.4	271.8	40.55	7.703	
5,400.0	5,304.6	5,373.9	5,329.7	21.9	20.6	-164.54	204.6	538.2	321.0	279.9	41.10	7.810	
5,500.0	5,402.6	5,466.6	5,422.2	22.4	20.9	-164.97	206.9	544.7	333.6	291.7	41.87	7.967	
5,600.0	5,500.9	5,559.1	5,514.5	22.9	21.2	-165.43	208.6	549.3	346.4	303.9	42.59	8.134	
5,700.0	5,599.5	5,651.3	5,606.7	23.3	21.5	-165.90	209.6	552.1	359.6	316.3	43.26	8.313	
5,800.0	5,698.4	5,744.6	5,700.0	23.7	21.7	-166.40	209.9	553.0	373.0	329.2	43.85	8.507	
5,900.0	5,797.6	5,842.2	5,797.6	24.2	21.7	-166.88	209.9	553.0	385.8	341.4	44.35	8.698	
6,000.0	5,896.9	5,941.6	5,896.9	24.6	21.8	-167.28	209.9	553.0	396.9	352.0	44.87	8.845	
6,100.0	5,996.4	6,041.1	5,996.4	25.0	21.8	-167.60	209.9	553.0	406.3	361.0	45.37	8.956	
6,200.0	6,096.1	6,140.8	6,096.1	25.3	21.9	-167.85	209.9	553.0	414.1	368.2	45.84	9.033	
6,300.0	6,195.9	6,240.6	6,195.9	25.7	21.9	-168.04	209.9	553.0	420.1	373.8	46.28	9.078	
6,400.0	6,295.8	6,340.5	6,295.8	26.0	21.9	-168.17	209.9	553.0	424.5	377.8	46.69	9.092	
6,500.0	6,395.8	6,440.4	6,395.8	26.3	22.0	-168.25	209.9	553.0	427.1	380.0	47.05	9.078	
6,604.2	6,500.0	6,544.6	6,500.0	26.5	22.0	-90.62	209.9	553.0	428.0	380.8	47.27	9.055	
6,700.0	6,595.8	6,640.4	6,595.8	26.5	22.1	-90.62	209.9	553.0	428.0	380.7	47.34	9.042	
6,800.0	6,695.8	6,740.4	6,695.8	26.5	22.1	-90.62	209.9	553.0	428.0	380.6	47.41	9.027	
6,900.0	6,795.8	6,840.4	6,795.8	26.6	22.2	-90.62	209.9	553.0	428.0	380.5	47.49	9.013	
7,000.0	6,895.8	6,940.4	6,895.8	26.6	22.2	-90.62	209.9	553.0	428.0	380.5	47.57	8.998	
7,100.0	6,995.8	7,040.4	6,995.8	26.7	22.3	-90.62	209.9	553.0	428.0	380.4	47.65	8.983	
7,200.0	7,095.8	7,140.4	7,095.8	26.7	22.3	-90.62	209.9	553.0	428.0	380.3	47.73	8.968	
7,300.0	7,195.8	7,240.4	7,195.8	26.7	22.3	-90.62	209.9	553.0	428.0	380.2	47.80	8.954	
7,400.0	7,295.8	7,340.4	7,295.8	26.8	22.4	-90.62	209.9	553.0	428.0	380.1	47.88	8.939	
7,500.0	7,395.8	7,440.4	7,395.8	26.8	22.4	-90.62	209.9	553.0	428.0	380.1	47.96	8.924	
7,600.0	7,495.8	7,540.4	7,495.8	26.8	22.5	-90.62	209.9	553.0	428.0	380.0	48.04	8.909	
7,700.0	7,595.8	7,640.4	7,595.8	26.9	22.5	-90.62	209.9	553.0	428.0	379.9	48.12	8.894	
7,800.0	7,695.8	7,740.4	7,695.8	26.9	22.6	-90.62	209.9	553.0	428.0	379.8	48.20	8.879	
7,900.0	7,795.8	7,840.4	7,795.8	26.9	22.6	-90.62	209.9	553.0	428.0	379.7	48.29	8.864	
8,000.0	7,895.8	7,940.4	7,895.8	27.0	22.7	-90.62	209.9	553.0	428.0	379.7	48.37	8.849	
8,100.0	7,995.8	8,040.4	7,995.8	27.0	22.7	-90.62	209.9	553.0	428.0	379.6	48.45	8.834	
8,200.0	8,095.8	8,140.4	8,095.8	27.0	22.8	-90.62	209.9	553.0	428.0	379.5	48.53	8.819	
8,300.0	8,195.8	8,240.4	8,195.8	27.1	22.8	-90.62	209.9	553.0	428.0	379.4	48.62	8.804	
8,400.0	8,295.8	8,340.4	8,295.8	27.1	22.9	-90.62	209.9	553.0	428.0	379.3	48.70	8.789	
8,500.0	8,395.8	8,440.4	8,395.8	27.2	22.9	-90.62	209.9	553.0	428.0	379.2	48.78	8.774	
8,600.0	8,495.8	8,540.4	8,495.8	27.2	22.9	-90.62	209.9	553.0	428.0	379.2	48.87	8.759	
8,700.0	8,595.8	8,640.4	8,595.8	27.2	23.0	-90.62	209.9	553.0	428.0	379.1	48.95	8.744	
8,800.0	8,695.8	8,740.4	8,695.8	27.3	23.0	-90.62	209.9	553.0	428.0	379.0	49.04	8.729	
8,900.0	8,795.8	8,840.4	8,795.8	27.3	23.1	-90.62	209.9	553.0	428.0	378.9	49.12	8.714	
9,000.0	8,895.8	8,940.4	8,895.8	27.3	23.1	-90.62	209.9	553.0	428.0	378.8	49.21	8.699	
9,100.0	8,995.8	9,040.4	8,995.8	27.4	23.2	-90.62	209.9	553.0	428.0	378.7	49.29	8.683	
9,200.0	9,095.8	9,140.4	9,095.8	27.4	23.2	-90.62	209.9	553.0	428.0	378.6	49.38	8.668	
9,300.0	9,195.8	9,240.4	9,195.8	27.5	23.3	-90.62	209.9	553.0	428.0	378.6	49.47	8.653	
9,400.0	9,295.8	9,340.4	9,295.8	27.5	23.3	-90.62	209.9	553.0	428.0	378.5	49.55	8.638	
9,500.0	9,395.8	9,440.4	9,395.8	27.5	23.4	-90.62	209.9	553.0	428.0	378.4	49.64	8.623	
9,600.0	9,495.8	9,540.4	9,495.8	27.6	23.4	-90.62	209.9	553.0	428.0	378.3	49.73	8.607	
9,700.0	9,595.8	9,640.4	9,595.8	27.6	23.5	-90.62	209.9	553.0	428.0	378.2	49.82	8.592	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,800.0	9,695.8	9,740.4	9,695.8	27.7	23.5	-90.62	209.9	553.0	428.0	378.1	49.90	8.577	
9,900.0	9,795.8	9,840.4	9,795.8	27.7	23.6	-90.62	209.9	553.0	428.0	378.0	49.99	8.562	
10,000.0	9,895.8	9,940.4	9,895.8	27.7	23.6	-90.62	209.9	553.0	428.0	377.9	50.08	8.546	
10,100.0	9,995.8	10,040.4	9,995.8	27.8	23.7	-90.62	209.9	553.0	428.0	377.9	50.17	8.531	
10,200.0	10,095.8	10,140.4	10,095.8	27.8	23.7	-90.62	209.9	553.0	428.0	377.8	50.26	8.516	
10,300.0	10,195.8	10,240.4	10,195.8	27.9	23.8	-90.62	209.9	553.0	428.0	377.7	50.35	8.500	
