Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

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.
30-025-55657

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: 10/23/2025

Additional Operator Remarks

Location of Well

0. SHL: NENW / 366 FNL / 676 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019855 / LONG: -103.686427 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 1955 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020587 / LONG: -103.682301 (TVD: 11788 feet, MD: 12244 feet)

BHL: LOT 3 / 50 FSL / 1955 FWL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.000361 / LONG: -103.682295 (TVD: 11788 feet, MD: 19602 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- 55657	98081	Zia Hills; Wolfcamp

Property Code	Property Name	Well Number
338328	ZIA HILLS UNIT 2832 WC	705H

OGRID No.	Operator Name	Ground Level Elevation
217817	CONOCOPHILLIPS COMPANY	3,159.80'

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
D	28	26S	32E		366' FNL	676' FWL	32.019855°	-103.686427°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 3	33	26S	32E		50' FSL	1,955' FWL	32.000361°	-103.682295°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
898.92	Infill	Pending 704H		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
N	21	26S	32E		377' FSL	1,952' FWL	32.021899°	-103.682309°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	28	26S	32E		100' FNL	1,955' FWL	32.020587°	-103.682301°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 3	33	26S	32E		100' FSL	1,955' FWL	32.000499°	-103.682295°	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.

Signature: Stan Wagner Date: 4/15/25

Printed Name: Stan Wagner

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.

MARY J. MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR

Date: 1/30/2025

Signature and Seal of Professional Surveyor

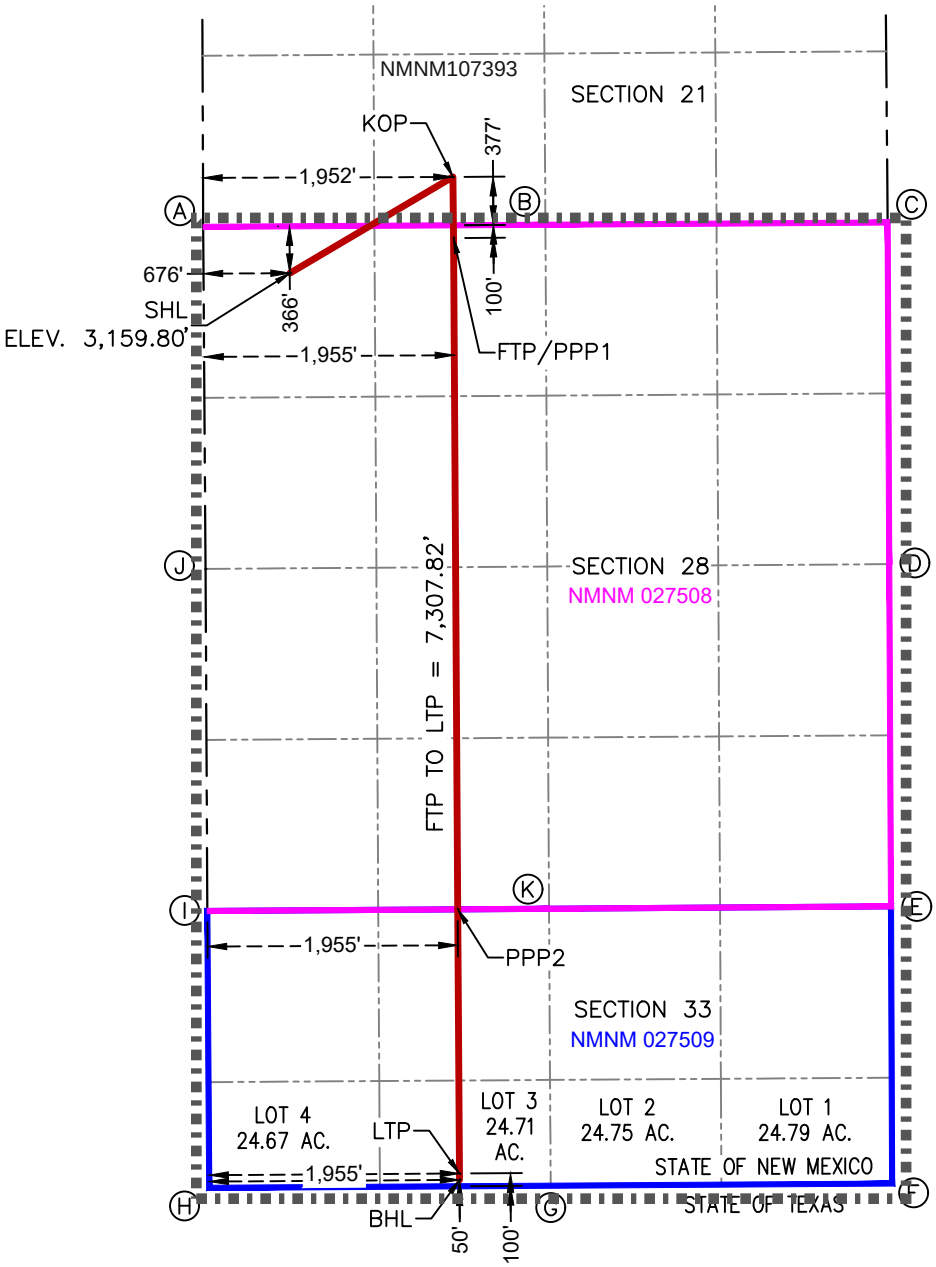
Certificate Number	Date of Survey
12177	1/30/2025

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.



SURFACE HOLE LOCATION
366' FNL & 676' FWL
ELEV.=3,159.80'

NAD 83 X = 741,829.31'
NAD 83 Y = 371,562.26'
NAD 83 LAT = 32.019855°
NAD 83 LONG = -103.686427°

KICK-OFF POINT
377' FSL & 1,952' FWL

NAD 83 X = 743,101.14'
NAD 83 Y = 372,313.54'
NAD 83 LAT = 32.021899°
NAD 83 LONG = -103.682309°

FIRST TAKE POINT &
PENETRATION POINT 1
100' FNL & 1,955' FWL

NAD 83 X = 743,106.44'
NAD 83 Y = 371,836.20'
NAD 83 LAT = 32.020587°
NAD 83 LONG = -103.682301°

PENETRATION POINT 2
0' FNL & 1,955' FWL

NAD 83 X = 743,138.35'
NAD 83 Y = 366,592.33'
NAD 83 LAT = 32.006172°
NAD 83 LONG = -103.682300°

LAST TAKE POINT
100' FSL & 1,955' FWL

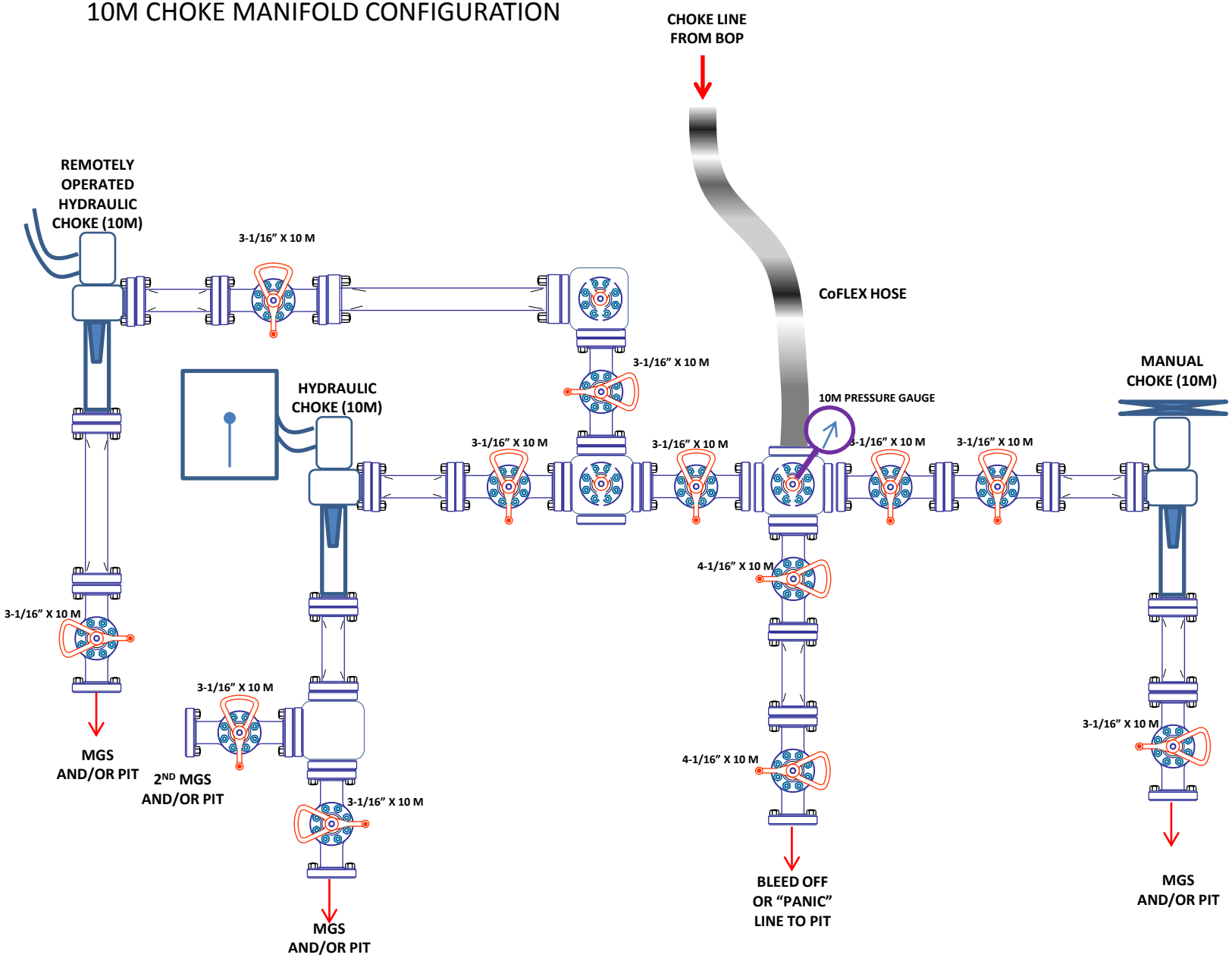
NAD 83 X = 743,152.32'
NAD 83 Y = 364,528.52'
NAD 83 LAT = 32.000499°
NAD 83 LONG = -103.682295°

BOTTOM HOLE LOCATION
50' FSL & 1,955' FWL

NAD 83 X = 743,152.66'
NAD 83 Y = 364,478.52'
NAD 83 LAT = 32.000361°
NAD 83 LONG = -103.682295°

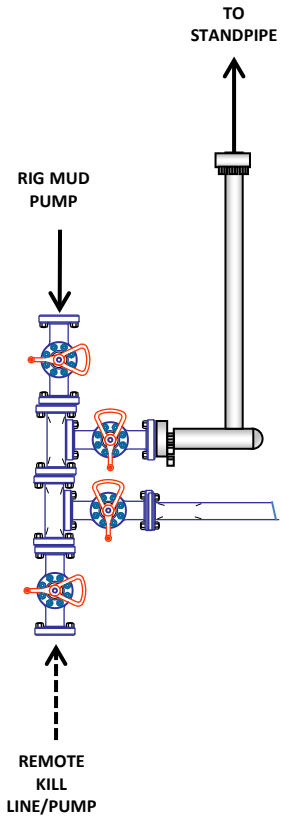
CORNER COORDINATES NEW MEXICO EAST - NAD 83					
A	IRON PIPE W/BRASS CAP N:371,924.06' E:741,150.79'	E	IRON PIPE W/BRASS CAP N:366,615.44' E:746,523.28'	I	IRON PIPE W/BRASS CAP N:366,579.65' E:741,183.39'
B	IRON PIPE W/BRASS CAP N:371,940.66' E:743,823.97'	F	CALCULATED CORNER N:364,449.93' E:746,531.16'	J	IRON PIPE W/BRASS CAP N:369,251.80' E:741,169.27'
C	IRON PIPE W/BRASS CAP N:371,957.31' E:746,496.25'	G	CALCULATED CORNER N:364,433.03' E:743,864.87'	K	CALCULATED CORNER N:366,596.96' E:743,852.02'
D	IRON PIPE W/BRASS CAP N:369,288.55' E:746,508.78'	H	CALCULATED CORNER N:364,416.13' E:741,198.04'		

10M CHOKE MANIFOLD CONFIGURATION

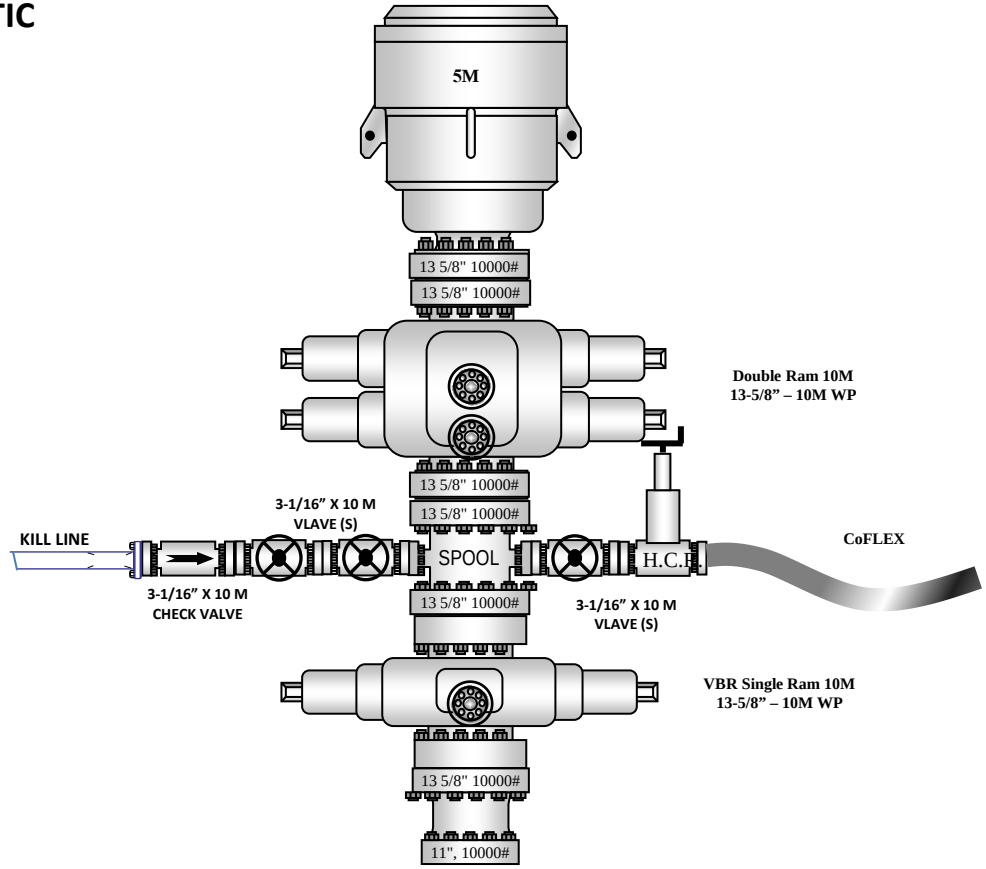


10M BOP Stack

10M REMOTE KILL SCHEMATIC



10M BOP Stack
(5M Annular)



ConocoPhillips Company - Zia Hills Unit 2832 WC 705H

1. Geologic Formations

TVD of target	11,788' EOL	Pilot hole depth	NA
MD at TD:	19,602'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	963	Water	
Top of Salt	1294	Salt	
Base of Salt	3940	Salt	
Lamar	4398	Salt Water	
Bell Canyon	4410	Salt Water	
Cherry Canyon	5313	Oil/Gas	
Brushy Canyon	6805	Oil/Gas	
Bone Spring	8452	Oil/Gas	
1st Bone Spring Sand	9432	Oil/Gas	
2nd Bone Spring Sand	10094	Oil/Gas	
3rd Bone Spring Sand	10548	Oil/Gas	
Wolfcamp	11609	Target	
Wolfcamp A	11807	Not Penetrated	
Wolfcamp B	12154	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
17.50"	0	1150	13.375"	54.5	J55	BTC	2.15	1.51	13.61	14.50
12.25"	0	4300	9.625"	40	L80-IC	BTC	1.73	1.29	5.33	5.51
8.75"	4100	11350	7.625"	29.7	P110-ICY	W513	1.25	1.56	3.17	1.90
6.75"	0	11150	5.5"	23	P110-CY	BTC	1.86	2.16	2.84	2.84
6.75"	11150	19,602	5.5"	23	P110-CY	W441	1.76	2.05	2.69	2.44
					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

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 2832 WC 705H

	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 2832 WC 705H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	690	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	630	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	810	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	640	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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%
2nd Intermediate	4,100'	20%
Production	10,850'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 705H

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 2832 WC 705H

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	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

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

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
N	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - Zia Hills Unit 2832 WC 705H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8280 psi at 11788' 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

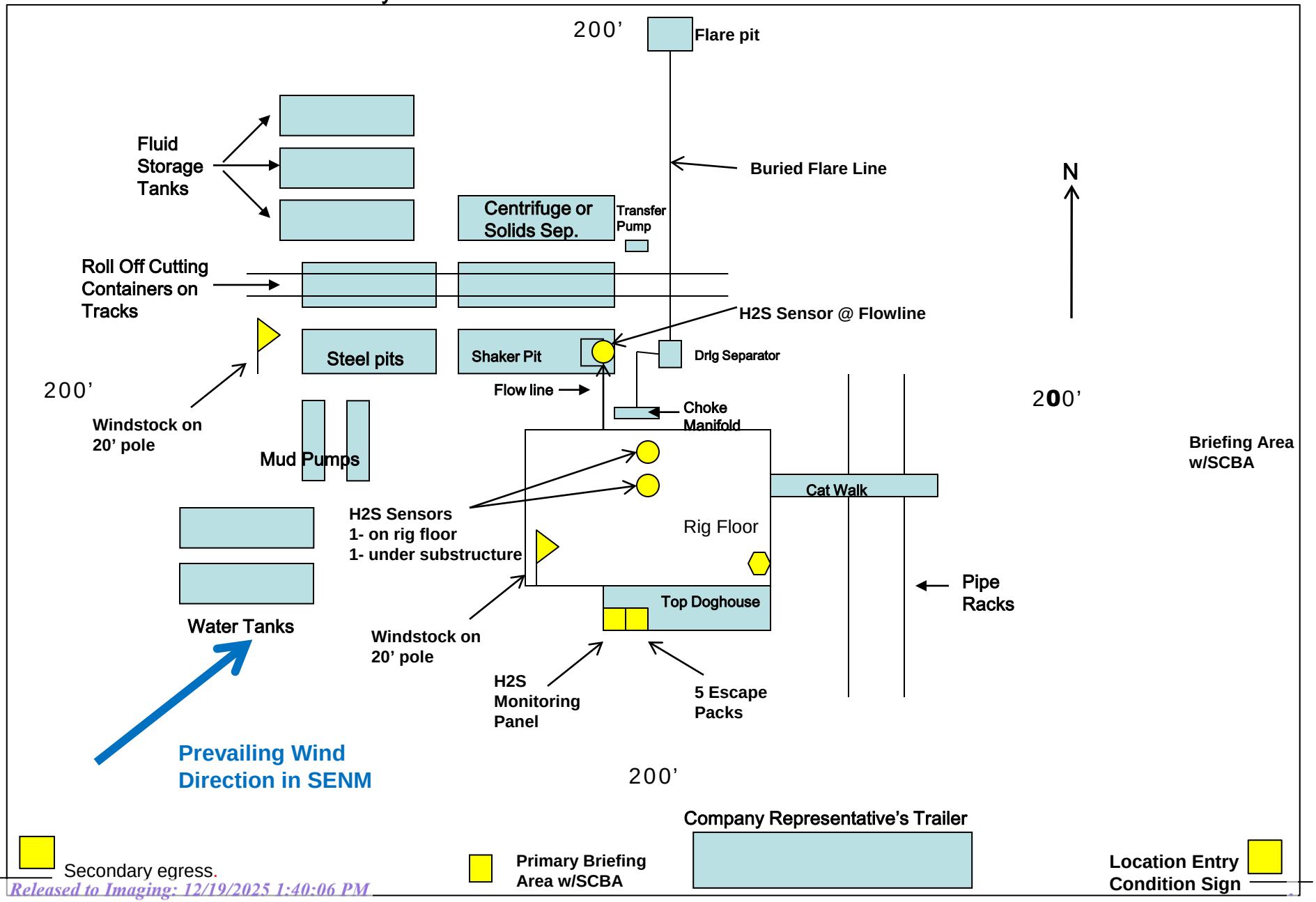
	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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 2832 PROJECT
_ZIA HILLS UNIT 2832 WC 705H

OWB

Plan: PWP0

Standard Planning Report

26 February, 2025

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3186.8usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3186.8usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	10/16/2024	6.27	59.51	47,133.46079068

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	169.42

Plan Survey Tool Program **Date** 2/25/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	2,000.0	PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp	
2	2,000.0	19,602.3	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG ·	

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,266.7	4.00	15.00	2,266.5	9.0	2.4	1.50	1.50	0.00	15.00	
2,903.6	15.24	60.34	2,894.0	72.1	81.2	2.00	1.76	7.12	57.96	
7,360.5	15.24	60.34	7,194.3	651.7	1,099.0	0.00	0.00	0.00	0.00	
8,884.1	0.00	0.00	8,700.0	751.4	1,274.0	1.00	-1.00	0.00	180.00	
11,494.6	0.00	0.00	11,310.5	751.4	1,274.0	0.00	0.00	0.00	0.00	
12,244.6	90.00	179.64	11,788.0	273.9	1,277.0	12.00	12.00	23.95	179.64	
19,602.3	90.00	179.64	11,788.0	-7,083.6	1,323.0	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3186.8usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3186.8usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 705H	**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	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.50	15.00	2,100.0	1.3	0.3	-1.2	1.50	1.50	0.00
2,200.0	3.00	15.00	2,199.9	5.1	1.4	-4.7	1.50	1.50	0.00
2,266.7	4.00	15.00	2,266.5	9.0	2.4	-8.4	1.50	1.50	0.00
2,300.0	4.39	22.40	2,299.7	11.3	3.2	-10.5	2.00	1.17	22.21
2,400.0	5.87	37.70	2,399.3	18.9	7.8	-17.1	2.00	1.48	15.29
2,500.0	7.59	46.49	2,498.6	27.5	15.7	-24.1	2.00	1.72	8.80
2,600.0	9.42	51.97	2,597.5	37.0	26.9	-31.5	2.00	1.83	5.48
2,700.0	11.30	55.66	2,695.9	47.6	41.5	-39.2	2.00	1.89	3.69
2,800.0	13.23	58.30	2,793.6	59.2	59.3	-47.3	2.00	1.92	2.64
2,900.0	15.17	60.28	2,890.5	71.7	80.4	-55.7	2.00	1.94	1.98
2,903.6	15.24	60.34	2,894.0	72.1	81.2	-56.0	2.00	1.95	1.72
3,000.0	15.24	60.34	2,987.0	84.7	103.2	-64.3	0.00	0.00	0.00
3,100.0	15.24	60.34	3,083.5	97.7	126.1	-72.9	0.00	0.00	0.00
3,200.0	15.24	60.34	3,180.0	110.7	148.9	-81.5	0.00	0.00	0.00
3,300.0	15.24	60.34	3,276.5	123.7	171.7	-90.0	0.00	0.00	0.00
3,400.0	15.24	60.34	3,373.0	136.7	194.6	-98.6	0.00	0.00	0.00
3,500.0	15.24	60.34	3,469.4	149.7	217.4	-107.2	0.00	0.00	0.00
3,600.0	15.24	60.34	3,565.9	162.7	240.2	-115.8	0.00	0.00	0.00
3,700.0	15.24	60.34	3,662.4	175.7	263.1	-124.4	0.00	0.00	0.00
3,800.0	15.24	60.34	3,758.9	188.7	285.9	-133.0	0.00	0.00	0.00
3,900.0	15.24	60.34	3,855.4	201.7	308.7	-141.6	0.00	0.00	0.00
4,000.0	15.24	60.34	3,951.9	214.7	331.6	-150.2	0.00	0.00	0.00
4,100.0	15.24	60.34	4,048.3	227.7	354.4	-158.8	0.00	0.00	0.00
4,200.0	15.24	60.34	4,144.8	240.7	377.3	-167.4	0.00	0.00	0.00
4,300.0	15.24	60.34	4,241.3	253.7	400.1	-176.0	0.00	0.00	0.00
4,400.0	15.24	60.34	4,337.8	266.7	422.9	-184.5	0.00	0.00	0.00
4,500.0	15.24	60.34	4,434.3	279.7	445.8	-193.1	0.00	0.00	0.00
4,600.0	15.24	60.34	4,530.8	292.7	468.6	-201.7	0.00	0.00	0.00
4,700.0	15.24	60.34	4,627.3	305.7	491.4	-210.3	0.00	0.00	0.00
4,800.0	15.24	60.34	4,723.7	318.7	514.3	-218.9	0.00	0.00	0.00
4,900.0	15.24	60.34	4,820.2	331.8	537.1	-227.5	0.00	0.00	0.00
5,000.0	15.24	60.34	4,916.7	344.8	559.9	-236.1	0.00	0.00	0.00
5,100.0	15.24	60.34	5,013.2	357.8	582.8	-244.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3186.8usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3186.8usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 705H	**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	15.24	60.34	5,109.7	370.8	605.6	-253.3	0.00	0.00	0.00
5,300.0	15.24	60.34	5,206.2	383.8	628.5	-261.9	0.00	0.00	0.00
5,400.0	15.24	60.34	5,302.7	396.8	651.3	-270.5	0.00	0.00	0.00
5,500.0	15.24	60.34	5,399.1	409.8	674.1	-279.0	0.00	0.00	0.00
5,600.0	15.24	60.34	5,495.6	422.8	697.0	-287.6	0.00	0.00	0.00
5,700.0	15.24	60.34	5,592.1	435.8	719.8	-296.2	0.00	0.00	0.00
5,800.0	15.24	60.34	5,688.6	448.8	742.6	-304.8	0.00	0.00	0.00
5,900.0	15.24	60.34	5,785.1	461.8	765.5	-313.4	0.00	0.00	0.00
6,000.0	15.24	60.34	5,881.6	474.8	788.3	-322.0	0.00	0.00	0.00
6,100.0	15.24	60.34	5,978.1	487.8	811.1	-330.6	0.00	0.00	0.00
6,200.0	15.24	60.34	6,074.5	500.8	834.0	-339.2	0.00	0.00	0.00
6,300.0	15.24	60.34	6,171.0	513.8	856.8	-347.8	0.00	0.00	0.00
6,400.0	15.24	60.34	6,267.5	526.8	879.7	-356.4	0.00	0.00	0.00
6,500.0	15.24	60.34	6,364.0	539.8	902.5	-365.0	0.00	0.00	0.00
6,600.0	15.24	60.34	6,460.5	552.8	925.3	-373.5	0.00	0.00	0.00
6,700.0	15.24	60.34	6,557.0	565.8	948.2	-382.1	0.00	0.00	0.00
6,800.0	15.24	60.34	6,653.4	578.8	971.0	-390.7	0.00	0.00	0.00
6,900.0	15.24	60.34	6,749.9	591.8	993.8	-399.3	0.00	0.00	0.00
7,000.0	15.24	60.34	6,846.4	604.9	1,016.7	-407.9	0.00	0.00	0.00
7,100.0	15.24	60.34	6,942.9	617.9	1,039.5	-416.5	0.00	0.00	0.00
7,200.0	15.24	60.34	7,039.4	630.9	1,062.3	-425.1	0.00	0.00	0.00
7,300.0	15.24	60.34	7,135.9	643.9	1,085.2	-433.7	0.00	0.00	0.00
7,360.5	15.24	60.34	7,194.3	651.7	1,099.0	-438.9	0.00	0.00	0.00
7,400.0	14.84	60.34	7,232.4	656.8	1,107.9	-442.2	1.00	-1.00	0.00
7,500.0	13.84	60.34	7,329.3	669.1	1,129.4	-450.3	1.00	-1.00	0.00
7,600.0	12.84	60.34	7,426.6	680.5	1,149.5	-457.9	1.00	-1.00	0.00
7,700.0	11.84	60.34	7,524.3	691.1	1,168.0	-464.9	1.00	-1.00	0.00
7,800.0	10.84	60.34	7,622.3	700.8	1,185.1	-471.3	1.00	-1.00	0.00
7,900.0	9.84	60.34	7,720.7	709.7	1,200.7	-477.2	1.00	-1.00	0.00
8,000.0	8.84	60.34	7,819.4	717.7	1,214.8	-482.5	1.00	-1.00	0.00
8,100.0	7.84	60.34	7,918.3	724.9	1,227.4	-487.2	1.00	-1.00	0.00
8,200.0	6.84	60.34	8,017.5	731.2	1,238.5	-491.4	1.00	-1.00	0.00
8,300.0	5.84	60.34	8,116.9	736.7	1,248.1	-495.0	1.00	-1.00	0.00
8,400.0	4.84	60.34	8,216.4	741.3	1,256.2	-498.0	1.00	-1.00	0.00
8,500.0	3.84	60.34	8,316.1	745.0	1,262.8	-500.5	1.00	-1.00	0.00
8,600.0	2.84	60.34	8,416.0	747.9	1,267.9	-502.4	1.00	-1.00	0.00
8,700.0	1.84	60.34	8,515.9	749.9	1,271.4	-503.8	1.00	-1.00	0.00
8,800.0	0.84	60.34	8,615.9	751.1	1,273.5	-504.5	1.00	-1.00	0.00
8,884.1	0.00	0.00	8,700.0	751.4	1,274.0	-504.7	1.00	-1.00	0.00
8,900.0	0.00	0.00	8,715.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,815.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,100.0	0.00	0.00	8,915.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,015.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,115.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,215.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,315.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,415.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,515.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,615.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,715.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,815.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,100.0	0.00	0.00	9,915.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,015.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,115.9	751.4	1,274.0	-504.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3186.8usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3186.8usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 705H	**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	10,215.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,315.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,415.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,515.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,615.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,715.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,815.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
11,100.0	0.00	0.00	10,915.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,015.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,115.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,215.9	751.4	1,274.0	-504.7	0.00	0.00	0.00
11,494.6	0.00	0.00	11,310.5	751.4	1,274.0	-504.7	0.00	0.00	0.00
11,500.0	0.64	179.64	11,315.9	751.4	1,274.0	-504.7	12.00	12.00	0.00
11,600.0	12.64	179.64	11,415.0	739.8	1,274.1	-493.3	12.00	12.00	0.00
11,700.0	24.64	179.64	11,509.6	707.9	1,274.3	-461.9	12.00	12.00	0.00
11,800.0	36.64	179.64	11,595.5	657.0	1,274.6	-411.9	12.00	12.00	0.00
11,900.0	48.64	179.64	11,668.9	589.4	1,275.0	-345.3	12.00	12.00	0.00
12,000.0	60.64	179.64	11,726.6	508.0	1,275.5	-265.2	12.00	12.00	0.00
12,100.0	72.64	179.64	11,766.2	416.4	1,276.1	-175.0	12.00	12.00	0.00
12,200.0	84.64	179.64	11,785.9	318.5	1,276.7	-78.7	12.00	12.00	0.00
12,244.6	90.00	179.64	11,788.0	273.9	1,277.0	-34.8	12.00	12.00	0.00
12,300.0	90.00	179.64	11,788.0	218.6	1,277.3	19.6	0.00	0.00	0.00
12,400.0	90.00	179.64	11,788.0	118.6	1,278.0	118.1	0.00	0.00	0.00
12,500.0	90.00	179.64	11,788.0	18.6	1,278.6	216.5	0.00	0.00	0.00
12,600.0	90.00	179.64	11,788.0	-81.4	1,279.2	314.9	0.00	0.00	0.00
12,700.0	90.00	179.64	11,788.0	-181.4	1,279.8	413.3	0.00	0.00	0.00
12,800.0	90.00	179.64	11,788.0	-281.4	1,280.5	511.7	0.00	0.00	0.00
12,900.0	90.00	179.64	11,788.0	-381.4	1,281.1	610.1	0.00	0.00	0.00
13,000.0	90.00	179.64	11,788.0	-481.4	1,281.7	708.5	0.00	0.00	0.00
13,100.0	90.00	179.64	11,788.0	-581.4	1,282.3	806.9	0.00	0.00	0.00
13,200.0	90.00	179.64	11,788.0	-681.4	1,283.0	905.4	0.00	0.00	0.00
13,300.0	90.00	179.64	11,788.0	-781.4	1,283.6	1,003.8	0.00	0.00	0.00
13,400.0	90.00	179.64	11,788.0	-881.4	1,284.2	1,102.2	0.00	0.00	0.00
13,500.0	90.00	179.64	11,788.0	-981.4	1,284.8	1,200.6	0.00	0.00	0.00
13,600.0	90.00	179.64	11,788.0	-1,081.4	1,285.5	1,299.0	0.00	0.00	0.00
13,700.0	90.00	179.64	11,788.0	-1,181.4	1,286.1	1,397.4	0.00	0.00	0.00
13,800.0	90.00	179.64	11,788.0	-1,281.4	1,286.7	1,495.8	0.00	0.00	0.00
13,900.0	90.00	179.64	11,788.0	-1,381.4	1,287.3	1,594.3	0.00	0.00	0.00
14,000.0	90.00	179.64	11,788.0	-1,481.4	1,288.0	1,692.7	0.00	0.00	0.00
14,100.0	90.00	179.64	11,788.0	-1,581.4	1,288.6	1,791.1	0.00	0.00	0.00
14,200.0	90.00	179.64	11,788.0	-1,681.4	1,289.2	1,889.5	0.00	0.00	0.00
14,300.0	90.00	179.64	11,788.0	-1,781.4	1,289.8	1,987.9	0.00	0.00	0.00
14,400.0	90.00	179.64	11,788.0	-1,881.4	1,290.5	2,086.3	0.00	0.00	0.00
14,500.0	90.00	179.64	11,788.0	-1,981.4	1,291.1	2,184.7	0.00	0.00	0.00
14,600.0	90.00	179.64	11,788.0	-2,081.4	1,291.7	2,283.1	0.00	0.00	0.00
14,700.0	90.00	179.64	11,788.0	-2,181.4	1,292.4	2,381.6	0.00	0.00	0.00
14,800.0	90.00	179.64	11,788.0	-2,281.4	1,293.0	2,480.0	0.00	0.00	0.00
14,900.0	90.00	179.64	11,788.0	-2,381.4	1,293.6	2,578.4	0.00	0.00	0.00
15,000.0	90.00	179.64	11,788.0	-2,481.4	1,294.2	2,676.8	0.00	0.00	0.00
15,100.0	90.00	179.64	11,788.0	-2,581.4	1,294.9	2,775.2	0.00	0.00	0.00
15,200.0	90.00	179.64	11,788.0	-2,681.4	1,295.5	2,873.6	0.00	0.00	0.00
15,300.0	90.00	179.64	11,788.0	-2,781.3	1,296.1	2,972.0	0.00	0.00	0.00
15,400.0	90.00	179.64	11,788.0	-2,881.3	1,296.7	3,070.4	0.00	0.00	0.00
15,500.0	90.00	179.64	11,788.0	-2,981.3	1,297.4	3,168.9	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 2832 WC 705H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3186.8usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3186.8usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 705H	**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)
15,600.0	90.00	179.64	11,788.0	-3,081.3	1,298.0	3,267.3	0.00	0.00	0.00
15,700.0	90.00	179.64	11,788.0	-3,181.3	1,298.6	3,365.7	0.00	0.00	0.00
15,800.0	90.00	179.64	11,788.0	-3,281.3	1,299.2	3,464.1	0.00	0.00	0.00
15,900.0	90.00	179.64	11,788.0	-3,381.3	1,299.9	3,562.5	0.00	0.00	0.00
16,000.0	90.00	179.64	11,788.0	-3,481.3	1,300.5	3,660.9	0.00	0.00	0.00
16,100.0	90.00	179.64	11,788.0	-3,581.3	1,301.1	3,759.3	0.00	0.00	0.00
16,200.0	90.00	179.64	11,788.0	-3,681.3	1,301.7	3,857.8	0.00	0.00	0.00
16,300.0	90.00	179.64	11,788.0	-3,781.3	1,302.4	3,956.2	0.00	0.00	0.00
16,400.0	90.00	179.64	11,788.0	-3,881.3	1,303.0	4,054.6	0.00	0.00	0.00
16,500.0	90.00	179.64	11,788.0	-3,981.3	1,303.6	4,153.0	0.00	0.00	0.00
16,600.0	90.00	179.64	11,788.0	-4,081.3	1,304.2	4,251.4	0.00	0.00	0.00
16,700.0	90.00	179.64	11,788.0	-4,181.3	1,304.9	4,349.8	0.00	0.00	0.00
16,800.0	90.00	179.64	11,788.0	-4,281.3	1,305.5	4,448.2	0.00	0.00	0.00
16,900.0	90.00	179.64	11,788.0	-4,381.3	1,306.1	4,546.6	0.00	0.00	0.00
17,000.0	90.00	179.64	11,788.0	-4,481.3	1,306.7	4,645.1	0.00	0.00	0.00
17,100.0	90.00	179.64	11,788.0	-4,581.3	1,307.4	4,743.5	0.00	0.00	0.00
17,200.0	90.00	179.64	11,788.0	-4,681.3	1,308.0	4,841.9	0.00	0.00	0.00
17,300.0	90.00	179.64	11,788.0	-4,781.3	1,308.6	4,940.3	0.00	0.00	0.00
17,400.0	90.00	179.64	11,788.0	-4,881.3	1,309.2	5,038.7	0.00	0.00	0.00
17,500.0	90.00	179.64	11,788.0	-4,981.3	1,309.9	5,137.1	0.00	0.00	0.00
17,600.0	90.00	179.64	11,788.0	-5,081.3	1,310.5	5,235.5	0.00	0.00	0.00
17,700.0	90.00	179.64	11,788.0	-5,181.3	1,311.1	5,333.9	0.00	0.00	0.00
17,800.0	90.00	179.64	11,788.0	-5,281.3	1,311.8	5,432.4	0.00	0.00	0.00
17,900.0	90.00	179.64	11,788.0	-5,381.3	1,312.4	5,530.8	0.00	0.00	0.00
18,000.0	90.00	179.64	11,788.0	-5,481.3	1,313.0	5,629.2	0.00	0.00	0.00
18,100.0	90.00	179.64	11,788.0	-5,581.3	1,313.6	5,727.6	0.00	0.00	0.00
18,200.0	90.00	179.64	11,788.0	-5,681.3	1,314.3	5,826.0	0.00	0.00	0.00
18,300.0	90.00	179.64	11,788.0	-5,781.3	1,314.9	5,924.4	0.00	0.00	0.00
18,400.0	90.00	179.64	11,788.0	-5,881.3	1,315.5	6,022.8	0.00	0.00	0.00
18,500.0	90.00	179.64	11,788.0	-5,981.3	1,316.1	6,121.3	0.00	0.00	0.00
18,600.0	90.00	179.64	11,788.0	-6,081.3	1,316.8	6,219.7	0.00	0.00	0.00
18,700.0	90.00	179.64	11,788.0	-6,181.3	1,317.4	6,318.1	0.00	0.00	0.00
18,800.0	90.00	179.64	11,788.0	-6,281.3	1,318.0	6,416.5	0.00	0.00	0.00
18,900.0	90.00	179.64	11,788.0	-6,381.3	1,318.6	6,514.9	0.00	0.00	0.00
19,000.0	90.00	179.64	11,788.0	-6,481.3	1,319.3	6,613.3	0.00	0.00	0.00
19,100.0	90.00	179.64	11,788.0	-6,581.3	1,319.9	6,711.7	0.00	0.00	0.00
19,200.0	90.00	179.64	11,788.0	-6,681.3	1,320.5	6,810.1	0.00	0.00	0.00
19,300.0	90.00	179.64	11,788.0	-6,781.3	1,321.1	6,908.6	0.00	0.00	0.00
19,400.0	90.00	179.64	11,788.0	-6,881.3	1,321.8	7,007.0	0.00	0.00	0.00
19,500.0	90.00	179.64	11,788.0	-6,981.3	1,322.4	7,105.4	0.00	0.00	0.00
19,600.0	90.00	179.64	11,788.0	-7,081.3	1,323.0	7,203.8	0.00	0.00	0.00
19,602.3	90.00	179.64	11,788.0	-7,083.6	1,323.0	7,206.1	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3186.8usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3186.8usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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_ZHU 2832 705H - plan hits target center - Circle (radius 50.0)	90.00	0.00	11,788.0	-7,033.6	1,322.7	364,471.62	701,964.72	32° 0' 1.343 N	103° 40' 54.576 W
PBHL_ZHU 2832 705H - plan hits target center - Rectangle (sides W100.0 H7,357.7 D20.0)	0.00	359.64	11,788.0	-7,083.6	1,323.0	364,421.62	701,965.06	32° 0' 0.849 N	103° 40' 54.575 W
FTP_ZHU 2832 705H - plan misses target center by 0.1usft at 12244.7usft MD (11788.0 TVD, 273.9 N, 1277.0 E) - Circle (radius 50.0)	0.00	0.00	11,788.0	273.9	1,277.1	371,779.12	701,919.16	32° 1' 13.662 N	103° 40' 54.593 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
19,602.3	11,788.0	5-1/2" Production Casing	5-1/2	6

