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.
30-025-55672

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: NENE / 435 FNL / 1040 FEL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019667 / LONG: -103.674721 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2505 FEL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020587 / LONG: -103.679445 (TVD: 12460 feet, MD: 13156 feet)

BHL: LOT 2 / 50 FSL / 2505 FEL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.000362 / LONG: -103.679478 (TVD: 12460 feet, MD: 20514 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- 55672	98081	Zia Hills; Wolfcamp	
Property Code	Property Name		Well Number
338328	ZIA HILLS UNIT 2832 WC		802H
OGRID No.	Operator Name		Ground Level Elevation
217817	CONOCOPHILLIPS COMPANY		3,142.98'
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
A	28	26S	32E		435' FNL	1,040' FEL	32.019667°	-103.674721°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 2	33	26S	32E		50' FSL	2,505' FEL	32.000362°	-103.679478°	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
898.92	Defining	Pending 802H		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
O	21	26S	32E		574' FSL	2,534' FEL	32.022441°	-103.679541°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	28	26S	32E		100' FNL	2,505' FEL	32.020587°	-103.679445°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 2	33	26S	32E		100' FSL	2,505' FEL	32.000499°	-103.679478°	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.

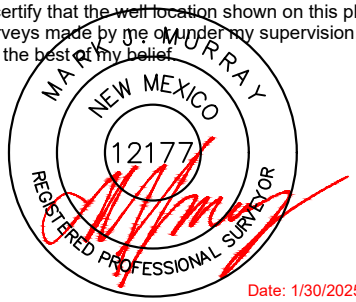
Signature: Stan Wagner Date: 5/12/25

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.



Date: 1/30/2025

Signature and Seal of Professional Surveyor

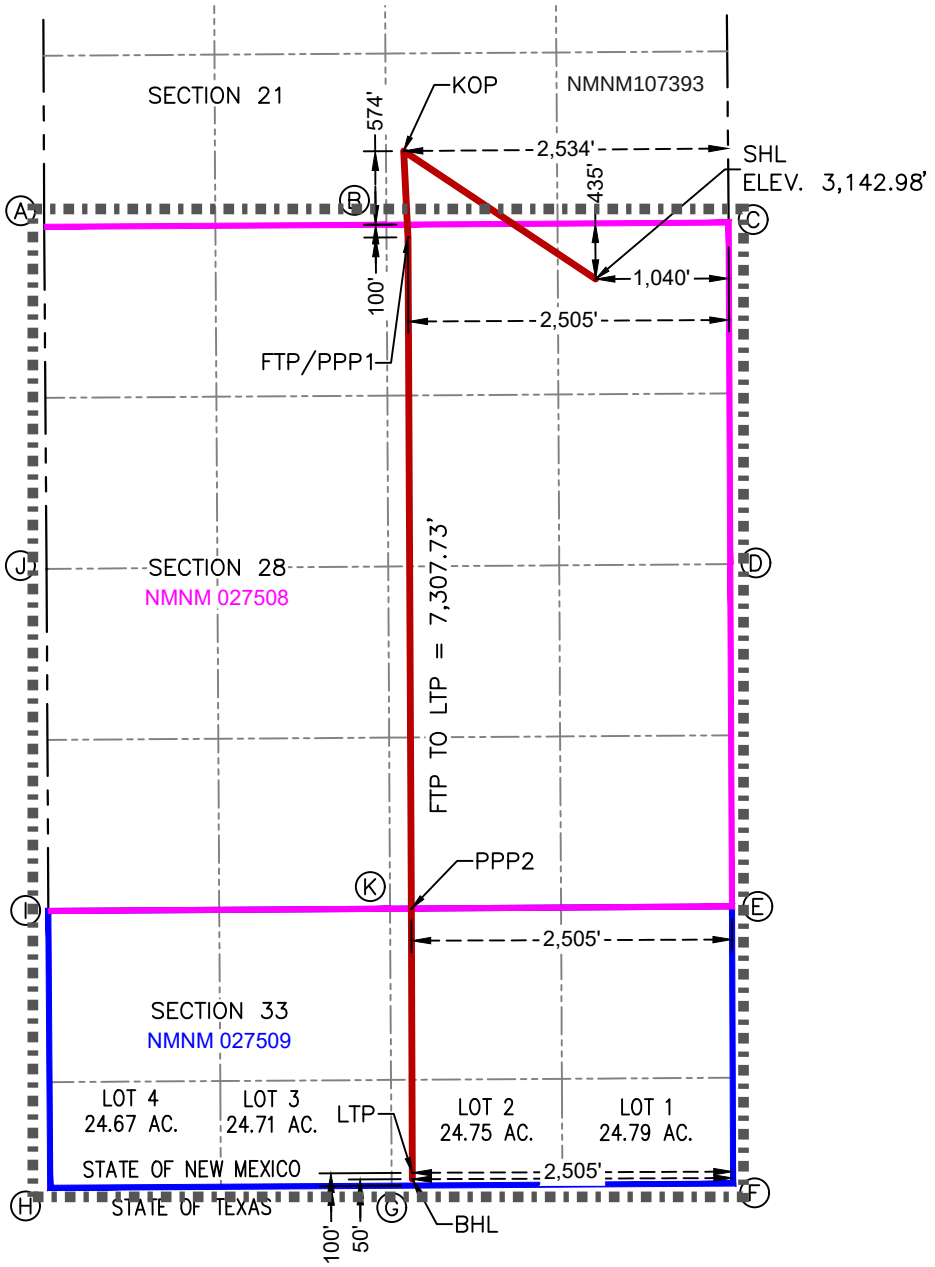
Certificate Number	Date of Survey
12177	1/30/2025