10,400.0	10,295.8	10,340.4	10,295.8	27.9	23.8	-90.62	209.9	553.0	428.0	377.6	50.44	8.485	
10,500.0	10,395.8	10,440.4	10,395.8	27.9	23.9	-90.62	209.9	553.0	428.0	377.5	50.53	8.470	
10,600.0	10,495.8	10,540.4	10,495.8	28.0	23.9	-90.62	209.9	553.0	428.0	377.4	50.63	8.455	
10,700.0	10,595.8	10,640.4	10,595.8	28.0	24.0	-90.62	209.9	553.0	428.0	377.3	50.72	8.439	
10,800.0	10,695.8	10,740.4	10,695.8	28.1	24.0	-90.62	209.9	553.0	428.0	377.2	50.81	8.424	
10,900.0	10,795.8	10,840.4	10,795.8	28.1	24.1	-90.62	209.9	553.0	428.0	377.1	50.90	8.409	
11,000.0	10,895.8	10,940.4	10,895.8	28.1	24.1	-90.62	209.9	553.0	428.0	377.0	51.00	8.393	
11,100.0	10,995.8	11,040.4	10,995.8	28.2	24.2	-90.62	209.9	553.0	428.0	376.9	51.09	8.378	
11,200.0	11,095.8	11,140.4	11,095.8	28.2	24.2	-90.62	209.9	553.0	428.0	376.8	51.18	8.363	
11,300.0	11,195.8	11,240.4	11,195.8	28.3	24.3	-90.62	209.9	553.0	428.0	376.7	51.28	8.347	
11,400.0	11,295.8	11,340.4	11,295.8	28.3	24.4	-90.62	209.9	553.0	428.0	376.7	51.37	8.332	
11,500.0	11,395.8	11,440.4	11,395.8	28.4	24.4	-90.62	209.9	553.0	428.0	376.6	51.46	8.317	
11,600.0	11,495.8	11,540.4	11,495.8	28.4	24.5	-90.62	209.9	553.0	428.0	376.5	51.56	8.302	
11,700.0	11,595.8	11,640.4	11,595.8	28.4	24.5	-90.62	209.9	553.0	428.0	376.4	51.65	8.286	
11,800.0	11,695.8	11,740.4	11,695.8	28.5	24.6	-90.62	209.9	553.0	428.0	376.3	51.75	8.271	
11,810.7	11,706.5	11,751.1	11,706.5	28.5	24.6	-90.62	209.9	553.0	428.0	376.3	51.76	8.270	
11,825.0	11,720.8	11,765.4	11,720.8	28.5	24.6	89.76	209.9	553.0	428.0	376.3	51.76	8.269	
11,850.0	11,745.7	11,790.4	11,745.7	28.5	24.6	89.95	209.9	553.0	428.0	376.3	51.74	8.272	
11,854.1	11,749.9	11,794.5	11,749.9	28.5	24.6	90.00	209.9	553.0	428.0	376.3	51.74	8.273	
11,875.0	11,770.6	11,815.2	11,770.6	28.4	24.6	90.31	209.9	553.0	428.0	376.3	51.70	8.279	
11,900.0	11,795.3	11,839.9	11,795.3	28.4	24.6	90.84	209.9	553.0	428.1	376.4	51.63	8.291	
11,925.0	11,819.7	11,864.3	11,819.7	28.4	24.6	91.51	209.9	553.0	428.2	376.6	51.54	8.308	
11,950.0	11,843.8	11,888.5	11,843.8	28.4	24.6	92.33	209.9	553.0	428.4	377.0	51.41	8.333	
11,975.0	11,867.6	11,912.2	11,867.6	28.3	24.7	93.27	209.9	553.0	428.8	377.6	51.26	8.366	
12,000.0	11,890.9	11,935.6	11,891.0	28.3	24.7	94.33	209.9	553.0	429.5	378.4	51.06	8.410	
12,025.0	11,913.7	11,960.8	11,916.2	28.3	24.6	95.50	209.2	553.0	430.3	379.5	50.88	8.458	
12,050.0	11,935.9	11,986.6	11,941.8	28.3	24.6	96.68	207.0	553.0	431.4	380.7	50.71	8.509	
12,075.0	11,957.5	12,013.0	11,968.0	28.2	24.6	97.84	203.4	553.0	432.7	382.2	50.55	8.560	
12,100.0	11,978.4	12,040.0	11,994.5	28.2	24.5	99.00	198.2	553.1	434.2	383.8	50.42	8.612	
12,125.0	11,998.6	12,067.7	12,021.3	28.2	24.5	100.15	191.3	553.1	435.9	385.6	50.32	8.662	
12,150.0	12,017.9	12,096.2	12,048.4	28.2	24.5	101.28	182.7	553.2	437.7	387.5	50.26	8.710	
12,175.0	12,036.5	12,125.4	12,075.7	28.2	24.4	102.39	172.1	553.2	439.7	389.4	50.24	8.752	
12,200.0	12,054.1	12,155.4	12,102.9	28.2	24.4	103.48	159.5	553.3	441.8	391.5	50.26	8.789	
12,225.0	12,070.7	12,186.3	12,130.1	28.1	24.3	104.54	144.9	553.4	443.9	393.6	50.35	8.818	
12,250.0	12,086.4	12,218.0	12,156.9	28.1	24.3	105.58	128.0	553.5	446.2	395.7	50.49	8.837	
12,275.0	12,101.0	12,250.6	12,183.3	28.1	24.2	106.57	108.8	553.6	448.4	397.7	50.69	8.846	
12,300.0	12,114.5	12,284.2	12,209.0	28.1	24.2	107.53	87.3	553.8	450.7	399.7	50.96	8.844	
12,325.0	12,127.0	12,318.6	12,233.7	28.1	24.2	108.43	63.3	553.9	452.9	401.6	51.29	8.830	
12,350.0	12,138.2	12,354.0	12,257.3	28.1	24.1	109.28	36.9	554.1	455.1	403.4	51.68	8.805	
12,375.0	12,148.3	12,390.2	12,279.3	28.1	24.1	110.07	8.1	554.2	457.1	405.0	52.13	8.769	
12,400.0	12,157.2	12,427.3	12,299.6	28.1	24.1	110.78	-23.0	554.4	459.0	406.4	52.61	8.724	
12,425.0	12,164.8	12,465.3	12,317.7	28.1	24.1	111.42	-56.3	554.6	460.7	407.6	53.13	8.671	
12,450.0	12,171.2	12,503.9	12,333.3	28.2	24.1	111.96	-91.6	554.8	462.2	408.5	53.67	8.612	
12,475.0	12,176.3	12,543.2	12,346.3	28.2	24.1	112.41	-128.6	555.1	463.4	409.2	54.21	8.549	
12,500.0	12,180.1	12,583.0	12,356.3	28.2	24.1	112.76	-167.1	555.3	464.4	409.7	54.73	8.485	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,525.0	12,182.6	12,623.1	12,363.1	28.2	24.2	113.00	-206.7	555.6	465.1	409.8	55.23	8.421	
12,550.0	12,183.8	12,663.6	12,366.5	28.2	24.2	113.13	-247.0	555.8	465.4	409.8	55.68	8.359	
12,560.7	12,184.0	12,680.9	12,367.0	28.3	24.2	113.15	-264.4	555.9	465.5	409.6	55.85	8.334	