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA
ZIA HILLS UNIT 2832 PROJECT
_ZIA HILLS UNIT 2832 WC 705H

OWB
PWP0

Anticollision Report

26 February, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference PWP0

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 **Sigma**	**Casing Method:**	Added to Error Values

Survey Tool Program **Date** 2/25/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	2,000.0	PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Con
2,000.0	19,602.3	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corr

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						
RED HILLS WEST 21 DM FEDERAL COM #1H - OWB -						Out of range
RED HILLS WEST 21 W0DM FEDERAL COM #3H - OW						Out of range
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,337.9	2,342.3	333.4	318.7	22.628	CC, ES
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,700.0	2,701.6	353.9	337.3	21.344	SF
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	2,734.0	2,775.1	232.8	216.7	14.474	CC, ES
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	2,900.0	2,933.8	239.2	222.1	13.997	SF
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FEDERAL COM #114H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP						Out of range
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,000.0	1,999.2	80.0	68.4	6.892	CC, ES
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,100.0	2,097.6	81.3	69.5	6.864	SF
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	2,000.0	1,999.8	60.0	48.4	5.168	CC, ES
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	2,200.0	2,199.7	61.4	49.3	5.078	SF
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	2,366.7	2,368.6	39.5	26.9	3.133	CC
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	2,400.0	2,402.1	39.6	26.9	3.111	ES
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	2,500.0	2,503.0	40.5	27.5	3.108	SF
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0	2,268.3	2,268.8	18.6	6.3	1.512	Caution - Monitor Closely, CC, ES, SF
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	2,061.8	2,062.3	20.0	8.2	1.703	Caution - Monitor Closely, CC
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	2,100.0	2,100.4	20.0	8.2	1.697	Caution - Monitor Closely, ES, SF
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0	11,502.6	11,533.5	873.5	833.8	22.038	CC
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0	19,602.3	19,649.9	873.5	743.9	6.738	ES, SF
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0	2,881.7	2,876.3	33.2	17.7	2.148	Caution - Monitor Closely, CC, ES, SF
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	11,494.6	11,523.1	878.2	825.4	16.615	CC, ES
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	11,500.0	11,528.5	878.2	825.4	16.615	SF
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0						Out of range
RED HILLS WEST `21` DM FEDERAL COM 1H - OWB -						Out of range
RED HILLS WEST 21 `BO` FEDERAL COM 1H - OWB -						Out of range

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference 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 2832 PROJECT						
RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP	9,137.9	13,359.4	304.2	188.6	2.630	Normal Operations, CC, ES, SF
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW						Out of range
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	12,057.8	16,790.0	256.9	136.8	2.138	Caution - Monitor Closely, CC, ES, SF
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW						Out of range
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,119.4	16,960.0	460.3	361.8	4.673	CC, ES, SF
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O						Out of range
RED HILLS WEST 21 W1DM FEDERAL COM 003H - O						Out of range
WILDER FEDERAL 28 2H - OWB - AWP						Out of range
WILDER FEDERAL AC COM 28 3H - OWB - AWP	6,126.0	6,004.2	324.7	302.6	14.668	CC, ES
WILDER FEDERAL AC COM 28 3H - OWB - AWP	6,400.0	6,272.4	330.5	307.6	14.442	SF