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
435' FNL & 1,040' FEL
ELEV.=3,142.98'

NAD 83 X = 745,457.99'
NAD 83 Y = 371,515.82'
NAD 83 LAT = 32.019667°
NAD 83 LONG = -103.674721°

KICK-OFF POINT
574' FSL & 2,534' FEL

NAD 83 X = 743,957.94'
NAD 83 Y = 372,515.86'
NAD 83 LAT = 32.022441°
NAD 83 LONG = -103.679541°

FIRST TAKE POINT &
PENETRATION POINT 1
100' FNL & 2,505' FEL

NAD 83 X = 743,991.76'
NAD 83 Y = 371,841.70'
NAD 83 LAT = 32.020587°
NAD 83 LONG = -103.679445°

PENETRATION POINT 2
0' FNL & 2,505' FEL

NAD 83 X = 744,018.34'
NAD 83 Y = 366,598.11'
NAD 83 LAT = 32.006173°
NAD 83 LONG = -103.679461°

LAST TAKE POINT
100' FSL & 2,505' FEL

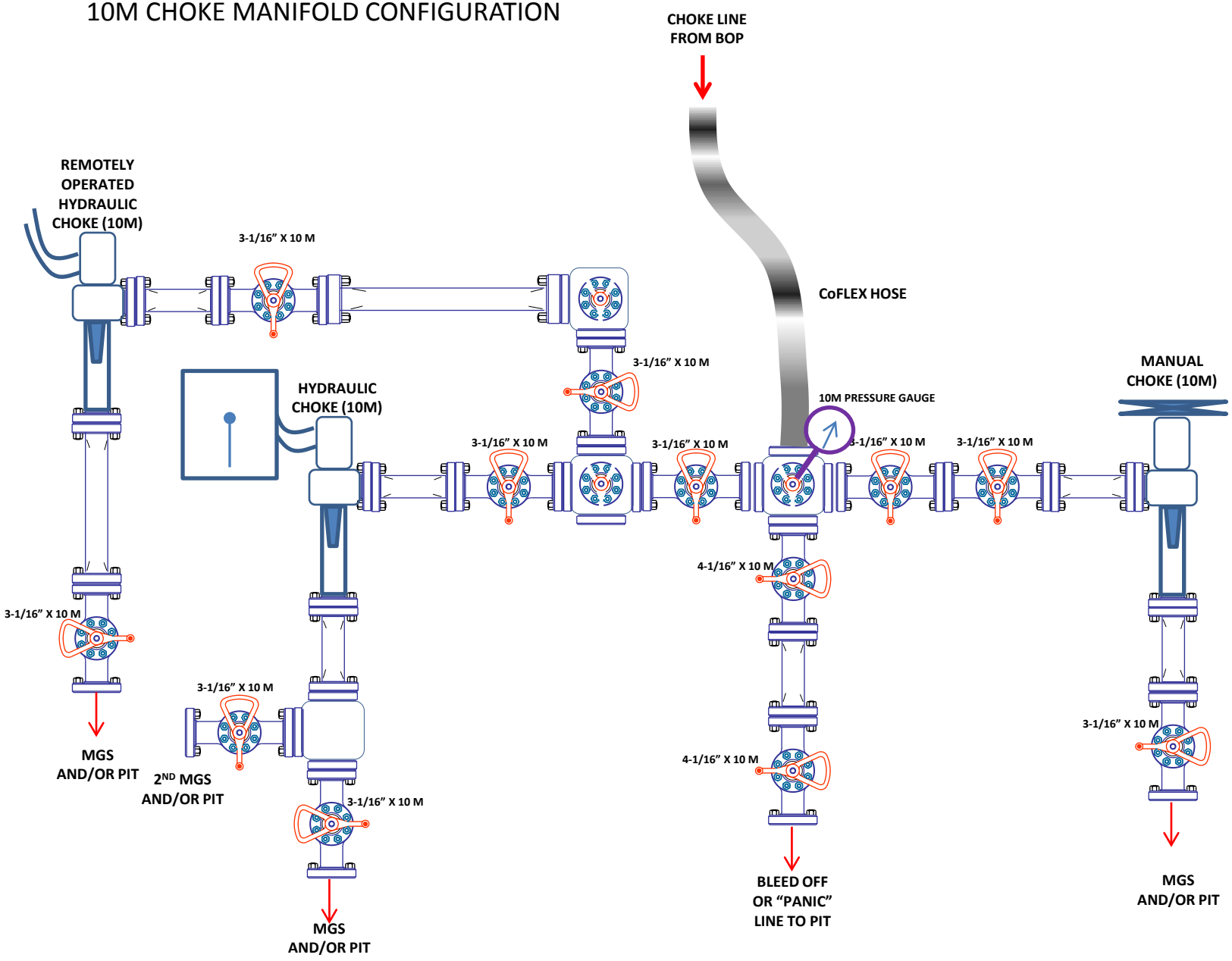
NAD 83 X = 744,025.84'
NAD 83 Y = 364,534.05'
NAD 83 LAT = 32.000499°
NAD 83 LONG = -103.679478°

BOTTOM HOLE LOCATION
50' FSL & 2,505' FEL

NAD 83 X = 744,026.02'
NAD 83 Y = 364,484.05'
NAD 83 LAT = 32.000362°
NAD 83 LONG = -103.679478°

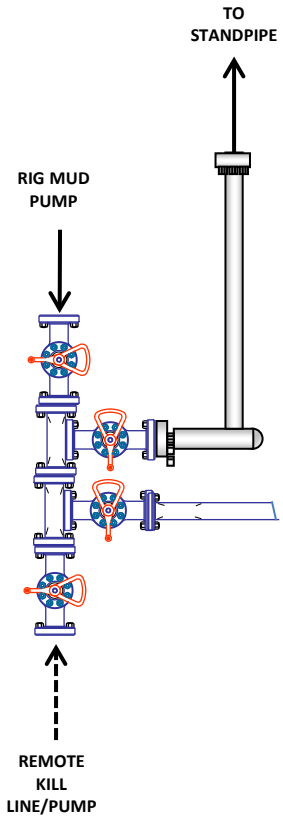
CORNER COORDINATES NEW MEXICO EAST - NAD 83					
A	IRON PIPE W/BRASS CAP N:371,924.06' E:741,150.79'	E	IRON PIPE W/BRASS CAP N:366,615.44' E:746,523.28'	I	IRON PIPE W/BRASS CAP N:366,579.65' E:741,183.39'
B	IRON PIPE W/BRASS CAP N:371,940.66' E:743,823.97'	F	CALCULATED CORNER N:364,449.93' E:746,531.16'	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