12,600.0	12,184.0	12,721.5	12,367.0	28.3	24.3	113.15	-304.9	556.2	465.5	409.4	56.12	8.294	
12,700.0	12,184.0	12,821.5	12,367.0	28.5	24.5	113.15	-404.9	556.8	465.5	408.7	56.81	8.194	
12,800.0	12,184.0	12,921.5	12,367.0	28.6	24.7	113.15	-504.9	557.4	465.5	407.9	57.55	8.088	
12,900.0	12,184.0	13,021.5	12,367.0	28.9	24.9	113.15	-604.9	558.0	465.5	407.2	58.34	7.979	
13,000.0	12,184.0	13,121.5	12,367.0	29.1	25.2	113.15	-704.9	558.6	465.5	406.3	59.18	7.866	
13,100.0	12,184.0	13,221.5	12,367.0	29.4	25.5	113.15	-804.9	559.2	465.5	405.4	60.06	7.751	
13,200.0	12,184.0	13,321.5	12,367.0	29.7	25.8	113.15	-904.9	559.8	465.5	404.5	60.98	7.633	
13,300.0	12,184.0	13,421.5	12,367.0	30.0	26.2	113.15	-1,004.9	560.5	465.5	403.5	61.95	7.514	
13,400.0	12,184.0	13,521.5	12,367.0	30.4	26.6	113.15	-1,104.9	561.1	465.5	402.5	62.96	7.394	
13,500.0	12,184.0	13,621.5	12,367.0	30.8	27.0	113.15	-1,204.8	561.7	465.5	401.5	64.01	7.273	
13,600.0	12,184.0	13,721.5	12,367.0	31.2	27.5	113.15	-1,304.8	562.3	465.5	400.4	65.09	7.152	
13,700.0	12,184.0	13,821.5	12,367.0	31.6	27.9	113.15	-1,404.8	562.9	465.5	399.3	66.20	7.031	
13,800.0	12,184.0	13,921.5	12,367.0	32.1	28.4	113.15	-1,504.8	563.5	465.5	398.1	67.35	6.911	
13,900.0	12,184.0	14,021.5	12,367.0	32.6	29.0	113.15	-1,604.8	564.1	465.5	397.0	68.53	6.792	
14,000.0	12,184.0	14,121.5	12,367.0	33.1	29.5	113.15	-1,704.8	564.7	465.5	395.8	69.74	6.675	
14,100.0	12,184.0	14,221.5	12,367.0	33.6	30.1	113.15	-1,804.8	565.4	465.5	394.5	70.98	6.558	
14,200.0	12,184.0	14,321.5	12,367.0	34.1	30.7	113.15	-1,904.8	566.0	465.5	393.3	72.24	6.444	
14,300.0	12,184.0	14,421.5	12,367.0	34.7	31.3	113.15	-2,004.8	566.6	465.5	392.0	73.53	6.331	
14,400.0	12,184.0	14,521.5	12,367.0	35.2	31.9	113.15	-2,104.8	567.2	465.5	390.7	74.84	6.220	
14,500.0	12,184.0	14,621.5	12,367.0	35.8	32.5	113.15	-2,204.8	567.8	465.5	389.3	76.17	6.111	
14,600.0	12,184.0	14,721.5	12,367.0	36.4	33.2	113.15	-2,304.8	568.4	465.5	388.0	77.53	6.004	
14,700.0	12,184.0	14,821.5	12,367.0	37.0	33.8	113.15	-2,404.8	569.0	465.5	386.6	78.91	5.899	
14,800.0	12,184.0	14,921.5	12,367.0	37.7	34.5	113.15	-2,504.8	569.7	465.5	385.2	80.30	5.797	
14,900.0	12,184.0	15,021.5	12,367.0	38.3	35.2	113.15	-2,604.8	570.3	465.5	383.8	81.72	5.697	
15,000.0	12,184.0	15,121.5	12,367.0	39.0	35.9	113.15	-2,704.8	570.9	465.5	382.3	83.15	5.598	
15,100.0	12,184.0	15,221.5	12,367.0	39.6	36.6	113.15	-2,804.8	571.5	465.5	380.9	84.59	5.503	
15,200.0	12,184.0	15,321.5	12,367.0	40.3	37.4	113.15	-2,904.8	572.1	465.5	379.4	86.06	5.409	
15,300.0	12,184.0	15,421.5	12,367.0	41.0	38.1	113.15	-3,004.8	572.7	465.5	378.0	87.53	5.318	
15,400.0	12,184.0	15,521.5	12,367.0	41.7	38.9	113.15	-3,104.8	573.3	465.5	376.5	89.02	5.229	
15,500.0	12,184.0	15,621.5	12,367.0	42.4	39.6	113.15	-3,204.8	573.9	465.5	375.0	90.53	5.142	
15,600.0	12,184.0	15,721.5	12,367.0	43.2	40.4	113.15	-3,304.8	574.6	465.5	373.4	92.05	5.057	
15,700.0	12,184.0	15,821.5	12,367.0	43.9	41.2	113.15	-3,404.8	575.2	465.5	371.9	93.58	4.974	
15,800.0	12,184.0	15,921.5	12,367.0	44.6	42.0	113.15	-3,504.8	575.8	465.5	370.4	95.12	4.894	
15,900.0	12,184.0	16,021.5	12,367.0	45.4	42.7	113.15	-3,604.8	576.4	465.5	368.8	96.67	4.815	
16,000.0	12,184.0	16,121.5	12,367.0	46.1	43.5	113.15	-3,704.8	577.0	465.5	367.3	98.23	4.739	
16,100.0	12,184.0	16,221.5	12,367.0	46.9	44.3	113.15	-3,804.8	577.6	465.5	365.7	99.80	4.664	
16,200.0	12,184.0	16,321.5	12,367.0	47.7	45.2	113.15	-3,904.8	578.2	465.5	364.1	101.39	4.591	
16,300.0	12,184.0	16,421.5	12,367.0	48.4	46.0	113.15	-4,004.8	578.9	465.5	362.5	102.98	4.520	
16,400.0	12,184.0	16,521.5	12,367.0	49.2	46.8	113.15	-4,104.8	579.5	465.5	360.9	104.58	4.451	
16,500.0	12,184.0	16,621.5	12,367.0	50.0	47.6	113.15	-4,204.8	580.1	465.5	359.3	106.18	4.384	
16,600.0	12,184.0	16,721.5	12,367.0	50.8	48.5	113.15	-4,304.8	580.7	465.5	357.7	107.80	4.318	
16,700.0	12,184.0	16,821.5	12,367.0	51.6	49.3	113.15	-4,404.8	581.3	465.5	356.1	109.42	4.254	
16,800.0	12,184.0	16,921.5	12,367.0	52.4	50.1	113.15	-4,504.8	581.9	465.5	354.4	111.05	4.192	
16,900.0	12,184.0	17,021.5	12,367.0	53.2	51.0	113.15	-4,604.8	582.5	465.5	352.8	112.69	4.131	
17,000.0	12,184.0	17,121.5	12,367.0	54.1	51.8	113.15	-4,704.8	583.1	465.5	351.2	114.33	4.071	
17,100.0	12,184.0	17,221.5	12,367.0	54.9	52.7	113.15	-4,804.8	583.8	465.5	349.5	115.98	4.013	
17,200.0	12,184.0	17,321.5	12,367.0	55.7	53.6	113.15	-4,904.8	584.4	465.5	347.8	117.64	3.957	