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 141-MWD - OWSG R1

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
0.0	0.0	0.0	8.8	3.0	3.0	-84.34	34.3	-346.0	347.8				
100.0	100.0	90.3	99.1	3.1	3.0	-84.35	34.2	-346.2	347.8	341.1	6.78	51.306	
200.0	200.0	189.8	198.6	3.2	3.0	-84.40	34.0	-346.6	348.2	341.3	6.92	50.302	
300.0	300.0	289.9	298.7	3.3	3.1	-84.48	33.5	-347.0	348.6	341.5	7.10	49.067	
400.0	400.0	390.2	399.0	3.4	3.2	-84.69	32.3	-347.4	348.9	341.6	7.32	47.671	
500.0	500.0	490.8	499.6	3.6	3.3	-85.08	29.9	-347.9	349.1	341.6	7.57	46.147	
600.0	600.0	591.0	599.7	3.7	3.5	-85.68	26.3	-348.2	349.2	341.4	7.84	44.545	
700.0	700.0	688.1	696.7	3.8	3.7	-86.36	22.2	-349.0	349.7	341.5	8.13	42.994	
800.0	800.0	787.1	795.6	3.9	3.9	-87.08	17.8	-350.3	350.8	342.4	8.45	41.506	
900.0	900.0	877.0	885.4	4.0	4.1	-87.74	13.9	-352.8	353.4	344.6	8.76	40.332	
1,000.0	1,000.0	973.9	982.0	4.2	4.4	-88.36	10.3	-357.6	358.2	349.3	8.95	40.028	
1,100.0	1,100.0	1,072.9	1,080.9	4.3	4.7	-88.73	8.0	-362.7	363.3	354.0	9.31	39.021	
1,200.0	1,200.0	1,186.6	1,194.5	4.4	5.0	-88.60	8.9	-366.5	366.7	357.0	9.72	37.719	
1,300.0	1,300.0	1,294.2	1,301.9	4.5	5.3	-87.52	15.9	-366.7	367.0	356.9	10.11	36.319	
1,400.0	1,400.0	1,402.2	1,409.1	4.6	5.5	-85.57	28.3	-364.7	365.9	355.4	10.50	34.843	
1,500.0	1,500.0	1,509.8	1,515.7	4.8	5.9	-83.27	42.4	-359.1	362.0	351.1	10.91	33.176	
1,600.0	1,600.0	1,609.8	1,614.7	4.9	6.2	-81.14	55.0	-353.1	357.7	346.4	11.32	31.594	
1,700.0	1,700.0	1,709.4	1,713.4	5.0	6.5	-79.07	67.0	-347.1	353.8	342.0	11.75	30.119	
1,800.0	1,800.0	1,809.6	1,812.8	5.1	6.8	-77.05	78.4	-340.9	350.1	337.9	12.19	28.728	
1,900.0	1,900.0	1,911.8	1,914.1	5.2	7.1	-74.96	89.8	-334.1	346.3	333.6	12.64	27.388	
2,000.0	2,000.0	2,011.4	2,012.9	5.3	7.5	-72.91	100.5	-327.0	342.3	329.2	13.11	26.119	
2,100.0	2,100.0	2,109.5	2,110.2	5.5	7.8	-86.23	110.5	-320.2	338.8	325.3	13.57	24.975	
2,200.0	2,199.9	2,206.9	2,207.0	5.6	8.1	-85.08	119.9	-314.3	336.0	321.9	14.08	23.861	
2,266.7	2,266.5	2,272.7	2,272.4	5.7	8.4	-84.70	125.4	-310.9	334.3	319.9	14.39	23.231	
2,300.0	2,299.7	2,305.6	2,305.2	5.7	8.5	-92.05	127.7	-309.5	333.7	319.1	14.54	22.955	
2,337.9	2,337.4	2,342.3	2,341.9	5.8	8.6	-98.96	129.9	-308.1	333.4	318.7	14.73	22.628	CC, ES
2,400.0	2,399.3	2,402.6	2,402.0	5.9	8.8	-107.75	132.6	-306.4	334.1	319.1	15.06	22.189	
2,500.0	2,498.6	2,503.1	2,502.4	6.1	9.1	-117.66	135.8	-304.2	337.8	322.2	15.57	21.700	
2,600.0	2,597.5	2,603.0	2,602.3	6.2	9.5	-124.63	138.2	-302.1	344.3	328.2	16.07	21.420	
2,700.0	2,695.9	2,701.6	2,700.9	6.4	9.8	-130.13	139.8	-300.2	353.9	337.3	16.58	21.344	SF
2,800.0	2,793.6	2,798.8	2,798.1	6.6	10.1	-134.80	140.8	-298.6	367.1	350.0	17.09	21.479	
2,900.0	2,890.5	2,894.8	2,894.1	6.8	10.4	-138.91	141.4	-297.4	384.2	366.6	17.61	21.812	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 141-MWD - OWSG R1 **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
2,903.6	2,894.0	2,898.3	2,897.6	6.8	10.4	-139.04	141.4	-297.4	384.9	367.3	17.63	21.827	
3,000.0	2,987.0	2,991.0	2,990.2	6.9	10.8	-141.25	142.1	-296.5	403.8	385.7	18.10	22.303	
3,100.0	3,083.5	3,087.1	3,086.4	7.1	11.1	-143.36	142.5	-295.7	424.2	405.6	18.60	22.805	
3,200.0	3,180.0	3,185.0	3,184.3	7.2	11.4	-145.33	142.8	-294.9	444.9	425.8	19.11	23.284	
3,300.0	3,276.5	3,281.8	3,281.0	7.4	11.7	-147.10	143.2	-293.9	466.1	446.5	19.62	23.759	
3,400.0	3,373.0	3,379.2	3,378.4	7.6	12.1	-148.70	143.7	-292.9	487.5	467.4	20.13	24.216	
3,500.0	3,469.4	3,474.2	3,473.4	7.7	12.4	-150.13	144.3	-291.8	509.3	488.6	20.64	24.674	
3,600.0	3,565.9	3,565.9	3,565.2	7.9	12.7	-151.46	144.3	-291.6	532.2	511.1	21.13	25.190	
3,700.0	3,662.4	3,663.1	3,662.3	8.1	13.0	-152.78	144.0	-291.8	555.8	534.1	21.64	25.683	
3,800.0	3,758.9	3,763.8	3,763.0	8.3	13.3	-154.09	143.3	-291.4	579.1	556.9	22.18	26.114	
3,900.0	3,855.4	3,863.9	3,863.1	8.4	13.7	-155.29	142.5	-290.3	602.0	579.3	22.72	26.502	
4,000.0	3,951.9	3,961.5	3,960.7	8.6	14.0	-156.40	141.7	-288.8	624.8	601.5	23.25	26.876	
4,100.0	4,048.3	4,061.3	4,060.5	8.8	14.3	-157.49	140.3	-287.1	647.6	623.8	23.79	27.222	
4,200.0	4,144.8	4,159.5	4,158.6	9.0	14.7	-158.51	138.8	-284.8	670.0	645.7	24.33	27.541	
4,300.0	4,241.3	4,251.3	4,250.4	9.2	15.0	-159.40	137.5	-282.9	692.9	668.1	24.84	27.898	
4,400.0	4,337.8	4,345.9	4,345.0	9.4	15.3	-160.24	136.2	-281.7	716.7	691.3	25.36	28.259	
4,500.0	4,434.3	4,440.4	4,439.5	9.6	15.6	-161.01	135.2	-280.7	740.7	715.0	25.72	28.803	
4,600.0	4,530.8	4,530.7	4,529.8	9.8	15.9	-161.65	134.6	-280.3	765.4	739.1	26.22	29.191	
4,700.0	4,627.3	4,621.9	4,621.0	10.0	16.2	-162.15	135.5	-280.9	790.9	764.2	26.73	29.593	
4,800.0	4,723.7	4,716.8	4,715.9	10.2	16.6	-162.58	136.9	-282.1	816.9	789.7	27.25	29.976	
4,900.0	4,820.2	4,814.4	4,813.4	10.4	16.9	-162.99	138.5	-283.4	843.0	815.2	27.80	30.327	
5,000.0	4,916.7	4,909.6	4,908.7	10.6	17.2	-163.38	139.9	-284.5	869.0	840.7	28.33	30.675	
5,100.0	5,013.2	5,005.1	5,004.1	10.8	17.5	-163.75	141.2	-285.8	895.3	866.4	28.86	31.016	
5,200.0	5,109.7	5,101.5	5,100.5	11.0	17.9	-164.11	142.4	-287.2	921.6	892.2	29.41	31.339	
5,300.0	5,206.2	5,198.6	5,197.6	11.2	18.2	-164.46	143.6	-288.4	947.8	917.9	29.95	31.644	
5,400.0	5,302.7	5,292.1	5,291.0	11.4	18.5	-164.77	144.8	-289.7	974.2	943.8	30.48	31.961	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 174-MWD - OWSG R1 **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
0.0	0.0	0.0	6.8	3.0	0.0	-76.38	84.0	-346.9	357.0				
100.0	100.0	91.3	98.1	3.1	0.1	-76.37	84.1	-347.1	357.2	352.1	5.07	70.458	
200.0	200.0	189.3	196.1	3.2	0.3	-76.36	84.4	-347.9	358.0	352.7	5.26	68.097	
300.0	300.0	288.7	295.5	3.3	0.7	-76.37	84.6	-349.0	359.2	353.7	5.49	65.372	
400.0	400.0	389.0	395.8	3.4	1.0	-76.46	84.4	-350.4	360.4	354.7	5.77	62.447	
500.0	500.0	489.1	495.9	3.6	1.4	-76.62	83.7	-351.7	361.6	355.5	6.08	59.451	
600.0	600.0	589.7	596.4	3.7	1.8	-76.87	82.4	-353.1	362.6	356.2	6.42	56.493	
700.0	700.0	689.5	696.2	3.8	2.1	-77.23	80.3	-354.6	363.6	356.9	6.78	53.651	
800.0	800.0	788.0	794.7	3.9	2.5	-77.60	78.4	-356.4	365.0	357.8	7.15	51.022	
900.0	900.0	879.0	885.6	4.0	2.8	-77.97	76.6	-359.4	367.7	360.2	7.52	48.890	
1,000.0	1,000.0	970.2	976.6	4.2	3.1	-78.36	75.1	-364.4	372.8	365.1	7.74	48.158	
1,100.0	1,100.0	1,073.5	1,079.7	4.3	3.5	-78.82	73.3	-371.1	378.8	370.6	8.17	46.338	
1,200.0	1,200.0	1,199.3	1,205.4	4.4	4.0	-79.46	69.6	-374.3	380.7	372.0	8.69	43.819	
1,300.0	1,300.0	1,320.6	1,326.5	4.5	4.4	-79.86	66.1	-369.5	376.3	367.1	9.16	41.081	
1,400.0	1,400.0	1,431.2	1,436.7	4.6	4.7	-79.96	63.7	-360.1	367.5	357.9	9.60	38.303	
1,500.0	1,500.0	1,538.6	1,543.4	4.8	5.1	-79.87	62.2	-348.2	356.3	346.3	10.03	35.529	
1,600.0	1,600.0	1,642.2	1,646.2	4.9	5.4	-79.61	61.4	-334.8	343.5	333.0	10.46	32.825	
1,700.0	1,700.0	1,740.7	1,743.8	5.0	5.8	-79.33	60.6	-321.5	330.1	319.2	10.90	30.281	
1,800.0	1,800.0	1,837.4	1,839.7	5.1	6.1	-79.04	59.8	-309.0	317.2	305.9	11.34	27.965	
1,900.0	1,900.0	1,934.5	1,936.0	5.2	6.5	-78.62	59.8	-297.1	305.2	293.4	11.79	25.879	
2,000.0	2,000.0	2,035.1	2,035.9	5.3	6.9	-77.97	60.7	-284.6	293.2	281.0	12.25	23.936	
2,100.0	2,100.0	2,137.6	2,137.4	5.5	7.2	-92.67	61.6	-271.1	280.5	267.8	12.71	22.070	
2,200.0	2,199.9	2,240.0	2,238.7	5.6	7.6	-92.96	62.1	-256.2	266.7	253.4	13.23	20.159	
2,266.7	2,266.5	2,306.8	2,304.8	5.7	7.9	-93.52	62.2	-246.1	257.0	243.5	13.54	18.982	
2,300.0	2,299.7	2,339.0	2,336.6	5.7	8.0	-101.29	62.0	-241.3	252.4	238.7	13.69	18.442	
2,400.0	2,399.3	2,434.5	2,431.2	5.9	8.4	-118.28	60.3	-227.9	241.4	227.2	14.24	16.960	
2,500.0	2,498.6	2,530.3	2,526.3	6.1	8.8	-129.34	58.4	-216.4	235.7	221.0	14.77	15.957	
2,600.0	2,597.5	2,633.2	2,628.3	6.2	9.2	-137.04	58.9	-203.9	233.9	218.5	15.33	15.259	
2,700.0	2,695.9	2,739.4	2,733.3	6.4	9.6	-142.77	61.5	-187.9	232.8	217.0	15.89	14.655	
2,734.0	2,729.2	2,775.1	2,768.5	6.5	9.7	-144.51	62.4	-182.0	232.8	216.7	16.08	14.474 CC, ES	
2,800.0	2,793.6	2,840.3	2,832.7	6.6	10.0	-147.82	63.1	-171.0	233.6	217.1	16.47	14.185	
2,900.0	2,890.5	2,933.8	2,925.0	6.8	10.4	-152.95	61.4	-156.1	239.2	222.1	17.09	13.997 SF	
2,903.6	2,894.0	2,937.0	2,928.3	6.8	10.4	-153.14	61.3	-155.6	239.5	222.4	17.11	13.998	
3,000.0	2,987.0	3,027.9	3,018.2	6.9	10.8	-156.67	57.4	-143.3	250.0	232.3	17.66	14.153	
3,100.0	3,083.5	3,128.0	3,117.3	7.1	11.2	-160.14	53.5	-130.2	262.3	244.0	18.25	14.367	
3,200.0	3,180.0	3,229.3	3,217.7	7.2	11.6	-162.99	51.4	-116.0	274.1	255.2	18.85	14.541	
3,300.0	3,276.5	3,327.8	3,315.1	7.4	12.0	-165.10	51.7	-102.2	285.8	266.4	19.43	14.708	
3,400.0	3,373.0	3,423.2	3,409.7	7.6	12.4	-166.88	52.2	-89.4	298.6	278.6	20.01	14.918	
3,500.0	3,469.4	3,516.8	3,502.7	7.7	12.8	-168.47	52.4	-78.3	313.0	292.4	20.59	15.203	
3,600.0	3,565.9	3,615.9	3,601.1	7.9	13.1	-169.87	53.1	-67.5	328.6	307.4	21.17	15.518	
3,700.0	3,662.4	3,720.5	3,705.1	8.1	13.6	-170.97	55.6	-55.6	343.2	321.5	21.77	15.768	
3,800.0	3,758.9	3,821.6	3,805.3	8.3	14.0	-171.93	58.6	-42.9	356.7	334.3	22.35	15.958	
3,900.0	3,855.4	3,917.7	3,900.6	8.4	14.3	-172.90	60.6	-30.7	370.4	347.4	22.93	16.149	
4,000.0	3,951.9	4,012.6	3,994.8	8.6	14.7	-173.91	61.5	-19.0	385.0	361.5	23.52	16.373	
4,100.0	4,048.3	4,108.9	4,090.4	8.8	15.1	-174.95	61.6	-7.6	400.6	376.5	24.11	16.616	
4,200.0	4,144.8	4,204.9	4,185.8	9.0	15.5	-175.97	61.1	3.3	416.9	392.2	24.70	16.877	
4,300.0	4,241.3	4,302.8	4,283.2	9.2	15.9	-176.77	61.4	13.7	433.7	408.4	25.29	17.146	
4,400.0	4,337.8	4,406.9	4,386.6	9.4	16.3	-177.30	63.9	24.5	449.8	423.9	25.90	17.368	
4,500.0	4,434.3	4,508.3	4,487.3	9.6	16.7	-177.83	66.3	35.9	465.1	438.8	26.32	17.670	
4,600.0	4,530.8	4,609.7	4,588.0	9.8	17.1	-178.44	68.1	48.1	480.1	453.2	26.93	17.828	
4,700.0	4,627.3	4,711.6	4,689.0	10.0	17.5	-179.08	69.9	61.4	494.3	466.8	27.55	17.945	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 174-MWD - OWSG R1 **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
4,800.0	4,723.7	4,808.2	4,784.7	10.2	17.9	-179.69	71.3	74.3	508.5	480.3	28.15	18.066	
4,900.0	4,820.2	4,903.7	4,879.5	10.4	18.3	179.78	72.7	86.2	523.3	494.6	28.74	18.211	
5,000.0	4,916.7	5,002.1	4,977.2	10.6	18.7	179.31	74.3	98.0	538.7	509.3	29.34	18.360	
5,100.0	5,013.2	5,100.6	5,074.9	10.8	19.1	178.86	76.0	109.9	554.0	524.0	29.94	18.501	
5,200.0	5,109.7	5,195.6	5,169.2	11.0	19.5	178.42	77.1	121.2	569.6	539.1	30.53	18.655	
5,300.0	5,206.2	5,291.2	5,264.1	11.2	19.8	177.90	77.0	132.6	586.0	554.8	31.13	18.822	
5,400.0	5,302.7	5,385.8	5,358.1	11.4	20.2	177.42	76.7	143.4	602.9	571.1	31.73	19.002	
5,500.0	5,399.1	5,483.2	5,454.9	11.6	20.6	176.99	76.6	153.9	620.3	588.0	32.33	19.186	
5,600.0	5,495.6	5,580.3	5,551.5	11.8	21.0	176.61	76.7	164.1	637.9	604.9	32.93	19.369	
5,700.0	5,592.1	5,679.0	5,649.7	12.0	21.4	176.28	76.9	174.3	655.5	622.0	33.54	19.547	
5,800.0	5,688.6	5,794.7	5,764.6	12.2	21.8	175.87	77.6	187.5	672.1	637.9	34.23	19.637	
5,900.0	5,785.1	5,900.6	5,869.5	12.4	22.3	175.39	78.2	202.3	686.7	651.8	34.88	19.685	
6,000.0	5,881.6	5,997.0	5,964.9	12.7	22.7	174.93	78.4	216.2	701.0	665.5	35.51	19.742	
6,100.0	5,978.1	6,090.5	6,057.4	12.9	23.1	174.49	78.3	229.4	715.9	679.8	36.11	19.822	
6,200.0	6,074.5	6,184.7	6,150.8	13.1	23.5	174.06	77.8	242.0	731.6	694.8	36.73	19.920	
6,300.0	6,171.0	6,287.7	6,252.9	13.3	23.9	173.65	77.4	255.7	747.3	710.0	37.38	19.995	
6,400.0	6,267.5	6,392.4	6,356.6	13.5	24.3	173.28	78.2	270.0	762.2	724.1	38.03	20.041	
6,500.0	6,364.0	6,487.5	6,450.8	13.7	24.7	172.97	78.9	283.0	777.0	738.4	38.64	20.108	
6,600.0	6,460.5	6,580.0	6,542.5	14.0	25.1	172.69	79.4	295.1	792.5	753.3	39.24	20.198	
6,700.0	6,557.0	6,671.7	6,633.6	14.2	25.5	172.45	79.6	306.2	808.9	769.1	39.83	20.311	
6,800.0	6,653.4	6,763.6	6,724.8	14.4	25.8	172.22	79.5	316.7	826.1	785.7	40.41	20.442	
6,900.0	6,749.9	6,853.2	6,813.9	14.6	26.2	171.99	78.8	326.5	844.2	803.2	40.98	20.598	
7,000.0	6,846.4	6,938.3	6,898.6	14.8	26.5	171.81	77.8	334.6	863.6	822.1	41.52	20.800	
7,100.0	6,942.9	7,020.0	6,980.0	15.1	26.8	171.71	76.8	341.0	884.3	842.3	42.02	21.047	
7,200.0	7,039.4	7,104.3	7,064.3	15.3	27.1	171.70	76.2	345.6	906.7	864.2	42.51	21.328	
7,300.0	7,135.9	7,192.0	7,151.9	15.5	27.4	171.78	75.8	348.3	930.6	887.6	43.01	21.637	
7,360.5	7,194.3	7,247.7	7,207.6	15.6	27.6	171.86	75.6	349.4	945.5	902.2	43.32	21.826	
7,400.0	7,232.4	7,284.7	7,244.5	15.7	27.8	171.93	75.6	350.1	955.1	911.6	43.52	21.945	
7,500.0	7,329.3	7,379.6	7,339.4	15.9	28.1	172.09	75.2	351.7	978.5	934.5	44.06	22.208	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
0.0	0.0	0.0	0.8	3.0	3.0	-90.35	-0.5	-80.0	80.0				
100.0	100.0	99.2	100.0	3.1	3.1	-90.35	-0.5	-80.0	80.0	73.4	6.56	12.198	
200.0	200.0	199.2	200.0	3.2	3.3	-90.35	-0.5	-80.0	80.0	73.1	6.91	11.586	
300.0	300.0	299.2	300.0	3.3	3.6	-90.35	-0.5	-80.0	80.0	72.8	7.24	11.055	
400.0	400.0	399.2	400.0	3.4	3.8	-90.35	-0.5	-80.0	80.0	72.4	7.55	10.590	
500.0	500.0	499.2	500.0	3.6	4.0	-90.35	-0.5	-80.0	80.0	72.1	7.86	10.178	
600.0	600.0	599.2	600.0	3.7	4.1	-90.35	-0.5	-80.0	80.0	71.8	8.16	9.810	
700.0	700.0	699.2	700.0	3.8	4.3	-90.35	-0.5	-80.0	80.0	71.6	8.44	9.478	
800.0	800.0	799.2	800.0	3.9	4.5	-90.35	-0.5	-80.0	80.0	71.3	8.72	9.176	
900.0	900.0	899.2	900.0	4.0	4.7	-90.35	-0.5	-80.0	80.0	71.0	8.99	8.900	
1,000.0	1,000.0	999.2	1,000.0	4.2	4.8	-90.35	-0.5	-80.0	80.0	70.7	9.25	8.647	
1,100.0	1,100.0	1,099.2	1,100.0	4.3	5.0	-90.35	-0.5	-80.0	80.0	70.5	9.51	8.414	
1,200.0	1,200.0	1,199.2	1,200.0	4.4	5.2	-90.35	-0.5	-80.0	80.0	70.2	9.76	8.197	
1,300.0	1,300.0	1,299.2	1,300.0	4.5	5.3	-90.35	-0.5	-80.0	80.0	70.0	10.01	7.996	
1,400.0	1,400.0	1,399.2	1,400.0	4.6	5.5	-90.35	-0.5	-80.0	80.0	69.8	10.25	7.807	
1,500.0	1,500.0	1,499.2	1,500.0	4.8	5.6	-90.35	-0.5	-80.0	80.0	69.5	10.48	7.631	
1,600.0	1,600.0	1,599.2	1,600.0	4.9	5.8	-90.35	-0.5	-80.0	80.0	69.3	10.72	7.466	
1,700.0	1,700.0	1,699.2	1,700.0	5.0	5.9	-90.35	-0.5	-80.0	80.0	69.1	10.94	7.310	
1,800.0	1,800.0	1,799.2	1,800.0	5.1	6.0	-90.35	-0.5	-80.0	80.0	68.8	11.17	7.163	
1,900.0	1,900.0	1,899.2	1,900.0	5.2	6.2	-90.35	-0.5	-80.0	80.0	68.6	11.39	7.024	
2,000.0	2,000.0	1,999.2	2,000.0	5.3	6.3	-90.35	-0.5	-80.0	80.0	68.4	11.61	6.892 CC, ES	
2,100.0	2,100.0	2,097.6	2,098.4	5.5	6.5	-105.24	0.9	-80.9	81.3	69.5	11.85	6.864 SF	
2,200.0	2,199.9	2,195.9	2,196.6	5.6	6.7	-104.90	5.0	-83.8	85.2	73.1	12.14	7.021	
2,266.7	2,266.5	2,261.3	2,261.8	5.7	6.9	-104.56	9.3	-86.8	89.3	77.0	12.30	7.261	
2,300.0	2,299.7	2,294.0	2,294.3	5.7	7.0	-111.73	11.9	-88.6	91.9	79.6	12.37	7.433	
2,400.0	2,399.3	2,391.4	2,390.9	5.9	7.2	-125.74	21.4	-95.2	103.4	90.7	12.70	8.136	
2,500.0	2,498.6	2,487.6	2,486.1	6.1	7.5	-132.74	33.5	-103.6	120.1	107.1	13.03	9.217	
2,600.0	2,597.5	2,585.1	2,582.1	6.2	7.8	-136.70	47.3	-113.1	141.3	127.8	13.49	10.471	
2,700.0	2,695.9	2,682.1	2,677.6	6.4	8.0	-139.64	61.0	-122.6	165.6	151.8	13.86	11.949	
2,800.0	2,793.6	2,778.2	2,772.4	6.6	8.3	-142.06	74.6	-132.0	193.1	178.9	14.22	13.584	
2,900.0	2,890.5	2,873.4	2,866.1	6.8	8.5	-144.13	88.0	-141.4	223.7	209.1	14.59	15.336	
2,903.6	2,894.0	2,876.8	2,869.5	6.8	8.5	-144.20	88.5	-141.7	224.8	210.2	14.60	15.401	
3,000.0	2,987.0	2,968.1	2,959.4	6.9	8.8	-144.66	101.4	-150.6	255.9	241.0	14.91	17.163	
3,100.0	3,083.5	3,062.7	3,052.6	7.1	9.1	-145.03	114.7	-159.9	288.1	272.9	15.24	18.903	
3,200.0	3,180.0	3,157.4	3,145.9	7.2	9.4	-145.32	128.1	-169.2	320.4	304.8	15.58	20.557	
3,300.0	3,276.5	3,252.0	3,239.1	7.4	9.7	-145.57	141.5	-178.4	352.6	336.7	15.93	22.128	
3,400.0	3,373.0	3,346.7	3,332.4	7.6	10.0	-145.77	154.8	-187.7	384.8	368.5	16.29	23.620	
3,500.0	3,469.4	3,441.3	3,425.6	7.7	10.3	-145.94	168.2	-197.0	417.1	400.4	16.66	25.037	
3,600.0	3,565.9	3,536.0	3,518.8	7.9	10.6	-146.08	181.5	-206.2	449.3	432.3	17.03	26.381	
3,700.0	3,662.4	3,630.6	3,612.1	8.1	11.0	-146.21	194.9	-215.5	481.6	464.2	17.41	27.658	
3,800.0	3,758.9	3,725.3	3,705.3	8.3	11.3	-146.32	208.3	-224.8	513.8	496.1	17.80	28.869	
3,900.0	3,855.4	3,819.9	3,798.6	8.4	11.7	-146.42	221.6	-234.0	546.1	527.9	18.19	30.020	
4,000.0	3,951.9	3,914.6	3,891.8	8.6	12.0	-146.50	235.0	-243.3	578.4	559.8	18.59	31.113	
4,100.0	4,048.3	4,009.2	3,985.1	8.8	12.4	-146.58	248.4	-252.6	610.6	591.6	18.99	32.152	
4,200.0	4,144.8	4,103.9	4,078.3	9.0	12.7	-146.65	261.7	-261.8	642.9	623.5	19.40	33.139	
4,300.0	4,241.3	4,198.5	4,171.6	9.2	13.1	-146.71	275.1	-271.1	675.1	655.3	19.81	34.078	
4,400.0	4,337.8	4,293.2	4,264.8	9.4	13.5	-146.77	288.5	-280.4	707.4	687.2	20.23	34.971	
4,500.0	4,434.3	4,387.8	4,358.0	9.6	13.9	-146.82	301.8	-289.6	739.7	719.0	20.65	35.820	
4,600.0	4,530.8	4,482.5	4,451.3	9.8	14.2	-146.87	315.2	-298.9	771.9	750.9	21.07	36.630	
4,700.0	4,627.3	4,577.1	4,544.5	10.0	14.6	-146.92	328.5	-308.2	804.2	782.7	21.50	37.401	
4,800.0	4,723.7	4,671.8	4,637.8	10.2	15.0	-146.96	341.9	-317.4	836.5	814.5	21.93	38.137	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
4,900.0	4,820.2	4,766.4	4,731.0	10.4	15.4	-146.99	355.3	-326.7	868.7	846.4	22.37	38.839	
5,000.0	4,916.7	4,861.1	4,824.3	10.6	15.8	-147.03	368.6	-336.0	901.0	878.2	22.81	39.508	
5,100.0	5,013.2	4,955.7	4,917.5	10.8	16.2	-147.06	382.0	-345.2	933.3	910.0	23.25	40.148	
5,200.0	5,109.7	5,050.4	5,010.7	11.0	16.6	-147.09	395.4	-354.5	965.5	941.8	23.69	40.759	
5,300.0	5,206.2	5,145.0	5,104.0	11.2	16.9	-147.12	408.7	-363.8	997.8	973.6	24.13	41.344	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
0.0	0.0	0.0	0.2	3.0	3.0	-90.35	-0.4	-60.0	60.0				
100.0	100.0	99.8	100.0	3.1	3.1	-90.35	-0.4	-60.0	60.0	53.4	6.56	9.147	
200.0	200.0	199.8	200.0	3.2	3.3	-90.35	-0.4	-60.0	60.0	53.1	6.91	8.687	
300.0	300.0	299.8	300.0	3.3	3.6	-90.35	-0.4	-60.0	60.0	52.8	7.24	8.290	
400.0	400.0	399.8	400.0	3.4	3.8	-90.35	-0.4	-60.0	60.0	52.4	7.56	7.941	
500.0	500.0	499.8	500.0	3.6	4.0	-90.35	-0.4	-60.0	60.0	52.1	7.86	7.633	
600.0	600.0	599.8	600.0	3.7	4.1	-90.35	-0.4	-60.0	60.0	51.8	8.16	7.356	
700.0	700.0	699.8	700.0	3.8	4.3	-90.35	-0.4	-60.0	60.0	51.6	8.44	7.107	
800.0	800.0	799.8	800.0	3.9	4.5	-90.35	-0.4	-60.0	60.0	51.3	8.72	6.881	
900.0	900.0	899.8	900.0	4.0	4.7	-90.35	-0.4	-60.0	60.0	51.0	8.99	6.674	
1,000.0	1,000.0	999.8	1,000.0	4.2	4.8	-90.35	-0.4	-60.0	60.0	50.7	9.25	6.485	
1,100.0	1,100.0	1,099.8	1,100.0	4.3	5.0	-90.35	-0.4	-60.0	60.0	50.5	9.51	6.309	
1,200.0	1,200.0	1,199.8	1,200.0	4.4	5.2	-90.35	-0.4	-60.0	60.0	50.2	9.76	6.147	
1,300.0	1,300.0	1,299.8	1,300.0	4.5	5.3	-90.35	-0.4	-60.0	60.0	50.0	10.01	5.996	
1,400.0	1,400.0	1,399.8	1,400.0	4.6	5.5	-90.35	-0.4	-60.0	60.0	49.8	10.25	5.855	
1,500.0	1,500.0	1,499.8	1,500.0	4.8	5.6	-90.35	-0.4	-60.0	60.0	49.5	10.48	5.723	
1,600.0	1,600.0	1,599.8	1,600.0	4.9	5.8	-90.35	-0.4	-60.0	60.0	49.3	10.72	5.599	
1,700.0	1,700.0	1,699.8	1,700.0	5.0	5.9	-90.35	-0.4	-60.0	60.0	49.1	10.95	5.482	
1,800.0	1,800.0	1,799.8	1,800.0	5.1	6.0	-90.35	-0.4	-60.0	60.0	48.8	11.17	5.372	
1,900.0	1,900.0	1,899.8	1,900.0	5.2	6.2	-90.35	-0.4	-60.0	60.0	48.6	11.39	5.267	
2,000.0	2,000.0	1,999.8	2,000.0	5.3	6.3	-90.35	-0.4	-60.0	60.0	48.4	11.61	5.168	CC, ES
2,100.0	2,100.0	2,099.8	2,100.0	5.5	6.5	-104.90	1.4	-60.0	60.4	48.5	11.82	5.104	
2,200.0	2,199.9	2,199.7	2,199.8	5.6	6.8	-103.55	6.6	-60.1	61.4	49.3	12.10	5.078	SF
2,266.7	2,266.5	2,266.3	2,266.1	5.7	6.9	-102.19	12.0	-60.1	62.6	50.3	12.24	5.113	
2,300.0	2,299.7	2,299.6	2,299.2	5.7	7.0	-108.72	15.3	-60.1	63.4	51.1	12.30	5.158	
2,400.0	2,399.3	2,399.1	2,398.0	5.9	7.2	-120.34	27.4	-60.2	68.5	55.9	12.61	5.437	
2,500.0	2,498.6	2,498.5	2,496.2	6.1	7.4	-125.09	42.2	-60.3	77.5	64.6	12.85	6.031	
2,600.0	2,597.5	2,597.6	2,594.3	6.2	7.6	-128.31	57.3	-60.5	89.8	76.6	13.15	6.826	
2,700.0	2,695.9	2,696.5	2,692.0	6.4	7.9	-131.22	72.2	-60.6	105.1	91.6	13.45	7.810	
2,800.0	2,793.6	2,794.8	2,789.1	6.6	8.1	-134.05	87.2	-60.7	123.3	109.6	13.75	8.965	
2,900.0	2,890.5	2,892.5	2,885.7	6.8	8.4	-136.80	102.0	-60.8	144.5	130.4	14.07	10.273	
2,903.6	2,894.0	2,896.0	2,889.2	6.8	8.4	-136.89	102.5	-60.8	145.3	131.3	14.08	10.323	
3,000.0	2,987.0	2,989.8	2,981.9	6.9	8.7	-137.95	116.7	-60.9	167.4	153.0	14.34	11.672	
3,100.0	3,083.5	3,087.1	3,078.1	7.1	9.0	-138.79	131.5	-61.1	190.2	175.6	14.61	13.018	
3,200.0	3,180.0	3,184.4	3,174.3	7.2	9.3	-139.45	146.3	-61.2	213.1	198.3	14.89	14.313	
3,300.0	3,276.5	3,281.7	3,270.4	7.4	9.6	-139.98	161.0	-61.3	236.1	220.9	15.18	15.556	
3,400.0	3,373.0	3,379.0	3,366.6	7.6	9.9	-140.41	175.8	-61.4	259.0	243.6	15.46	16.751	
3,500.0	3,469.4	3,476.3	3,462.8	7.7	10.2	-140.78	190.5	-61.5	282.0	266.2	15.75	17.899	
3,600.0	3,565.9	3,573.7	3,559.0	7.9	10.6	-141.09	205.3	-61.7	305.0	288.9	16.05	19.002	
3,700.0	3,662.4	3,671.0	3,655.2	8.1	10.9	-141.36	220.1	-61.8	328.0	311.6	16.35	20.061	
3,800.0	3,758.9	3,768.3	3,751.4	8.3	11.3	-141.59	234.8	-61.9	350.9	334.3	16.65	21.079	
3,900.0	3,855.4	3,865.6	3,847.6	8.4	11.6	-141.79	249.6	-62.0	373.9	357.0	16.95	22.057	
4,000.0	3,951.9	3,962.9	3,943.8	8.6	12.0	-141.97	264.3	-62.1	396.9	379.7	17.26	22.998	
4,100.0	4,048.3	4,060.2	4,039.9	8.8	12.3	-142.13	279.1	-62.3	419.9	402.3	17.57	23.902	
4,200.0	4,144.8	4,157.5	4,136.1	9.0	12.7	-142.27	293.9	-62.4	442.9	425.0	17.88	24.772	
4,300.0	4,241.3	4,254.8	4,232.3	9.2	13.1	-142.40	308.6	-62.5	465.9	447.7	18.19	25.608	
4,400.0	4,337.8	4,352.2	4,328.5	9.4	13.5	-142.52	323.4	-62.6	488.9	470.4	18.51	26.413	
4,500.0	4,434.3	4,449.5	4,424.7	9.6	13.8	-142.63	338.1	-62.7	511.9	493.1	18.83	27.188	
4,600.0	4,530.8	4,546.8	4,520.9	9.8	14.2	-142.73	352.9	-62.9	534.9	515.8	19.15	27.935	
4,700.0	4,627.3	4,644.1	4,617.1	10.0	14.6	-142.82	367.7	-63.0	557.9	538.5	19.47	28.654	
4,800.0	4,723.7	4,741.4	4,713.3	10.2	15.0	-142.90	382.4	-63.1	581.0	561.2	19.80	29.347	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
4,900.0	4,820.2	4,838.7	4,809.4	10.4	15.4	-142.97	397.2	-63.2	604.0	583.8	20.12	30.015	
5,000.0	4,916.7	4,936.0	4,905.6	10.6	15.8	-143.04	411.9	-63.3	627.0	606.5	20.45	30.659	
5,100.0	5,013.2	5,033.4	5,001.8	10.8	16.2	-143.11	426.7	-63.4	650.0	629.2	20.78	31.280	
5,200.0	5,109.7	5,130.7	5,098.0	11.0	16.6	-143.17	441.5	-63.6	673.0	651.9	21.11	31.880	
5,300.0	5,206.2	5,228.0	5,194.2	11.2	17.0	-143.23	456.2	-63.7	696.0	674.6	21.44	32.459	
5,400.0	5,302.7	5,325.3	5,290.4	11.4	17.4	-143.28	471.0	-63.8	719.0	697.3	21.78	33.018	
5,500.0	5,399.1	5,422.6	5,386.6	11.6	17.8	-143.33	485.8	-63.9	742.1	719.9	22.11	33.559	
5,600.0	5,495.6	5,519.9	5,482.8	11.8	18.2	-143.38	500.5	-64.0	765.1	742.6	22.45	34.081	
5,700.0	5,592.1	5,617.2	5,578.9	12.0	18.6	-143.42	515.3	-64.2	788.1	765.3	22.79	34.586	
5,800.0	5,688.6	5,714.5	5,675.1	12.2	19.0	-143.46	530.0	-64.3	811.1	788.0	23.13	35.074	
5,900.0	5,785.1	5,811.9	5,771.3	12.4	19.4	-143.50	544.8	-64.4	834.1	810.7	23.47	35.547	
6,000.0	5,881.6	5,909.2	5,867.5	12.7	19.8	-143.54	559.6	-64.5	857.1	833.3	23.81	36.004	
6,100.0	5,978.1	6,006.5	5,963.7	12.9	20.2	-143.58	574.3	-64.6	880.2	856.0	24.15	36.447	
6,200.0	6,074.5	6,103.8	6,059.9	13.1	20.6	-143.61	589.1	-64.8	903.2	878.7	24.49	36.876	
6,300.0	6,171.0	6,201.1	6,156.1	13.3	21.0	-143.64	603.8	-64.9	926.2	901.4	24.84	37.292	
6,400.0	6,267.5	6,298.4	6,252.3	13.5	21.4	-143.67	618.6	-65.0	949.2	924.0	25.18	37.694	
6,500.0	6,364.0	6,395.7	6,348.4	13.7	21.8	-143.70	633.4	-65.1	972.2	946.7	25.53	38.085	
6,600.0	6,460.5	6,493.1	6,444.6	14.0	22.2	-143.73	648.1	-65.2	995.3	969.4	25.88	38.464	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
0.0	0.0	0.0	0.5	3.0	3.0	-90.36	-0.2	-40.0	40.0				
100.0	100.0	99.5	100.0	3.1	3.1	-90.36	-0.2	-40.0	40.0	33.4	6.56	6.098	
200.0	200.0	199.5	200.0	3.2	3.3	-90.36	-0.2	-40.0	40.0	33.1	6.91	5.792	
300.0	300.0	299.5	300.0	3.3	3.6	-90.36	-0.2	-40.0	40.0	32.8	7.24	5.527	
400.0	400.0	399.5	400.0	3.4	3.8	-90.36	-0.2	-40.0	40.0	32.4	7.55	5.295	
500.0	500.0	499.5	500.0	3.6	4.0	-90.36	-0.2	-40.0	40.0	32.1	7.86	5.089	
600.0	600.0	599.5	600.0	3.7	4.1	-90.36	-0.2	-40.0	40.0	31.8	8.16	4.905	
700.0	700.0	699.5	700.0	3.8	4.3	-90.36	-0.2	-40.0	40.0	31.6	8.44	4.739	
800.0	800.0	799.5	800.0	3.9	4.5	-90.36	-0.2	-40.0	40.0	31.3	8.72	4.588	
900.0	900.0	899.5	900.0	4.0	4.7	-90.36	-0.2	-40.0	40.0	31.0	8.99	4.450	
1,000.0	1,000.0	999.5	1,000.0	4.2	4.8	-90.36	-0.2	-40.0	40.0	30.7	9.25	4.323	
1,100.0	1,100.0	1,099.5	1,100.0	4.3	5.0	-90.36	-0.2	-40.0	40.0	30.5	9.51	4.207	
1,200.0	1,200.0	1,199.5	1,200.0	4.4	5.2	-90.36	-0.2	-40.0	40.0	30.2	9.76	4.098	
1,300.0	1,300.0	1,299.5	1,300.0	4.5	5.3	-90.36	-0.2	-40.0	40.0	30.0	10.01	3.998	
1,400.0	1,400.0	1,399.5	1,400.0	4.6	5.5	-90.36	-0.2	-40.0	40.0	29.8	10.25	3.904	
1,500.0	1,500.0	1,499.5	1,500.0	4.8	5.6	-90.36	-0.2	-40.0	40.0	29.5	10.48	3.815	
1,600.0	1,600.0	1,599.5	1,600.0	4.9	5.8	-90.36	-0.2	-40.0	40.0	29.3	10.72	3.733	
1,700.0	1,700.0	1,699.5	1,700.0	5.0	5.9	-90.36	-0.2	-40.0	40.0	29.1	10.94	3.655	
1,800.0	1,800.0	1,799.5	1,800.0	5.1	6.0	-90.36	-0.2	-40.0	40.0	28.8	11.17	3.581	
1,900.0	1,900.0	1,899.5	1,900.0	5.2	6.2	-90.36	-0.2	-40.0	40.0	28.6	11.39	3.512	
2,000.0	2,000.0	1,999.5	2,000.0	5.3	6.3	-90.36	-0.2	-40.0	40.0	28.4	11.61	3.446	
2,100.0	2,100.0	2,099.5	2,100.0	5.5	6.5	-107.14	-0.2	-40.0	40.4	28.5	11.83	3.413	
2,200.0	2,199.9	2,200.3	2,200.8	5.6	6.7	-110.46	1.2	-39.0	40.6	28.4	12.14	3.344	
2,266.7	2,266.5	2,267.6	2,268.0	5.7	6.8	-112.46	3.8	-37.3	40.1	27.8	12.31	3.256	
2,300.0	2,299.7	2,301.2	2,301.5	5.7	6.9	-120.66	5.7	-36.1	39.8	27.4	12.39	3.211	
2,366.7	2,366.2	2,368.6	2,368.7	5.8	7.0	-132.38	10.3	-33.1	39.5	26.9	12.61	3.133 CC	
2,400.0	2,399.3	2,402.1	2,402.1	5.9	7.1	-136.29	13.1	-31.3	39.6	26.9	12.73	3.111 ES	
2,500.0	2,498.6	2,503.0	2,502.2	6.1	7.4	-142.40	23.4	-24.5	40.5	27.5	13.04	3.108 SF	
2,600.0	2,597.5	2,603.8	2,601.7	6.2	7.6	-142.62	36.7	-15.8	42.9	29.6	13.34	3.219	
2,700.0	2,695.9	2,704.4	2,700.4	6.4	7.9	-139.39	52.9	-5.2	47.2	33.6	13.60	3.469	
2,800.0	2,793.6	2,804.7	2,798.1	6.6	8.2	-134.59	71.9	7.3	53.8	39.9	13.85	3.882	
2,900.0	2,890.5	2,904.4	2,894.4	6.8	8.5	-129.72	93.5	21.4	63.0	48.9	14.07	4.478	
2,903.6	2,894.0	2,908.0	2,897.9	6.8	8.5	-129.58	94.3	21.9	63.4	49.3	14.08	4.503	
3,000.0	2,987.0	3,003.6	2,990.1	6.9	8.8	-125.21	115.6	35.9	74.2	59.8	14.33	5.174	
3,100.0	3,083.5	3,102.9	3,085.7	7.1	9.1	-121.85	137.7	50.4	85.6	71.0	14.61	5.861	
3,200.0	3,180.0	3,202.1	3,181.3	7.2	9.4	-119.30	159.9	64.9	97.4	82.4	14.91	6.529	
3,300.0	3,276.5	3,301.3	3,277.0	7.4	9.7	-117.29	182.0	79.4	109.2	94.0	15.22	7.175	
3,400.0	3,373.0	3,400.6	3,372.6	7.6	10.1	-115.68	204.1	93.9	121.2	105.6	15.54	7.797	
3,500.0	3,469.4	3,499.8	3,468.3	7.7	10.4	-114.35	226.2	108.4	133.2	117.3	15.87	8.393	
3,600.0	3,565.9	3,599.0	3,563.9	7.9	10.8	-113.25	248.4	122.9	145.3	129.1	16.21	8.964	
3,700.0	3,662.4	3,698.2	3,659.5	8.1	11.2	-112.32	270.5	137.4	157.5	140.9	16.56	9.510	
3,800.0	3,758.9	3,797.5	3,755.2	8.3	11.6	-111.52	292.6	151.9	169.6	152.7	16.91	10.031	
3,900.0	3,855.4	3,896.7	3,850.8	8.4	12.0	-110.83	314.8	166.4	181.9	164.6	17.27	10.528	
4,000.0	3,951.9	3,995.9	3,946.4	8.6	12.4	-110.22	336.9	180.9	194.1	176.4	17.64	11.002	
4,100.0	4,048.3	4,095.2	4,042.1	8.8	12.8	-109.69	359.0	195.4	206.3	188.3	18.01	11.454	
4,200.0	4,144.8	4,194.4	4,137.7	9.0	13.2	-109.22	381.2	209.9	218.6	200.2	18.39	11.885	
4,300.0	4,241.3	4,293.6	4,233.4	9.2	13.6	-108.79	403.3	224.4	230.9	212.1	18.78	12.296	
4,400.0	4,337.8	4,392.9	4,329.0	9.4	14.1	-108.41	425.4	238.9	243.2	224.0	19.17	12.688	
4,500.0	4,434.3	4,492.1	4,424.6	9.6	14.5	-108.07	447.5	253.4	255.5	235.9	19.56	13.061	
4,600.0	4,530.8	4,591.3	4,520.3	9.8	14.9	-107.76	469.7	267.9	267.8	247.8	19.96	13.418	
4,700.0	4,627.3	4,690.5	4,615.9	10.0	15.4	-107.47	491.8	282.4	280.1	259.7	20.36	13.758	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
4,800.0	4,723.7	4,789.8	4,711.5	10.2	15.8	-107.21	513.9	296.9	292.4	271.7	20.76	14.083	
4,900.0	4,820.2	4,889.0	4,807.2	10.4	16.3	-106.97	536.1	311.4	304.7	283.6	21.17	14.393	
5,000.0	4,916.7	4,988.5	4,903.1	10.6	16.7	-106.77	558.2	325.9	317.1	295.5	21.55	14.712	
5,100.0	5,013.2	5,088.7	5,000.0	10.8	17.1	-106.80	579.4	339.8	329.2	307.2	21.95	14.998	
5,200.0	5,109.7	5,188.9	5,097.4	11.0	17.6	-107.13	599.2	352.7	341.0	318.7	22.32	15.274	
5,300.0	5,206.2	5,289.1	5,195.2	11.2	18.0	-107.72	617.5	364.7	352.6	329.9	22.68	15.545	
5,400.0	5,302.7	5,389.2	5,293.2	11.4	18.5	-108.55	634.4	375.8	363.9	340.9	23.02	15.812	
5,500.0	5,399.1	5,489.2	5,391.5	11.6	18.9	-109.59	649.8	385.9	375.2	351.8	23.33	16.079	
5,600.0	5,495.6	5,588.9	5,489.8	11.8	19.3	-110.82	663.8	395.1	386.3	362.7	23.64	16.345	
5,700.0	5,592.1	5,688.4	5,588.1	12.0	19.7	-112.23	676.3	403.3	397.6	373.6	23.93	16.612	
5,800.0	5,688.6	5,787.5	5,686.4	12.2	20.2	-113.80	687.4	410.5	408.9	384.7	24.23	16.880	
5,900.0	5,785.1	5,886.3	5,784.5	12.4	20.5	-115.51	697.0	416.8	420.6	396.0	24.52	17.149	
6,000.0	5,881.6	5,984.6	5,882.3	12.7	20.9	-117.35	705.1	422.1	432.6	407.7	24.83	17.419	
6,100.0	5,978.1	6,082.4	5,979.8	12.9	21.3	-119.29	711.8	426.5	445.1	419.9	25.16	17.688	
6,200.0	6,074.5	6,179.7	6,076.8	13.1	21.6	-121.32	717.1	430.0	458.3	432.7	25.52	17.958	
6,300.0	6,171.0	6,276.3	6,173.4	13.3	21.9	-123.43	721.0	432.5	472.2	446.3	25.90	18.228	
6,400.0	6,267.5	6,372.3	6,269.3	13.5	22.2	-125.59	723.5	434.2	487.0	460.6	26.32	18.499	
6,500.0	6,364.0	6,467.6	6,364.6	13.7	22.4	-127.79	724.7	434.9	502.8	476.0	26.77	18.778	
6,600.0	6,460.5	6,563.5	6,460.5	14.0	22.5	-130.01	724.7	435.0	519.6	492.3	27.25	19.066	
6,700.0	6,557.0	6,660.0	6,557.0	14.2	22.5	-132.11	724.7	435.0	537.2	509.5	27.74	19.363	
6,800.0	6,653.4	6,756.4	6,653.4	14.4	22.6	-134.09	724.7	435.0	555.5	527.3	28.25	19.667	
6,900.0	6,749.9	6,852.9	6,749.9	14.6	22.6	-135.94	724.7	435.0	574.4	545.7	28.75	19.980	
7,000.0	6,846.4	6,949.4	6,846.4	14.8	22.7	-137.67	724.7	435.0	593.9	564.6	29.25	20.301	
7,100.0	6,942.9	7,045.9	6,942.9	15.1	22.7	-139.30	724.7	435.0	613.9	584.1	29.75	20.632	
7,200.0	7,039.4	7,142.4	7,039.4	15.3	22.8	-140.83	724.7	435.0	634.3	604.1	30.25	20.971	
7,300.0	7,135.9	7,238.9	7,135.9	15.5	22.8	-142.26	724.7	435.0	655.2	624.5	30.74	21.317	
7,360.5	7,194.3	7,297.3	7,194.3	15.6	22.9	-143.09	724.7	435.0	668.0	637.0	31.01	21.539	
7,400.0	7,232.4	7,335.4	7,232.4	15.7	22.9	-143.65	724.7	435.0	676.3	645.1	31.19	21.685	
7,500.0	7,329.3	7,432.3	7,329.3	15.9	22.9	-144.96	724.7	435.0	696.7	665.0	31.64	22.015	
7,600.0	7,426.6	7,529.6	7,426.6	16.1	23.0	-146.13	724.7	435.0	715.8	683.8	32.07	22.318	
7,700.0	7,524.3	7,627.3	7,524.3	16.4	23.0	-147.15	724.7	435.0	733.8	701.3	32.48	22.591	
7,800.0	7,622.3	7,725.3	7,622.3	16.6	23.1	-148.05	724.7	435.0	750.5	717.6	32.87	22.834	
7,900.0	7,720.7	7,823.7	7,720.7	16.8	23.1	-148.84	724.7	435.0	765.9	732.6	33.23	23.045	
8,000.0	7,819.4	7,922.4	7,819.4	17.0	23.2	-149.52	724.7	435.0	779.9	746.3	33.58	23.224	
8,100.0	7,918.3	8,021.3	7,918.3	17.2	23.2	-150.12	724.7	435.0	792.4	758.5	33.91	23.370	
8,200.0	8,017.5	8,120.5	8,017.5	17.3	23.3	-150.63	724.7	435.0	803.6	769.4	34.22	23.483	
8,300.0	8,116.9	8,219.9	8,116.9	17.5	23.3	-151.05	724.7	435.0	813.2	778.7	34.51	23.564	
8,400.0	8,216.4	8,319.4	8,216.4	17.7	23.4	-151.41	724.7	435.0	821.4	786.6	34.79	23.612	
8,500.0	8,316.1	8,419.1	8,316.1	17.9	23.4	-151.69	724.7	435.0	828.1	793.0	35.04	23.629	
8,600.0	8,416.0	8,519.0	8,416.0	18.0	23.5	-151.90	724.7	435.0	833.2	797.9	35.28	23.614	
8,700.0	8,515.9	8,618.9	8,515.9	18.2	23.6	-152.05	724.7	435.0	836.8	801.3	35.50	23.569	
8,800.0	8,615.9	8,718.9	8,615.9	18.3	23.6	-152.14	724.7	435.0	838.9	803.2	35.70	23.497	
8,884.1	8,700.0	8,803.0	8,700.0	18.4	23.6	-91.82	724.7	435.0	839.4	803.6	35.82	23.433	
8,900.0	8,715.9	8,818.8	8,715.9	18.4	23.7	-91.82	724.7	435.0	839.4	803.6	35.83	23.425	
9,000.0	8,815.9	8,918.8	8,815.9	18.4	23.7	-91.82	724.7	435.0	839.4	803.5	35.96	23.341	
9,100.0	8,915.9	9,018.8	8,915.9	18.5	23.8	-91.82	724.7	435.0	839.4	803.3	36.08	23.266	
9,200.0	9,015.9	9,118.8	9,015.9	18.6	23.8	-91.82	724.7	435.0	839.4	803.2	36.20	23.191	
9,300.0	9,115.9	9,218.8	9,115.9	18.6	23.9	-91.82	724.7	435.0	839.4	803.1	36.31	23.116	
9,400.0	9,215.9	9,318.8	9,215.9	18.7	23.9	-91.82	724.7	435.0	839.4	803.0	36.43	23.042	
9,500.0	9,315.9	9,418.8	9,315.9	18.7	24.0	-91.82	724.7	435.0	839.4	802.9	36.55	22.968	
9,600.0	9,415.9	9,518.8	9,415.9	18.8	24.0	-91.82	724.7	435.0	839.4	802.8	36.67	22.894	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 **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
9,700.0	9,515.9	9,618.8	9,515.9	18.8	24.1	-91.82	724.7	435.0	839.4	802.6	36.78	22.820	
9,800.0	9,615.9	9,718.8	9,615.9	18.9	24.1	-91.82	724.7	435.0	839.4	802.5	36.90	22.747	
9,900.0	9,715.9	9,818.8	9,715.9	18.9	24.2	-91.82	724.7	435.0	839.4	802.4	37.02	22.674	
10,000.0	9,815.9	9,918.8	9,815.9	19.0	24.3	-91.82	724.7	435.0	839.4	802.3	37.14	22.601	
10,100.0	9,915.9	10,018.8	9,915.9	19.1	24.3	-91.82	724.7	435.0	839.4	802.2	37.26	22.529	
10,200.0	10,015.9	10,118.8	10,015.9	19.1	24.4	-91.82	724.7	435.0	839.4	802.0	37.38	22.456	
10,300.0	10,115.9	10,218.8	10,115.9	19.2	24.4	-91.82	724.7	435.0	839.4	801.9	37.50	22.384	
10,400.0	10,215.9	10,318.8	10,215.9	19.2	24.5	-91.82	724.7	435.0	839.4	801.8	37.62	22.313	
10,500.0	10,315.9	10,418.8	10,315.9	19.3	24.5	-91.82	724.7	435.0	839.4	801.7	37.74	22.241	
10,600.0	10,415.9	10,518.8	10,415.9	19.3	24.6	-91.82	724.7	435.0	839.4	801.6	37.86	22.170	
10,700.0	10,515.9	10,618.8	10,515.9	19.4	24.6	-91.82	724.7	435.0	839.4	801.4	37.98	22.099	
10,800.0	10,615.9	10,718.8	10,615.9	19.5	24.7	-91.82	724.7	435.0	839.4	801.3	38.11	22.029	
10,900.0	10,715.9	10,818.8	10,715.9	19.5	24.8	-91.82	724.7	435.0	839.4	801.2	38.23	21.958	
11,000.0	10,815.9	10,918.8	10,815.9	19.6	24.8	-91.82	724.7	435.0	839.4	801.1	38.35	21.888	
11,100.0	10,915.9	11,018.8	10,915.9	19.6	24.9	-91.82	724.7	435.0	839.4	801.0	38.47	21.819	
11,200.0	11,015.9	11,118.8	11,015.9	19.7	24.9	-91.82	724.7	435.0	839.4	800.8	38.60	21.749	
11,300.0	11,115.9	11,218.8	11,115.9	19.8	25.0	-91.82	724.7	435.0	839.4	800.7	38.72	21.680	
11,400.0	11,215.9	11,318.8	11,215.9	19.8	25.0	-91.82	724.7	435.0	839.4	800.6	38.84	21.611	
11,409.6	11,225.5	11,328.5	11,225.5	19.8	25.0	-91.82	724.7	435.0	839.4	800.6	38.85	21.605	
11,494.6	11,310.5	11,411.0	11,308.0	19.9	25.1	-91.83	724.6	435.0	839.4	800.5	38.94	21.557	
11,500.0	11,315.9	11,415.5	11,312.5	19.9	25.1	88.52	724.4	435.0	839.5	800.5	38.94	21.558	
11,525.0	11,340.8	11,436.4	11,333.3	19.9	25.0	88.47	723.2	434.9	839.6	800.7	38.93	21.570	
11,550.0	11,365.7	11,457.3	11,354.1	19.8	25.0	88.43	721.1	434.7	839.8	800.9	38.90	21.591	
11,575.0	11,390.5	11,478.2	11,374.8	19.8	24.9	88.39	718.1	434.5	840.1	801.3	38.86	21.619	
11,600.0	11,415.0	11,500.0	11,396.2	19.8	24.8	88.35	713.9	434.1	840.5	801.7	38.82	21.652	
11,625.0	11,439.2	11,520.0	11,415.7	19.8	24.8	88.31	709.3	433.8	841.0	802.2	38.77	21.694	
11,650.0	11,463.1	11,540.9	11,435.8	19.8	24.7	88.28	703.6	433.3	841.6	802.9	38.71	21.740	
11,675.0	11,486.6	11,561.8	11,455.6	19.7	24.6	88.24	697.0	432.8	842.2	803.6	38.65	21.792	
11,700.0	11,509.6	11,582.8	11,475.2	19.7	24.5	88.22	689.6	432.2	842.9	804.4	38.58	21.850	
11,725.0	11,532.0	11,603.7	11,494.4	19.7	24.5	88.19	681.2	431.6	843.7	805.2	38.51	21.912	
11,750.0	11,553.9	11,625.0	11,513.5	19.7	24.4	88.17	672.0	430.8	844.6	806.2	38.43	21.979	
11,775.0	11,575.0	11,645.8	11,531.8	19.6	24.3	88.15	662.1	430.1	845.6	807.2	38.35	22.051	
11,800.0	11,595.5	11,666.9	11,549.9	19.6	24.2	88.13	651.2	429.2	846.6	808.4	38.26	22.127	
11,825.0	11,615.1	11,688.1	11,567.5	19.6	24.2	88.12	639.6	428.3	847.7	809.6	38.17	22.207	
11,850.0	11,633.9	11,709.3	11,584.7	19.6	24.1	88.11	627.1	427.3	848.9	810.8	38.08	22.290	
11,875.0	11,651.9	11,730.6	11,601.3	19.6	24.0	88.10	613.9	426.3	850.2	812.2	37.99	22.376	
11,900.0	11,668.9	11,751.9	11,617.4	19.6	24.0	88.10	599.9	425.2	851.5	813.6	37.90	22.464	
11,925.0	11,684.9	11,775.0	11,634.0	19.6	23.9	88.11	583.9	423.9	852.8	815.0	37.82	22.549	
11,950.0	11,699.9	11,794.9	11,647.7	19.6	23.8	88.10	569.6	422.8	854.3	816.6	37.72	22.647	
11,975.0	11,713.8	11,816.5	11,661.9	19.6	23.8	88.11	553.3	421.5	855.8	818.2	37.63	22.740	
12,000.0	11,726.6	11,838.2	11,675.4	19.6	23.7	88.12	536.4	420.2	857.3	819.8	37.55	22.833	
12,025.0	11,738.3	11,860.0	11,688.2	19.6	23.7	88.13	518.7	418.8	859.0	821.5	37.47	22.925	
12,050.0	11,748.8	11,882.0	11,700.3	19.6	23.6	88.15	500.4	417.3	860.6	823.2	37.39	23.017	
12,075.0	11,758.1	11,904.1	11,711.5	19.6	23.6	88.17	481.5	415.9	862.4	825.0	37.32	23.107	
12,100.0	11,766.2	11,926.3	11,721.9	19.6	23.5	88.20	461.9	414.3	864.1	826.9	37.25	23.195	
12,125.0	11,773.1	11,948.6	11,731.4	19.6	23.5	88.23	441.8	412.7	865.9	828.7	37.20	23.280	
12,150.0	11,778.6	11,971.1	11,740.1	19.7	23.4	88.26	421.1	411.1	867.8	830.6	37.15	23.361	
12,175.0	11,782.9	11,993.8	11,747.8	19.7	23.4	88.30	399.8	409.4	869.7	832.6	37.11	23.437	
12,200.0	11,785.9	12,016.7	11,754.5	19.7	23.4	88.34	378.0	407.7	871.6	834.5	37.08	23.509	
12,225.0	11,787.6	12,039.7	11,760.2	19.7	23.4	88.39	355.8	406.0	873.5	836.5	37.05	23.575	
12,244.6	11,788.0	12,057.9	11,764.0	19.8	23.4	88.43	338.0	404.6	875.1	838.1	37.05	23.622	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
12,300.0	11,788.0	12,110.3	11,771.0	19.8	23.3	88.89	286.3	400.5	879.6	842.6	37.05	23.738	
12,400.0	11,788.0	12,235.9	11,772.5	20.0	23.4	89.00	161.0	392.0	887.1	849.6	37.49	23.666	
12,500.0	11,788.0	12,380.8	11,772.5	20.2	23.5	89.00	16.2	388.7	890.0	851.7	38.29	23.241	
12,600.0	11,788.0	12,483.9	11,772.5	20.4	23.6	89.00	-87.0	389.3	890.0	851.3	38.68	23.010	
12,700.0	11,788.0	12,583.9	11,772.5	20.6	23.7	89.00	-187.0	390.0	890.0	850.9	39.11	22.758	
12,800.0	11,788.0	12,683.9	11,772.5	20.8	23.8	89.00	-287.0	390.6	890.0	850.4	39.61	22.468	
12,900.0	11,788.0	12,783.9	11,772.5	21.1	24.0	89.00	-387.0	391.2	890.0	849.8	40.19	22.144	
13,000.0	11,788.0	12,883.9	11,772.5	21.4	24.2	89.00	-486.9	391.8	890.0	849.2	40.84	21.791	
13,100.0	11,788.0	12,983.9	11,772.5	21.7	24.4	89.00	-586.9	392.5	890.0	848.5	41.57	21.413	
13,200.0	11,788.0	13,083.9	11,772.5	22.0	24.7	89.00	-686.9	393.1	890.0	847.7	42.35	21.016	
13,300.0	11,788.0	13,183.9	11,772.5	22.3	25.0	89.00	-786.9	393.7	890.0	846.8	43.20	20.604	
13,400.0	11,788.0	13,283.9	11,772.5	22.7	25.3	89.00	-886.9	394.3	890.0	845.9	44.10	20.181	
13,500.0	11,788.0	13,383.9	11,772.5	23.1	25.7	89.00	-986.9	395.0	890.0	845.0	45.06	19.751	
13,600.0	11,788.0	13,483.9	11,772.5	23.5	26.1	89.00	-1,086.9	395.6	890.0	844.0	46.07	19.318	
13,700.0	11,788.0	13,583.9	11,772.5	23.9	26.6	89.00	-1,186.9	396.2	890.0	842.9	47.13	18.885	
13,800.0	11,788.0	13,683.9	11,772.5	24.3	27.1	89.00	-1,286.9	396.8	890.0	841.8	48.23	18.453	
13,900.0	11,788.0	13,783.9	11,772.5	24.8	27.6	89.00	-1,386.9	397.5	890.0	840.7	49.37	18.026	
14,000.0	11,788.0	13,883.9	11,772.5	25.3	28.1	89.00	-1,486.9	398.1	890.0	839.5	50.56	17.605	
14,100.0	11,788.0	13,983.9	11,772.5	25.8	28.7	89.00	-1,586.9	398.7	890.0	838.3	51.77	17.191	
14,200.0	11,788.0	14,083.9	11,772.5	26.3	29.3	89.00	-1,686.9	399.3	890.0	837.0	53.03	16.785	
14,300.0	11,788.0	14,183.9	11,772.5	26.9	30.0	89.00	-1,786.9	400.0	890.0	835.7	54.31	16.389	
14,400.0	11,788.0	14,283.9	11,772.5	27.4	30.6	89.00	-1,886.9	400.6	890.0	834.4	55.62	16.002	
14,500.0	11,788.0	14,383.9	11,772.5	28.0	31.3	89.00	-1,986.9	401.2	890.1	833.1	56.96	15.626	
14,600.0	11,788.0	14,483.9	11,772.5	28.6	32.0	89.00	-2,086.9	401.8	890.1	831.7	58.32	15.261	
14,700.0	11,788.0	14,583.9	11,772.5	29.2	32.7	89.00	-2,186.9	402.5	890.1	830.3	59.71	14.907	
14,800.0	11,788.0	14,683.9	11,772.5	29.8	33.5	89.00	-2,286.9	403.1	890.1	828.9	61.12	14.563	
14,900.0	11,788.0	14,783.9	11,772.5	30.4	34.2	89.00	-2,386.9	403.7	890.1	827.5	62.54	14.231	
15,000.0	11,788.0	14,883.9	11,772.5	31.0	35.0	89.00	-2,486.9	404.3	890.1	826.1	63.99	13.909	
15,100.0	11,788.0	14,983.9	11,772.5	31.7	35.8	89.00	-2,586.9	404.9	890.1	824.6	65.46	13.598	
15,200.0	11,788.0	15,083.9	11,772.5	32.3	36.5	89.00	-2,686.9	405.6	890.1	823.1	66.94	13.297	
15,300.0	11,788.0	15,183.9	11,772.5	33.0	37.3	89.00	-2,786.9	406.2	890.1	821.6	68.43	13.006	
15,400.0	11,788.0	15,283.9	11,772.5	33.7	38.1	89.00	-2,886.9	406.8	890.1	820.1	69.95	12.725	
15,500.0	11,788.0	15,383.9	11,772.5	34.4	39.0	89.00	-2,986.9	407.4	890.1	818.6	71.47	12.454	
15,600.0	11,788.0	15,483.9	11,772.5	35.1	39.8	89.00	-3,086.9	408.1	890.1	817.1	73.01	12.192	
15,700.0	11,788.0	15,583.9	11,772.5	35.7	40.6	89.00	-3,186.9	408.7	890.1	815.5	74.56	11.938	
15,800.0	11,788.0	15,683.9	11,772.5	36.5	41.4	89.00	-3,286.9	409.3	890.1	814.0	76.12	11.694	
15,900.0	11,788.0	15,783.9	11,772.5	37.2	42.3	89.00	-3,386.9	409.9	890.1	812.4	77.69	11.457	
16,000.0	11,788.0	15,883.9	11,772.5	37.9	43.1	89.00	-3,486.9	410.6	890.1	810.8	79.27	11.229	
16,100.0	11,788.0	15,983.9	11,772.5	38.6	44.0	89.00	-3,586.9	411.2	890.1	809.2	80.86	11.008	
16,200.0	11,788.0	16,083.9	11,772.5	39.3	44.8	89.00	-3,686.9	411.8	890.1	807.6	82.45	10.795	
16,300.0	11,788.0	16,183.9	11,772.5	40.1	45.7	89.00	-3,786.9	412.4	890.1	806.0	84.06	10.589	
16,400.0	11,788.0	16,283.9	11,772.5	40.8	46.5	89.00	-3,886.9	413.1	890.1	804.4	85.67	10.389	
16,500.0	11,788.0	16,383.9	11,772.5	41.6	47.4	89.00	-3,986.9	413.7	890.1	802.8	87.30	10.196	
16,600.0	11,788.0	16,483.9	11,772.5	42.3	48.3	89.00	-4,086.9	414.3	890.1	801.2	88.92	10.009	
16,700.0	11,788.0	16,583.9	11,772.5	43.1	49.2	89.00	-4,186.9	414.9	890.1	799.5	90.56	9.829	
16,800.0	11,788.0	16,683.9	11,772.5	43.8	50.0	89.00	-4,286.9	415.6	890.1	797.9	92.20	9.654	
16,900.0	11,788.0	16,783.9	11,772.5	44.6	50.9	89.00	-4,386.9	416.2	890.1	796.2	93.85	9.485	
17,000.0	11,788.0	16,883.9	11,772.5	45.3	51.8	89.00	-4,486.9	416.8	890.1	794.6	95.50	9.320	
17,100.0	11,788.0	16,983.9	11,772.5	46.1	52.7	89.00	-4,586.9	417.4	890.1	792.9	97.16	9.161	
17,200.0	11,788.0	17,083.9	11,772.5	46.9	53.6	89.00	-4,686.9	418.1	890.1	791.3	98.82	9.007	
17,300.0	11,788.0	17,183.9	11,772.5	47.7	54.5	89.00	-4,786.9	418.7	890.1	789.6	100.49	8.858	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
17,400.0	11,788.0	17,283.9	11,772.5	48.4	55.4	89.00	-4,886.9	419.3	890.1	787.9	102.16	8.713	
17,500.0	11,788.0	17,383.9	11,772.5	49.2	56.3	89.00	-4,986.9	419.9	890.1	786.3	103.83	8.572	
17,600.0	11,788.0	17,483.9	11,772.5	50.0	57.2	89.00	-5,086.9	420.6	890.1	784.6	105.51	8.436	
17,700.0	11,788.0	17,583.9	11,772.5	50.8	58.1	89.00	-5,186.9	421.2	890.1	782.9	107.20	8.303	
17,800.0	11,788.0	17,683.9	11,772.5	51.6	59.0	89.00	-5,286.9	421.8	890.1	781.2	108.89	8.175	
17,900.0	11,788.0	17,783.9	11,772.5	52.4	59.9	89.00	-5,386.9	422.4	890.1	779.5	110.58	8.050	
18,000.0	11,788.0	17,883.9	11,772.5	53.1	60.8	89.00	-5,486.9	423.0	890.1	777.8	112.27	7.928	
18,100.0	11,788.0	17,983.9	11,772.5	53.9	61.7	89.00	-5,586.8	423.7	890.1	776.1	113.97	7.810	
18,200.0	11,788.0	18,083.9	11,772.5	54.7	62.6	89.00	-5,686.8	424.3	890.1	774.4	115.67	7.695	
18,300.0	11,788.0	18,183.9	11,772.5	55.5	63.5	89.00	-5,786.8	424.9	890.1	772.7	117.37	7.584	
18,400.0	11,788.0	18,283.9	11,772.5	56.3	64.5	89.00	-5,886.8	425.5	890.1	771.0	119.08	7.475	
18,500.0	11,788.0	18,383.9	11,772.5	57.1	65.4	89.00	-5,986.8	426.2	890.1	769.3	120.79	7.369	
18,600.0	11,788.0	18,483.9	11,772.5	57.9	66.3	89.00	-6,086.8	426.8	890.1	767.6	122.50	7.266	
18,700.0	11,788.0	18,583.9	11,772.5	58.7	67.2	89.00	-6,186.8	427.4	890.1	765.9	124.22	7.166	
18,800.0	11,788.0	18,683.9	11,772.5	59.5	68.1	89.00	-6,286.8	428.0	890.1	764.2	125.93	7.068	
18,900.0	11,788.0	18,783.9	11,772.5	60.4	69.1	89.00	-6,386.8	428.7	890.1	762.5	127.65	6.973	
19,000.0	11,788.0	18,883.9	11,772.5	61.2	70.0	89.00	-6,486.8	429.3	890.1	760.7	129.37	6.880	
19,100.0	11,788.0	18,983.9	11,772.5	62.0	70.9	89.00	-6,586.8	429.9	890.1	759.0	131.10	6.790	
19,200.0	11,788.0	19,083.9	11,772.5	62.8	71.8	89.00	-6,686.8	430.5	890.1	757.3	132.82	6.702	
19,300.0	11,788.0	19,183.9	11,772.5	63.6	72.8	89.00	-6,786.8	431.2	890.1	755.6	134.55	6.616	
19,400.0	11,788.0	19,283.9	11,772.5	64.4	73.7	89.00	-6,886.8	431.8	890.1	753.8	136.28	6.532	