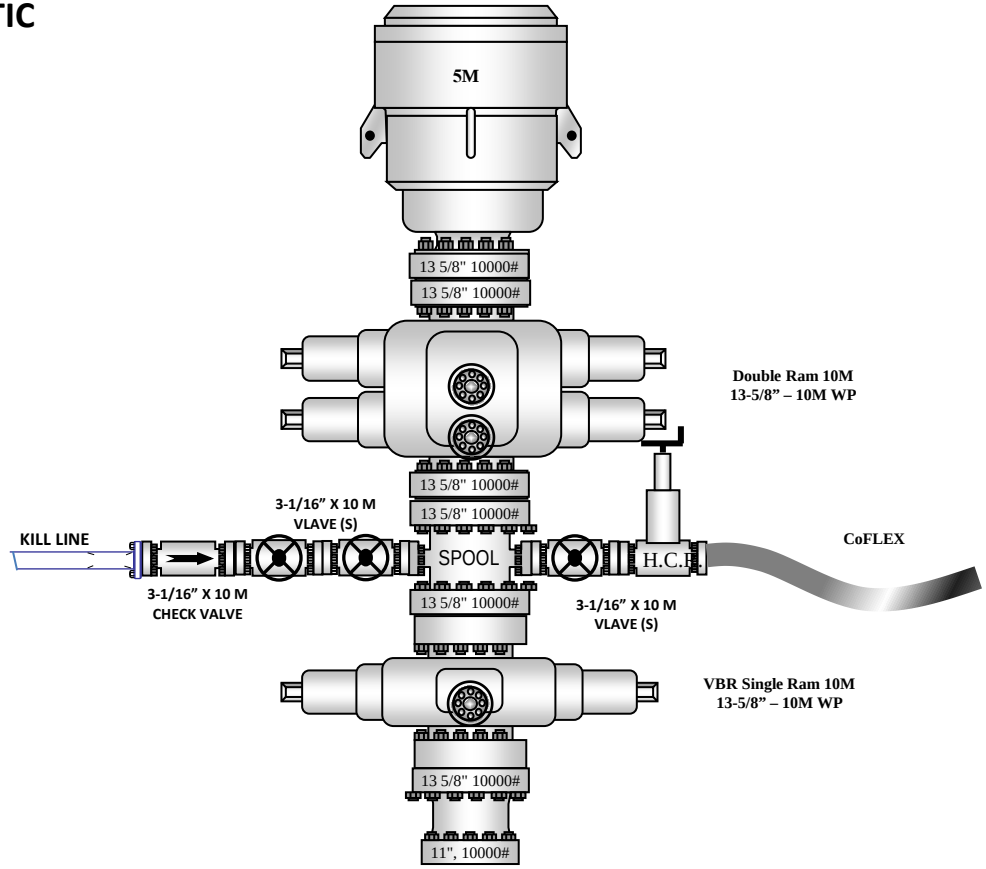


10M BOP Stack

10M REMOTE KILL SCHEMATIC



10M BOP Stack
(5M Annular)



ConocoPhillips Company - Zia Hills Unit 2832 WC 802H

1. Geologic Formations

TVD of target	12,460' EOL	Pilot hole depth	NA
MD at TD:	20,514'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	694	Water	
Top of Salt	969	Salt	
Base of Salt	4174	Salt	
Lamar	4405	Salt Water	
Bell Canyon	4434	Salt Water	
Cherry Canyon	5344	Oil/Gas	
Brushy Canyon	6798	Oil/Gas	
Bone Spring	8468	Oil/Gas	
1st Bone Spring Sand	9437	Oil/Gas	
2nd Bone Spring Sand	10100	Oil/Gas	
3rd Bone Spring Sand	11224	Oil/Gas	
Wolfcamp	11605	Oil/Gas	
Wolfcamp A	11807	Oil/Gas	
Wolfcamp B	12151	Target	