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 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,300.0	12,184.0	17,421.5	12,367.0	56.5	54.4	113.15	-5,004.8	585.0	465.5	346.2	119.30	3.902	
17,400.0	12,184.0	17,521.5	12,367.0	57.4	55.3	113.15	-5,104.8	585.6	465.5	344.5	120.97	3.848	
17,500.0	12,184.0	17,621.5	12,367.0	58.2	56.2	113.15	-5,204.8	586.2	465.5	342.8	122.64	3.796	
17,600.0	12,184.0	17,721.5	12,367.0	59.1	57.0	113.15	-5,304.8	586.8	465.5	341.2	124.32	3.744	
17,700.0	12,184.0	17,821.5	12,367.0	59.9	57.9	113.15	-5,404.8	587.4	465.5	339.5	126.00	3.694	
17,800.0	12,184.0	17,921.5	12,367.0	60.8	58.8	113.15	-5,504.8	588.1	465.5	337.8	127.68	3.646	
17,900.0	12,184.0	18,021.5	12,367.0	61.6	59.7	113.15	-5,604.8	588.7	465.5	336.1	129.38	3.598	
18,000.0	12,184.0	18,121.5	12,367.0	62.5	60.5	113.15	-5,704.8	589.3	465.5	334.4	131.07	3.551	
18,100.0	12,184.0	18,221.5	12,367.0	63.3	61.4	113.15	-5,804.8	589.9	465.5	332.7	132.77	3.506	
18,200.0	12,184.0	18,321.5	12,367.0	64.2	62.3	113.15	-5,904.8	590.5	465.5	331.0	134.48	3.461	
18,300.0	12,184.0	18,421.5	12,367.0	65.1	63.2	113.15	-6,004.8	591.1	465.5	329.3	136.18	3.418	
18,400.0	12,184.0	18,521.5	12,367.0	65.9	64.1	113.15	-6,104.8	591.7	465.5	327.6	137.89	3.376	
18,500.0	12,184.0	18,621.5	12,367.0	66.8	65.0	113.15	-6,204.8	592.3	465.5	325.9	139.61	3.334	
18,600.0	12,184.0	18,721.5	12,367.0	67.7	65.9	113.15	-6,304.8	593.0	465.5	324.2	141.33	3.294	
18,700.0	12,184.0	18,821.5	12,367.0	68.5	66.8	113.15	-6,404.8	593.6	465.5	322.4	143.05	3.254	
18,800.0	12,184.0	18,921.5	12,367.0	69.4	67.7	113.15	-6,504.7	594.2	465.5	320.7	144.77	3.215	
18,900.0	12,184.0	19,021.5	12,367.0	70.3	68.6	113.15	-6,604.7	594.8	465.5	319.0	146.50	3.177	
19,000.0	12,184.0	19,121.5	12,367.0	71.2	69.5	113.15	-6,704.7	595.4	465.5	317.2	148.23	3.140	
19,100.0	12,184.0	19,221.5	12,367.0	72.1	70.4	113.15	-6,804.7	596.0	465.5	315.5	149.97	3.104	
19,200.0	12,184.0	19,321.5	12,367.0	73.0	71.3	113.15	-6,904.7	596.6	465.5	313.8	151.70	3.068	
19,300.0	12,184.0	19,421.5	12,367.0	73.8	72.2	113.15	-7,004.7	597.3	465.5	312.0	153.44	3.034	
19,400.0	12,184.0	19,521.5	12,367.0	74.7	73.1	113.15	-7,104.7	597.9	465.5	310.3	155.18	3.000	Normal Operations
19,504.5	12,184.0	19,625.9	12,367.0	75.7	74.1	113.15	-7,209.2	598.5	465.5	308.5	157.01	2.965	Normal Operations
19,507.7	12,184.0	19,628.4	12,367.0	75.7	74.1	113.15	-7,211.6	598.5	465.5	308.4	157.04	2.964	Normal Operations