19,500.0	11,788.0	19,383.9	11,772.5	65.2	74.6	89.00	-6,986.8	432.4	890.1	752.1	138.01	6.450	
19,600.0	11,788.0	19,483.9	11,772.5	66.0	75.5	89.00	-7,086.8	433.0	890.1	750.4	139.74	6.370	
19,602.3	11,788.0	19,486.2	11,772.5	66.1	75.6	89.00	-7,089.1	433.1	890.1	750.3	139.78	6.368	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **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
0.0	0.0	0.0	0.4	3.0	3.0	-90.34	-0.1	-20.0	20.0				
100.0	100.0	99.6	100.0	3.1	3.1	-90.34	-0.1	-20.0	20.0	13.4	6.56	3.049	
200.0	200.0	199.6	200.0	3.2	3.3	-90.34	-0.1	-20.0	20.0	13.1	6.91	2.896	Normal Operations
300.0	300.0	299.6	300.0	3.3	3.6	-90.34	-0.1	-20.0	20.0	12.8	7.24	2.763	Normal Operations
400.0	400.0	399.6	400.0	3.4	3.8	-90.34	-0.1	-20.0	20.0	12.4	7.56	2.647	Normal Operations
500.0	500.0	499.6	500.0	3.6	4.0	-90.34	-0.1	-20.0	20.0	12.1	7.86	2.544	Normal Operations
600.0	600.0	599.6	600.0	3.7	4.1	-90.34	-0.1	-20.0	20.0	11.8	8.16	2.452	Caution - Monitor Closely
700.0	700.0	699.6	700.0	3.8	4.3	-90.34	-0.1	-20.0	20.0	11.6	8.44	2.369	Caution - Monitor Closely
800.0	800.0	799.6	800.0	3.9	4.5	-90.34	-0.1	-20.0	20.0	11.3	8.72	2.294	Caution - Monitor Closely
900.0	900.0	899.6	900.0	4.0	4.7	-90.34	-0.1	-20.0	20.0	11.0	8.99	2.225	Caution - Monitor Closely
1,000.0	1,000.0	999.6	1,000.0	4.2	4.8	-90.34	-0.1	-20.0	20.0	10.7	9.25	2.162	Caution - Monitor Closely
1,100.0	1,100.0	1,099.6	1,100.0	4.3	5.0	-90.34	-0.1	-20.0	20.0	10.5	9.51	2.103	Caution - Monitor Closely
1,200.0	1,200.0	1,199.6	1,200.0	4.4	5.2	-90.34	-0.1	-20.0	20.0	10.2	9.76	2.049	Caution - Monitor Closely
1,300.0	1,300.0	1,299.6	1,300.0	4.5	5.3	-90.34	-0.1	-20.0	20.0	10.0	10.01	1.999	Caution - Monitor Closely
1,400.0	1,400.0	1,399.6	1,400.0	4.6	5.5	-90.34	-0.1	-20.0	20.0	9.8	10.25	1.952	Caution - Monitor Closely
1,500.0	1,500.0	1,499.6	1,500.0	4.8	5.6	-90.34	-0.1	-20.0	20.0	9.5	10.48	1.908	Caution - Monitor Closely
1,600.0	1,600.0	1,599.6	1,600.0	4.9	5.8	-90.34	-0.1	-20.0	20.0	9.3	10.72	1.866	Caution - Monitor Closely
1,700.0	1,700.0	1,699.6	1,700.0	5.0	5.9	-90.34	-0.1	-20.0	20.0	9.1	10.94	1.827	Caution - Monitor Closely
1,800.0	1,800.0	1,799.6	1,800.0	5.1	6.0	-90.34	-0.1	-20.0	20.0	8.8	11.17	1.791	Caution - Monitor Closely
1,900.0	1,900.0	1,899.6	1,900.0	5.2	6.2	-90.34	-0.1	-20.0	20.0	8.6	11.39	1.756	Caution - Monitor Closely
2,000.0	2,000.0	1,999.6	2,000.0	5.3	6.3	-90.34	-0.1	-20.0	20.0	8.4	11.61	1.723	Caution - Monitor Closely
2,100.0	2,100.0	2,099.9	2,100.2	5.5	6.4	-108.97	-0.1	-19.7	20.1	8.3	11.75	1.707	Caution - Monitor Closely
2,200.0	2,199.9	2,200.3	2,200.6	5.6	6.5	-120.78	-0.1	-17.0	19.1	7.0	12.08	1.583	Caution - Monitor Closely
2,266.7	2,266.5	2,267.1	2,267.4	5.7	6.7	-134.36	-0.1	-13.8	18.6	6.3	12.32	1.513	Caution - Monitor Closely
2,268.3	2,268.1	2,268.8	2,269.0	5.7	6.7	-135.16	-0.1	-13.7	18.6	6.3	12.33	1.512	Caution - Monitor Closely, CC, ES, SF
2,300.0	2,299.7	2,300.5	2,300.7	5.7	6.7	-149.73	-0.1	-11.8	18.9	6.4	12.44	1.516	Caution - Monitor Closely
2,400.0	2,399.3	2,400.5	2,400.5	5.9	6.8	174.04	-0.1	-3.9	22.3	9.5	12.84	1.738	Caution - Monitor Closely
2,500.0	2,498.6	2,501.2	2,500.6	6.1	7.1	154.56	2.0	5.9	27.3	14.1	13.25	2.062	Caution - Monitor Closely
2,600.0	2,597.5	2,602.1	2,600.7	6.2	7.3	145.88	7.3	17.4	31.4	17.8	13.59	2.312	Caution - Monitor Closely
2,700.0	2,695.9	2,703.2	2,700.6	6.4	7.6	143.53	15.7	30.6	34.1	20.1	13.93	2.444	Caution - Monitor Closely
2,800.0	2,793.6	2,804.4	2,800.0	6.6	7.8	145.92	27.2	45.4	35.4	21.1	14.34	2.469	Caution - Monitor Closely
2,900.0	2,890.5	2,905.3	2,898.5	6.8	8.1	152.61	41.9	61.7	36.1	21.3	14.82	2.435	Caution - Monitor Closely
2,903.6	2,894.0	2,908.9	2,902.0	6.8	8.1	152.92	42.4	62.3	36.1	21.3	14.84	2.434	Caution - Monitor Closely
3,000.0	2,987.0	3,005.1	2,995.6	6.9	8.4	162.55	57.4	78.4	37.9	22.5	15.39	2.461	Caution - Monitor Closely
3,100.0	3,083.5	3,104.9	3,092.8	7.1	8.7	171.41	73.0	95.0	40.7	24.8	15.89	2.560	Normal Operations
3,200.0	3,180.0	3,204.6	3,189.9	7.2	9.0	178.98	88.6	111.7	44.4	28.0	16.39	2.707	Normal Operations
3,300.0	3,276.5	3,304.4	3,287.0	7.4	9.4	-174.70	104.2	128.4	48.7	31.8	16.85	2.888	Normal Operations
3,400.0	3,373.0	3,404.2	3,384.2	7.6	9.7	-169.46	119.7	145.1	53.5	36.2	17.30	3.090	
3,500.0	3,469.4	3,504.0	3,481.3	7.7	10.1	-165.11	135.3	161.8	58.7	40.9	17.74	3.306	
3,600.0	3,565.9	3,603.7	3,578.4	7.9	10.4	-161.49	150.9	178.5	64.1	45.9	18.17	3.529	
3,700.0	3,662.4	3,703.5	3,675.6	8.1	10.8	-158.44	166.5	195.2	69.8	51.2	18.59	3.754	
3,800.0	3,758.9	3,803.3	3,772.7	8.3	11.2	-155.85	182.1	211.8	75.6	56.6	19.01	3.979	
3,900.0	3,855.4	3,903.1	3,869.8	8.4	11.5	-153.64	197.6	228.5	81.6	62.2	19.43	4.200	
4,000.0	3,951.9	4,002.8	3,966.9	8.6	11.9	-151.74	213.2	245.2	87.7	67.8	19.85	4.417	
4,100.0	4,048.3	4,102.6	4,064.1	8.8	12.3	-150.08	228.8	261.9	93.9	73.6	20.27	4.629	
4,200.0	4,144.8	4,202.4	4,161.2	9.0	12.7	-148.63	244.4	278.6	100.1	79.4	20.70	4.835	
4,300.0	4,241.3	4,302.2	4,258.3	9.2	13.2	-147.34	259.9	295.3	106.4	85.2	21.13	5.035	
4,400.0	4,337.8	4,401.9	4,355.5	9.4	13.6	-146.21	275.5	312.0	112.7	91.2	21.56	5.229	
4,500.0	4,434.3	4,501.7	4,452.6	9.6	14.0	-145.19	291.1	328.6	119.1	97.1	21.99	5.416	
4,600.0	4,530.8	4,601.5	4,549.7	9.8	14.4	-144.28	306.7	345.3	125.5	103.1	22.42	5.596	
4,700.0	4,627.3	4,701.3	4,646.8	10.0	14.8	-143.45	322.3	362.0	131.9	109.1	22.86	5.771	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
4,800.0	4,723.7	4,801.0	4,744.0	10.2	15.3	-142.71	337.8	378.7	138.4	115.1	23.30	5.939	
4,900.0	4,820.2	4,900.8	4,841.1	10.4	15.7	-142.03	353.4	395.4	144.9	121.1	23.75	6.102	
5,000.0	4,916.7	5,000.6	4,938.2	10.6	16.1	-141.40	369.0	412.1	151.4	127.2	24.19	6.258	
5,100.0	5,013.2	5,100.4	5,035.4	10.8	16.6	-140.83	384.6	428.8	157.9	133.3	24.64	6.409	
5,200.0	5,109.7	5,200.1	5,132.5	11.0	17.0	-140.31	400.1	445.4	164.4	139.4	25.09	6.555	
5,300.0	5,206.2	5,299.9	5,229.6	11.2	17.5	-139.82	415.7	462.1	171.0	145.4	25.54	6.695	
5,400.0	5,302.7	5,399.7	5,326.7	11.4	17.9	-139.37	431.3	478.8	177.5	151.6	25.99	6.831	
5,500.0	5,399.1	5,499.5	5,423.9	11.6	18.4	-138.95	446.9	495.5	184.1	157.7	26.45	6.962	
5,600.0	5,495.6	5,599.2	5,521.0	11.8	18.8	-138.57	462.5	512.2	190.7	163.8	26.90	7.088	
5,700.0	5,592.1	5,699.0	5,618.1	12.0	19.3	-138.20	478.0	528.9	197.3	169.9	27.36	7.210	
5,800.0	5,688.6	5,798.8	5,715.3	12.2	19.7	-137.86	493.6	545.6	203.9	176.0	27.82	7.327	
5,900.0	5,785.1	5,898.6	5,812.4	12.4	20.2	-137.55	509.2	562.2	210.5	182.2	28.28	7.441	
6,000.0	5,881.6	5,998.3	5,909.5	12.7	20.6	-137.25	524.8	578.9	217.1	188.3	28.75	7.551	
6,100.0	5,978.1	6,098.1	6,006.7	12.9	21.1	-136.97	540.3	595.6	223.7	194.5	29.21	7.657	
6,200.0	6,074.5	6,197.9	6,103.8	13.1	21.6	-136.70	555.9	612.3	230.3	200.6	29.68	7.760	
6,300.0	6,171.0	6,297.7	6,200.9	13.3	22.0	-136.45	571.5	629.0	236.9	206.8	30.15	7.859	
6,400.0	6,267.5	6,397.5	6,298.0	13.5	22.5	-136.21	587.1	645.7	243.5	212.9	30.61	7.955	
6,500.0	6,364.0	6,497.2	6,395.2	13.7	22.9	-135.99	602.7	662.3	250.2	219.1	31.08	8.048	
6,600.0	6,460.5	6,597.0	6,492.3	14.0	23.4	-135.78	618.2	679.0	256.8	225.3	31.55	8.139	
6,700.0	6,557.0	6,696.8	6,589.4	14.2	23.9	-135.58	633.8	695.7	263.4	231.4	32.03	8.226	
6,800.0	6,653.4	6,796.6	6,686.6	14.4	24.3	-135.38	649.4	712.4	270.1	237.6	32.50	8.311	
6,900.0	6,749.9	6,893.9	6,781.5	14.6	24.8	-135.34	664.1	728.1	277.1	244.2	32.99	8.401	
7,000.0	6,846.4	6,991.0	6,876.6	14.8	25.2	-135.58	677.6	742.6	285.1	251.6	33.53	8.503	
7,100.0	6,942.9	7,087.9	6,971.7	15.1	25.7	-136.08	690.0	756.0	294.0	259.9	34.12	8.616	
7,200.0	7,039.4	7,184.6	7,067.0	15.3	26.1	-136.80	701.3	768.0	303.9	269.1	34.77	8.741	
7,300.0	7,135.9	7,280.9	7,162.2	15.5	26.5	-137.73	711.5	778.9	314.7	279.3	35.45	8.878	
7,360.5	7,194.3	7,339.1	7,219.7	15.6	26.7	-138.37	717.1	784.9	321.8	285.9	35.87	8.971	
7,400.0	7,232.4	7,376.9	7,257.2	15.7	26.9	-138.84	720.5	788.6	326.5	290.4	36.14	9.034	
7,500.0	7,329.3	7,472.7	7,352.3	15.9	27.3	-139.98	728.5	797.1	338.4	301.5	36.85	9.182	
7,600.0	7,426.6	7,568.3	7,447.4	16.1	27.7	-141.08	735.3	804.4	350.0	312.4	37.54	9.323	
7,700.0	7,524.3	7,663.8	7,542.5	16.4	28.0	-142.15	741.1	810.6	361.4	323.2	38.20	9.460	
7,800.0	7,622.3	7,759.1	7,637.5	16.6	28.4	-143.18	745.7	815.6	372.6	333.7	38.84	9.592	
7,900.0	7,720.7	7,854.2	7,732.5	16.8	28.7	-144.18	749.3	819.4	383.6	344.1	39.46	9.721	
8,000.0	7,819.4	7,949.1	7,827.3	17.0	29.0	-145.16	751.8	822.1	394.3	354.3	40.04	9.848	
8,100.0	7,918.3	8,043.9	7,922.1	17.2	29.3	-146.12	753.2	823.6	404.8	364.3	40.58	9.976	
8,200.0	8,017.5	8,139.3	8,017.5	17.3	29.4	-147.06	753.6	824.0	415.2	374.1	41.05	10.114	
8,300.0	8,116.9	8,238.7	8,116.9	17.5	29.5	-147.92	753.6	824.0	424.5	383.0	41.44	10.242	
8,400.0	8,216.4	8,338.2	8,216.4	17.7	29.5	-148.62	753.6	824.0	432.4	390.6	41.79	10.346	
8,500.0	8,316.1	8,437.9	8,316.1	17.9	29.5	-149.17	753.6	824.0	438.9	396.8	42.10	10.425	
8,600.0	8,416.0	8,537.8	8,416.0	18.0	29.6	-149.58	753.6	824.0	443.9	401.5	42.37	10.477	
8,700.0	8,515.9	8,637.7	8,515.9	18.2	29.6	-149.86	753.6	824.0	447.4	404.8	42.60	10.504	
8,800.0	8,615.9	8,737.6	8,615.9	18.3	29.7	-150.02	753.6	824.0	449.5	406.7	42.78	10.506	
8,884.1	8,700.0	8,821.8	8,700.0	18.4	29.7	-89.72	753.6	824.0	450.0	407.1	42.89	10.493	
8,900.0	8,715.9	8,837.6	8,715.9	18.4	29.7	-89.72	753.6	824.0	450.0	407.1	42.90	10.490	
9,000.0	8,815.9	8,937.6	8,815.9	18.4	29.7	-89.72	753.6	824.0	450.0	407.0	43.00	10.465	
9,100.0	8,915.9	9,037.6	8,915.9	18.5	29.8	-89.72	753.6	824.0	450.0	406.9	43.09	10.443	
9,200.0	9,015.9	9,137.6	9,015.9	18.6	29.8	-89.72	753.6	824.0	450.0	406.8	43.19	10.420	
9,300.0	9,115.9	9,237.6	9,115.9	18.6	29.9	-89.72	753.6	824.0	450.0	406.7	43.28	10.398	
9,400.0	9,215.9	9,337.6	9,215.9	18.7	29.9	-89.72	753.6	824.0	450.0	406.6	43.37	10.375	
9,500.0	9,315.9	9,437.6	9,315.9	18.7	29.9	-89.72	753.6	824.0	450.0	406.5	43.47	10.353	
9,600.0	9,415.9	9,537.6	9,415.9	18.8	30.0	-89.72	753.6	824.0	450.0	406.4	43.56	10.330	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
9,700.0	9,515.9	9,637.6	9,515.9	18.8	30.0	-89.72	753.6	824.0	450.0	406.3	43.66	10.308	
9,800.0	9,615.9	9,737.6	9,615.9	18.9	30.1	-89.72	753.6	824.0	450.0	406.3	43.75	10.285	
9,900.0	9,715.9	9,837.6	9,715.9	18.9	30.1	-89.72	753.6	824.0	450.0	406.2	43.85	10.263	
10,000.0	9,815.9	9,937.6	9,815.9	19.0	30.1	-89.72	753.6	824.0	450.0	406.1	43.95	10.240	
10,100.0	9,915.9	10,037.6	9,915.9	19.1	30.2	-89.72	753.6	824.0	450.0	406.0	44.04	10.218	
10,200.0	10,015.9	10,137.6	10,015.9	19.1	30.2	-89.72	753.6	824.0	450.0	405.9	44.14	10.195	
10,300.0	10,115.9	10,237.6	10,115.9	19.2	30.3	-89.72	753.6	824.0	450.0	405.8	44.24	10.173	
10,400.0	10,215.9	10,337.6	10,215.9	19.2	30.3	-89.72	753.6	824.0	450.0	405.7	44.34	10.150	
10,500.0	10,315.9	10,437.6	10,315.9	19.3	30.3	-89.72	753.6	824.0	450.0	405.6	44.43	10.128	
10,600.0	10,415.9	10,537.6	10,415.9	19.3	30.4	-89.72	753.6	824.0	450.0	405.5	44.53	10.105	
10,700.0	10,515.9	10,637.6	10,515.9	19.4	30.4	-89.72	753.6	824.0	450.0	405.4	44.63	10.083	
10,800.0	10,615.9	10,737.6	10,615.9	19.5	30.5	-89.72	753.6	824.0	450.0	405.3	44.73	10.060	
10,900.0	10,715.9	10,837.6	10,715.9	19.5	30.5	-89.72	753.6	824.0	450.0	405.2	44.83	10.038	
11,000.0	10,815.9	10,937.6	10,815.9	19.6	30.6	-89.72	753.6	824.0	450.0	405.1	44.93	10.016	
11,100.0	10,915.9	11,037.6	10,915.9	19.6	30.6	-89.72	753.6	824.0	450.0	405.0	45.03	9.993	
11,200.0	11,015.9	11,137.6	11,015.9	19.7	30.6	-89.72	753.6	824.0	450.0	404.9	45.13	9.971	
11,300.0	11,115.9	11,237.6	11,115.9	19.8	30.7	-89.72	753.6	824.0	450.0	404.8	45.23	9.949	
11,400.0	11,215.9	11,337.6	11,215.9	19.8	30.7	-89.72	753.6	824.0	450.0	404.7	45.33	9.926	
11,494.6	11,310.5	11,432.3	11,310.5	19.9	30.8	-89.72	753.6	824.0	450.0	404.6	45.43	9.906	
11,500.0	11,315.9	11,437.6	11,315.9	19.9	30.8	90.64	753.6	824.0	450.0	404.6	45.43	9.905	
11,525.0	11,340.8	11,462.6	11,340.8	19.9	30.8	90.76	753.6	824.0	450.0	404.6	45.41	9.909	
11,550.0	11,365.7	11,487.5	11,365.7	19.8	30.8	91.04	753.6	824.0	450.1	404.7	45.35	9.924	
11,575.0	11,390.5	11,512.3	11,390.5	19.8	30.8	91.47	753.6	824.0	450.1	404.9	45.24	9.949	
11,600.0	11,415.0	11,536.8	11,415.0	19.8	30.8	92.06	753.6	824.0	450.3	405.2	45.09	9.986	
11,625.0	11,439.2	11,561.0	11,439.2	19.8	30.8	92.78	753.6	824.0	450.5	405.6	44.90	10.035	
11,650.0	11,463.1	11,584.9	11,463.1	19.8	30.8	93.62	753.6	824.0	451.0	406.3	44.66	10.098	
11,675.0	11,486.6	11,608.4	11,486.6	19.7	30.8	94.57	753.6	824.0	451.6	407.3	44.38	10.176	
11,700.0	11,509.6	11,631.4	11,509.6	19.7	30.8	95.59	753.6	824.0	452.6	408.5	44.05	10.273	
11,725.0	11,532.0	11,656.7	11,534.9	19.7	30.8	96.78	753.0	824.0	453.8	410.1	43.72	10.380	
11,750.0	11,553.9	11,682.9	11,561.0	19.7	30.8	97.99	751.0	824.0	455.3	411.9	43.41	10.488	
11,775.0	11,575.0	11,709.8	11,587.7	19.6	30.7	99.18	747.5	824.0	457.0	413.9	43.13	10.596	
11,800.0	11,595.5	11,737.5	11,614.9	19.6	30.6	100.37	742.3	824.1	458.9	416.1	42.88	10.703	
11,825.0	11,615.1	11,766.1	11,642.6	19.6	30.5	101.54	735.3	824.1	461.0	418.4	42.67	10.805	
11,850.0	11,633.9	11,795.5	11,670.6	19.6	30.5	102.70	726.4	824.2	463.3	420.8	42.51	10.900	
11,875.0	11,651.9	11,825.9	11,698.9	19.6	30.4	103.84	715.4	824.2	465.7	423.3	42.40	10.984	
11,900.0	11,668.9	11,857.2	11,727.3	19.6	30.3	104.96	702.2	824.3	468.3	425.9	42.36	11.055	
11,925.0	11,684.9	11,889.6	11,755.7	19.6	30.2	106.06	686.6	824.4	470.9	428.5	42.39	11.109	
11,950.0	11,699.9	11,923.0	11,783.8	19.6	30.1	107.12	668.6	824.5	473.5	431.0	42.49	11.143	
11,975.0	11,713.8	11,957.6	11,811.5	19.6	30.0	108.14	647.9	824.7	476.1	433.5	42.69	11.154	
12,000.0	11,726.6	11,993.3	11,838.4	19.6	29.9	109.11	624.5	824.8	478.7	435.8	42.97	11.142	
12,025.0	11,738.3	12,030.1	11,864.3	19.6	29.8	110.03	598.3	825.0	481.3	437.9	43.34	11.104	
12,050.0	11,748.8	12,068.0	11,888.8	19.6	29.7	110.88	569.3	825.2	483.6	439.8	43.80	11.042	
12,075.0	11,758.1	12,107.1	11,911.4	19.6	29.6	111.65	537.5	825.4	485.8	441.5	44.34	10.956	
12,100.0	11,766.2	12,147.1	11,931.9	19.6	29.6	112.34	503.1	825.6	487.8	442.9	44.96	10.850	
12,125.0	11,773.1	12,188.1	11,949.9	19.6	29.5	112.93	466.3	825.8	489.5	443.9	45.64	10.727	
12,150.0	11,778.6	12,229.9	11,964.8	19.7	29.5	113.41	427.3	826.0	490.9	444.6	46.35	10.591	
12,175.0	11,782.9	12,272.3	11,976.4	19.7	29.5	113.77	386.5	826.3	492.0	444.9	47.10	10.447	
12,200.0	11,785.9	12,315.2	11,984.5	19.7	29.5	114.01	344.4	826.6	492.7	444.8	47.84	10.299	
12,225.0	11,787.6	12,358.3	11,988.7	19.7	29.5	114.11	301.5	826.8	493.0	444.4	48.56	10.153	
12,244.6	11,788.0	12,388.7	11,989.4	19.8	29.5	114.11	271.1	827.0	493.0	444.0	48.98	10.066	
12,244.6	11,788.0	12,388.7	11,989.4	19.8	29.5	114.11	271.1	827.0	493.0	444.0	48.98	10.066	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
12,300.0	11,788.0	12,444.0	11,989.4	19.8	29.5	114.11	215.8	827.4	493.0	443.8	49.22	10.017	
12,400.0	11,788.0	12,544.0	11,989.4	20.0	29.6	114.11	115.8	828.0	493.0	443.3	49.70	9.920	
12,500.0	11,788.0	12,644.0	11,989.4	20.2	29.8	114.11	15.8	828.6	493.0	442.8	50.24	9.814	
12,600.0	11,788.0	12,744.0	11,989.4	20.4	29.9	114.11	-84.2	829.2	493.0	442.2	50.83	9.700	
12,700.0	11,788.0	12,844.0	11,989.4	20.6	30.1	114.11	-184.2	829.9	493.0	441.5	51.47	9.579	
12,800.0	11,788.0	12,944.0	11,989.4	20.8	30.3	114.11	-284.2	830.5	493.0	440.8	52.16	9.452	
12,900.0	11,788.0	13,044.0	11,989.4	21.1	30.5	114.11	-384.2	831.1	493.0	440.1	52.90	9.320	
13,000.0	11,788.0	13,144.0	11,989.4	21.4	30.7	114.11	-484.2	831.7	493.0	439.3	53.68	9.183	
13,100.0	11,788.0	13,244.0	11,989.4	21.7	31.0	114.11	-584.2	832.4	493.0	438.5	54.51	9.044	
13,200.0	11,788.0	13,344.0	11,989.4	22.0	31.3	114.11	-684.2	833.0	493.0	437.6	55.38	8.902	
13,300.0	11,788.0	13,444.0	11,989.4	22.3	31.6	114.11	-784.2	833.6	493.0	436.7	56.29	8.758	
13,400.0	11,788.0	13,544.0	11,989.4	22.7	31.9	114.11	-884.2	834.2	493.0	435.8	57.24	8.613	
13,500.0	11,788.0	13,644.0	11,989.4	23.1	32.2	114.11	-984.2	834.9	493.0	434.8	58.22	8.468	
13,600.0	11,788.0	13,744.0	11,989.4	23.5	32.6	114.11	-1,084.2	835.5	493.0	433.8	59.24	8.322	
13,700.0	11,788.0	13,844.0	11,989.4	23.9	33.0	114.11	-1,184.2	836.1	493.0	432.7	60.29	8.177	
13,800.0	11,788.0	13,944.0	11,989.4	24.3	33.4	114.11	-1,284.2	836.7	493.0	431.6	61.37	8.033	
13,900.0	11,788.0	14,044.0	11,989.4	24.8	33.9	114.11	-1,384.2	837.4	493.0	430.5	62.48	7.891	
14,000.0	11,788.0	14,144.0	11,989.4	25.3	34.3	114.11	-1,484.2	838.0	493.0	429.4	63.61	7.750	
14,100.0	11,788.0	14,244.0	11,989.4	25.8	34.8	114.11	-1,584.2	838.6	493.0	428.2	64.78	7.611	
14,200.0	11,788.0	14,344.0	11,989.4	26.3	35.3	114.11	-1,684.2	839.3	493.0	427.0	65.96	7.474	
14,300.0	11,788.0	14,444.0	11,989.4	26.9	35.8	114.11	-1,784.2	839.9	493.0	425.8	67.18	7.339	
14,400.0	11,788.0	14,544.0	11,989.4	27.4	36.4	114.11	-1,884.2	840.5	493.0	424.6	68.41	7.207	
14,500.0	11,788.0	14,644.0	11,989.4	28.0	36.9	114.11	-1,984.2	841.1	493.0	423.3	69.66	7.077	
14,600.0	11,788.0	14,744.0	11,989.4	28.6	37.5	114.11	-2,084.2	841.8	493.0	422.1	70.94	6.950	
14,700.0	11,788.0	14,844.0	11,989.4	29.2	38.1	114.11	-2,184.2	842.4	493.0	420.8	72.23	6.825	
14,800.0	11,788.0	14,944.0	11,989.4	29.8	38.7	114.11	-2,284.2	843.0	493.0	419.5	73.54	6.704	
14,900.0	11,788.0	15,044.0	11,989.4	30.4	39.4	114.11	-2,384.2	843.6	493.0	418.1	74.87	6.585	
15,000.0	11,788.0	15,144.0	11,989.4	31.0	40.0	114.11	-2,484.2	844.3	493.0	416.8	76.21	6.469	
15,100.0	11,788.0	15,244.0	11,989.4	31.7	40.7	114.11	-2,584.2	844.9	493.0	415.4	77.57	6.356	
15,200.0	11,788.0	15,344.0	11,989.4	32.3	41.4	114.11	-2,684.2	845.5	493.0	414.1	78.94	6.245	
15,300.0	11,788.0	15,444.0	11,989.4	33.0	42.0	114.11	-2,784.2	846.1	493.0	412.7	80.33	6.137	
15,400.0	11,788.0	15,544.0	11,989.4	33.7	42.7	114.11	-2,884.2	846.8	493.0	411.3	81.73	6.032	
15,500.0	11,788.0	15,644.0	11,989.4	34.4	43.4	114.11	-2,984.2	847.4	493.0	409.9	83.14	5.930	
15,600.0	11,788.0	15,744.0	11,989.4	35.1	44.2	114.11	-3,084.2	848.0	493.0	408.4	84.56	5.830	
15,700.0	11,788.0	15,844.0	11,989.4	35.7	44.9	114.11	-3,184.2	848.6	493.0	407.0	85.99	5.733	
15,800.0	11,788.0	15,944.0	11,989.4	36.5	45.6	114.11	-3,284.2	849.3	493.0	405.6	87.44	5.638	
15,900.0	11,788.0	16,044.0	11,989.4	37.2	46.4	114.11	-3,384.2	849.9	493.0	404.1	88.89	5.546	
16,000.0	11,788.0	16,144.0	11,989.4	37.9	47.2	114.11	-3,484.1	850.5	493.0	402.6	90.36	5.456	
16,100.0	11,788.0	16,244.0	11,989.4	38.6	47.9	114.11	-3,584.1	851.1	493.0	401.2	91.83	5.369	
16,200.0	11,788.0	16,344.0	11,989.4	39.3	48.7	114.11	-3,684.1	851.8	493.0	399.7	93.31	5.283	
16,300.0	11,788.0	16,444.0	11,989.4	40.1	49.5	114.11	-3,784.1	852.4	493.0	398.2	94.80	5.200	
16,400.0	11,788.0	16,544.0	11,989.4	40.8	50.3	114.11	-3,884.1	853.0	493.0	396.7	96.30	5.119	
16,500.0	11,788.0	16,644.0	11,989.4	41.6	51.1	114.11	-3,984.1	853.6	493.0	395.2	97.80	5.041	
16,600.0	11,788.0	16,744.0	11,989.4	42.3	51.9	114.11	-4,084.1	854.3	493.0	393.7	99.32	4.964	
16,700.0	11,788.0	16,844.0	11,989.4	43.1	52.7	114.11	-4,184.1	854.9	493.0	392.2	100.84	4.889	
16,800.0	11,788.0	16,944.0	11,989.4	43.8	53.5	114.11	-4,284.1	855.5	493.0	390.6	102.36	4.816	
16,900.0	11,788.0	17,044.0	11,989.4	44.6	54.3	114.11	-4,384.1	856.1	493.0	389.1	103.89	4.745	
17,000.0	11,788.0	17,144.0	11,989.4	45.3	55.1	114.11	-4,484.1	856.8	493.0	387.6	105.43	4.676	
17,100.0	11,788.0	17,244.0	11,989.4	46.1	56.0	114.11	-4,584.1	857.4	493.0	386.0	106.97	4.609	
17,200.0	11,788.0	17,344.0	11,989.4	46.9	56.8	114.11	-4,684.1	858.0	493.0	384.5	108.52	4.543	
17,300.0	11,788.0	17,444.0	11,989.4	47.7	57.7	114.11	-4,784.1	858.6	493.0	382.9	110.08	4.479	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
17,400.0	11,788.0	17,544.0	11,989.4	48.4	58.5	114.11	-4,884.1	859.3	493.0	381.4	111.63	4.416	
17,500.0	11,788.0	17,644.0	11,989.4	49.2	59.3	114.11	-4,984.1	859.9	493.0	379.8	113.20	4.355	
17,600.0	11,788.0	17,744.0	11,989.4	50.0	60.2	114.11	-5,084.1	860.5	493.0	378.2	114.77	4.296	
17,700.0	11,788.0	17,844.0	11,989.4	50.8	61.1	114.11	-5,184.1	861.1	493.0	376.7	116.34	4.238	
17,800.0	11,788.0	17,944.0	11,989.4	51.6	61.9	114.11	-5,284.1	861.8	493.0	375.1	117.92	4.181	
17,900.0	11,788.0	18,044.0	11,989.4	52.4	62.8	114.11	-5,384.1	862.4	493.0	373.5	119.50	4.126	
18,000.0	11,788.0	18,144.0	11,989.4	53.1	63.6	114.11	-5,484.1	863.0	493.0	371.9	121.08	4.072	
18,100.0	11,788.0	18,244.0	11,989.4	53.9	64.5	114.11	-5,584.1	863.7	493.0	370.3	122.67	4.019	
18,200.0	11,788.0	18,344.0	11,989.4	54.7	65.4	114.11	-5,684.1	864.3	493.0	368.7	124.26	3.967	
18,300.0	11,788.0	18,444.0	11,989.4	55.5	66.3	114.11	-5,784.1	864.9	493.0	367.1	125.86	3.917	
18,400.0	11,788.0	18,544.0	11,989.4	56.3	67.1	114.11	-5,884.1	865.5	493.0	365.5	127.46	3.868	
18,500.0	11,788.0	18,644.0	11,989.4	57.1	68.0	114.11	-5,984.1	866.2	493.0	363.9	129.06	3.820	
18,600.0	11,788.0	18,744.0	11,989.4	57.9	68.9	114.11	-6,084.1	866.8	493.0	362.3	130.67	3.773	
18,700.0	11,788.0	18,844.0	11,989.4	58.7	69.8	114.11	-6,184.1	867.4	493.0	360.7	132.27	3.727	
18,800.0	11,788.0	18,944.0	11,989.4	59.5	70.7	114.11	-6,284.1	868.0	493.0	359.1	133.88	3.682	
18,900.0	11,788.0	19,044.0	11,989.4	60.4	71.5	114.11	-6,384.1	868.7	493.0	357.5	135.50	3.638	
19,000.0	11,788.0	19,144.0	11,989.4	61.2	72.4	114.11	-6,484.1	869.3	493.0	355.9	137.11	3.596	
19,100.0	11,788.0	19,244.0	11,989.4	62.0	73.3	114.11	-6,584.1	869.9	493.0	354.3	138.73	3.554	
19,200.0	11,788.0	19,344.0	11,989.4	62.8	74.2	114.11	-6,684.1	870.5	493.0	352.6	140.36	3.513	
19,300.0	11,788.0	19,444.0	11,989.4	63.6	75.1	114.11	-6,784.1	871.2	493.0	351.0	141.98	3.472	
19,400.0	11,788.0	19,544.0	11,989.4	64.4	76.0	114.11	-6,884.1	871.8	493.0	349.4	143.61	3.433	
19,500.0	11,788.0	19,644.0	11,989.4	65.2	76.9	114.11	-6,984.1	872.4	493.0	347.8	145.23	3.395	
19,600.0	11,788.0	19,744.0	11,989.4	66.0	77.7	114.11	-7,084.0	873.0	493.0	346.3	146.71	3.360	
19,602.3	11,788.0	19,746.3	11,989.4	66.1	77.8	114.11	-7,086.4	873.0	493.0	346.3	146.74	3.360	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **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
0.0	0.0	0.6	0.0	3.0	3.0	89.63	0.1	20.0	20.0				
100.0	100.0	100.6	100.0	3.1	3.1	89.63	0.1	20.0	20.0	13.4	6.56	3.048	
200.0	200.0	200.6	200.0	3.2	3.3	89.63	0.1	20.0	20.0	13.1	6.91	2.895	Normal Operations
300.0	300.0	300.6	300.0	3.3	3.6	89.63	0.1	20.0	20.0	12.8	7.24	2.763	Normal Operations
400.0	400.0	400.6	400.0	3.4	3.8	89.63	0.1	20.0	20.0	12.4	7.56	2.646	Normal Operations
500.0	500.0	500.6	500.0	3.6	4.0	89.63	0.1	20.0	20.0	12.1	7.86	2.544	Normal Operations
600.0	600.0	600.6	600.0	3.7	4.1	89.63	0.1	20.0	20.0	11.8	8.16	2.452	Caution - Monitor Closely
700.0	700.0	700.6	700.0	3.8	4.3	89.63	0.1	20.0	20.0	11.6	8.44	2.369	Caution - Monitor Closely
800.0	800.0	800.6	800.0	3.9	4.5	89.63	0.1	20.0	20.0	11.3	8.72	2.293	Caution - Monitor Closely
900.0	900.0	900.6	900.0	4.0	4.7	89.63	0.1	20.0	20.0	11.0	8.99	2.224	Caution - Monitor Closely
1,000.0	1,000.0	1,000.6	1,000.0	4.2	4.8	89.63	0.1	20.0	20.0	10.7	9.25	2.161	Caution - Monitor Closely
1,100.0	1,100.0	1,100.6	1,100.0	4.3	5.0	89.63	0.1	20.0	20.0	10.5	9.51	2.103	Caution - Monitor Closely
1,200.0	1,200.0	1,200.6	1,200.0	4.4	5.2	89.63	0.1	20.0	20.0	10.2	9.76	2.049	Caution - Monitor Closely
1,300.0	1,300.0	1,300.6	1,300.0	4.5	5.3	89.63	0.1	20.0	20.0	10.0	10.01	1.998	Caution - Monitor Closely
1,400.0	1,400.0	1,400.6	1,400.0	4.6	5.5	89.63	0.1	20.0	20.0	9.8	10.25	1.951	Caution - Monitor Closely
1,500.0	1,500.0	1,500.6	1,500.0	4.8	5.6	89.63	0.1	20.0	20.0	9.5	10.49	1.907	Caution - Monitor Closely
1,600.0	1,600.0	1,600.6	1,600.0	4.9	5.8	89.63	0.1	20.0	20.0	9.3	10.72	1.866	Caution - Monitor Closely
1,700.0	1,700.0	1,700.6	1,700.0	5.0	5.9	89.63	0.1	20.0	20.0	9.1	10.95	1.827	Caution - Monitor Closely
1,800.0	1,800.0	1,800.6	1,800.0	5.1	6.0	89.63	0.1	20.0	20.0	8.8	11.17	1.790	Caution - Monitor Closely
1,900.0	1,900.0	1,900.6	1,900.0	5.2	6.2	89.63	0.1	20.0	20.0	8.6	11.39	1.756	Caution - Monitor Closely
1,966.5	1,966.5	1,967.1	1,966.5	5.3	6.3	89.63	0.1	20.0	20.0	8.5	11.54	1.734	Caution - Monitor Closely
2,000.0	2,000.0	2,000.6	2,000.0	5.3	6.3	89.63	0.1	20.0	20.0	8.4	11.61	1.723	Caution - Monitor Closely
2,061.8	2,061.8	2,062.3	2,061.7	5.4	6.4	77.44	-0.4	20.1	20.0	8.2	11.73	1.703	Caution - Monitor Closely, CC
2,100.0	2,100.0	2,100.4	2,099.8	5.5	6.5	81.97	-1.2	20.2	20.0	8.2	11.81	1.697	Caution - Monitor Closely, ES, SF
2,200.0	2,199.9	2,200.0	2,199.3	5.6	6.6	102.18	-5.0	20.9	22.0	9.9	12.15	1.812	Caution - Monitor Closely
2,266.7	2,266.5	2,265.8	2,265.0	5.7	6.7	117.84	-9.0	21.6	26.3	13.9	12.43	2.119	Caution - Monitor Closely
2,300.0	2,299.7	2,298.6	2,297.7	5.7	6.8	117.52	-11.4	22.0	29.5	17.0	12.56	2.351	Caution - Monitor Closely
2,400.0	2,399.3	2,397.3	2,396.1	5.9	6.8	118.66	-19.2	24.0	41.5	28.6	12.96	3.206	
2,500.0	2,498.6	2,496.8	2,495.3	6.1	7.0	119.18	-25.2	28.5	54.3	40.9	13.36	4.064	
2,600.0	2,597.5	2,596.9	2,595.1	6.2	7.2	119.82	-28.9	35.7	66.6	52.8	13.75	4.841	
2,700.0	2,695.9	2,697.6	2,695.2	6.4	7.4	120.76	-30.3	45.5	78.0	64.0	14.09	5.540	
2,800.0	2,793.6	2,798.7	2,795.6	6.6	7.6	122.01	-29.4	58.1	88.6	74.2	14.36	6.169	
2,900.0	2,890.5	2,900.4	2,896.0	6.8	7.7	123.56	-26.1	73.4	98.2	83.6	14.61	6.721	
2,903.6	2,894.0	2,904.1	2,899.6	6.8	7.7	123.62	-26.0	74.0	98.5	83.9	14.62	6.739	
3,000.0	2,987.0	3,002.6	2,996.5	6.9	7.9	126.13	-20.5	91.5	106.2	91.4	14.83	7.161	
3,100.0	3,083.5	3,105.4	3,096.8	7.1	8.2	127.19	-12.3	112.4	111.6	96.6	15.06	7.414	
3,200.0	3,180.0	3,207.1	3,195.3	7.2	8.4	127.09	-2.2	135.5	114.7	99.4	15.26	7.516	
3,300.0	3,276.5	3,307.0	3,292.0	7.4	8.7	126.82	8.2	158.6	117.3	101.8	15.54	7.549	
3,400.0	3,373.0	3,407.0	3,388.7	7.6	8.9	126.55	18.5	181.7	119.9	104.1	15.83	7.573	
3,500.0	3,469.4	3,507.0	3,485.4	7.7	9.2	126.30	28.9	204.7	122.5	106.4	16.14	7.590	
3,600.0	3,565.9	3,606.9	3,582.1	7.9	9.6	126.06	39.2	227.8	125.2	108.7	16.47	7.599	
3,700.0	3,662.4	3,706.9	3,678.8	8.1	9.9	125.82	49.6	250.9	127.8	111.0	16.81	7.603	
3,800.0	3,758.9	3,806.8	3,775.5	8.3	10.2	125.60	59.9	274.0	130.4	113.3	17.16	7.601	
3,900.0	3,855.4	3,906.8	3,872.2	8.4	10.6	125.38	70.3	297.0	133.0	115.5	17.52	7.595	
4,000.0	3,951.9	4,006.8	3,969.0	8.6	10.9	125.18	80.6	320.1	135.7	117.8	17.89	7.584	
4,100.0	4,048.3	4,106.7	4,065.7	8.8	11.3	124.98	91.0	343.2	138.3	120.0	18.27	7.570	
4,200.0	4,144.8	4,206.7	4,162.4	9.0	11.7	124.79	101.3	366.3	140.9	122.3	18.66	7.553	
4,300.0	4,241.3	4,306.7	4,259.1	9.2	12.1	124.61	111.7	389.3	143.6	124.5	19.06	7.534	
4,400.0	4,337.8	4,406.6	4,355.8	9.4	12.5	124.43	122.0	412.4	146.2	126.8	19.46	7.512	
4,500.0	4,434.3	4,506.6	4,452.5	9.6	12.9	124.26	132.4	435.5	148.9	129.0	19.88	7.489	
4,600.0	4,530.8	4,606.6	4,549.2	9.8	13.3	124.09	142.7	458.6	151.5	131.2	20.29	7.465	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
4,700.0	4,627.3	4,706.5	4,645.9	10.0	13.7	123.93	153.1	481.7	154.1	133.4	20.72	7.439	
4,800.0	4,723.7	4,806.5	4,742.6	10.2	14.1	123.78	163.4	504.7	156.8	135.6	21.15	7.412	
4,900.0	4,820.2	4,906.5	4,839.4	10.4	14.6	123.63	173.8	527.8	159.4	137.8	21.59	7.385	
5,000.0	4,916.7	5,006.4	4,936.1	10.6	15.0	123.49	184.1	550.9	162.1	140.0	22.03	7.357	
5,100.0	5,013.2	5,106.4	5,032.8	10.8	15.4	123.35	194.5	574.0	164.7	142.2	22.47	7.329	
5,200.0	5,109.7	5,206.3	5,129.5	11.0	15.9	123.21	204.8	597.0	167.4	144.4	22.92	7.301	
5,300.0	5,206.2	5,306.3	5,226.2	11.2	16.3	123.08	215.2	620.1	170.0	146.6	23.38	7.272	
5,400.0	5,302.7	5,406.3	5,322.9	11.4	16.7	122.95	225.5	643.2	172.7	148.8	23.83	7.244	
5,500.0	5,399.1	5,506.2	5,419.6	11.6	17.2	122.83	235.9	666.3	175.3	151.0	24.30	7.216	
5,600.0	5,495.6	5,606.2	5,516.3	11.8	17.6	122.71	246.2	689.4	178.0	153.2	24.76	7.187	
5,700.0	5,592.1	5,706.2	5,613.1	12.0	18.1	122.60	256.6	712.4	180.6	155.4	25.23	7.159	
5,800.0	5,688.6	5,806.1	5,709.8	12.2	18.5	122.48	266.9	735.5	183.3	157.6	25.70	7.132	
5,900.0	5,785.1	5,906.1	5,806.5	12.4	19.0	122.38	277.2	758.6	185.9	159.7	26.17	7.104	
6,000.0	5,881.6	6,006.1	5,903.2	12.7	19.4	122.27	287.6	781.7	188.6	161.9	26.64	7.077	
6,100.0	5,978.1	6,106.0	5,999.9	12.9	19.9	122.17	297.9	804.7	191.2	164.1	27.12	7.051	
6,200.0	6,074.5	6,206.0	6,096.6	13.1	20.4	122.07	308.3	827.8	193.9	166.3	27.60	7.024	
6,300.0	6,171.0	6,306.0	6,193.3	13.3	20.8	121.97	318.6	850.9	196.5	168.4	28.08	6.998	
6,400.0	6,267.5	6,405.9	6,290.0	13.5	21.3	121.87	329.0	874.0	199.2	170.6	28.57	6.973	
6,500.0	6,364.0	6,505.9	6,386.7	13.7	21.8	121.78	339.3	897.0	201.8	172.8	29.05	6.948	
6,600.0	6,460.5	6,605.8	6,483.5	14.0	22.2	121.69	349.7	920.1	204.5	175.0	29.54	6.923	
6,700.0	6,557.0	6,705.8	6,580.2	14.2	22.7	121.60	360.0	943.2	207.2	177.1	30.03	6.899	
6,800.0	6,653.4	6,805.8	6,676.9	14.4	23.2	121.52	370.4	966.3	209.8	179.3	30.52	6.875	
6,900.0	6,749.9	6,905.7	6,773.6	14.6	23.6	121.43	380.7	989.4	212.5	181.5	31.01	6.852	
7,000.0	6,846.4	7,005.7	6,870.3	14.8	24.1	121.35	391.1	1,012.4	215.1	183.6	31.50	6.829	
7,100.0	6,942.9	7,105.7	6,967.0	15.1	24.6	121.27	401.4	1,035.5	217.8	185.8	32.00	6.807	
7,200.0	7,039.4	7,205.6	7,063.7	15.3	25.1	121.19	411.8	1,058.6	220.4	188.0	32.49	6.785	
7,300.0	7,135.9	7,305.6	7,160.4	15.5	25.5	121.12	422.1	1,081.7	223.1	190.1	32.99	6.763	
7,360.5	7,194.3	7,366.1	7,219.0	15.6	25.8	121.07	428.4	1,095.6	224.7	191.4	33.28	6.753	
7,400.0	7,232.4	7,405.6	7,257.2	15.7	26.0	121.02	432.5	1,104.7	225.7	192.2	33.46	6.746	
7,500.0	7,329.3	7,505.5	7,353.9	15.9	26.5	120.63	442.8	1,127.8	227.6	193.7	33.89	6.714	
7,600.0	7,426.6	7,605.5	7,450.6	16.1	27.0	119.86	453.2	1,150.9	228.6	194.3	34.25	6.673	
7,700.0	7,524.3	7,705.4	7,547.2	16.4	27.4	118.71	463.5	1,174.0	228.8	194.2	34.54	6.623	
7,800.0	7,622.3	7,805.2	7,643.8	16.6	27.9	117.17	473.9	1,197.0	228.2	193.5	34.75	6.567	
7,900.0	7,720.7	7,904.9	7,740.2	16.8	28.4	115.22	484.2	1,220.0	227.1	192.3	34.90	6.509	
8,000.0	7,819.4	8,004.4	7,836.5	17.0	28.9	112.85	494.5	1,243.0	225.6	190.7	34.98	6.450	
8,100.0	7,918.3	8,103.8	7,932.7	17.2	29.4	110.04	504.8	1,265.9	223.9	188.9	35.03	6.392	
8,200.0	8,017.5	8,203.0	8,028.6	17.3	29.8	106.78	515.1	1,288.8	222.2	187.1	35.07	6.336	
8,300.0	8,116.9	8,301.9	8,124.3	17.5	30.3	103.06	525.3	1,311.7	220.8	185.7	35.16	6.280	
8,400.0	8,216.4	8,400.6	8,219.8	17.7	30.8	98.89	535.5	1,334.4	220.2	184.8	35.38	6.223	
8,420.2	8,236.5	8,420.4	8,239.0	17.7	30.9	98.00	537.6	1,339.0	220.1	184.7	35.44	6.211	
8,500.0	8,316.1	8,498.9	8,315.0	17.9	31.3	94.30	545.7	1,357.2	220.5	184.7	35.80	6.161	
8,600.0	8,416.0	8,597.0	8,409.8	18.0	31.7	89.35	555.9	1,379.8	222.4	185.9	36.50	6.092	
8,700.0	8,515.9	8,694.7	8,504.3	18.2	32.2	84.13	566.0	1,402.3	226.1	188.5	37.55	6.021	
8,800.0	8,615.9	8,792.0	8,598.5	18.3	32.7	78.75	576.0	1,424.8	232.1	193.1	38.96	5.957	
8,884.1	8,700.0	8,873.6	8,677.4	18.4	33.1	134.54	584.5	1,443.6	239.1	198.7	40.37	5.921	
8,900.0	8,715.9	8,888.9	8,692.2	18.4	33.2	133.67	586.1	1,447.2	240.6	199.9	40.65	5.918	
9,000.0	8,815.9	8,985.6	8,785.8	18.4	33.6	128.46	596.1	1,469.5	251.5	209.0	42.52	5.914	
9,100.0	8,915.9	9,082.4	8,879.4	18.5	34.1	123.70	606.1	1,491.8	264.4	220.0	44.40	5.955	
9,200.0	9,015.9	9,179.1	8,973.0	18.6	34.6	119.39	616.1	1,514.2	279.0	232.8	46.21	6.036	
9,300.0	9,115.9	9,275.9	9,066.6	18.6	35.0	115.51	626.1	1,536.5	295.0	247.1	47.93	6.154	
9,400.0	9,215.9	9,372.6	9,160.2	18.7	35.5	112.03	636.2	1,558.9	312.3	262.7	49.54	6.303	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
9,500.0	9,315.9	9,469.4	9,253.8	18.7	36.0	108.91	646.2	1,581.2	330.6	279.5	51.04	6.477	
9,600.0	9,415.9	9,566.1	9,347.4	18.8	36.5	106.12	656.2	1,603.5	349.8	297.3	52.43	6.671	
9,700.0	9,515.9	9,662.9	9,441.0	18.8	36.9	103.61	666.2	1,625.9	369.7	316.0	53.72	6.881	
9,800.0	9,615.9	9,759.6	9,534.6	18.9	37.4	101.36	676.2	1,648.2	390.2	335.3	54.93	7.104	
9,900.0	9,715.9	9,861.6	9,633.4	18.9	37.9	99.28	686.5	1,671.2	410.8	354.7	56.07	7.327	
10,000.0	9,815.9	9,965.4	9,734.4	19.0	38.4	97.50	696.3	1,692.9	430.3	373.2	57.10	7.535	
10,100.0	9,915.9	10,070.0	9,836.7	19.1	38.9	95.99	705.3	1,713.1	448.6	390.5	58.05	7.728	
10,200.0	10,015.9	10,175.5	9,940.2	19.1	39.4	94.71	713.7	1,731.8	465.5	406.6	58.91	7.902	
10,300.0	10,115.9	10,281.7	10,044.7	19.2	39.8	93.62	721.4	1,748.8	481.1	421.4	59.70	8.058	
10,400.0	10,215.9	10,388.5	10,150.2	19.2	40.3	92.71	728.2	1,764.2	495.1	434.7	60.42	8.194	
10,500.0	10,315.9	10,496.0	10,256.7	19.3	40.8	91.94	734.3	1,777.8	507.5	446.5	61.08	8.309	
10,600.0	10,415.9	10,604.0	10,363.9	19.3	41.2	91.30	739.7	1,789.6	518.4	456.7	61.69	8.404	
10,700.0	10,515.9	10,712.5	10,471.8	19.4	41.7	90.79	744.2	1,799.7	527.6	465.4	62.23	8.478	
10,800.0	10,615.9	10,821.3	10,580.2	19.5	42.1	90.38	747.8	1,807.9	535.1	472.4	62.71	8.533	
10,900.0	10,715.9	10,930.4	10,689.1	19.5	42.5	90.08	750.7	1,814.2	540.9	477.8	63.12	8.569	
11,000.0	10,815.9	11,039.8	10,798.4	19.6	42.8	89.86	752.7	1,818.7	545.0	481.5	63.47	8.586	
11,100.0	10,915.9	11,149.3	10,907.9	19.6	43.1	89.75	753.8	1,821.2	547.3	483.6	63.73	8.588	
11,200.0	11,015.9	11,257.3	11,015.9	19.7	43.3	89.71	754.1	1,821.9	547.9	484.1	63.83	8.583	
11,300.0	11,115.9	11,357.3	11,115.9	19.8	43.3	89.71	754.1	1,821.9	547.9	484.0	63.89	8.575	
11,400.0	11,215.9	11,457.3	11,215.9	19.8	43.4	89.71	754.1	1,821.9	547.9	483.9	63.96	8.567	
11,494.6	11,310.5	11,551.9	11,310.5	19.9	43.4	89.71	754.1	1,821.9	547.9	483.9	64.02	8.559	
11,500.0	11,315.9	11,557.3	11,315.9	19.9	43.4	-89.93	754.1	1,821.9	547.9	483.9	64.02	8.558	
11,520.5	11,336.3	11,577.8	11,336.3	19.9	43.4	-90.00	754.1	1,821.9	547.9	483.9	64.04	8.555	
11,525.0	11,340.8	11,582.3	11,340.8	19.9	43.4	-90.03	754.1	1,821.9	547.9	483.9	64.05	8.554	
11,550.0	11,365.7	11,607.2	11,365.7	19.8	43.4	-90.26	754.1	1,821.9	547.9	483.8	64.11	8.546	
11,575.0	11,390.5	11,631.9	11,390.5	19.8	43.4	-90.62	754.1	1,821.9	547.9	483.7	64.20	8.535	
11,600.0	11,415.0	11,656.4	11,415.0	19.8	43.4	-91.11	754.1	1,821.9	548.0	483.7	64.32	8.520	
11,625.0	11,439.2	11,680.7	11,439.2	19.8	43.4	-91.71	754.1	1,821.9	548.2	483.7	64.47	8.503	
11,650.0	11,463.1	11,704.6	11,463.1	19.8	43.4	-92.41	754.1	1,821.9	548.4	483.8	64.64	8.485	
11,675.0	11,486.6	11,728.0	11,486.6	19.7	43.4	-93.20	754.1	1,821.9	548.9	484.1	64.82	8.467	
11,700.0	11,509.6	11,751.0	11,509.6	19.7	43.4	-94.06	754.1	1,821.9	549.6	484.5	65.03	8.451	
11,725.0	11,532.0	11,773.5	11,532.1	19.7	43.4	-94.97	754.1	1,821.9	550.5	485.3	65.24	8.439	
11,750.0	11,553.9	11,805.5	11,564.1	19.7	43.4	-96.36	753.1	1,821.7	551.7	486.4	65.23	8.457	
11,775.0	11,575.0	11,838.9	11,597.3	19.6	43.3	-97.77	749.7	1,821.2	552.7	487.6	65.11	8.489	
11,800.0	11,595.5	11,873.7	11,631.6	19.6	43.3	-99.19	743.7	1,820.3	553.7	488.8	64.89	8.533	
11,825.0	11,615.1	11,910.1	11,666.8	19.6	43.2	-100.62	734.9	1,818.9	554.6	490.0	64.57	8.589	
11,850.0	11,633.9	11,948.1	11,702.7	19.6	43.1	-102.06	722.9	1,817.1	555.3	491.1	64.14	8.657	
11,875.0	11,651.9	11,987.6	11,739.1	19.6	43.0	-103.49	707.4	1,814.7	555.8	492.2	63.61	8.737	
11,900.0	11,668.9	12,028.9	11,775.4	19.6	42.9	-104.90	688.2	1,811.7	556.0	493.0	62.98	8.828	
11,925.0	11,684.9	12,071.7	11,811.2	19.6	42.8	-106.28	664.9	1,808.1	555.9	493.6	62.26	8.928	
11,950.0	11,699.9	12,116.1	11,846.0	19.6	42.7	-107.60	637.7	1,803.9	555.4	493.9	61.46	9.036	
11,975.0	11,713.8	12,161.9	11,879.0	19.6	42.6	-108.85	606.3	1,799.0	554.4	493.8	60.60	9.148	
12,000.0	11,726.6	12,208.9	11,909.5	19.6	42.5	-110.00	571.0	1,793.6	553.0	493.3	59.71	9.261	
12,025.0	11,738.3	12,256.9	11,936.9	19.6	42.4	-111.04	532.1	1,787.5	551.0	492.2	58.80	9.371	
12,050.0	11,748.8	12,305.5	11,960.5	19.6	42.4	-111.96	490.1	1,781.0	548.5	490.6	57.90	9.473	
12,075.0	11,758.1	12,354.4	11,979.8	19.6	42.3	-112.73	445.7	1,774.2	545.3	488.3	57.02	9.563	
12,100.0	11,766.2	12,403.3	11,994.3	19.6	42.3	-113.35	399.7	1,767.0	541.6	485.4	56.20	9.638	
12,125.0	11,773.1	12,451.7	12,004.0	19.6	42.3	-113.80	352.8	1,759.8	537.3	481.9	55.44	9.692	
12,150.0	11,778.6	12,499.4	12,008.8	19.7	42.3	-114.10	306.0	1,752.5	532.5	477.7	54.75	9.725	
12,175.0	11,782.9	12,533.6	12,009.4	19.7	42.3	-114.40	272.2	1,747.3	527.2	472.8	54.47	9.680	
12,200.0	11,785.9	12,554.6	12,009.4	19.7	42.3	-114.81	251.4	1,744.2	522.5	468.0	54.51	9.586	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
12,225.0	11,787.6	12,575.8	12,009.4	19.7	42.4	-115.25	230.4	1,741.3	518.6	464.0	54.53	9.510	
12,244.6	11,788.0	12,592.5	12,009.4	19.8	42.4	-115.62	213.8	1,739.1	515.9	461.4	54.51	9.464	
12,300.0	11,788.0	12,639.8	12,009.4	19.8	42.4	-115.91	166.9	1,733.4	509.6	455.1	54.47	9.355	
12,400.0	11,788.0	12,725.7	12,009.4	20.0	42.5	-116.36	81.4	1,725.0	500.2	445.8	54.42	9.192	
12,500.0	11,788.0	12,812.0	12,009.4	20.2	42.6	-116.69	-4.7	1,719.1	493.6	439.2	54.43	9.069	
12,600.0	11,788.0	12,900.0	12,009.4	20.4	42.7	-116.89	-92.7	1,715.8	489.7	435.2	54.46	8.991	
12,700.0	11,788.0	12,986.0	12,009.4	20.6	42.9	-116.95	-178.7	1,715.2	488.4	433.8	54.61	8.945	
12,800.0	11,788.0	13,086.0	12,009.4	20.8	43.0	-116.95	-278.7	1,715.8	488.4	433.9	54.54	8.956	
12,900.0	11,788.0	13,186.0	12,009.4	21.1	43.2	-116.95	-378.7	1,716.5	488.4	433.9	54.53	8.957	
13,000.0	11,788.0	13,286.0	12,009.4	21.4	43.4	-116.95	-478.7	1,717.1	488.4	433.9	54.57	8.950	
13,100.0	11,788.0	13,386.0	12,009.4	21.7	43.6	-116.95	-578.7	1,717.7	488.4	433.8	54.67	8.935	
13,200.0	11,788.0	13,486.0	12,009.4	22.0	43.9	-116.96	-678.7	1,718.3	488.4	433.6	54.81	8.910	
13,300.0	11,788.0	13,586.0	12,009.4	22.3	44.1	-116.96	-778.7	1,718.9	488.4	433.4	55.02	8.878	
13,400.0	11,788.0	13,686.0	12,009.4	22.7	44.4	-116.96	-878.7	1,719.6	488.4	433.1	55.27	8.837	
13,500.0	11,788.0	13,786.0	12,009.4	23.1	44.7	-116.96	-978.7	1,720.2	488.4	432.8	55.57	8.788	
13,600.0	11,788.0	13,886.0	12,009.4	23.5	45.0	-116.96	-1,078.7	1,720.8	488.4	432.5	55.93	8.733	
13,700.0	11,788.0	13,986.0	12,009.4	23.9	45.4	-116.96	-1,178.7	1,721.4	488.4	432.1	56.33	8.670	
13,800.0	11,788.0	14,086.0	12,009.4	24.3	45.7	-116.96	-1,278.7	1,722.0	488.4	431.6	56.79	8.600	
13,900.0	11,788.0	14,186.0	12,009.4	24.8	46.1	-116.96	-1,378.7	1,722.7	488.4	431.1	57.29	8.525	
14,000.0	11,788.0	14,286.0	12,009.4	25.3	46.4	-116.96	-1,478.7	1,723.3	488.4	430.5	57.84	8.444	
14,100.0	11,788.0	14,386.0	12,009.4	25.8	46.8	-116.96	-1,578.7	1,723.9	488.4	429.9	58.43	8.359	
14,200.0	11,788.0	14,486.0	12,009.4	26.3	47.2	-116.96	-1,678.7	1,724.5	488.4	429.3	59.06	8.269	
14,300.0	11,788.0	14,586.0	12,009.4	26.9	47.7	-116.96	-1,778.7	1,725.1	488.4	428.6	59.74	8.175	
14,400.0	11,788.0	14,686.0	12,009.4	27.4	48.1	-116.96	-1,878.7	1,725.8	488.4	427.9	60.46	8.077	
14,500.0	11,788.0	14,786.0	12,009.4	28.0	48.6	-116.96	-1,978.7	1,726.4	488.4	427.1	61.22	7.977	
14,600.0	11,788.0	14,886.0	12,009.4	28.6	49.0	-116.96	-2,078.7	1,727.0	488.4	426.3	62.01	7.875	
14,700.0	11,788.0	14,986.0	12,009.4	29.2	49.5	-116.96	-2,178.7	1,727.6	488.3	425.5	62.84	7.771	
14,800.0	11,788.0	15,086.0	12,009.4	29.8	50.0	-116.96	-2,278.7	1,728.2	488.3	424.6	63.71	7.665	
14,900.0	11,788.0	15,186.0	12,009.4	30.4	50.5	-116.96	-2,378.7	1,728.9	488.3	423.7	64.61	7.558	
15,000.0	11,788.0	15,286.0	12,009.4	31.0	51.0	-116.96	-2,478.7	1,729.5	488.3	422.8	65.54	7.451	
15,100.0	11,788.0	15,386.0	12,009.4	31.7	51.6	-116.96	-2,578.7	1,730.1	488.3	421.8	66.51	7.343	
15,200.0	11,788.0	15,486.0	12,009.4	32.3	52.1	-116.96	-2,678.7	1,730.7	488.3	420.8	67.50	7.235	
15,300.0	11,788.0	15,586.0	12,009.4	33.0	52.7	-116.96	-2,778.6	1,731.3	488.3	419.8	68.52	7.127	
15,400.0	11,788.0	15,686.0	12,009.4	33.7	53.2	-116.96	-2,878.6	1,732.0	488.3	418.7	69.57	7.019	
15,500.0	11,788.0	15,786.0	12,009.4	34.4	53.8	-116.96	-2,978.6	1,732.6	488.3	417.7	70.64	6.913	
15,600.0	11,788.0	15,886.0	12,009.4	35.1	54.4	-116.96	-3,078.6	1,733.2	488.3	416.6	71.74	6.807	
15,700.0	11,788.0	15,986.0	12,009.4	35.7	55.0	-116.96	-3,178.6	1,733.8	488.3	415.4	72.86	6.702	
15,800.0	11,788.0	16,086.0	12,009.4	36.5	55.6	-116.96	-3,278.6	1,734.4	488.3	414.3	74.00	6.599	
15,900.0	11,788.0	16,186.0	12,009.4	37.2	56.2	-116.96	-3,378.6	1,735.1	488.3	413.1	75.16	6.496	
16,000.0	11,788.0	16,286.0	12,009.4	37.9	56.9	-116.96	-3,478.6	1,735.7	488.3	411.9	76.35	6.395	
16,100.0	11,788.0	16,386.0	12,009.4	38.6	57.5	-116.96	-3,578.6	1,736.3	488.3	410.7	77.55	6.296	
16,200.0	11,788.0	16,486.0	12,009.4	39.3	58.1	-116.96	-3,678.6	1,736.9	488.3	409.5	78.78	6.198	
16,300.0	11,788.0	16,586.0	12,009.4	40.1	58.8	-116.96	-3,778.6	1,737.5	488.3	408.3	80.02	6.102	
16,400.0	11,788.0	16,686.0	12,009.4	40.8	59.5	-116.96	-3,878.6	1,738.2	488.3	407.0	81.27	6.008	
16,500.0	11,788.0	16,786.0	12,009.4	41.6	60.1	-116.97	-3,978.6	1,738.8	488.3	405.7	82.55	5.915	
16,600.0	11,788.0	16,886.0	12,009.4	42.3	60.8	-116.97	-4,078.6	1,739.4	488.3	404.4	83.83	5.824	
16,700.0	11,788.0	16,986.0	12,009.4	43.1	61.5	-116.97	-4,178.6	1,740.0	488.2	403.1	85.14	5.735	
16,800.0	11,788.0	17,086.0	12,009.4	43.8	62.2	-116.97	-4,278.6	1,740.6	488.2	401.8	86.45	5.647	
16,900.0	11,788.0	17,186.0	12,009.4	44.6	62.9	-116.97	-4,378.6	1,741.3	488.2	400.5	87.78	5.562	
17,000.0	11,788.0	17,286.0	12,009.4	45.3	63.6	-116.97	-4,478.6	1,741.9	488.2	399.1	89.13	5.478	
17,100.0	11,788.0	17,386.0	12,009.4	46.1	64.3	-116.97	-4,578.6	1,742.5	488.2	397.7	90.48	5.396	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
17,200.0	11,788.0	17,486.0	12,009.4	46.9	65.0	-116.97	-4,678.6	1,743.1	488.2	396.4	91.85	5.315	
17,300.0	11,788.0	17,586.0	12,009.4	47.7	65.8	-116.97	-4,778.6	1,743.7	488.2	395.0	93.23	5.237	
17,400.0	11,788.0	17,686.0	12,009.4	48.4	66.5	-116.97	-4,878.6	1,744.4	488.2	393.6	94.62	5.160	
17,500.0	11,788.0	17,786.0	12,009.4	49.2	67.3	-116.97	-4,978.6	1,745.0	488.2	392.2	96.01	5.085	
17,600.0	11,788.0	17,886.0	12,009.4	50.0	68.0	-116.97	-5,078.6	1,745.6	488.2	390.8	97.42	5.011	
17,700.0	11,788.0	17,986.0	12,009.4	50.8	68.8	-116.97	-5,178.6	1,746.2	488.2	389.4	98.84	4.939	
17,800.0	11,788.0	18,086.0	12,009.4	51.6	69.5	-116.97	-5,278.6	1,746.8	488.2	387.9	100.27	4.869	
17,900.0	11,788.0	18,186.0	12,009.4	52.4	70.3	-116.97	-5,378.6	1,747.5	488.2	386.5	101.70	4.800	
18,000.0	11,788.0	18,286.0	12,009.4	53.1	71.0	-116.97	-5,478.6	1,748.1	488.2	385.0	103.15	4.733	
18,100.0	11,788.0	18,386.0	12,009.4	53.9	71.8	-116.97	-5,578.6	1,748.7	488.2	383.6	104.60	4.667	
18,200.0	11,788.0	18,486.0	12,009.4	54.7	72.6	-116.97	-5,678.6	1,749.3	488.2	382.1	106.05	4.603	
18,300.0	11,788.0	18,586.0	12,009.4	55.5	73.4	-116.97	-5,778.6	1,749.9	488.2	380.6	107.52	4.540	
18,400.0	11,788.0	18,686.0	12,009.4	56.3	74.2	-116.97	-5,878.6	1,750.6	488.2	379.2	108.99	4.479	
18,500.0	11,788.0	18,786.0	12,009.4	57.1	74.9	-116.97	-5,978.6	1,751.2	488.2	377.7	110.47	4.419	
18,600.0	11,788.0	18,886.0	12,009.4	57.9	75.7	-116.97	-6,078.6	1,751.8	488.2	376.2	111.96	4.360	
18,700.0	11,788.0	18,986.0	12,009.4	58.7	76.5	-116.97	-6,178.6	1,752.4	488.1	374.7	113.45	4.303	
18,800.0	11,788.0	19,086.0	12,009.4	59.5	77.3	-116.97	-6,278.6	1,753.0	488.1	373.2	114.95	4.247	
18,900.0	11,788.0	19,186.0	12,009.4	60.4	78.1	-116.97	-6,378.6	1,753.7	488.1	371.7	116.45	4.192	
19,000.0	11,788.0	19,286.0	12,009.4	61.2	79.0	-116.97	-6,478.6	1,754.3	488.1	370.2	117.96	4.138	
19,100.0	11,788.0	19,386.0	12,009.4	62.0	79.8	-116.97	-6,578.6	1,754.9	488.1	368.7	119.47	4.086	
19,200.0	11,788.0	19,486.0	12,009.4	62.8	80.6	-116.97	-6,678.6	1,755.5	488.1	367.1	120.99	4.034	
19,300.0	11,788.0	19,586.0	12,009.4	63.6	81.4	-116.97	-6,778.6	1,756.1	488.1	365.6	122.52	3.984	
19,400.0	11,788.0	19,686.0	12,009.4	64.4	82.2	-116.97	-6,878.6	1,756.8	488.1	364.1	124.04	3.935	
19,500.0	11,788.0	19,786.0	12,009.4	65.2	83.0	-116.97	-6,978.6	1,757.4	488.1	362.5	125.58	3.887	
19,600.0	11,788.0	19,886.0	12,009.4	66.0	83.8	-116.97	-7,078.5	1,758.0	488.1	361.2	126.87	3.847	
19,602.3	11,788.0	19,888.3	12,009.4	66.1	83.8	-116.97	-7,080.9	1,758.0	488.1	361.2	126.90	3.846	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