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	820	13.375"	54.5	J55	BTC	3.01	1.51	19.09	20.34
12.25"	0	4310	9.625"	40	L80-IC	BTC	1.73	1.22	5.31	5.49
8.75"	4110	12000	7.625"	29.7	P110-ICY	W513	1.18	1.48	3.00	1.80
6.75"	0	11800	5.5"	23	P110-CY	BTC	1.76	2.05	2.69	2.69
6.75"	11800	20,514	5.5"	23	P110-CY	W441	1.66	1.94	2.54	2.31
					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 802H

	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 802H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	490	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	620	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)	300	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	820	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	660	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	4,110'	20%
Production	11,500'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 802H

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 802H

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 802H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8750 psi at 12460’ TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

8. Other Facets of Operation

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

x	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

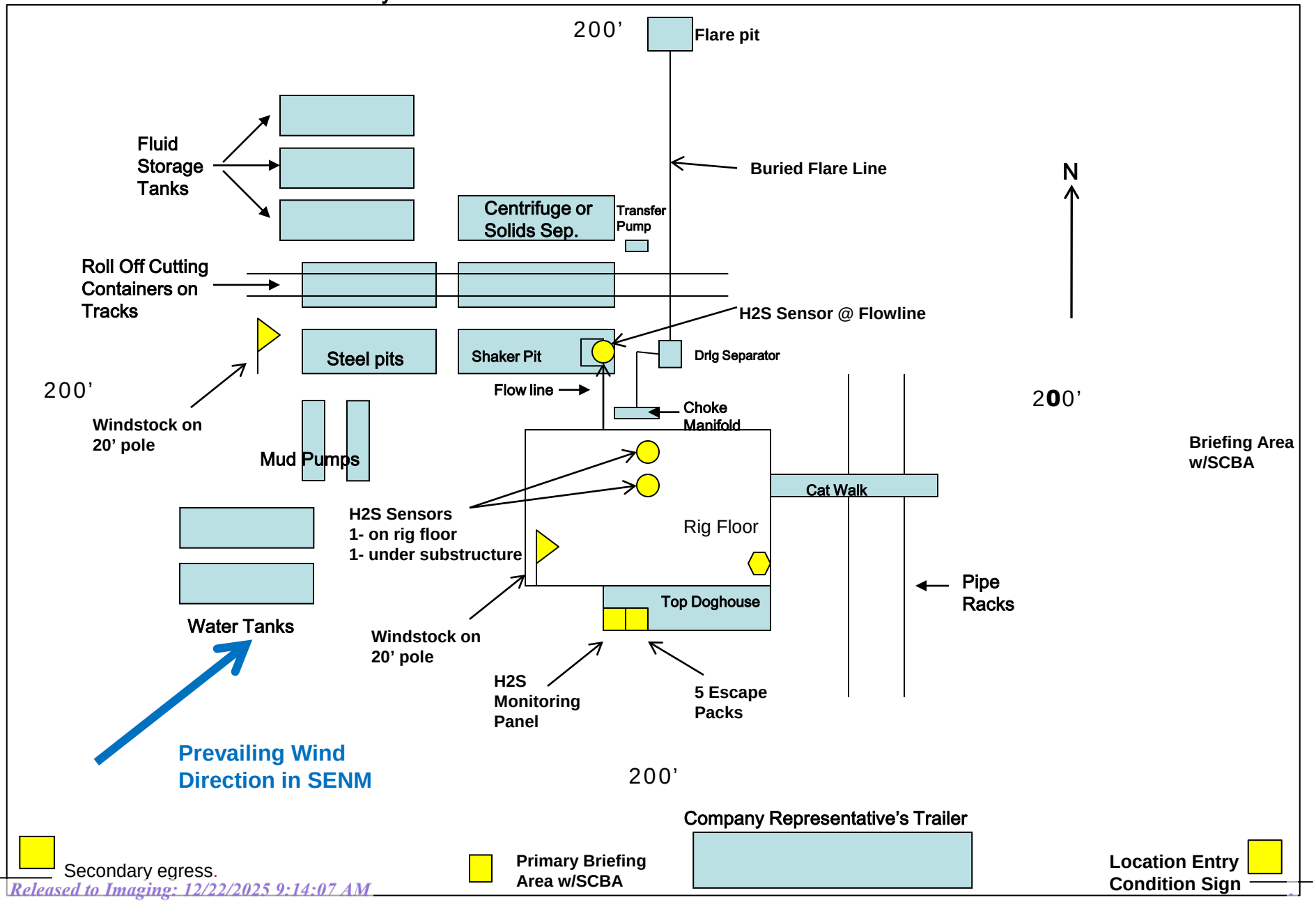
	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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 802H