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 - WILDER-FEDERAL #26 (P&A) - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 500-INC ONLY

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
3,100.0	3,061.2	3,067.1	3,065.2	11.4	92.1	67.25	-733.1	944.2	999.1	869.7	129.44	7.718	
3,200.0	3,158.7	3,164.6	3,162.7	11.8	95.0	68.40	-733.1	944.2	990.6	857.1	133.53	7.418	
3,300.0	3,256.3	3,261.8	3,259.9	12.3	97.9	69.53	-732.0	944.2	981.6	844.0	137.60	7.134	
3,400.0	3,353.8	3,356.6	3,354.7	12.7	100.7	70.69	-732.2	944.2	974.1	832.5	141.58	6.880	
3,500.0	3,451.3	3,451.4	3,449.5	13.2	103.6	71.88	-732.7	944.2	967.3	821.8	145.55	6.646	
3,600.0	3,548.9	3,555.1	3,552.9	13.6	106.7	73.19	-733.1	944.2	960.9	811.0	149.89	6.411	
3,700.0	3,646.4	3,652.6	3,650.4	14.1	109.6	74.42	-733.1	944.2	954.6	800.6	153.98	6.200	
3,800.0	3,743.9	3,750.1	3,747.8	14.5	112.5	75.59	-729.8	944.2	945.9	787.8	158.06	5.984	
3,900.0	3,841.5	3,839.9	3,837.5	15.0	115.2	76.77	-730.2	944.2	940.9	779.1	161.82	5.815	
4,000.0	3,939.0	3,929.5	3,927.2	15.4	117.9	77.98	-731.5	944.2	937.3	771.7	165.56	5.661	
4,100.0	4,036.6	4,043.1	4,040.6	15.9	121.3	79.52	-733.1	944.2	934.2	763.9	170.33	5.485	
4,200.0	4,134.1	4,140.6	4,138.1	16.4	124.3	80.82	-733.1	944.2	930.4	755.9	174.42	5.334	
4,300.0	4,231.6	4,238.2	4,235.6	16.8	127.2	82.14	-733.1	944.2	927.0	748.5	178.51	5.193	
4,400.0	4,329.2	4,333.2	4,330.6	17.3	130.0	83.40	-732.1	944.2	923.3	740.8	182.49	5.059	
4,500.0	4,426.7	4,427.8	4,425.3	17.8	132.9	84.70	-732.5	944.2	921.4	734.9	186.45	4.942	
4,600.0	4,524.2	4,531.1	4,528.3	18.2	136.0	86.12	-733.1	944.2	920.1	729.3	190.79	4.823	
4,700.0	4,621.8	4,628.7	4,625.8	18.7	138.9	87.46	-733.1	944.2	918.8	723.9	194.88	4.715	
4,800.0	4,719.3	4,726.2	4,723.3	19.1	141.8	88.80	-733.1	944.2	918.1	719.1	198.97	4.614	
4,889.2	4,806.4	4,813.2	4,810.4	19.6	144.4	90.00	-733.1	944.2	917.9	715.2	202.62	4.530 CC	
4,900.0	4,816.9	4,823.7	4,820.9	19.6	144.7	90.14	-733.1	944.2	917.9	714.8	203.06	4.520	
5,000.0	4,914.4	4,921.3	4,918.4	20.1	147.7	91.49	-733.1	944.2	918.2	711.0	207.16	4.432	
5,100.0	5,011.9	5,000.0	4,996.8	20.5	150.0	92.57	-733.1	944.2	919.2	708.8	210.42	4.369 ES, SF	
5,200.0	5,109.5	5,000.0	4,996.8	21.0	150.0	92.57	-733.1	944.2	927.8	718.9	208.83	4.443	
5,300.0	5,207.0	5,000.0	4,996.8	21.5	150.0	92.57	-733.1	944.2	946.9	741.8	205.10	4.617	
5,329.9	5,236.2	5,000.0	4,996.8	21.6	150.0	92.57	-733.1	944.2	954.5	750.9	203.62	4.688	
5,400.0	5,304.6	5,000.0	4,996.8	21.9	150.0	92.79	-733.1	944.2	975.9	776.3	199.59	4.889	