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
8,200.0	8,017.5	8,359.7	8,148.0	17.3	18.8	30.70	724.7	2,205.6	975.8	941.1	34.71	28.111	
8,300.0	8,116.9	8,444.6	8,232.0	17.5	19.0	30.52	730.7	2,194.9	953.7	918.7	35.04	27.215	
8,400.0	8,216.4	8,530.3	8,317.0	17.7	19.1	30.34	736.0	2,185.1	934.3	899.0	35.36	26.422	
8,500.0	8,316.1	8,616.6	8,402.7	17.9	19.3	30.16	740.8	2,176.4	917.7	882.1	35.67	25.731	
8,600.0	8,416.0	8,700.0	8,485.7	18.0	19.4	30.00	744.8	2,169.1	904.0	868.0	35.95	25.142	
8,700.0	8,515.9	8,790.9	8,576.2	18.2	19.6	29.82	748.6	2,162.4	893.0	856.8	36.23	24.647	
8,800.0	8,615.9	8,878.6	8,663.7	18.3	19.7	29.66	751.5	2,157.0	884.9	848.4	36.49	24.253	
8,884.1	8,700.0	8,952.6	8,737.6	18.4	19.8	89.86	753.5	2,153.5	880.3	843.6	36.65	24.015	
8,900.0	8,715.9	8,966.6	8,751.6	18.4	19.8	89.84	753.8	2,152.9	879.6	842.9	36.68	23.982	
9,000.0	8,815.9	9,054.7	8,839.7	18.4	19.9	89.73	755.5	2,149.9	876.2	839.3	36.86	23.772	
9,100.0	8,915.9	9,142.9	8,927.8	18.5	20.1	89.67	756.5	2,148.1	874.2	837.2	37.01	23.617	
9,200.0	9,015.9	9,232.9	9,017.8	18.6	20.1	89.65	756.8	2,147.4	873.5	836.3	37.14	23.517	
9,234.0	9,049.8	9,264.9	9,049.8	18.6	20.2	89.65	756.8	2,147.4	873.5	836.3	37.17	23.499	
9,300.0	9,115.9	9,330.9	9,115.9	18.6	20.2	89.65	756.8	2,147.4	873.5	836.2	37.23	23.459	
9,400.0	9,215.9	9,430.9	9,215.9	18.7	20.2	89.65	756.8	2,147.4	873.5	836.1	37.34	23.393	
9,500.0	9,315.9	9,530.9	9,315.9	18.7	20.3	89.65	756.8	2,147.4	873.5	836.0	37.45	23.326	
9,600.0	9,415.9	9,630.9	9,415.9	18.8	20.4	89.65	756.8	2,147.4	873.5	835.9	37.55	23.260	
9,700.0	9,515.9	9,730.9	9,515.9	18.8	20.4	89.65	756.8	2,147.4	873.5	835.8	37.66	23.194	
9,800.0	9,615.9	9,830.9	9,615.9	18.9	20.5	89.65	756.8	2,147.4	873.5	835.7	37.77	23.128	
9,900.0	9,715.9	9,930.9	9,715.9	18.9	20.5	89.65	756.8	2,147.4	873.5	835.6	37.87	23.063	
10,000.0	9,815.9	10,030.9	9,815.9	19.0	20.6	89.65	756.8	2,147.4	873.5	835.5	37.98	22.997	
10,100.0	9,915.9	10,130.9	9,915.9	19.1	20.6	89.65	756.8	2,147.4	873.5	835.4	38.09	22.932	
10,200.0	10,015.9	10,230.9	10,015.9	19.1	20.7	89.65	756.8	2,147.4	873.5	835.3	38.20	22.866	
10,300.0	10,115.9	10,330.9	10,115.9	19.2	20.8	89.65	756.8	2,147.4	873.5	835.2	38.31	22.801	
10,400.0	10,215.9	10,430.9	10,215.9	19.2	20.8	89.65	756.8	2,147.4	873.5	835.0	38.42	22.736	
10,500.0	10,315.9	10,530.9	10,315.9	19.3	20.9	89.65	756.8	2,147.4	873.5	834.9	38.53	22.671	
10,600.0	10,415.9	10,630.9	10,415.9	19.3	20.9	89.65	756.8	2,147.4	873.5	834.8	38.64	22.607	
10,700.0	10,515.9	10,730.9	10,515.9	19.4	21.0	89.65	756.8	2,147.4	873.5	834.7	38.75	22.542	
10,800.0	10,615.9	10,830.9	10,615.9	19.5	21.1	89.65	756.8	2,147.4	873.5	834.6	38.86	22.478	
10,900.0	10,715.9	10,930.9	10,715.9	19.5	21.1	89.65	756.8	2,147.4	873.5	834.5	38.97	22.413	
11,000.0	10,815.9	11,030.9	10,815.9	19.6	21.2	89.65	756.8	2,147.4	873.5	834.4	39.08	22.349	
11,100.0	10,915.9	11,130.9	10,915.9	19.6	21.2	89.65	756.8	2,147.4	873.5	834.3	39.19	22.286	
11,200.0	11,015.9	11,230.9	11,015.9	19.7	21.3	89.65	756.8	2,147.4	873.5	834.2	39.31	22.222	
11,300.0	11,115.9	11,330.9	11,115.9	19.8	21.4	89.65	756.8	2,147.4	873.5	834.0	39.42	22.158	
11,400.0	11,215.9	11,430.9	11,215.9	19.8	21.4	89.65	756.8	2,147.4	873.5	833.9	39.53	22.095	
11,494.6	11,310.5	11,525.6	11,310.5	19.9	21.5	89.65	756.8	2,147.4	873.5	833.8	39.63	22.040	
11,500.0	11,315.9	11,530.9	11,315.9	19.9	21.5	-90.00	756.8	2,147.4	873.5	833.8	39.63	22.039	
11,502.6	11,318.4	11,533.5	11,318.4	19.9	21.5	-90.00	756.8	2,147.4	873.5	833.8	39.63	22.038 CC	
11,525.0	11,340.8	11,555.9	11,340.9	19.9	21.5	-90.05	756.6	2,147.5	873.5	833.8	39.64	22.037	
11,550.0	11,365.7	11,581.0	11,365.9	19.8	21.5	-90.10	755.2	2,147.5	873.5	833.8	39.62	22.044	
11,575.0	11,390.5	11,606.1	11,390.8	19.8	21.4	-90.16	752.6	2,147.5	873.5	833.9	39.61	22.054	
11,600.0	11,415.0	11,631.2	11,415.6	19.8	21.4	-90.22	748.6	2,147.5	873.5	833.9	39.58	22.067	
11,625.0	11,439.2	11,656.4	11,440.2	19.8	21.4	-90.27	743.3	2,147.5	873.5	833.9	39.55	22.083	
11,650.0	11,463.1	11,681.6	11,464.6	19.8	21.4	-90.33	736.6	2,147.6	873.5	834.0	39.52	22.102	
11,675.0	11,486.6	11,706.9	11,488.6	19.7	21.3	-90.39	728.7	2,147.6	873.5	834.0	39.48	22.124	
11,700.0	11,509.6	11,732.2	11,512.2	19.7	21.3	-90.44	719.6	2,147.7	873.5	834.1	39.44	22.148	
11,725.0	11,532.0	11,757.6	11,535.3	19.7	21.3	-90.49	709.1	2,147.7	873.5	834.1	39.39	22.175	
11,750.0	11,553.9	11,783.0	11,557.9	19.7	21.3	-90.54	697.4	2,147.8	873.5	834.2	39.34	22.204	
11,775.0	11,575.0	11,808.4	11,579.8	19.6	21.3	-90.59	684.6	2,147.9	873.5	834.2	39.29	22.235	
11,800.0	11,595.5	11,833.9	11,601.1	19.6	21.2	-90.64	670.5	2,148.0	873.5	834.3	39.23	22.267	
11,825.0	11,615.1	11,859.5	11,621.6	19.6	21.2	-90.69	655.3	2,148.1	873.5	834.4	39.17	22.302	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