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 802H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3173.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3173.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 802H	**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	6.26	59.51	47,132.28576975

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	191.41

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

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,513.9	PWP0 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5	

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	
2,757.7	15.15	303.69	2,748.9	55.3	-82.9	2.00	2.00	0.00	303.69	
8,511.1	15.15	303.69	8,302.3	889.5	-1,334.2	0.00	0.00	0.00	0.00	
10,026.4	0.00	0.00	9,800.0	1,000.0	-1,500.0	1.00	-1.00	0.00	180.00	
12,208.9	0.00	0.00	11,982.5	1,000.0	-1,500.0	0.00	0.00	0.00	0.00	
12,958.9	90.00	177.20	12,460.0	523.1	-1,476.7	12.00	12.00	0.00	177.20	
13,428.7	90.00	179.64	12,460.0	53.6	-1,463.7	0.52	0.00	0.52	90.01	
20,514.0	90.00	179.64	12,460.0	-7,031.6	-1,419.2	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 802H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3173.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3173.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 802H	**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	2.00	303.69	2,100.0	1.0	-1.5	-0.7	2.00	2.00	0.00
2,200.0	4.00	303.69	2,199.8	3.9	-5.8	-2.6	2.00	2.00	0.00
2,300.0	6.00	303.69	2,299.5	8.7	-13.1	-5.9	2.00	2.00	0.00
2,400.0	8.00	303.69	2,398.7	15.5	-23.2	-10.6	2.00	2.00	0.00
2,500.0	10.00	303.69	2,497.5	24.1	-36.2	-16.5	2.00	2.00	0.00
2,600.0	12.00	303.69	2,595.6	34.7	-52.1	-23.7	2.00	2.00	0.00
2,700.0	14.00	303.69	2,693.1	47.2	-70.8	-32.3	2.00	2.00	0.00
2,757.7	15.15	303.69	2,748.9	55.3	-82.9	-37.8	2.00	2.00	0.00
2,800.0	15.15	303.69	2,789.7	61.4	-92.1	-42.0	0.00	0.00	0.00
2,900.0	15.15	303.69	2,886.2	75.9	-113.8	-51.9	0.00	0.00	0.00
3,000.0	15.15	303.69	2,982.8	90.4	-135.6	-61.8	0.00	0.00	0.00
3,100.0	15.15	303.69	3,079.3	104.9	-157.3	-71.7	0.00	0.00	0.00
3,200.0	15.15	303.69	3,175.8	119.4	-179.1	-81.6	0.00	0.00	0.00
3,300.0	15.15	303.69	3,272.3	133.9	-200.8	-91.5	0.00	0.00	0.00
3,400.0	15.15	303.69	3,368.9	148.4	-222.6	-101.4	0.00	0.00	0.00
3,500.0	15.15	303.69	3,465.4	162.9	-244.3	-111.3	0.00	0.00	0.00
3,600.0	15.15	303.69	3,561.9	177.4	-266.1	-121.2	0.00	0.00	0.00
3,700.0	15.15	303.69	3,658.4	191.9	-287.8	-131.2	0.00	0.00	0.00
3,800.0	15.15	303.69	3,755.0	206.4	-309.6	-141.1	0.00	0.00	0.00