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

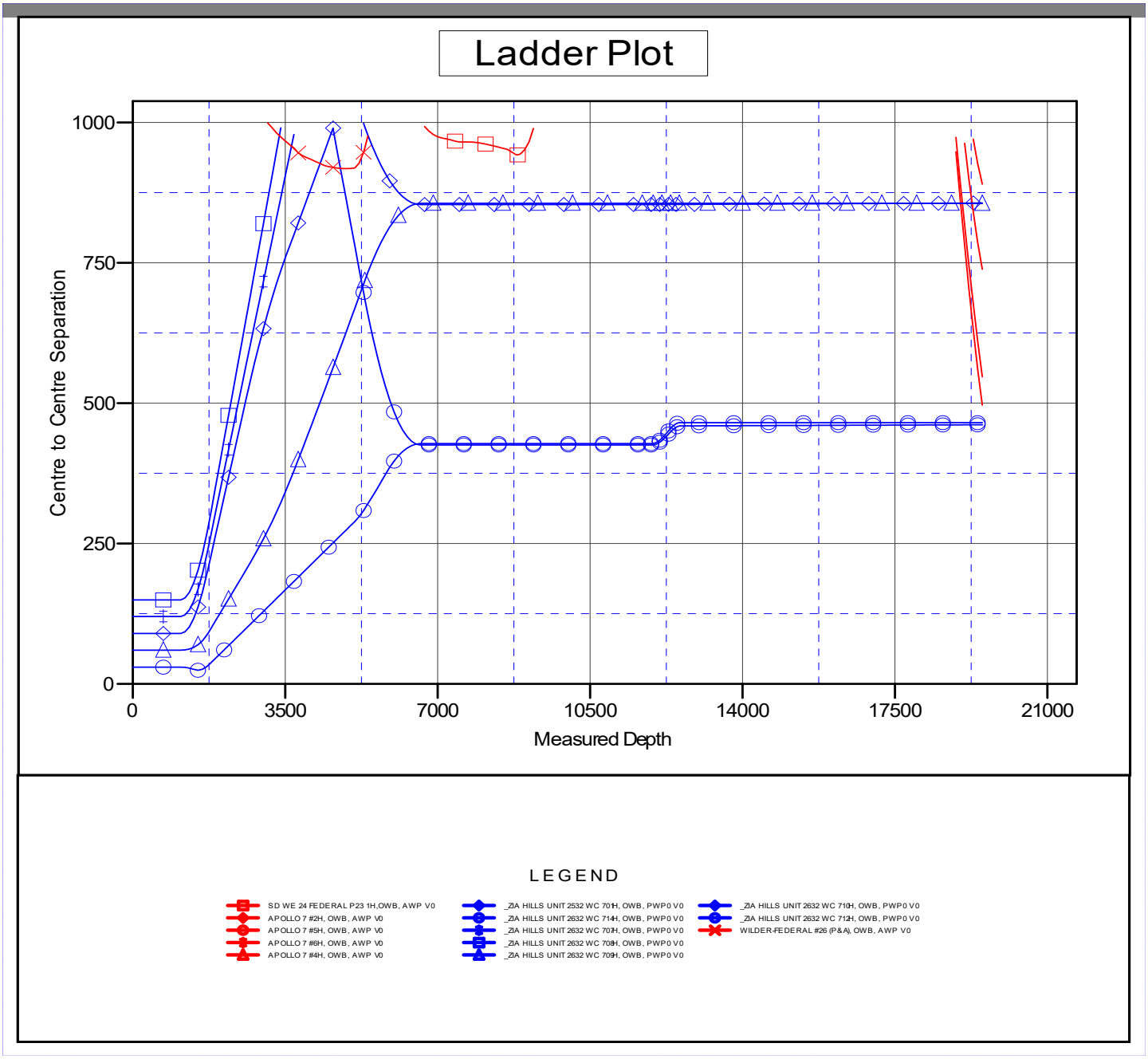
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 711H - 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 covergent point, SF - min separation factor, ES - min ellipse separation