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
11,850.0	11,633.9	11,885.0	11,641.3	19.6	21.2	-90.73	639.0	2,148.2	873.5	834.4	39.11	22.337	
11,875.0	11,651.9	11,910.6	11,660.1	19.6	21.2	-90.77	621.7	2,148.3	873.5	834.5	39.04	22.373	
11,900.0	11,668.9	11,936.3	11,678.0	19.6	21.2	-90.82	603.3	2,148.4	873.6	834.6	38.98	22.410	
11,925.0	11,684.9	11,962.0	11,694.9	19.6	21.2	-90.85	584.0	2,148.5	873.6	834.6	38.92	22.446	
11,950.0	11,699.9	11,987.7	11,710.8	19.6	21.2	-90.89	563.8	2,148.7	873.6	834.7	38.85	22.483	
11,975.0	11,713.8	12,013.4	11,725.6	19.6	21.2	-90.92	542.7	2,148.8	873.6	834.8	38.79	22.519	
12,000.0	11,726.6	12,039.2	11,739.2	19.6	21.2	-90.95	520.8	2,148.9	873.6	834.9	38.73	22.554	
12,025.0	11,738.3	12,065.0	11,751.6	19.6	21.2	-90.98	498.2	2,149.1	873.6	834.9	38.68	22.588	
12,050.0	11,748.8	12,090.8	11,762.8	19.6	21.2	-91.01	475.0	2,149.2	873.6	835.0	38.62	22.620	
12,075.0	11,758.1	12,116.6	11,772.8	19.6	21.2	-91.03	451.1	2,149.4	873.6	835.0	38.57	22.650	
12,100.0	11,766.2	12,142.5	11,781.4	19.6	21.2	-91.05	426.8	2,149.5	873.6	835.1	38.52	22.678	
12,125.0	11,773.1	12,168.4	11,788.7	19.6	21.2	-91.07	402.0	2,149.7	873.6	835.1	38.48	22.704	
12,150.0	11,778.6	12,194.3	11,794.7	19.7	21.2	-91.08	376.8	2,149.8	873.6	835.2	38.44	22.727	
12,175.0	11,782.9	12,220.1	11,799.3	19.7	21.3	-91.09	351.3	2,150.0	873.6	835.2	38.41	22.747	
12,200.0	11,785.9	12,246.1	11,802.5	19.7	21.3	-91.10	325.6	2,150.1	873.6	835.2	38.38	22.765	
12,225.0	11,787.6	12,272.0	11,804.3	19.7	21.3	-91.10	299.8	2,150.3	873.6	835.3	38.35	22.779	
12,244.6	11,788.0	12,292.3	11,804.8	19.8	21.3	-91.10	279.4	2,150.4	873.6	835.3	38.34	22.789	
12,300.0	11,788.0	12,347.7	11,804.8	19.8	21.4	-91.10	224.0	2,150.8	873.6	835.3	38.32	22.796	
12,400.0	11,788.0	12,447.7	11,804.8	20.0	21.6	-91.10	124.0	2,151.4	873.6	835.3	38.36	22.772	
12,500.0	11,788.0	12,547.7	11,804.8	20.2	21.7	-91.10	24.1	2,152.0	873.6	835.1	38.48	22.703	
12,600.0	11,788.0	12,647.7	11,804.8	20.4	21.9	-91.10	-75.9	2,152.7	873.6	834.9	38.67	22.591	
12,700.0	11,788.0	12,747.7	11,804.8	20.6	22.1	-91.10	-175.9	2,153.3	873.6	834.7	38.94	22.437	
12,800.0	11,788.0	12,847.7	11,804.8	20.8	22.3	-91.10	-275.9	2,153.9	873.6	834.3	39.27	22.245	
12,900.0	11,788.0	12,947.7	11,804.8	21.1	22.6	-91.10	-375.9	2,154.5	873.6	833.9	39.68	22.016	
13,000.0	11,788.0	13,047.7	11,804.8	21.4	22.8	-91.10	-475.9	2,155.1	873.6	833.5	40.15	21.756	
13,100.0	11,788.0	13,147.7	11,804.8	21.7	23.1	-91.10	-575.9	2,155.8	873.6	832.9	40.70	21.467	
13,200.0	11,788.0	13,247.7	11,804.8	22.0	23.4	-91.10	-675.9	2,156.4	873.6	832.3	41.30	21.153	
13,300.0	11,788.0	13,347.7	11,804.8	22.3	23.7	-91.10	-775.9	2,157.0	873.6	831.6	41.96	20.819	
13,400.0	11,788.0	13,447.7	11,804.8	22.7	24.0	-91.10	-875.9	2,157.6	873.6	830.9	42.68	20.467	
13,500.0	11,788.0	13,547.7	11,804.8	23.1	24.4	-91.10	-975.9	2,158.3	873.6	830.1	43.46	20.102	
13,600.0	11,788.0	13,647.7	11,804.8	23.5	24.8	-91.10	-1,075.9	2,158.9	873.6	829.3	44.29	19.726	
13,700.0	11,788.0	13,747.7	11,804.8	23.9	25.2	-91.10	-1,175.9	2,159.5	873.6	828.4	45.16	19.343	
13,800.0	11,788.0	13,847.7	11,804.8	24.3	25.6	-91.10	-1,275.9	2,160.1	873.6	827.5	46.08	18.956	
13,900.0	11,788.0	13,947.7	11,804.8	24.8	26.0	-91.10	-1,375.9	2,160.8	873.6	826.6	47.05	18.567	
14,000.0	11,788.0	14,047.7	11,804.8	25.3	26.5	-91.10	-1,475.9	2,161.4	873.6	825.5	48.06	18.179	
14,100.0	11,788.0	14,147.7	11,804.8	25.8	26.9	-91.10	-1,575.9	2,162.0	873.6	824.5	49.10	17.792	
14,200.0	11,788.0	14,247.7	11,804.8	26.3	27.4	-91.10	-1,675.9	2,162.6	873.6	823.4	50.18	17.409	
14,300.0	11,788.0	14,347.7	11,804.8	26.9	27.9	-91.10	-1,775.9	2,163.3	873.6	822.3	51.29	17.032	
14,400.0	11,788.0	14,447.7	11,804.8	27.4	28.4	-91.10	-1,875.9	2,163.9	873.6	821.2	52.44	16.660	
14,500.0	11,788.0	14,547.7	11,804.8	28.0	29.0	-91.10	-1,975.9	2,164.5	873.6	820.0	53.61	16.295	
14,600.0	11,788.0	14,647.7	11,804.8	28.6	29.5	-91.10	-2,075.9	2,165.1	873.6	818.8	54.81	15.938	
14,700.0	11,788.0	14,747.7	11,804.8	29.2	30.1	-91.10	-2,175.9	2,165.8	873.6	817.6	56.04	15.589	
14,800.0	11,788.0	14,847.7	11,804.8	29.8	30.7	-91.10	-2,275.9	2,166.4	873.6	816.3	57.29	15.249	
14,900.0	11,788.0	14,947.7	11,804.8	30.4	31.2	-91.10	-2,375.9	2,167.0	873.6	815.0	58.56	14.918	
15,000.0	11,788.0	15,047.7	11,804.8	31.0	31.9	-91.10	-2,475.9	2,167.6	873.6	813.7	59.85	14.595	
15,100.0	11,788.0	15,147.7	11,804.8	31.7	32.5	-91.10	-2,575.9	2,168.3	873.6	812.4	61.17	14.282	
15,200.0	11,788.0	15,247.7	11,804.8	32.3	33.1	-91.10	-2,675.9	2,168.9	873.6	811.1	62.50	13.977	
15,300.0	11,788.0	15,347.7	11,804.8	33.0	33.7	-91.10	-2,775.9	2,169.5	873.6	809.7	63.85	13.682	
15,400.0	11,788.0	15,447.7	11,804.8	33.7	34.4	-91.10	-2,875.9	2,170.1	873.6	808.4	65.21	13.396	
15,500.0	11,788.0	15,547.7	11,804.8	34.4	35.0	-91.10	-2,975.9	2,170.8	873.6	807.0	66.59	13.118	
15,600.0	11,788.0	15,647.7	11,804.8	35.1	35.7	-91.10	-3,075.9	2,171.4	873.6	805.6	67.99	12.849	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

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
15,700.0	11,788.0	15,747.7	11,804.8	35.7	36.4	-91.10	-3,175.9	2,172.0	873.6	804.2	69.40	12.588	
15,800.0	11,788.0	15,847.7	11,804.8	36.5	37.0	-91.10	-3,275.9	2,172.6	873.6	802.8	70.82	12.336	
15,900.0	11,788.0	15,947.7	11,804.8	37.2	37.7	-91.10	-3,375.9	2,173.3	873.6	801.3	72.25	12.091	
16,000.0	11,788.0	16,047.7	11,804.8	37.9	38.4	-91.10	-3,475.9	2,173.9	873.6	799.9	73.69	11.855	
16,100.0	11,788.0	16,147.7	11,804.8	38.6	39.1	-91.10	-3,575.9	2,174.5	873.6	798.4	75.14	11.625	
16,200.0	11,788.0	16,247.7	11,804.8	39.3	39.8	-91.10	-3,675.9	2,175.1	873.6	797.0	76.61	11.403	
16,300.0	11,788.0	16,347.7	11,804.8	40.1	40.5	-91.10	-3,775.9	2,175.8	873.6	795.5	78.08	11.188	
16,400.0	11,788.0	16,447.7	11,804.8	40.8	41.3	-91.10	-3,875.9	2,176.4	873.6	794.0	79.56	10.980	
16,500.0	11,788.0	16,547.7	11,804.8	41.6	42.0	-91.10	-3,975.9	2,177.0	873.6	792.5	81.05	10.778	
16,600.0	11,788.0	16,647.7	11,804.8	42.3	42.7	-91.10	-4,075.9	2,177.6	873.6	791.0	82.55	10.582	
16,700.0	11,788.0	16,747.7	11,804.8	43.1	43.4	-91.10	-4,175.9	2,178.3	873.6	789.5	84.05	10.393	
16,800.0	11,788.0	16,847.7	11,804.8	43.8	44.2	-91.10	-4,275.9	2,178.9	873.6	788.0	85.57	10.209	
16,900.0	11,788.0	16,947.7	11,804.8	44.6	44.9	-91.10	-4,375.9	2,179.5	873.6	786.5	87.08	10.031	
17,000.0	11,788.0	17,047.7	11,804.8	45.3	45.7	-91.10	-4,475.9	2,180.1	873.6	785.0	88.61	9.859	
17,100.0	11,788.0	17,147.7	11,804.8	46.1	46.4	-91.10	-4,575.9	2,180.8	873.6	783.4	90.14	9.691	
17,200.0	11,788.0	17,247.7	11,804.8	46.9	47.2	-91.10	-4,675.9	2,181.4	873.6	781.9	91.68	9.529	
17,300.0	11,788.0	17,347.7	11,804.8	47.7	47.9	-91.10	-4,775.9	2,182.0	873.6	780.3	93.22	9.371	
17,400.0	11,788.0	17,447.7	11,804.8	48.4	48.7	-91.10	-4,875.9	2,182.6	873.6	778.8	94.77	9.218	
17,500.0	11,788.0	17,547.7	11,804.8	49.2	49.5	-91.10	-4,975.9	2,183.3	873.6	777.2	96.32	9.069	
17,600.0	11,788.0	17,647.7	11,804.8	50.0	50.2	-91.10	-5,075.8	2,183.9	873.6	775.7	97.87	8.925	
17,700.0	11,788.0	17,747.7	11,804.8	50.8	51.0	-91.10	-5,175.8	2,184.5	873.6	774.1	99.44	8.785	
17,800.0	11,788.0	17,847.7	11,804.8	51.6	51.8	-91.10	-5,275.8	2,185.1	873.6	772.6	101.00	8.649	
17,900.0	11,788.0	17,947.7	11,804.8	52.4	52.5	-91.10	-5,375.8	2,185.7	873.6	771.0	102.57	8.517	
18,000.0	11,788.0	18,047.7	11,804.8	53.1	53.3	-91.10	-5,475.8	2,186.4	873.5	769.4	104.14	8.388	
18,100.0	11,788.0	18,147.7	11,804.8	53.9	54.1	-91.10	-5,575.8	2,187.0	873.5	767.8	105.72	8.263	
18,200.0	11,788.0	18,247.7	11,804.8	54.7	54.9	-91.10	-5,675.8	2,187.6	873.5	766.2	107.30	8.141	
18,300.0	11,788.0	18,347.7	11,804.8	55.5	55.7	-91.10	-5,775.8	2,188.2	873.5	764.7	108.89	8.023	
18,400.0	11,788.0	18,447.7	11,804.8	56.3	56.5	-91.10	-5,875.8	2,188.9	873.5	763.1	110.47	7.907	
18,500.0	11,788.0	18,547.7	11,804.8	57.1	57.3	-91.10	-5,975.8	2,189.5	873.5	761.5	112.06	7.795	
18,600.0	11,788.0	18,647.7	11,804.8	57.9	58.0	-91.10	-6,075.8	2,190.1	873.5	759.9	113.66	7.686	
18,700.0	11,788.0	18,747.7	11,804.8	58.7	58.8	-91.10	-6,175.8	2,190.7	873.5	758.3	115.25	7.579	
18,800.0	11,788.0	18,847.7	11,804.8	59.5	59.6	-91.10	-6,275.8	2,191.4	873.5	756.7	116.85	7.476	
18,900.0	11,788.0	18,947.7	11,804.8	60.4	60.4	-91.10	-6,375.8	2,192.0	873.5	755.1	118.45	7.375	
19,000.0	11,788.0	19,047.7	11,804.8	61.2	61.2	-91.10	-6,475.8	2,192.6	873.5	753.5	120.05	7.276	
19,100.0	11,788.0	19,147.7	11,804.8	62.0	62.0	-91.10	-6,575.8	2,193.2	873.5	751.9	121.66	7.180	
19,200.0	11,788.0	19,247.7	11,804.8	62.8	62.8	-91.10	-6,675.8	2,193.9	873.5	750.3	123.27	7.086	
19,300.0	11,788.0	19,347.7	11,804.8	63.6	63.6	-91.10	-6,775.8	2,194.5	873.5	748.7	124.88	6.995	
19,400.0	11,788.0	19,447.7	11,804.8	64.4	64.4	-91.10	-6,875.8	2,195.1	873.5	747.0	126.49	6.906	
19,500.0	11,788.0	19,547.7	11,804.8	65.2	65.2	-91.10	-6,975.8	2,195.7	873.5	745.4	128.11	6.819	
19,600.0	11,788.0	19,647.6	11,804.8	66.0	66.1	-91.10	-7,075.8	2,196.4	873.5	743.9	129.61	6.740	
19,602.1	11,788.0	19,649.8	11,804.8	66.1	66.2	-91.10	-7,077.9	2,196.4	873.5	743.9	129.64	6.738	
19,602.3	11,788.0	19,649.9	11,804.8	66.1	66.2	-91.10	-7,078.0	2,196.4	873.5	743.9	129.64	6.738	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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **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
0.0	0.0	0.8	0.0	3.0	3.0	89.64	0.2	40.0	40.0				
100.0	100.0	100.8	100.0	3.1	3.1	89.64	0.2	40.0	40.0	33.4	6.56	6.096	
200.0	200.0	200.8	200.0	3.2	3.3	89.64	0.2	40.0	40.0	33.1	6.91	5.790	
300.0	300.0	300.8	300.0	3.3	3.6	89.64	0.2	40.0	40.0	32.8	7.24	5.525	
400.0	400.0	400.8	400.0	3.4	3.8	89.64	0.2	40.0	40.0	32.4	7.56	5.293	
500.0	500.0	500.8	500.0	3.6	4.0	89.64	0.2	40.0	40.0	32.1	7.86	5.087	
600.0	600.0	600.8	600.0	3.7	4.1	89.64	0.2	40.0	40.0	31.8	8.16	4.903	
700.0	700.0	700.8	700.0	3.8	4.3	89.64	0.2	40.0	40.0	31.6	8.44	4.737	
800.0	800.0	800.8	800.0	3.9	4.5	89.64	0.2	40.0	40.0	31.3	8.72	4.586	
900.0	900.0	900.8	900.0	4.0	4.7	89.64	0.2	40.0	40.0	31.0	8.99	4.449	
1,000.0	1,000.0	1,000.8	1,000.0	4.2	4.8	89.64	0.2	40.0	40.0	30.7	9.25	4.322	
1,100.0	1,100.0	1,100.8	1,100.0	4.3	5.0	89.64	0.2	40.0	40.0	30.5	9.51	4.206	
1,200.0	1,200.0	1,200.8	1,200.0	4.4	5.2	89.64	0.2	40.0	40.0	30.2	9.76	4.097	
1,300.0	1,300.0	1,300.8	1,300.0	4.5	5.3	89.64	0.2	40.0	40.0	30.0	10.01	3.997	
1,400.0	1,400.0	1,400.8	1,400.0	4.6	5.5	89.64	0.2	40.0	40.0	29.8	10.25	3.903	
1,500.0	1,500.0	1,500.8	1,500.0	4.8	5.6	89.64	0.2	40.0	40.0	29.5	10.49	3.815	
1,600.0	1,600.0	1,600.8	1,600.0	4.9	5.8	89.64	0.2	40.0	40.0	29.3	10.72	3.732	
1,700.0	1,700.0	1,700.8	1,700.0	5.0	5.9	89.64	0.2	40.0	40.0	29.1	10.95	3.654	
1,800.0	1,800.0	1,800.8	1,800.0	5.1	6.0	89.64	0.2	40.0	40.0	28.8	11.17	3.581	
1,900.0	1,900.0	1,900.8	1,900.0	5.2	6.2	89.64	0.2	40.0	40.0	28.6	11.39	3.511	
1,966.4	1,966.4	1,967.2	1,966.4	5.3	6.3	89.64	0.2	40.0	40.0	28.5	11.54	3.467	
2,000.0	2,000.0	2,000.8	2,000.0	5.3	6.3	89.64	0.3	40.0	40.0	28.4	11.61	3.445	
2,004.4	2,004.4	2,005.2	2,004.4	5.3	6.3	74.64	0.3	40.0	40.0	28.4	11.62	3.442	
2,100.0	2,100.0	2,100.0	2,099.2	5.5	6.5	74.13	1.9	40.7	40.4	28.5	11.84	3.409	
2,200.0	2,199.9	2,199.6	2,198.7	5.6	6.8	72.73	6.7	42.7	41.4	29.3	12.13	3.414	
2,266.7	2,266.5	2,265.9	2,264.7	5.7	6.9	71.35	11.6	44.8	42.5	30.2	12.29	3.460	
2,300.0	2,299.7	2,299.0	2,297.6	5.7	7.0	63.06	14.6	46.1	43.1	30.7	12.36	3.485	
2,400.0	2,399.3	2,398.2	2,396.1	5.9	7.2	43.15	25.7	50.8	43.6	30.9	12.71	3.433	
2,500.0	2,498.6	2,497.1	2,493.8	6.1	7.5	26.53	39.9	56.8	43.2	30.0	13.16	3.280	
2,600.0	2,597.5	2,596.7	2,591.8	6.2	7.8	10.60	56.0	63.6	41.7	28.0	13.71	3.040	
2,700.0	2,695.9	2,696.2	2,689.8	6.4	8.0	-5.84	72.1	70.4	38.4	24.1	14.36	2.675	Normal Operations
2,800.0	2,793.6	2,795.5	2,787.5	6.6	8.3	-26.19	88.2	77.2	34.7	19.6	15.07	2.303	Caution - Monitor Closely
2,881.7	2,872.8	2,876.3	2,867.1	6.7	8.5	-47.51	101.3	82.8	33.2	17.7	15.45	2.148	Caution - Monitor Closely, CC, ES, SF
2,900.0	2,890.5	2,894.4	2,884.9	6.8	8.5	-52.80	104.3	84.0	33.3	17.8	15.48	2.150	Caution - Monitor Closely
2,903.6	2,894.0	2,897.9	2,888.4	6.8	8.5	-53.85	104.8	84.3	33.3	17.9	15.48	2.153	Caution - Monitor Closely
3,000.0	2,987.0	2,993.0	2,982.0	6.9	8.8	-77.98	120.3	90.8	38.0	22.7	15.31	2.484	Caution - Monitor Closely
3,100.0	3,083.5	3,091.7	3,079.1	7.1	9.1	-95.17	136.3	97.6	48.2	33.0	15.14	3.181	
3,200.0	3,180.0	3,190.4	3,176.2	7.2	9.4	-105.85	152.3	104.3	61.1	45.9	15.16	4.027	
3,300.0	3,276.5	3,289.0	3,273.4	7.4	9.8	-112.68	168.2	111.1	75.3	60.0	15.31	4.919	
3,400.0	3,373.0	3,387.7	3,370.5	7.6	10.1	-117.31	184.2	117.9	90.3	74.7	15.53	5.813	
3,500.0	3,469.4	3,486.3	3,467.6	7.7	10.4	-120.61	200.2	124.7	105.7	89.9	15.79	6.693	
3,600.0	3,565.9	3,585.0	3,564.7	7.9	10.8	-123.06	216.2	131.4	121.3	105.2	16.06	7.550	
3,700.0	3,662.4	3,683.6	3,661.8	8.1	11.1	-124.96	232.2	138.2	137.1	120.7	16.36	8.380	
3,800.0	3,758.9	3,782.3	3,758.9	8.3	11.5	-126.46	248.2	145.0	153.0	136.3	16.66	9.183	
3,900.0	3,855.4	3,880.9	3,856.0	8.4	11.9	-127.68	264.2	151.7	169.0	152.0	16.97	9.958	
4,000.0	3,951.9	3,979.6	3,953.1	8.6	12.3	-128.69	280.2	158.5	185.1	167.8	17.29	10.704	
4,100.0	4,048.3	4,078.2	4,050.3	8.8	12.6	-129.53	296.2	165.3	201.2	183.6	17.61	11.423	
4,200.0	4,144.8	4,176.9	4,147.4	9.0	13.0	-130.26	312.2	172.0	217.3	199.4	17.94	12.115	
4,300.0	4,241.3	4,275.5	4,244.5	9.2	13.4	-130.88	328.2	178.8	233.5	215.2	18.27	12.781	
4,400.0	4,337.8	4,374.2	4,341.6	9.4	13.8	-131.42	344.2	185.6	249.7	231.1	18.60	13.422	
4,500.0	4,434.3	4,472.9	4,438.7	9.6	14.2	-131.89	360.2	192.4	265.9	247.0	18.94	14.039	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
4,600.0	4,530.8	4,571.5	4,535.8	9.8	14.6	-132.31	376.2	199.1	282.1	262.9	19.28	14.633	
4,700.0	4,627.3	4,670.2	4,632.9	10.0	15.0	-132.69	392.2	205.9	298.4	278.8	19.62	15.205	
4,800.0	4,723.7	4,768.8	4,730.0	10.2	15.4	-133.02	408.2	212.7	314.6	294.7	19.97	15.756	
4,900.0	4,820.2	4,867.5	4,827.2	10.4	15.8	-133.33	424.2	219.4	330.9	310.6	20.32	16.286	
5,000.0	4,916.7	4,966.1	4,924.3	10.6	16.2	-133.60	440.2	226.2	347.2	326.5	20.67	16.797	
5,100.0	5,013.2	5,064.8	5,021.4	10.8	16.6	-133.85	456.2	233.0	363.5	342.4	21.02	17.290	
5,200.0	5,109.7	5,163.4	5,118.5	11.0	17.1	-134.08	472.2	239.7	379.8	358.4	21.38	17.765	
5,300.0	5,206.2	5,262.1	5,215.6	11.2	17.5	-134.29	488.1	246.5	396.1	374.3	21.73	18.223	
5,400.0	5,302.7	5,360.7	5,312.7	11.4	17.9	-134.48	504.1	253.3	412.4	390.3	22.09	18.665	
5,500.0	5,399.1	5,459.4	5,409.8	11.6	18.3	-134.66	520.1	260.1	428.7	406.2	22.45	19.091	
5,600.0	5,495.6	5,558.0	5,506.9	11.8	18.7	-134.83	536.1	266.8	445.0	422.1	22.82	19.503	
5,700.0	5,592.1	5,656.7	5,604.1	12.0	19.2	-134.98	552.1	273.6	461.3	438.1	23.18	19.901	
5,800.0	5,688.6	5,755.4	5,701.2	12.2	19.6	-135.12	568.1	280.4	477.6	454.0	23.54	20.285	
5,900.0	5,785.1	5,854.0	5,798.3	12.4	20.0	-135.26	584.1	287.1	493.9	470.0	23.91	20.656	
6,000.0	5,881.6	5,952.7	5,895.4	12.7	20.4	-135.38	600.1	293.9	510.2	485.9	24.28	21.015	
6,100.0	5,978.1	6,051.3	5,992.5	12.9	20.9	-135.50	616.1	300.7	526.5	501.9	24.65	21.363	
6,200.0	6,074.5	6,150.0	6,089.6	13.1	21.3	-135.61	632.1	307.5	542.9	517.8	25.02	21.699	
6,300.0	6,171.0	6,248.6	6,186.7	13.3	21.7	-135.72	648.1	314.2	559.2	533.8	25.39	22.024	
6,400.0	6,267.5	6,347.3	6,283.8	13.5	22.2	-135.81	664.1	321.0	575.5	549.7	25.76	22.339	
6,500.0	6,364.0	6,445.9	6,381.0	13.7	22.6	-135.91	680.1	327.8	591.8	565.7	26.14	22.644	
6,600.0	6,460.5	6,544.6	6,478.1	14.0	23.0	-135.99	696.1	334.5	608.2	581.7	26.51	22.940	
6,700.0	6,557.0	6,643.2	6,575.2	14.2	23.5	-136.08	712.1	341.3	624.5	597.6	26.89	23.227	
6,800.0	6,653.4	6,741.9	6,672.3	14.4	23.9	-136.16	728.1	348.1	640.8	613.6	27.26	23.505	
6,900.0	6,749.9	6,840.5	6,769.4	14.6	24.3	-136.23	744.1	354.8	657.2	629.5	27.64	23.774	
7,000.0	6,846.4	6,939.2	6,866.5	14.8	24.8	-136.30	760.1	361.6	673.5	645.5	28.02	24.036	
7,100.0	6,942.9	7,037.9	6,963.6	15.1	25.2	-136.37	776.1	368.4	689.8	661.4	28.40	24.290	
7,200.0	7,039.4	7,136.5	7,060.7	15.3	25.6	-136.43	792.1	375.2	706.2	677.4	28.78	24.536	
7,300.0	7,135.9	7,235.2	7,157.9	15.5	26.1	-136.50	808.1	381.9	722.5	693.3	29.16	24.776	
7,360.5	7,194.3	7,294.9	7,216.7	15.6	26.3	-136.53	817.7	386.0	732.4	703.0	29.38	24.929	
7,400.0	7,232.4	7,333.8	7,255.0	15.7	26.5	-136.59	824.0	388.7	738.7	709.2	29.52	25.028	
7,500.0	7,329.3	7,432.7	7,352.3	15.9	26.9	-136.67	840.1	395.5	754.0	724.1	29.88	25.229	
7,600.0	7,426.6	7,531.7	7,449.7	16.1	27.4	-136.65	856.1	402.3	767.9	737.7	30.23	25.402	
7,700.0	7,524.3	7,629.5	7,546.1	16.4	27.8	-136.57	871.7	408.9	780.7	750.1	30.55	25.557	
7,800.0	7,622.3	7,726.6	7,642.0	16.6	28.2	-136.50	885.9	414.9	792.4	761.6	30.87	25.671	
7,900.0	7,720.7	7,823.8	7,738.2	16.8	28.6	-136.46	898.5	420.2	803.2	772.0	31.18	25.761	
8,000.0	7,819.4	7,921.0	7,834.7	17.0	29.0	-136.46	909.6	424.9	813.0	781.6	31.48	25.827	
8,100.0	7,918.3	8,018.4	7,931.5	17.2	29.4	-136.47	919.3	429.0	821.9	790.1	31.77	25.869	
8,200.0	8,017.5	8,115.8	8,028.5	17.3	29.8	-136.52	927.4	432.5	829.7	797.7	32.05	25.888	
8,300.0	8,116.9	8,213.3	8,125.7	17.5	30.2	-136.59	934.0	435.2	836.6	804.2	32.32	25.886	
8,400.0	8,216.4	8,310.8	8,223.0	17.7	30.5	-136.68	939.1	437.4	842.4	809.8	32.57	25.863	
8,500.0	8,316.1	8,408.3	8,320.5	17.9	30.8	-136.80	942.7	438.9	847.3	814.5	32.82	25.820	
8,600.0	8,416.0	8,505.8	8,418.0	18.0	31.1	-136.94	944.7	439.8	851.2	818.1	33.05	25.758	
8,700.0	8,515.9	8,603.7	8,515.9	18.2	31.2	-137.10	945.2	440.0	854.1	820.8	33.25	25.689	
8,800.0	8,615.9	8,703.7	8,615.9	18.3	31.3	-137.22	945.2	440.0	855.8	822.3	33.46	25.577	
8,884.1	8,700.0	8,787.9	8,700.0	18.4	31.3	-76.91	945.2	440.0	856.2	822.7	33.58	25.499	
8,900.0	8,715.9	8,803.7	8,715.9	18.4	31.3	-76.91	945.2	440.0	856.2	822.6	33.59	25.489	
9,000.0	8,815.9	8,903.7	8,815.9	18.4	31.3	-76.91	945.2	440.0	856.2	822.5	33.73	25.385	
9,100.0	8,915.9	9,003.7	8,915.9	18.5	31.4	-76.91	945.2	440.0	856.2	822.4	33.85	25.293	
9,200.0	9,015.9	9,103.7	9,015.9	18.6	31.4	-76.91	945.2	440.0	856.2	822.3	33.98	25.201	
9,300.0	9,115.9	9,203.7	9,115.9	18.6	31.5	-76.91	945.2	440.0	856.2	822.1	34.10	25.109	
9,400.0	9,215.9	9,303.7	9,215.9	18.7	31.5	-76.91	945.2	440.0	856.2	822.0	34.23	25.018	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 **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
9,500.0	9,315.9	9,403.7	9,315.9	18.7	31.6	-76.91	945.2	440.0	856.2	821.9	34.35	24.927	
9,600.0	9,415.9	9,503.7	9,415.9	18.8	31.6	-76.91	945.2	440.0	856.2	821.8	34.48	24.836	
9,700.0	9,515.9	9,603.7	9,515.9	18.8	31.6	-76.91	945.2	440.0	856.2	821.6	34.60	24.746	
9,800.0	9,615.9	9,703.7	9,615.9	18.9	31.7	-76.91	945.2	440.0	856.2	821.5	34.73	24.657	
9,900.0	9,715.9	9,803.7	9,715.9	18.9	31.7	-76.91	945.2	440.0	856.2	821.4	34.85	24.568	
10,000.0	9,815.9	9,903.7	9,815.9	19.0	31.8	-76.91	945.2	440.0	856.2	821.3	34.98	24.479	
10,100.0	9,915.9	10,003.7	9,915.9	19.1	31.8	-76.91	945.2	440.0	856.2	821.1	35.10	24.391	
10,200.0	10,015.9	10,103.7	10,015.9	19.1	31.8	-76.91	945.2	440.0	856.2	821.0	35.23	24.303	
10,300.0	10,115.9	10,203.7	10,115.9	19.2	31.9	-76.91	945.2	440.0	856.2	820.9	35.36	24.216	
10,400.0	10,215.9	10,303.7	10,215.9	19.2	31.9	-76.91	945.2	440.0	856.2	820.7	35.49	24.129	
10,500.0	10,315.9	10,403.7	10,315.9	19.3	32.0	-76.91	945.2	440.0	856.2	820.6	35.61	24.042	
10,600.0	10,415.9	10,503.7	10,415.9	19.3	32.0	-76.91	945.2	440.0	856.2	820.5	35.74	23.956	
10,700.0	10,515.9	10,603.7	10,515.9	19.4	32.1	-76.91	945.2	440.0	856.2	820.4	35.87	23.870	
10,800.0	10,615.9	10,703.7	10,615.9	19.5	32.1	-76.91	945.2	440.0	856.2	820.2	36.00	23.785	
10,900.0	10,715.9	10,803.7	10,715.9	19.5	32.1	-76.91	945.2	440.0	856.2	820.1	36.13	23.700	
11,000.0	10,815.9	10,903.7	10,815.9	19.6	32.2	-76.91	945.2	440.0	856.2	820.0	36.26	23.616	
11,100.0	10,915.9	11,003.7	10,915.9	19.6	32.2	-76.91	945.2	440.0	856.2	819.8	36.39	23.532	
11,200.0	11,015.9	11,103.7	11,015.9	19.7	32.3	-76.91	945.2	440.0	856.2	819.7	36.52	23.449	
11,300.0	11,115.9	11,203.7	11,115.9	19.8	32.3	-76.91	945.2	440.0	856.2	819.6	36.64	23.366	
11,400.0	11,215.9	11,303.7	11,215.9	19.8	32.4	-76.91	945.2	440.0	856.2	819.5	36.77	23.283	
11,494.6	11,310.5	11,398.4	11,310.5	19.9	32.4	-76.91	945.2	440.0	856.2	819.3	36.90	23.207	
11,500.0	11,315.9	11,403.7	11,315.9	19.9	32.4	103.44	945.2	440.0	856.2	819.3	36.90	23.205	
11,525.0	11,340.8	11,428.7	11,340.8	19.9	32.4	103.48	945.2	440.0	856.5	819.5	36.91	23.203	
11,550.0	11,365.7	11,453.6	11,365.7	19.8	32.4	103.56	945.2	440.0	857.0	820.1	36.91	23.221	
11,575.0	11,390.5	11,478.3	11,390.5	19.8	32.4	103.69	945.2	440.0	857.8	820.9	36.89	23.255	
11,600.0	11,415.0	11,502.9	11,415.0	19.8	32.5	103.86	945.2	440.0	859.0	822.1	36.86	23.306	
11,625.0	11,439.2	11,527.1	11,439.2	19.8	32.5	104.07	945.2	440.0	860.5	823.7	36.81	23.375	
11,650.0	11,463.1	11,551.0	11,463.1	19.8	32.5	104.31	945.2	440.0	862.4	825.6	36.76	23.460	
11,675.0	11,486.6	11,574.5	11,486.6	19.7	32.5	104.56	945.2	440.0	864.7	828.0	36.70	23.561	
11,700.0	11,509.6	11,597.4	11,509.6	19.7	32.5	104.83	945.2	440.0	867.4	830.7	36.63	23.678	
11,725.0	11,532.0	11,619.9	11,532.0	19.7	32.5	105.10	945.2	440.0	870.5	834.0	36.56	23.812	
11,750.0	11,553.9	11,641.7	11,553.9	19.7	32.5	105.35	945.2	440.0	874.1	837.7	36.48	23.960	
11,775.0	11,575.0	11,662.9	11,575.0	19.6	32.5	105.59	945.2	440.0	878.3	841.9	36.41	24.124	
11,800.0	11,595.5	11,683.3	11,595.5	19.6	32.5	105.79	945.2	440.0	883.0	846.6	36.33	24.301	
11,825.0	11,615.1	11,703.0	11,615.1	19.6	32.5	105.94	945.2	440.0	888.2	851.9	36.26	24.492	
11,850.0	11,633.9	11,721.8	11,633.9	19.6	32.6	106.03	945.2	440.0	894.1	857.9	36.20	24.696	
11,875.0	11,651.9	11,739.7	11,651.9	19.6	32.6	106.05	945.2	440.0	900.5	864.4	36.15	24.911	
11,900.0	11,668.9	11,756.7	11,668.9	19.6	32.6	105.99	945.2	440.0	907.7	871.6	36.11	25.138	
11,925.0	11,684.9	11,772.8	11,684.9	19.6	32.6	105.82	945.2	440.0	915.5	879.4	36.08	25.374	
11,950.0	11,699.9	11,787.8	11,699.9	19.6	32.6	105.54	945.2	440.0	924.0	887.9	36.06	25.620	
11,975.0	11,713.8	11,801.7	11,713.8	19.6	32.6	105.14	945.2	440.0	933.1	897.1	36.07	25.874	
12,000.0	11,726.6	11,814.5	11,726.6	19.6	32.6	104.60	945.2	440.0	943.0	906.9	36.08	26.135	
12,025.0	11,738.3	11,826.2	11,738.3	19.6	32.6	103.91	945.2	440.0	953.6	917.5	36.12	26.403	
12,050.0	11,748.8	11,836.7	11,748.8	19.6	32.6	103.06	945.2	440.0	964.8	928.7	36.17	26.678	
12,075.0	11,758.1	11,846.0	11,758.1	19.6	32.6	102.04	945.2	440.0	976.8	940.5	36.23	26.958	
12,100.0	11,766.2	11,854.1	11,766.2	19.6	32.6	100.83	945.2	440.0	989.3	953.0	36.31	27.243	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
8,600.0	8,416.0	8,781.5	8,578.6	18.0	35.2	22.20	878.8	2,240.7	995.0	945.9	49.11	20.261	
8,700.0	8,515.9	8,867.7	8,662.9	18.2	35.6	21.50	888.8	2,225.8	975.5	926.1	49.41	19.742	
8,800.0	8,615.9	8,954.6	8,748.2	18.3	36.0	20.80	898.1	2,211.8	959.0	909.3	49.69	19.299	
8,884.1	8,700.0	9,028.3	8,820.7	18.4	36.3	80.56	905.5	2,200.8	947.2	897.3	49.88	18.991	
8,900.0	8,715.9	9,042.2	8,834.4	18.4	36.4	80.46	906.8	2,198.8	945.2	895.3	49.90	18.941	
9,000.0	8,815.9	9,130.3	8,921.3	18.4	36.8	79.85	914.8	2,186.8	933.3	883.2	50.10	18.629	
9,100.0	8,915.9	9,218.9	9,008.9	18.5	37.2	79.29	922.1	2,175.9	922.6	872.3	50.28	18.349	
9,200.0	9,015.9	9,307.8	9,097.0	18.6	37.5	78.76	928.6	2,166.1	913.1	862.7	50.45	18.099	
9,300.0	9,115.9	9,400.0	9,188.6	18.6	37.9	78.28	934.6	2,157.1	904.8	854.2	50.64	17.868	
9,400.0	9,215.9	9,486.7	9,274.8	18.7	38.3	77.88	939.5	2,149.8	897.7	846.9	50.78	17.678	
9,500.0	9,315.9	9,576.6	9,364.4	18.7	38.6	77.52	943.8	2,143.3	891.7	840.7	50.94	17.506	
9,600.0	9,415.9	9,666.6	9,454.2	18.8	38.9	77.22	947.3	2,138.0	886.8	835.7	51.09	17.357	
9,700.0	9,515.9	9,756.9	9,544.4	18.8	39.2	76.99	950.1	2,133.9	883.0	831.8	51.24	17.232	
9,800.0	9,615.9	9,847.3	9,634.7	18.9	39.5	76.82	952.0	2,131.0	880.3	828.9	51.39	17.131	
9,900.0	9,715.9	9,937.8	9,725.1	18.9	39.8	76.72	953.2	2,129.2	878.7	827.2	51.52	17.055	
10,000.0	9,815.9	10,028.5	9,815.9	19.0	40.0	76.69	953.6	2,128.6	878.2	826.6	51.62	17.013	
10,100.0	9,915.9	10,128.5	9,915.9	19.1	40.0	76.69	953.6	2,128.6	878.2	826.5	51.70	16.988	
10,200.0	10,015.9	10,228.5	10,015.9	19.1	40.0	76.69	953.6	2,128.6	878.2	826.4	51.78	16.962	
10,300.0	10,115.9	10,328.5	10,115.9	19.2	40.0	76.69	953.6	2,128.6	878.2	826.3	51.86	16.935	
10,400.0	10,215.9	10,428.5	10,215.9	19.2	40.1	76.69	953.6	2,128.6	878.2	826.3	51.94	16.908	
10,500.0	10,315.9	10,528.5	10,315.9	19.3	40.1	76.69	953.6	2,128.6	878.2	826.2	52.02	16.882	
10,600.0	10,415.9	10,628.5	10,415.9	19.3	40.1	76.69	953.6	2,128.6	878.2	826.1	52.10	16.855	
10,700.0	10,515.9	10,728.5	10,515.9	19.4	40.2	76.69	953.6	2,128.6	878.2	826.0	52.19	16.828	
10,800.0	10,615.9	10,828.5	10,615.9	19.5	40.2	76.69	953.6	2,128.6	878.2	825.9	52.27	16.802	
10,900.0	10,715.9	10,928.5	10,715.9	19.5	40.2	76.69	953.6	2,128.6	878.2	825.9	52.35	16.775	
11,000.0	10,815.9	11,028.5	10,815.9	19.6	40.3	76.69	953.6	2,128.6	878.2	825.8	52.44	16.748	
11,100.0	10,915.9	11,128.5	10,915.9	19.6	40.3	76.69	953.6	2,128.6	878.2	825.7	52.52	16.721	
11,200.0	11,015.9	11,228.5	11,015.9	19.7	40.3	76.69	953.6	2,128.6	878.2	825.6	52.61	16.694	
11,300.0	11,115.9	11,328.5	11,115.9	19.8	40.3	76.69	953.6	2,128.6	878.2	825.5	52.69	16.667	
11,400.0	11,215.9	11,428.5	11,215.9	19.8	40.4	76.69	953.6	2,128.6	878.2	825.4	52.78	16.640	
11,494.6	11,310.5	11,523.1	11,310.5	19.9	40.4	76.69	953.6	2,128.6	878.2	825.4	52.86	16.615 CC, ES	
11,500.0	11,315.9	11,528.5	11,315.9	19.9	40.4	-102.95	953.6	2,128.6	878.2	825.4	52.86	16.615 SF	
11,525.0	11,340.8	11,553.5	11,340.8	19.9	40.4	-102.99	953.6	2,128.6	878.4	825.6	52.85	16.622	
11,550.0	11,365.7	11,578.4	11,365.7	19.8	40.4	-103.07	953.6	2,128.6	878.9	826.1	52.80	16.646	
11,575.0	11,390.5	11,603.1	11,390.5	19.8	40.4	-103.20	953.6	2,128.6	879.7	827.0	52.73	16.684	
11,600.0	11,415.0	11,627.6	11,415.0	19.8	40.4	-103.36	953.6	2,128.6	880.9	828.2	52.63	16.737	
11,625.0	11,439.2	11,651.9	11,439.2	19.8	40.4	-103.57	953.6	2,128.6	882.3	829.8	52.50	16.805	
11,650.0	11,463.1	11,675.8	11,463.1	19.8	40.4	-103.80	953.6	2,128.6	884.2	831.8	52.35	16.890	
11,675.0	11,486.6	11,699.2	11,486.6	19.7	40.5	-104.05	953.6	2,128.6	886.4	834.2	52.17	16.990	
11,700.0	11,509.6	11,722.2	11,509.6	19.7	40.5	-104.32	953.6	2,128.6	889.0	837.0	51.96	17.108	
11,725.0	11,532.0	11,744.7	11,532.0	19.7	40.5	-104.58	953.6	2,128.6	892.0	840.3	51.73	17.242	
11,750.0	11,553.9	11,766.5	11,553.9	19.7	40.5	-104.84	953.6	2,128.6	895.5	844.0	51.48	17.395	
11,775.0	11,575.0	11,787.7	11,575.0	19.6	40.5	-105.07	953.6	2,128.6	899.5	848.3	51.21	17.565	
11,800.0	11,595.5	11,808.1	11,595.5	19.6	40.5	-105.27	953.6	2,128.6	904.0	853.1	50.92	17.755	
11,825.0	11,615.1	11,827.8	11,615.1	19.6	40.5	-105.42	953.6	2,128.6	909.1	858.5	50.61	17.963	
11,850.0	11,633.9	11,846.6	11,633.9	19.6	40.5	-105.52	953.6	2,128.6	914.8	864.5	50.29	18.190	
11,875.0	11,651.9	11,864.5	11,651.9	19.6	40.5	-105.54	953.6	2,128.6	921.1	871.1	49.96	18.436	
11,900.0	11,668.9	11,881.5	11,668.9	19.6	40.5	-105.48	953.6	2,128.6	928.0	878.4	49.62	18.702	
11,925.0	11,684.9	11,897.6	11,684.9	19.6	40.5	-105.33	953.6	2,128.6	935.6	886.3	49.28	18.986	
11,950.0	11,699.9	11,912.5	11,699.9	19.6	40.5	-105.06	953.6	2,128.6	943.9	894.9	48.93	19.289	
11,975.0	11,713.8	11,926.5	11,713.8	19.6	40.5	-104.67	953.6	2,128.6	952.8	904.2	48.59	19.610	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