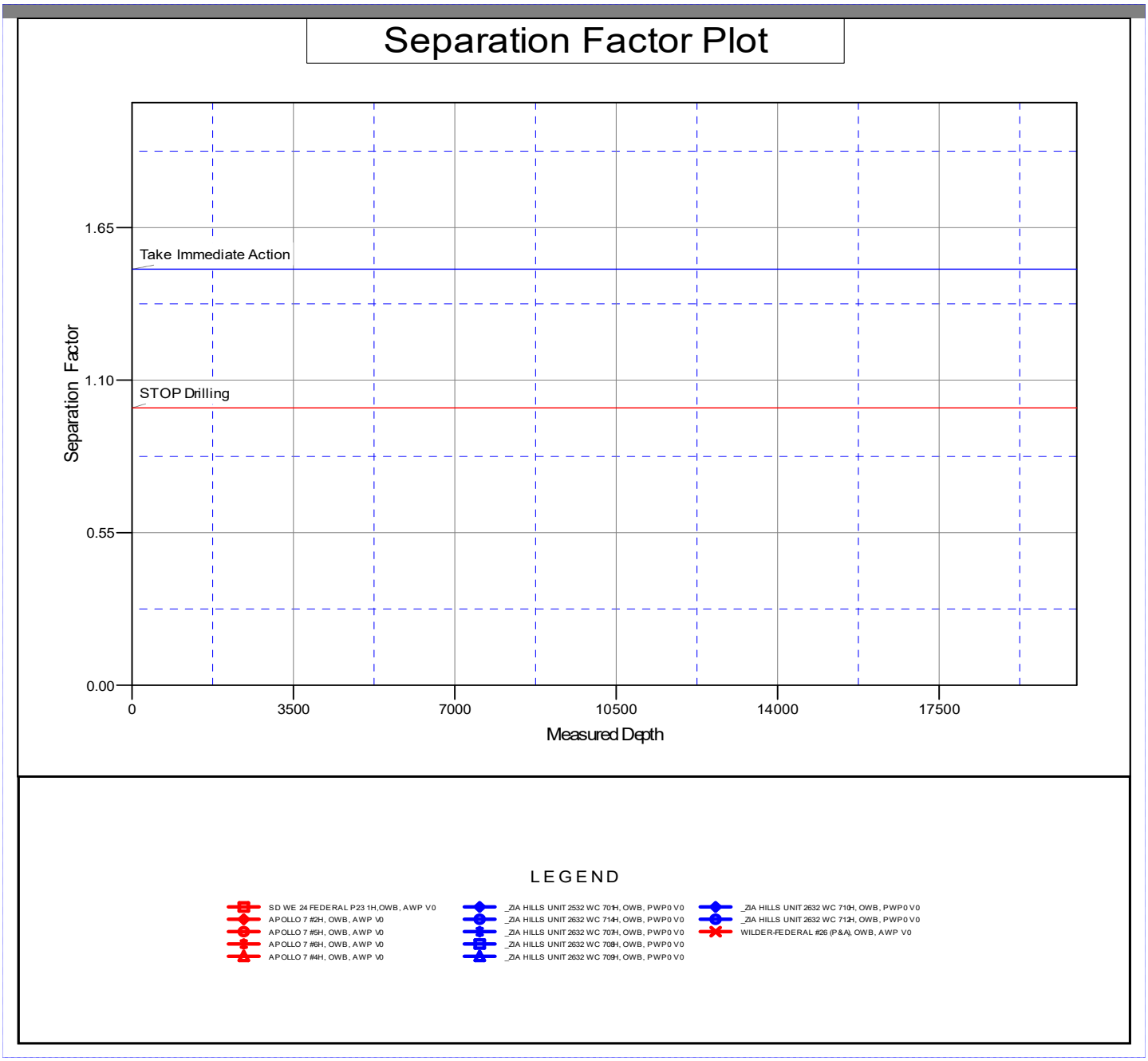
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2632 WC 711H - Slot ZIA HILLS UNIT2632 WC 711H
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 711H	**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 711H - Slot ZIA HILLS UN
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.37°



COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

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

Flare Lines will be from both Choke Manifold & Separator to edge of location.

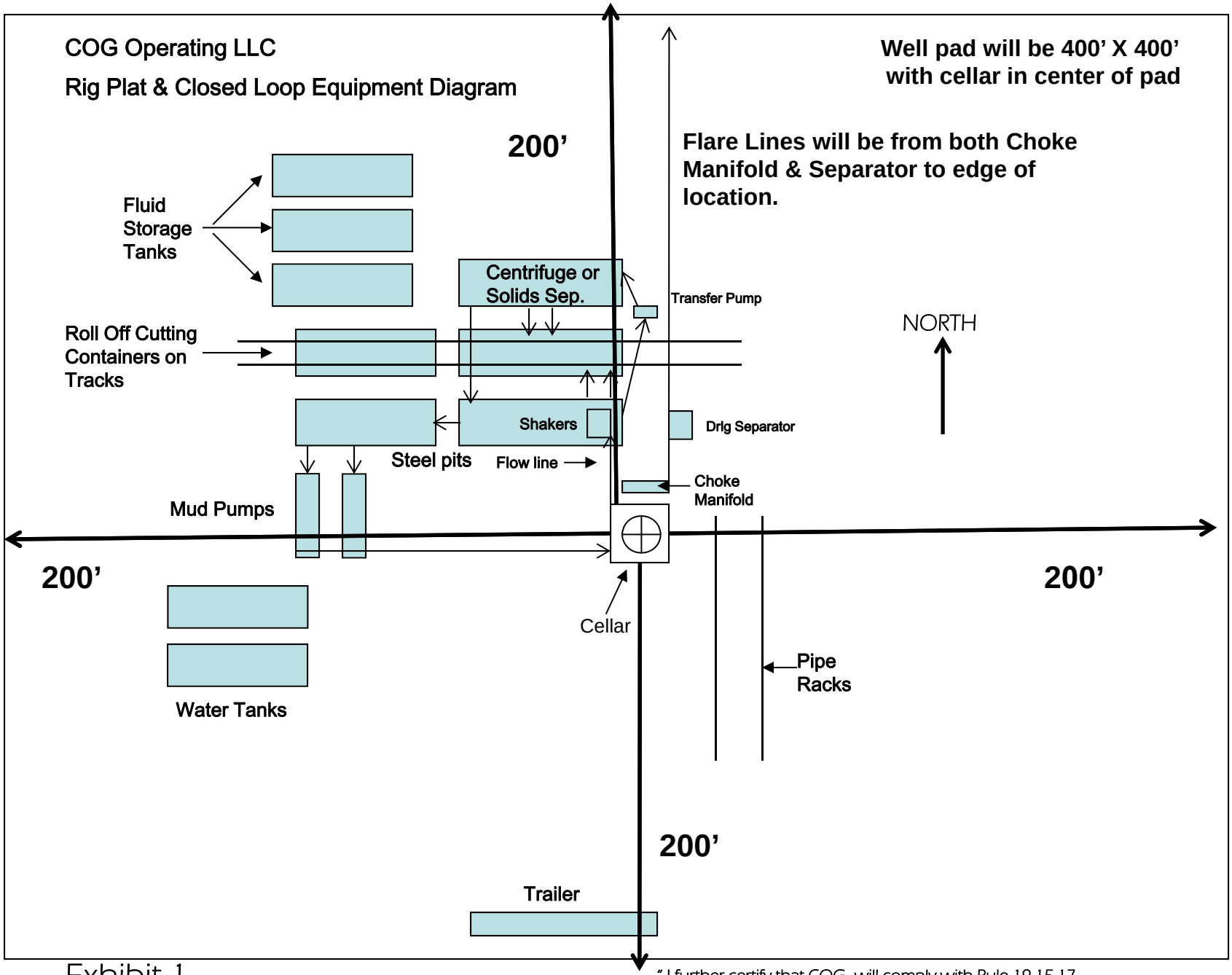


Exhibit 1

" 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

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 FWL	± 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:	Stan Wagner
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

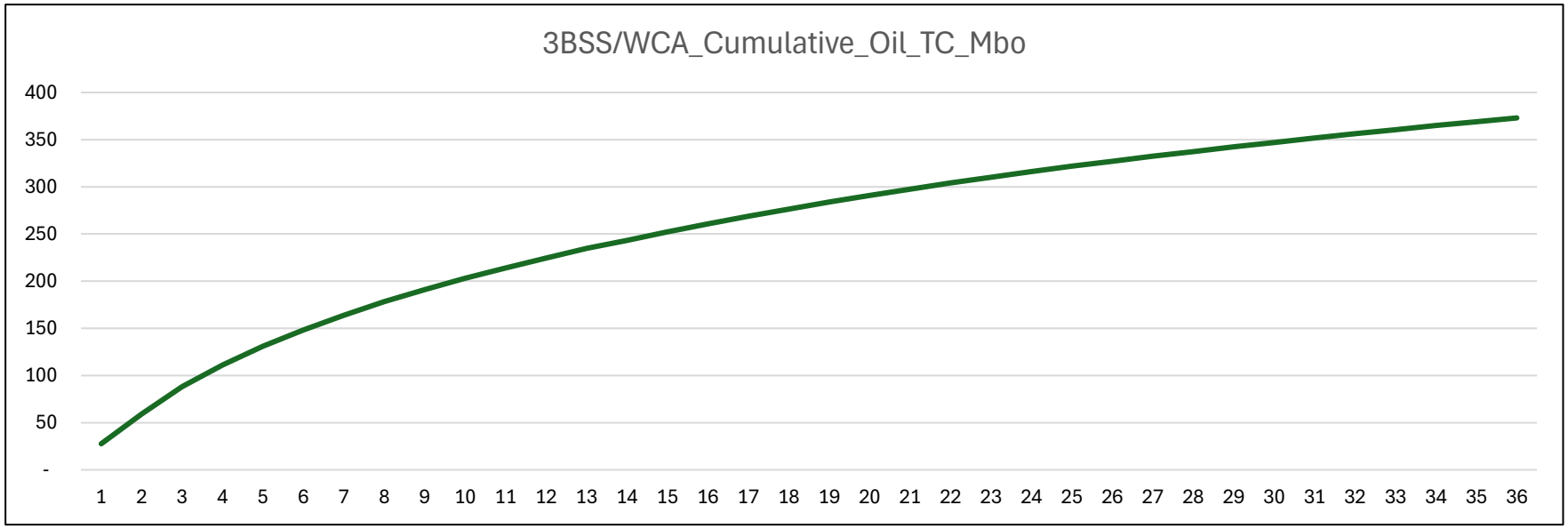
(3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.

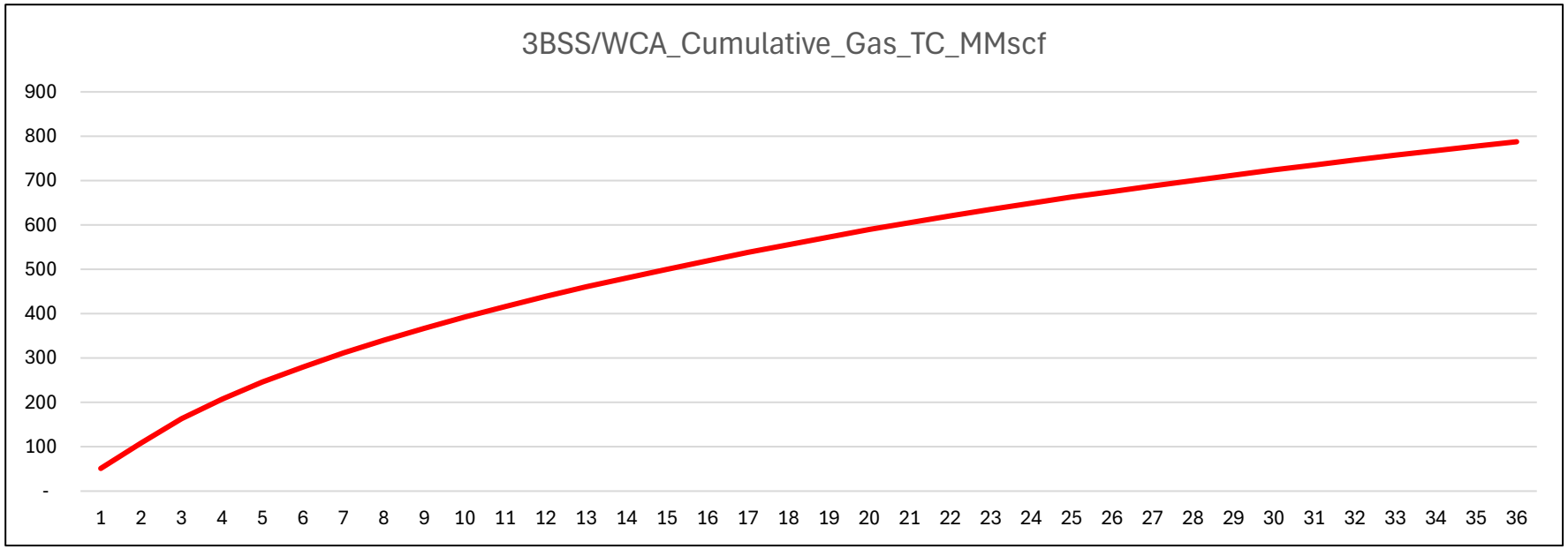
   a. See attached NMOCD – Natural Gas Management Plan

(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 711H
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	[x] Fluid Filled	[ ] Pilot Hole	[ ] Open Annulus
Cementing	[ ] Contingency Cement Squeeze	[ ] EchoMeter	[ ] Primary Cement Squeeze
Special Requirements	[ ] Water Disposal	[ ] COM	[x] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[x] Break Testing	[ ] Offline Cementing	[x] 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

Approval Date: 05/30/2025

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

 Approval Date: 05/30/2025

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 470438
	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

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 470438
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

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