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
12,000.0	11,726.6	11,939.3	11,726.6	19.6	40.5	-104.15	953.6	2,128.6	962.4	914.2	48.25	19.948	
12,025.0	11,738.3	11,951.0	11,738.3	19.6	40.5	-103.49	953.6	2,128.6	972.7	924.8	47.91	20.301	
12,050.0	11,748.8	11,961.5	11,748.8	19.6	40.5	-102.66	953.6	2,128.6	983.7	936.1	47.59	20.670	
12,075.0	11,758.1	11,970.8	11,758.1	19.6	40.5	-101.67	953.6	2,128.6	995.4	948.1	47.28	21.053	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-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
8,200.0	8,017.5	13,367.0	8,953.8	17.3	80.9	44.67	723.2	1,577.0	995.6	926.9	68.75	14.481	
8,300.0	8,116.9	13,367.0	8,953.8	17.5	80.9	42.20	723.2	1,577.0	899.3	829.3	70.03	12.842	
8,400.0	8,216.4	13,367.0	8,953.8	17.7	80.9	40.19	723.2	1,577.0	804.3	732.6	71.76	11.208	
8,500.0	8,316.1	13,367.0	8,953.8	17.9	80.9	38.56	723.2	1,577.0	711.2	637.0	74.16	9.590	
8,600.0	8,416.0	13,367.0	8,953.8	18.0	80.9	37.26	723.2	1,577.0	620.8	543.3	77.52	8.009	
8,700.0	8,515.9	13,367.0	8,953.8	18.2	80.9	36.24	723.2	1,577.0	534.7	452.4	82.28	6.498	
8,800.0	8,615.9	13,358.6	8,953.7	18.3	80.8	33.86	731.6	1,577.6	455.0	365.9	89.05	5.109	
8,884.1	8,700.0	13,358.5	8,953.7	18.4	80.8	93.73	731.6	1,577.6	396.1	299.7	96.41	4.109	
8,900.0	8,715.9	13,358.6	8,953.7	18.4	80.8	93.74	731.6	1,577.6	386.2	288.2	97.95	3.943	
9,000.0	8,815.9	13,358.9	8,953.7	18.4	80.8	93.80	731.2	1,577.5	334.0	226.1	107.87	3.096	
9,100.0	8,915.9	13,359.3	8,953.7	18.5	80.8	93.87	730.9	1,577.5	306.6	191.7	114.87	2.669	Normal Operations
9,137.9	8,953.7	13,359.4	8,953.7	18.5	80.8	93.90	730.7	1,577.5	304.2	188.6	115.66	2.630	Normal Operations, CC, ES, SF
9,200.0	9,015.9	13,359.7	8,953.7	18.6	80.8	93.96	730.4	1,577.5	310.5	196.3	114.24	2.718	Normal Operations
9,300.0	9,115.9	13,360.3	8,953.7	18.6	80.8	94.07	729.8	1,577.5	344.7	238.0	106.72	3.230	
9,400.0	9,215.9	13,361.1	8,953.7	18.7	80.8	94.21	729.1	1,577.4	401.6	304.3	97.31	4.127	
9,500.0	9,315.9	13,362.1	8,953.8	18.7	80.8	94.41	728.0	1,577.3	472.9	383.7	89.21	5.302	
9,600.0	9,415.9	13,363.6	8,953.8	18.8	80.9	94.69	726.5	1,577.2	553.3	470.1	83.11	6.657	
9,700.0	9,515.9	13,366.0	8,953.8	18.8	80.9	95.13	724.2	1,577.1	639.1	560.4	78.73	8.119	
9,800.0	9,615.9	13,370.2	8,953.8	18.9	81.0	95.92	720.0	1,576.8	728.6	653.0	75.63	9.634	
9,900.0	9,715.9	13,348.3	8,954.1	18.9	80.6	91.81	741.8	1,578.3	820.4	747.4	72.92	11.250	
10,000.0	9,815.9	13,367.0	8,953.8	19.0	80.9	95.32	723.2	1,577.0	914.2	842.6	71.60	12.768	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W0CN FEDERAL COM 001H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 104-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
11,100.0	10,915.9	16,524.0	11,807.8	19.6	81.9	-91.73	743.4	1,010.3	930.2	852.9	77.26	12.039	
11,200.0	11,015.9	16,524.0	11,807.8	19.7	81.9	-91.73	743.4	1,010.3	834.8	756.5	78.30	10.661	
11,300.0	11,115.9	16,524.0	11,807.8	19.8	81.9	-91.73	743.4	1,010.3	740.6	660.9	79.69	9.293	
11,400.0	11,215.9	16,524.0	11,807.8	19.8	81.9	-91.73	743.4	1,010.3	648.1	566.5	81.61	7.942	
11,494.6	11,310.5	16,524.0	11,807.8	19.9	81.9	-91.73	743.4	1,010.3	563.0	478.8	84.18	6.688	
11,500.0	11,315.9	16,524.0	11,807.8	19.9	81.9	89.83	743.4	1,010.3	558.2	473.9	84.36	6.618	
11,525.0	11,340.8	16,524.0	11,807.8	19.9	81.9	95.27	743.4	1,010.3	536.4	451.1	85.21	6.295	
11,550.0	11,365.7	16,524.0	11,807.8	19.8	81.9	100.32	743.4	1,010.3	514.8	428.7	86.12	5.978	
11,575.0	11,390.5	16,524.0	11,807.8	19.8	81.9	104.93	743.4	1,010.3	493.7	406.6	87.10	5.668	
11,600.0	11,415.0	16,529.2	11,808.0	19.8	82.0	108.08	738.2	1,010.6	473.2	384.9	88.30	5.359	
11,625.0	11,439.2	16,537.9	11,808.3	19.8	82.1	110.26	729.6	1,011.1	453.2	363.5	89.67	5.054	
11,650.0	11,463.1	16,547.8	11,808.6	19.8	82.3	111.92	719.7	1,011.7	433.9	342.7	91.16	4.760	
11,675.0	11,486.6	16,558.9	11,808.8	19.7	82.5	113.12	708.6	1,012.3	415.3	322.6	92.77	4.477	
11,700.0	11,509.6	16,571.1	11,809.0	19.7	82.7	113.92	696.4	1,013.1	397.5	303.0	94.50	4.207	
11,725.0	11,532.0	16,584.4	11,809.2	19.7	82.9	114.34	683.2	1,013.9	380.6	284.2	96.34	3.950	
11,750.0	11,553.9	16,598.6	11,809.2	19.7	83.1	114.42	669.0	1,014.7	364.6	266.3	98.29	3.709	
11,775.0	11,575.0	16,613.8	11,809.1	19.6	83.4	114.20	653.8	1,015.6	349.5	249.1	100.34	3.483	
11,800.0	11,595.5	16,628.7	11,808.9	19.6	83.6	113.86	639.0	1,016.5	335.4	233.0	102.44	3.274	
11,825.0	11,615.1	16,644.0	11,808.7	19.6	83.9	113.31	623.6	1,017.4	322.5	217.9	104.59	3.083	
11,850.0	11,633.9	16,660.3	11,808.5	19.6	84.1	112.51	607.4	1,018.3	310.7	204.0	106.77	2.910	Normal Operations
11,875.0	11,651.9	16,677.5	11,808.2	19.6	84.4	111.47	590.2	1,019.3	300.1	191.2	108.93	2.755	Normal Operations
11,900.0	11,668.9	16,695.6	11,807.8	19.6	84.7	110.23	572.1	1,020.3	290.6	179.5	111.06	2.617	Normal Operations
11,925.0	11,684.9	16,713.0	11,807.4	19.6	85.0	109.01	554.8	1,021.3	282.3	169.2	113.09	2.496	Caution - Monitor Closely
11,950.0	11,699.9	16,731.7	11,807.4	19.6	85.3	107.65	536.1	1,022.4	275.1	160.1	114.97	2.393	Caution - Monitor Closely
11,975.0	11,713.8	16,752.7	11,807.9	19.6	85.6	106.10	515.2	1,023.8	269.0	152.3	116.69	2.305	Caution - Monitor Closely
12,000.0	11,726.6	16,774.4	11,808.3	19.6	86.0	104.52	493.5	1,025.2	263.7	145.4	118.26	2.230	Caution - Monitor Closely
12,025.0	11,738.3	16,790.0	11,808.7	19.6	86.2	103.56	477.9	1,026.2	259.3	139.7	119.63	2.168	Caution - Monitor Closely
12,050.0	11,748.8	16,790.0	11,808.7	19.6	86.2	103.82	477.9	1,026.2	257.1	136.9	120.21	2.139	Caution - Monitor Closely
12,057.8	11,751.9	16,790.0	11,808.7	19.6	86.2	103.84	477.9	1,026.2	256.9	136.8	120.19	2.138	Caution - Monitor Closely, CC, ES, SF
12,075.0	11,758.1	16,790.0	11,808.7	19.6	86.2	103.76	477.9	1,026.2	257.6	137.8	119.80	2.150	Caution - Monitor Closely
12,100.0	11,766.2	16,790.0	11,808.7	19.6	86.2	103.38	477.9	1,026.2	260.8	142.4	118.41	2.203	Caution - Monitor Closely
12,125.0	11,773.1	16,790.0	11,808.7	19.6	86.2	102.68	477.9	1,026.2	266.7	150.5	116.13	2.296	Caution - Monitor Closely
12,150.0	11,778.6	16,790.0	11,808.7	19.7	86.2	101.65	477.9	1,026.2	274.9	161.8	113.13	2.430	Caution - Monitor Closely
12,175.0	11,782.9	16,790.0	11,808.7	19.7	86.2	100.29	477.9	1,026.2	285.4	175.8	109.61	2.604	Normal Operations
12,200.0	11,785.9	16,790.0	11,808.7	19.7	86.2	98.60	477.9	1,026.2	297.8	192.0	105.78	2.815	Normal Operations
12,225.0	11,787.6	16,790.0	11,808.7	19.7	86.2	96.57	477.9	1,026.2	311.9	210.1	101.79	3.064	
12,244.6	11,788.0	16,790.0	11,808.7	19.8	86.2	94.74	477.9	1,026.2	323.9	225.3	98.65	3.284	
12,300.0	11,788.0	16,790.0	11,808.7	19.8	86.2	94.74	477.9	1,026.2	361.6	271.3	90.27	4.006	
12,400.0	11,788.0	16,790.0	11,808.7	20.0	86.2	94.74	477.9	1,026.2	439.3	361.4	77.90	5.639	
12,500.0	11,788.0	16,790.0	11,808.7	20.2	86.2	94.74	477.9	1,026.2	524.5	455.5	68.98	7.604	
12,600.0	11,788.0	16,790.0	11,808.7	20.4	86.2	94.74	477.9	1,026.2	614.3	551.6	62.63	9.807	
12,700.0	11,788.0	16,790.0	11,808.7	20.6	86.2	94.74	477.9	1,026.2	706.7	648.7	58.07	12.171	
12,800.0	11,788.0	16,790.0	11,808.7	20.8	86.2	94.74	477.9	1,026.2	801.0	746.3	54.72	14.638	
12,900.0	11,788.0	16,790.0	11,808.7	21.1	86.2	94.74	477.9	1,026.2	896.6	844.4	52.22	17.169	
13,000.0	11,788.0	16,790.0	11,808.7	21.4	86.2	94.74	477.9	1,026.2	993.0	942.7	50.31	19.736	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W1CN FEDERAL COM 002H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-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
11,300.0	11,115.9	16,618.0	12,059.0	19.8	84.4	77.51	823.0	1,597.2	999.5	926.9	72.65	13.758	
11,400.0	11,215.9	16,618.0	12,059.0	19.8	84.4	77.51	823.0	1,597.2	905.8	832.1	73.62	12.303	
11,494.6	11,310.5	16,618.0	12,059.0	19.9	84.4	77.51	823.0	1,597.2	818.4	743.5	74.88	10.930	
11,500.0	11,315.9	16,618.0	12,059.0	19.9	84.4	-103.54	823.0	1,597.2	813.5	738.5	74.96	10.852	
11,525.0	11,340.8	16,618.0	12,059.0	19.9	84.4	-109.72	823.0	1,597.2	790.8	715.5	75.37	10.493	
11,550.0	11,365.7	16,618.0	12,059.0	19.8	84.4	-115.23	823.0	1,597.2	768.5	692.7	75.80	10.138	
11,575.0	11,390.5	16,622.5	12,059.4	19.8	84.5	-119.45	818.5	1,597.3	746.6	670.3	76.35	9.779	
11,600.0	11,415.0	16,630.9	12,060.2	19.8	84.6	-122.68	810.1	1,597.6	725.2	648.2	76.99	9.419	
11,625.0	11,439.2	16,640.7	12,061.0	19.8	84.8	-125.34	800.4	1,598.0	704.3	626.6	77.70	9.064	
11,650.0	11,463.1	16,651.7	12,062.0	19.8	84.9	-127.53	789.4	1,598.3	683.9	605.4	78.46	8.716	
11,675.0	11,486.6	16,664.1	12,063.1	19.7	85.1	-129.30	777.1	1,598.7	664.2	584.9	79.29	8.377	
11,700.0	11,509.6	16,677.6	12,064.2	19.7	85.3	-130.73	763.7	1,599.2	645.2	565.0	80.18	8.047	
11,725.0	11,532.0	16,692.3	12,065.4	19.7	85.6	-131.86	749.0	1,599.7	626.9	545.8	81.13	7.727	
11,750.0	11,553.9	16,708.1	12,066.6	19.7	85.8	-132.74	733.3	1,600.2	609.4	527.2	82.14	7.419	
11,775.0	11,575.0	16,725.9	12,067.8	19.6	86.1	-133.34	715.6	1,600.7	592.6	509.4	83.22	7.121	
11,800.0	11,595.5	16,744.9	12,069.0	19.6	86.4	-133.72	696.6	1,601.4	576.7	492.4	84.37	6.836	
11,825.0	11,615.1	16,764.7	12,070.1	19.6	86.7	-133.95	676.8	1,602.1	561.7	476.1	85.57	6.564	
11,850.0	11,633.9	16,785.3	12,071.1	19.6	87.0	-134.05	656.2	1,602.8	547.4	460.6	86.81	6.306	
11,875.0	11,651.9	16,806.6	12,071.9	19.6	87.3	-134.02	635.0	1,603.7	534.1	446.0	88.11	6.062	
11,900.0	11,668.9	16,825.3	12,072.5	19.6	87.6	-134.10	616.3	1,604.4	521.7	432.3	89.38	5.836	
11,925.0	11,684.9	16,844.8	12,073.2	19.6	87.9	-134.07	596.8	1,605.2	510.3	419.6	90.68	5.628	
11,950.0	11,699.9	16,865.0	12,073.8	19.6	88.2	-133.95	576.6	1,606.1	500.0	408.0	91.99	5.435	
11,975.0	11,713.8	16,886.0	12,074.5	19.6	88.6	-133.76	555.7	1,607.0	490.6	397.4	93.29	5.260	
12,000.0	11,726.6	16,907.6	12,075.3	19.6	88.9	-133.50	534.1	1,607.9	482.4	387.8	94.57	5.101	
12,025.0	11,738.3	16,930.1	12,076.0	19.6	89.3	-133.20	511.7	1,608.9	475.1	379.3	95.82	4.958	
12,050.0	11,748.8	16,953.1	12,076.8	19.6	89.6	-132.88	488.7	1,609.9	468.8	371.8	97.03	4.832	
12,075.0	11,758.1	16,960.0	12,077.0	19.6	89.7	-133.08	481.8	1,610.2	463.8	365.9	97.88	4.738	
12,100.0	11,766.2	16,960.0	12,077.0	19.6	89.7	-133.33	481.8	1,610.2	460.9	362.6	98.35	4.687	
12,119.4	11,771.6	16,960.0	12,077.0	19.6	89.7	-133.39	481.8	1,610.2	460.3	361.8	98.49	4.673	CC, ES, SF
12,125.0	11,773.1	16,960.0	12,077.0	19.6	89.7	-133.38	481.8	1,610.2	460.3	361.8	98.49	4.674	
12,150.0	11,778.6	16,960.0	12,077.0	19.7	89.7	-133.24	481.8	1,610.2	461.9	363.7	98.28	4.700	
12,175.0	11,782.9	16,960.0	12,077.0	19.7	89.7	-132.90	481.8	1,610.2	465.8	368.1	97.74	4.765	
12,200.0	11,785.9	16,960.0	12,077.0	19.7	89.7	-132.35	481.8	1,610.2	471.8	374.9	96.89	4.870	
12,225.0	11,787.6	16,960.0	12,077.0	19.7	89.7	-131.59	481.8	1,610.2	479.9	384.1	95.75	5.012	
12,244.6	11,788.0	16,960.0	12,077.0	19.8	89.7	-130.83	481.8	1,610.2	487.6	392.9	94.69	5.149	
12,300.0	11,788.0	16,960.0	12,077.0	19.8	89.7	-130.83	481.8	1,610.2	513.4	422.1	91.31	5.623	
12,400.0	11,788.0	16,960.0	12,077.0	20.0	89.7	-130.83	481.8	1,610.2	570.8	486.0	84.77	6.734	
12,500.0	11,788.0	16,960.0	12,077.0	20.2	89.7	-130.83	481.8	1,610.2	638.8	560.3	78.52	8.135	
12,600.0	11,788.0	16,960.0	12,077.0	20.4	89.7	-130.83	481.8	1,610.2	714.3	641.3	73.02	9.782	
12,700.0	11,788.0	16,960.0	12,077.0	20.6	89.7	-130.83	481.8	1,610.2	795.3	726.9	68.38	11.631	
12,800.0	11,788.0	16,960.0	12,077.0	20.8	89.7	-130.83	481.8	1,610.2	880.2	815.7	64.52	13.642	
12,900.0	11,788.0	16,960.0	12,077.0	21.1	89.7	-130.83	481.8	1,610.2	968.0	906.6	61.32	15.784	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD

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
0.0	0.0	6.6	0.4	3.0	0.0	80.34	147.5	866.6	879.0				
100.0	100.0	112.4	106.2	3.1	0.1	80.28	148.4	866.0	878.7	873.6	5.07	173.358	
200.0	200.0	217.6	211.4	3.2	0.4	80.15	150.1	864.6	877.6	872.4	5.27	166.506	
300.0	300.0	318.9	312.6	3.3	0.7	80.04	151.6	862.9	876.2	870.7	5.49	159.491	
400.0	400.0	411.0	404.7	3.4	0.9	79.89	153.5	861.6	875.2	869.4	5.72	152.879	
442.8	442.8	449.1	442.8	3.5	1.0	79.82	154.7	861.3	875.0	869.2	5.82	150.306	
500.0	500.0	500.0	493.7	3.6	1.1	79.70	156.5	861.1	875.3	869.3	5.96	146.873	
600.0	600.0	596.8	590.3	3.7	1.4	79.43	160.7	861.2	876.2	870.0	6.21	141.119	
700.0	700.0	687.4	680.8	3.8	1.6	79.10	165.9	861.8	877.8	871.3	6.46	135.897	
800.0	800.0	780.6	773.8	3.9	1.8	78.70	172.4	862.9	880.4	873.7	6.72	131.011	
900.0	900.0	868.0	860.8	4.0	2.1	78.27	179.6	864.7	884.0	877.2	6.83	129.509	
1,000.0	1,000.0	962.7	955.1	4.2	2.4	77.75	188.3	867.6	888.9	881.8	7.14	124.502	
1,100.0	1,100.0	1,063.1	1,055.0	4.3	2.8	77.22	197.6	870.7	894.0	886.5	7.48	119.482	
1,200.0	1,200.0	1,162.0	1,153.5	4.4	3.1	76.74	205.9	873.9	899.1	891.2	7.82	114.912	
1,300.0	1,300.0	1,254.9	1,246.1	4.5	3.5	76.34	213.3	877.4	904.6	896.4	8.15	110.936	
1,400.0	1,400.0	1,351.4	1,342.2	4.6	3.8	75.94	220.8	881.7	910.8	902.3	8.50	107.089	
1,500.0	1,500.0	1,467.0	1,457.4	4.8	4.3	75.57	228.2	886.5	916.4	907.5	8.96	102.237	
1,600.0	1,600.0	1,571.9	1,562.2	4.9	4.7	75.37	232.4	890.2	920.8	911.5	9.34	98.611	
1,700.0	1,700.0	1,677.1	1,667.3	5.0	5.0	75.21	236.0	893.5	924.7	915.0	9.72	95.141	
1,800.0	1,800.0	1,786.0	1,776.1	5.1	5.4	75.05	239.3	896.0	927.7	917.6	10.10	91.869	
1,900.0	1,900.0	1,895.2	1,885.3	5.2	5.7	74.91	242.1	897.7	929.9	919.4	10.46	88.875	
2,000.0	2,000.0	2,002.6	1,992.6	5.3	5.8	74.96	241.5	899.1	931.0	920.2	10.77	86.409	
2,100.0	2,100.0	2,107.6	2,097.6	5.5	5.9	60.14	240.0	900.0	930.8	919.8	11.02	84.448	
2,200.0	2,199.9	2,210.9	2,200.9	5.6	6.0	60.41	239.7	900.2	929.0	917.7	11.29	82.281	
2,266.7	2,266.5	2,281.0	2,271.0	5.7	6.1	60.65	239.8	899.9	926.8	915.4	11.38	81.414	
2,300.0	2,299.7	2,315.8	2,305.9	5.7	6.1	53.40	239.8	899.7	925.2	913.8	11.41	81.070	
2,400.0	2,399.3	2,414.2	2,404.2	5.9	6.1	38.55	239.8	899.1	918.3	906.7	11.60	79.137	
2,500.0	2,498.6	2,515.2	2,505.2	6.1	6.1	30.25	239.5	898.6	908.0	896.2	11.81	76.861	
2,600.0	2,597.5	2,616.8	2,606.8	6.2	6.2	25.28	239.4	897.6	894.0	881.9	12.04	74.251	
2,700.0	2,695.9	2,715.1	2,705.1	6.4	6.3	22.12	239.5	896.5	876.4	864.1	12.28	71.351	
2,800.0	2,793.6	2,810.1	2,800.1	6.6	6.3	20.04	239.8	895.6	855.6	843.1	12.54	68.220	
2,900.0	2,890.5	2,906.7	2,896.7	6.8	6.5	18.67	240.2	894.8	831.7	818.8	12.83	64.812	
2,903.6	2,894.0	2,910.2	2,900.1	6.8	6.5	18.63	240.2	894.7	830.7	817.9	12.84	64.686	
3,000.0	2,987.0	3,000.3	2,990.3	6.9	6.6	19.15	240.7	894.1	806.1	793.0	13.06	61.742	
3,100.0	3,083.5	3,091.7	3,081.7	7.1	6.8	19.71	241.1	893.9	781.2	767.9	13.30	58.717	
3,200.0	3,180.0	3,185.5	3,175.4	7.2	6.9	20.35	241.3	894.3	756.8	743.2	13.58	55.732	
3,300.0	3,276.5	3,279.3	3,269.3	7.4	7.0	21.04	241.4	895.0	732.8	719.0	13.87	52.846	
3,400.0	3,373.0	3,373.4	3,363.4	7.6	7.2	21.77	241.7	896.1	709.4	695.3	14.17	50.082	
3,500.0	3,469.4	3,473.0	3,463.0	7.7	7.4	22.58	242.1	897.3	686.2	671.7	14.47	47.410	
3,600.0	3,565.9	3,575.0	3,565.0	7.9	7.5	23.46	242.6	897.7	662.3	647.6	14.76	44.870	
3,700.0	3,662.4	3,671.6	3,661.6	8.1	7.7	24.36	242.9	897.7	638.2	623.2	15.02	42.477	
3,800.0	3,758.9	3,765.3	3,755.2	8.3	7.8	25.34	243.0	898.1	614.6	599.3	15.30	40.170	
3,900.0	3,855.4	3,860.9	3,850.9	8.4	7.9	26.44	242.7	898.8	591.5	575.9	15.59	37.943	
4,000.0	3,951.9	3,957.7	3,947.7	8.6	8.0	27.66	242.4	899.5	568.6	552.8	15.87	35.824	
4,100.0	4,048.3	4,053.3	4,043.3	8.8	8.1	28.99	241.6	900.3	546.0	529.9	16.15	33.810	
4,200.0	4,144.8	4,146.2	4,136.2	9.0	8.1	30.47	240.3	901.5	524.3	507.9	16.43	31.918	
4,300.0	4,241.3	4,242.1	4,232.0	9.2	8.2	32.15	238.6	903.3	503.5	486.8	16.71	30.134	
4,400.0	4,337.8	4,341.8	4,331.7	9.4	8.2	34.01	237.2	904.7	482.8	465.8	16.99	28.410	
4,500.0	4,434.3	4,439.6	4,429.5	9.6	8.3	35.95	236.2	905.7	462.1	444.8	17.27	26.751	
4,600.0	4,530.8	4,536.0	4,525.9	9.8	8.4	38.01	235.3	906.7	441.8	424.3	17.53	25.199	
4,700.0	4,627.3	4,627.2	4,617.0	10.0	8.5	40.14	234.5	907.9	422.6	404.9	17.71	23.858	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD

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
4,800.0	4,723.7	4,713.0	4,702.8	10.2	8.7	42.25	233.7	911.0	406.3	388.2	18.05	22.505	
4,900.0	4,820.2	4,800.6	4,790.2	10.4	8.9	44.40	233.3	916.9	393.5	375.1	18.41	21.376	
5,000.0	4,916.7	4,896.3	4,885.5	10.6	9.1	46.78	233.2	924.8	382.8	364.1	18.74	20.425	
5,100.0	5,013.2	4,994.9	4,983.8	10.8	9.4	49.35	233.1	933.1	373.0	353.9	19.08	19.549	
5,200.0	5,109.7	5,092.0	5,080.5	11.0	9.6	52.03	232.8	941.1	363.9	344.5	19.41	18.750	
5,300.0	5,206.2	5,189.0	5,177.2	11.2	9.9	54.82	232.5	949.7	356.3	336.5	19.73	18.054	
5,400.0	5,302.7	5,287.6	5,275.5	11.4	10.1	57.79	232.1	958.2	349.3	329.3	20.05	17.421	
5,500.0	5,399.1	5,385.5	5,372.9	11.6	10.4	60.63	232.8	967.3	343.5	323.1	20.37	16.865	
5,600.0	5,495.6	5,484.2	5,471.2	11.8	10.7	63.55	233.7	976.6	338.5	317.8	20.67	16.372	
5,700.0	5,592.1	5,583.8	5,570.3	12.0	11.0	66.58	234.7	985.8	334.2	313.2	20.97	15.935	
5,800.0	5,688.6	5,683.3	5,669.5	12.2	11.4	69.76	235.6	994.3	330.4	309.1	21.25	15.545	
5,900.0	5,785.1	5,781.7	5,767.5	12.4	11.7	72.96	236.7	1,002.6	327.4	305.9	21.53	15.209	
6,000.0	5,881.6	5,879.9	5,865.4	12.7	12.0	76.24	237.6	1,010.7	325.6	303.8	21.80	14.935	
6,100.0	5,978.1	5,978.7	5,963.8	12.9	12.3	79.73	237.9	1,018.0	324.7	302.7	22.07	14.716	
6,126.0	6,003.1	6,004.2	5,989.3	12.9	12.4	80.71	237.8	1,019.6	324.7	302.6	22.14	14.668 CC, ES	
6,200.0	6,074.5	6,076.0	6,061.0	13.1	12.6	83.54	237.0	1,023.6	325.1	302.8	22.33	14.562	
6,300.0	6,171.0	6,173.9	6,158.8	13.3	12.8	87.52	235.5	1,028.4	327.2	304.6	22.60	14.476	
6,400.0	6,267.5	6,272.4	6,257.2	13.5	13.0	91.60	233.9	1,032.2	330.5	307.6	22.88	14.442 SF	
6,500.0	6,364.0	6,369.8	6,354.6	13.7	13.2	95.81	231.8	1,034.5	335.3	312.1	23.18	14.466	
6,600.0	6,460.5	6,466.8	6,451.5	14.0	13.4	99.93	229.7	1,036.4	341.8	318.3	23.50	14.549	
6,700.0	6,557.0	6,564.3	6,549.0	14.2	13.5	103.95	227.7	1,038.0	350.0	326.2	23.83	14.686	
6,800.0	6,653.4	6,660.7	6,645.3	14.4	13.7	107.76	225.7	1,039.4	359.8	335.6	24.18	14.875	
6,900.0	6,749.9	6,757.1	6,741.8	14.6	13.8	111.38	223.8	1,040.7	371.1	346.6	24.55	15.117	
7,000.0	6,846.4	6,856.8	6,841.4	14.8	13.9	114.95	222.1	1,041.6	383.6	358.6	24.94	15.383	
7,100.0	6,942.9	6,952.9	6,937.4	15.1	14.0	118.25	220.8	1,042.0	397.1	371.7	25.31	15.685	
7,200.0	7,039.4	7,048.4	7,033.0	15.3	14.1	121.34	219.4	1,042.2	412.0	386.3	25.69	16.036	
7,300.0	7,135.9	7,146.1	7,130.7	15.5	14.1	124.30	218.1	1,042.3	428.0	401.9	26.07	16.413	
7,360.5	7,194.3	7,204.0	7,188.5	15.6	14.2	125.95	217.3	1,042.3	438.1	411.8	26.28	16.669	
7,400.0	7,232.4	7,241.6	7,226.2	15.7	14.2	127.03	216.8	1,042.4	444.9	418.5	26.42	16.839	
7,500.0	7,329.3	7,337.4	7,322.0	15.9	14.2	129.53	215.4	1,042.3	462.0	435.2	26.77	17.257	
7,600.0	7,426.6	7,433.6	7,418.2	16.1	14.3	131.74	213.8	1,042.0	479.0	451.8	27.10	17.671	
7,700.0	7,524.3	7,530.7	7,515.2	16.4	14.2	133.71	212.2	1,041.3	495.5	468.0	27.42	18.071	
7,800.0	7,622.3	7,629.7	7,614.2	16.6	14.2	135.46	210.7	1,040.5	511.1	483.3	27.72	18.437	
7,900.0	7,720.7	7,726.4	7,710.9	16.8	14.2	136.95	209.2	1,039.7	525.9	497.9	28.00	18.783	
8,000.0	7,819.4	7,824.4	7,808.9	17.0	14.2	138.26	207.6	1,038.7	539.8	511.5	28.26	19.098	
8,100.0	7,918.3	7,922.0	7,906.5	17.2	14.2	139.34	205.7	1,037.9	552.8	524.3	28.52	19.385	
8,200.0	8,017.5	8,020.3	8,004.7	17.3	14.2	140.25	203.7	1,037.2	564.8	536.1	28.76	19.639	
8,300.0	8,116.9	8,119.1	8,103.5	17.5	14.2	141.03	201.6	1,036.3	575.7	546.7	28.99	19.855	
8,400.0	8,216.4	8,217.5	8,201.9	17.7	14.2	141.69	199.5	1,035.1	585.3	556.1	29.21	20.037	
8,500.0	8,316.1	8,317.1	8,301.5	17.9	14.2	142.24	197.4	1,033.7	593.8	564.4	29.43	20.181	
8,600.0	8,416.0	8,417.0	8,401.3	18.0	14.1	142.69	195.4	1,032.2	600.8	571.2	29.63	20.280	
8,700.0	8,515.9	8,514.3	8,498.6	18.2	14.1	143.07	193.6	1,030.0	606.7	576.9	29.81	20.352	
8,800.0	8,615.9	8,609.4	8,593.6	18.3	14.0	143.42	191.7	1,026.9	611.8	581.8	29.97	20.412	
8,884.1	8,700.0	8,685.7	8,669.8	18.4	14.0	-155.99	189.6	1,023.8	615.8	585.7	30.05	20.489	
8,900.0	8,715.9	8,699.4	8,683.5	18.4	14.0	-155.97	189.0	1,023.3	616.6	586.5	30.06	20.514	
9,000.0	8,815.9	8,758.0	8,741.9	18.4	14.0	-155.99	185.1	1,021.8	624.4	594.3	30.08	20.756	
9,100.0	8,915.9	8,807.8	8,790.9	18.5	14.1	-156.33	176.4	1,021.9	640.1	610.0	30.12	21.250	
9,200.0	9,015.9	8,853.0	8,834.7	18.6	14.1	-156.82	165.1	1,022.9	663.0	632.8	30.21	21.949	
9,300.0	9,115.9	8,902.1	8,881.0	18.6	14.2	-157.48	149.0	1,024.2	693.1	662.7	30.37	22.823	
9,400.0	9,215.9	8,948.0	8,923.2	18.7	14.3	-158.09	130.8	1,024.5	730.1	699.5	30.58	23.877	
9,500.0	9,315.9	8,994.8	8,964.9	18.7	14.4	-158.79	109.7	1,025.0	772.6	741.7	30.85	25.045	

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 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD

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
9,600.0	9,415.9	9,032.5	8,997.3	18.8	14.5	-159.42	90.4	1,025.8	820.8	789.7	31.17	26.330	
9,700.0	9,515.9	9,074.0	9,031.5	18.8	14.6	-160.12	67.0	1,026.5	874.2	842.7	31.53	27.725	
9,800.0	9,615.9	9,123.9	9,071.5	18.9	14.7	-160.97	37.2	1,027.6	931.2	899.3	31.90	29.191	
9,900.0	9,715.9	9,169.0	9,106.6	18.9	14.9	-161.74	8.8	1,029.0	991.3	959.0	32.30	30.689	

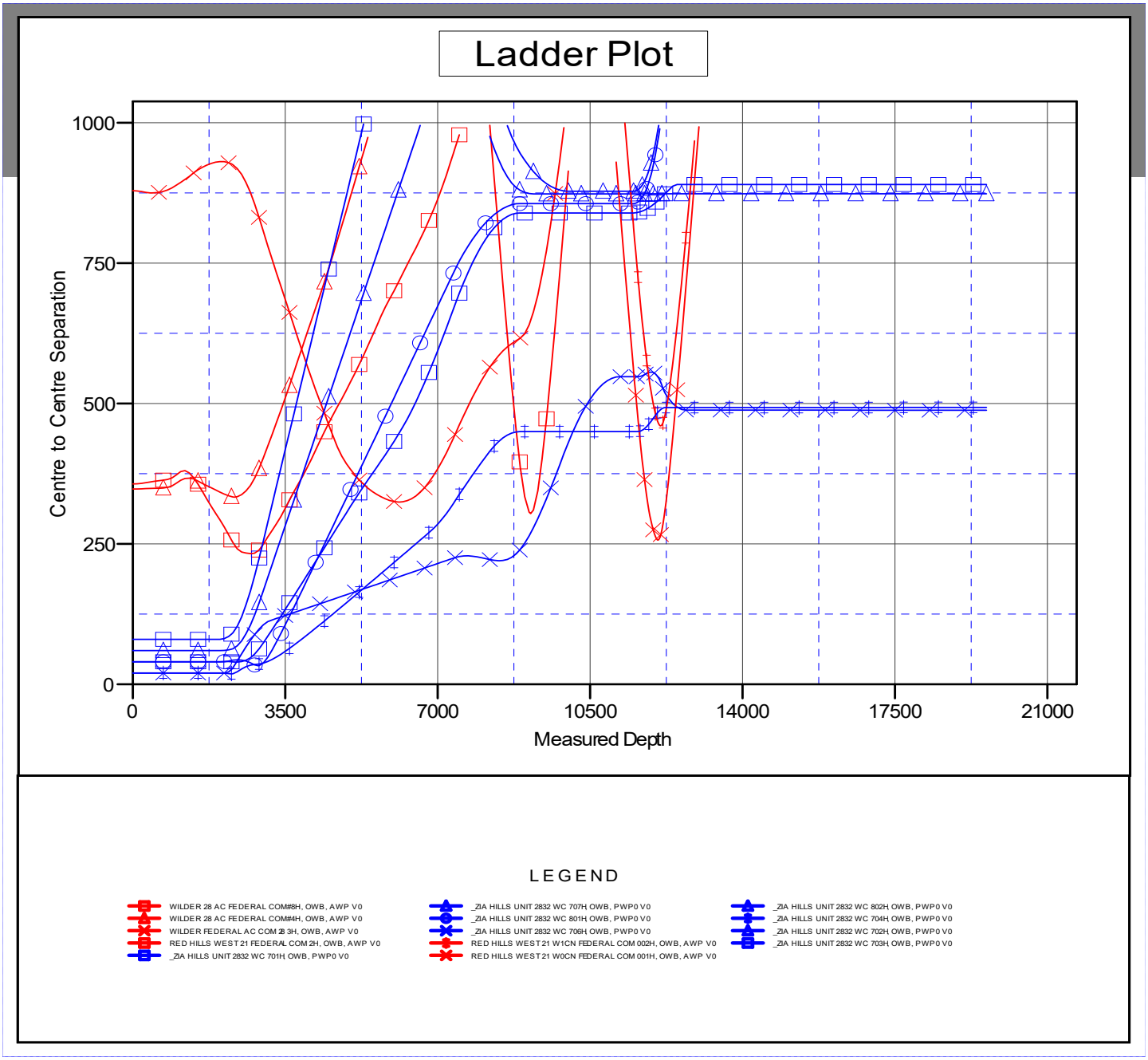
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to KB @ 3186.8usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 705H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.34°



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

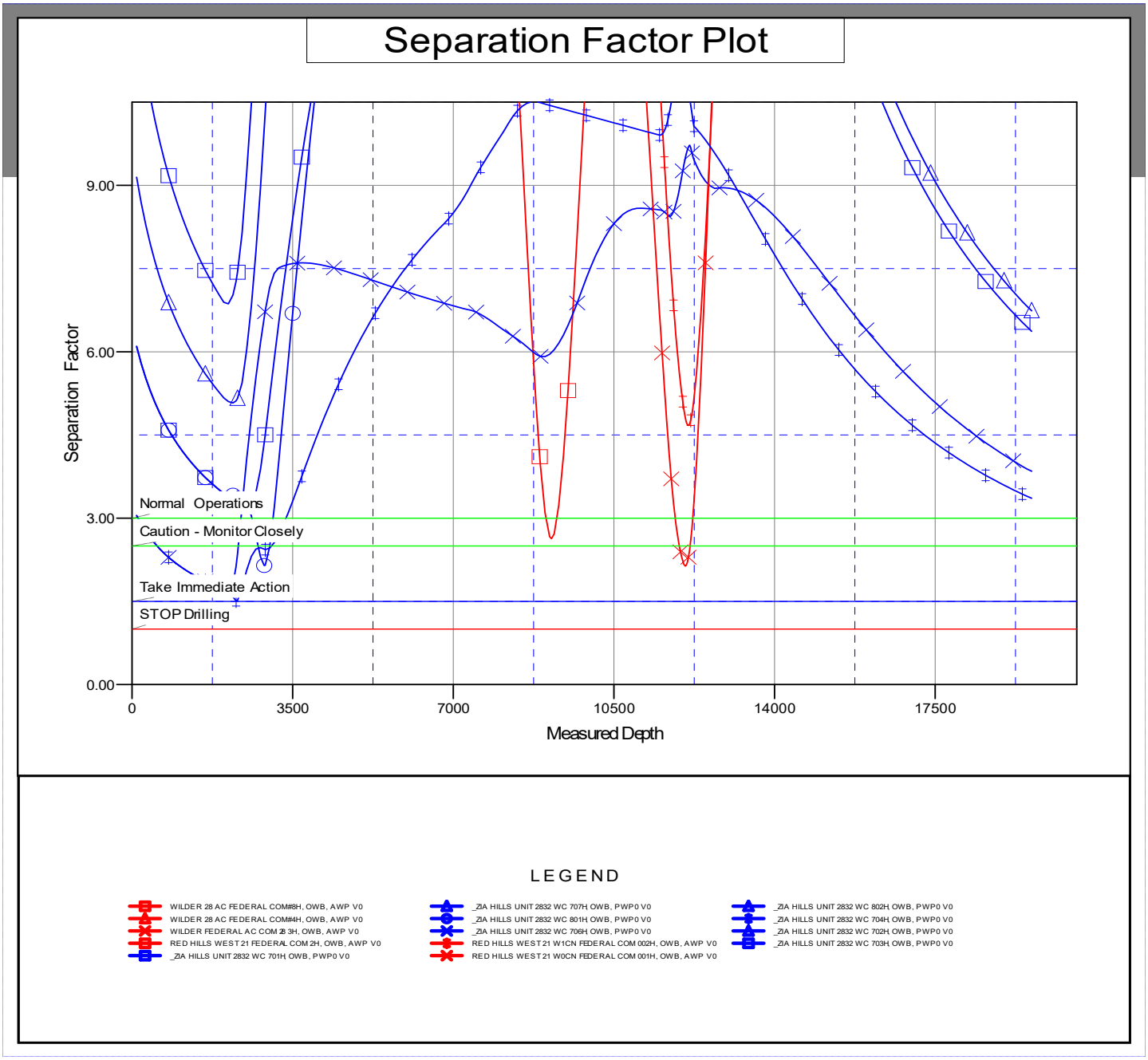
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 705H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3186.8usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3186.8usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to KB @ 3186.8usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 705H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.34°



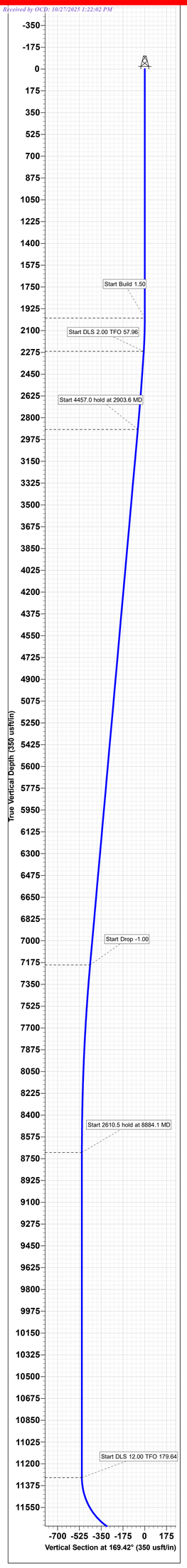
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

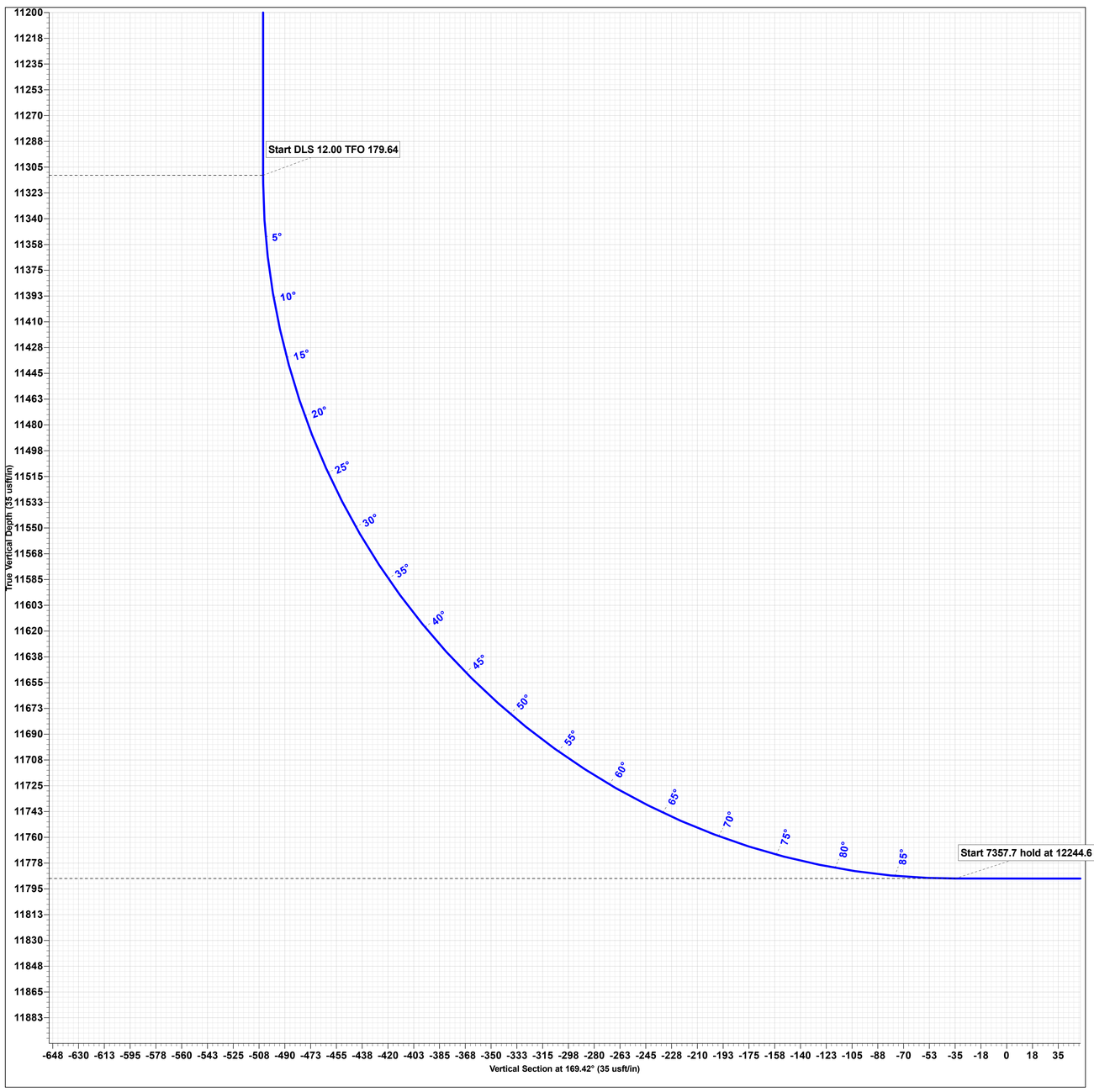
ConocoPhillips

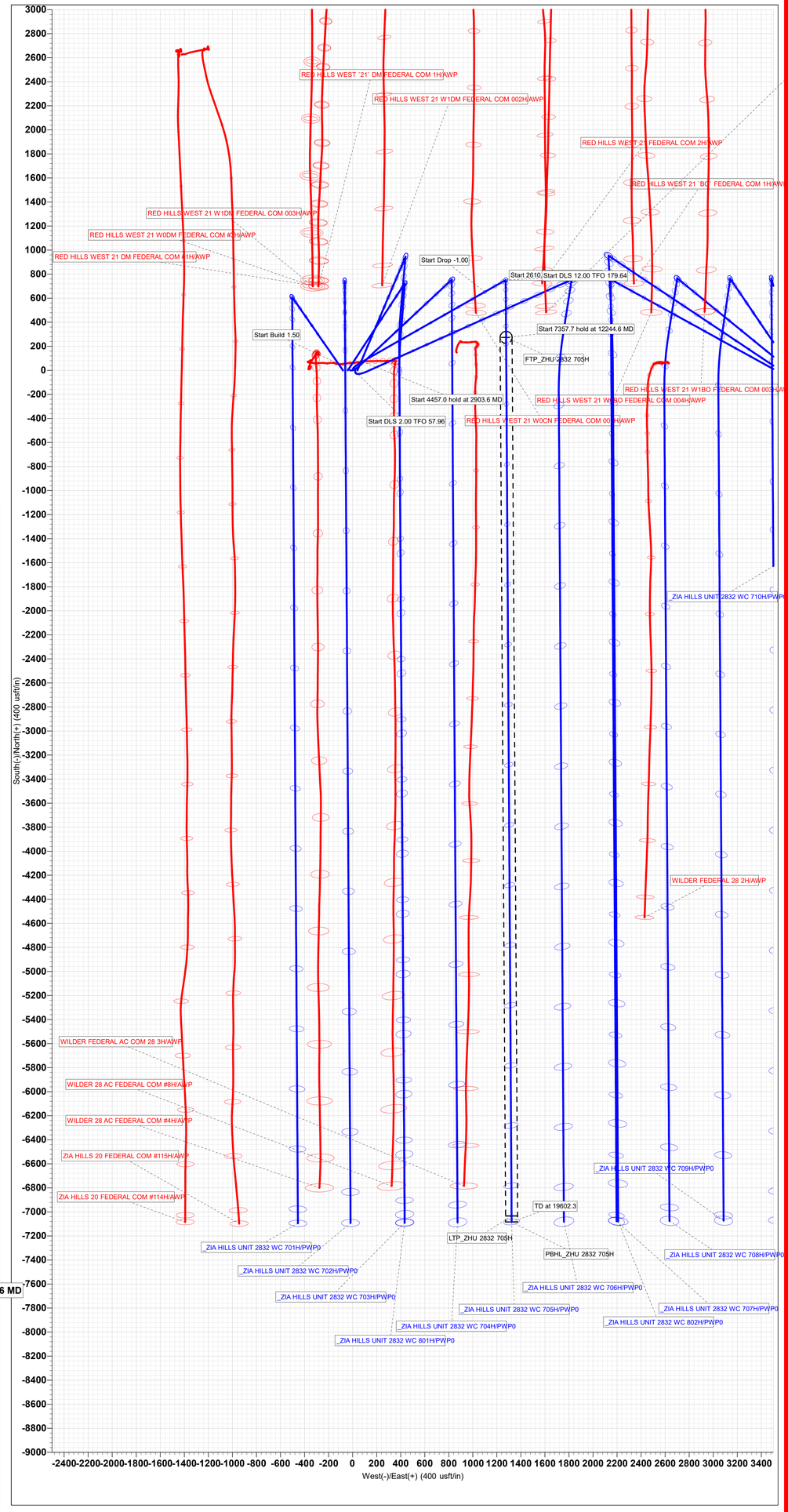
Project:	ZIA HILLS UNIT AREA
Site:	ZIA HILLS UNIT 2832 PROJECT
Well:	_ZIA HILLS UNIT 2832 WC 705H
Wellbore:	OWB
Design:	PWP0

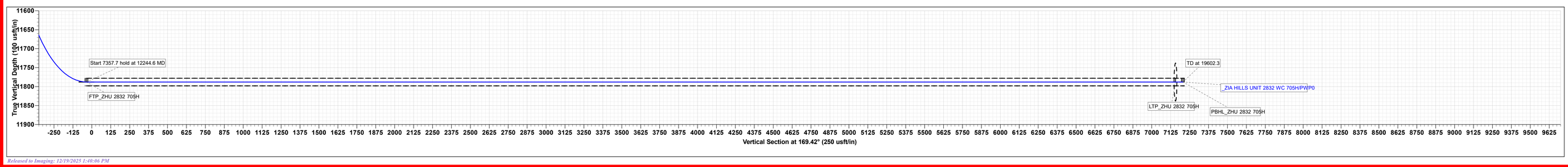
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0
2266.7	4.00	15.00	2266.5	9.0	2.4	1.50	15.00	-8.4
2903.6	15.24	60.34	2894.0	72.1	81.2	2.00	57.96	-56.0
7360.5	15.24	60.34	7194.3	651.7	1099.0	0.00	0.00	-438.9
8884.1	0.00	0.00	8700.0	751.4	1274.0	1.00	180.00	-504.7
11494.6	0.00	0.00	11310.5	751.4	1274.0	0.00	0.00	-504.7
12244.6	90.00	179.64	11788.0	273.9	1277.0	12.00	179.64	-34.8
19602.3	90.00	179.64	11788.0	-7083.6	1323.0	0.00	0.00	7206.1









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.

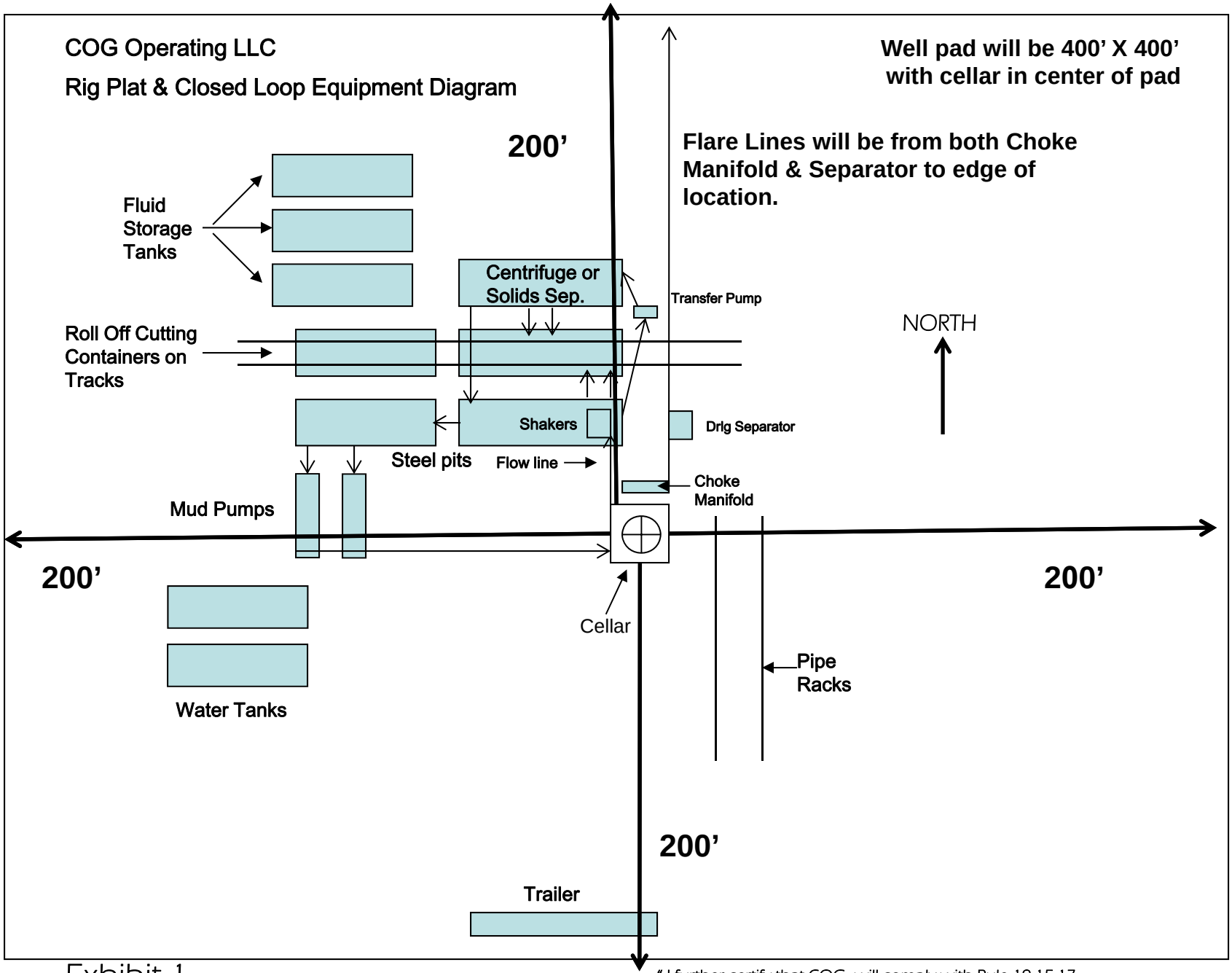


Exhibit 1

" 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: 01/28/2025**

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 2832 WC 701H	30-025-	D-28-26S-32E	366 FNL & 596 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 702H	30-025-	D-28-26S-32E	366 FNL & 616 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 703H	30-025-	D-28-26S-32E	366 FNL & 636 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 704H	30-025-	D-28-26S-32E	366 FNL & 656 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 705H	30-025-	D-28-26S-32E	366 FNL & 676 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 706H	30-025-	D-28-26S-32E	366 FNL & 696 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 801H	30-025-	D-28-26S-32E	366 FNL & 716 FWL	± 742	± 1956	± 1707

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 2832 WC	Pending	± 2/1/2026	± 25 days from spud	TBD	TBD	TBD
701H, 702H, 703H, 704H, 705H, 706H, 801H						

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

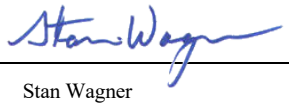
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature:	
Printed Name:	Stan Wagner
Title:	Regulatory Advisor
E-mail Address:	stan.s.wagner@conocophillips.com
Date:	04/30/2025
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

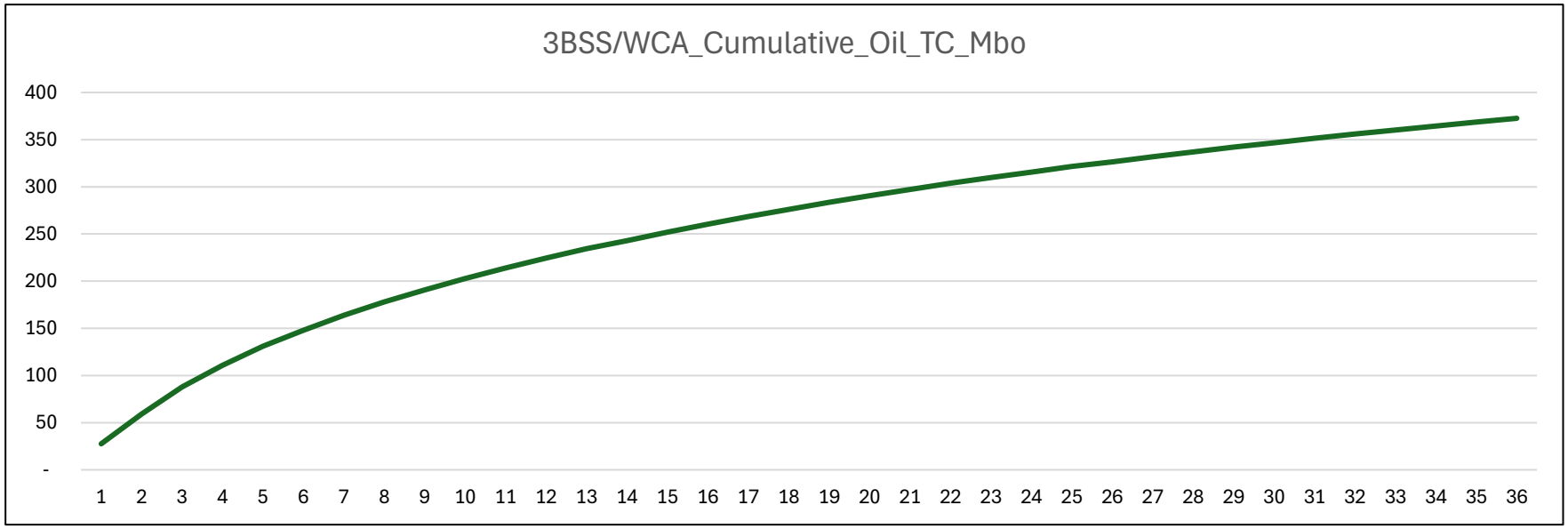
(3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.

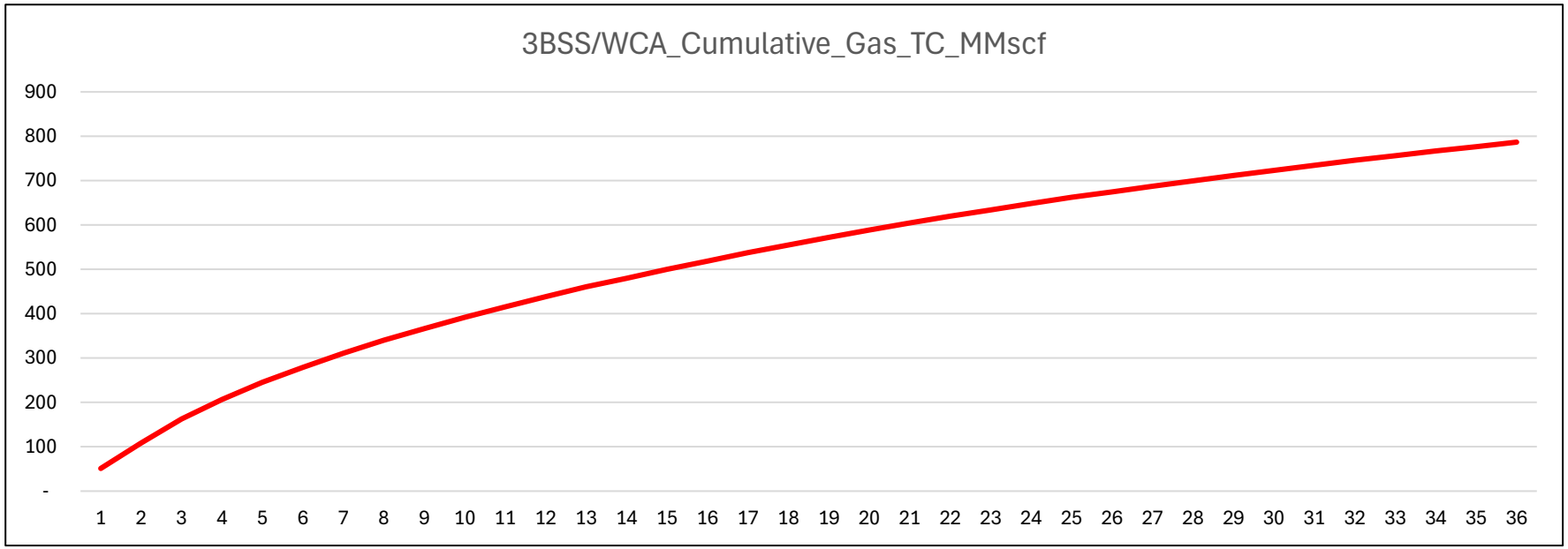
a. See attached NMOCD – Natural Gas Management Plan

(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 2832 WC 705H
LOCATION:	Section 28, 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 **13-3/8** inch surface casing shall be set at approximately **1064 feet Per BLM Geologist** (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: 10/23/2025

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. The **9-5/8** inch intermediate casing shall be set at approximately **4365 feet per BLM Geologist. 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.

3. **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.

4. 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 **13-3/8** 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.

 Approval Date: 10/23/2025

- 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 7/2/2025

 Approval Date: 10/23/2025

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: 520247
	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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State of New Mexico
Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
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CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520247
	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.	10/27/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/27/2025
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.	12/19/2025
jeffrey.harrison	Any string of casing or liner that is not circulated to surface must have a minimum of 200' of cement tie-back into the previous string of casing.	12/19/2025
jeffrey.harrison	Administrative order required for non-standard spacing unit prior to production.	12/19/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/19/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/19/2025
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.	12/19/2025
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.	12/19/2025