3,900.0	15.15	303.69	3,851.5	220.9	-331.3	-151.0	0.00	0.00	0.00
4,000.0	15.15	303.69	3,948.0	235.4	-353.1	-160.9	0.00	0.00	0.00
4,100.0	15.15	303.69	4,044.5	249.9	-374.8	-170.8	0.00	0.00	0.00
4,200.0	15.15	303.69	4,141.0	264.4	-396.6	-180.7	0.00	0.00	0.00
4,300.0	15.15	303.69	4,237.6	278.9	-418.3	-190.6	0.00	0.00	0.00
4,400.0	15.15	303.69	4,334.1	293.4	-440.1	-200.5	0.00	0.00	0.00
4,500.0	15.15	303.69	4,430.6	307.9	-461.8	-210.4	0.00	0.00	0.00
4,600.0	15.15	303.69	4,527.1	322.4	-483.6	-220.3	0.00	0.00	0.00
4,700.0	15.15	303.69	4,623.7	336.9	-505.3	-230.3	0.00	0.00	0.00
4,800.0	15.15	303.69	4,720.2	351.4	-527.1	-240.2	0.00	0.00	0.00
4,900.0	15.15	303.69	4,816.7	365.9	-548.8	-250.1	0.00	0.00	0.00
5,000.0	15.15	303.69	4,913.2	380.4	-570.6	-260.0	0.00	0.00	0.00
5,100.0	15.15	303.69	5,009.8	394.9	-592.3	-269.9	0.00	0.00	0.00
5,200.0	15.15	303.69	5,106.3	409.4	-614.1	-279.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3173.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3173.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 802H	**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)
5,300.0	15.15	303.69	5,202.8	423.9	-635.8	-289.7	0.00	0.00	0.00
5,400.0	15.15	303.69	5,299.3	438.4	-657.6	-299.6	0.00	0.00	0.00
5,500.0	15.15	303.69	5,395.8	452.9	-679.3	-309.5	0.00	0.00	0.00
5,600.0	15.15	303.69	5,492.4	467.4	-701.1	-319.4	0.00	0.00	0.00
5,700.0	15.15	303.69	5,588.9	481.9	-722.8	-329.4	0.00	0.00	0.00
5,800.0	15.15	303.69	5,685.4	496.4	-744.6	-339.3	0.00	0.00	0.00
5,900.0	15.15	303.69	5,781.9	510.9	-766.3	-349.2	0.00	0.00	0.00
6,000.0	15.15	303.69	5,878.5	525.4	-788.1	-359.1	0.00	0.00	0.00
6,100.0	15.15	303.69	5,975.0	539.9	-809.8	-369.0	0.00	0.00	0.00
6,200.0	15.15	303.69	6,071.5	554.4	-831.6	-378.9	0.00	0.00	0.00
6,300.0	15.15	303.69	6,168.0	568.9	-853.3	-388.8	0.00	0.00	0.00
6,400.0	15.15	303.69	6,264.6	583.4	-875.1	-398.7	0.00	0.00	0.00
6,500.0	15.15	303.69	6,361.1	597.9	-896.8	-408.6	0.00	0.00	0.00
6,600.0	15.15	303.69	6,457.6	612.4	-918.6	-418.5	0.00	0.00	0.00
6,700.0	15.15	303.69	6,554.1	626.9	-940.3	-428.5	0.00	0.00	0.00
6,800.0	15.15	303.69	6,650.6	641.4	-962.1	-438.4	0.00	0.00	0.00
6,900.0	15.15	303.69	6,747.2	655.9	-983.8	-448.3	0.00	0.00	0.00
7,000.0	15.15	303.69	6,843.7	670.4	-1,005.6	-458.2	0.00	0.00	0.00
7,100.0	15.15	303.69	6,940.2	684.9	-1,027.3	-468.1	0.00	0.00	0.00
7,200.0	15.15	303.69	7,036.7	699.4	-1,049.1	-478.0	0.00	0.00	0.00
7,300.0	15.15	303.69	7,133.3	713.9	-1,070.8	-487.9	0.00	0.00	0.00
7,400.0	15.15	303.69	7,229.8	728.4	-1,092.6	-497.8	0.00	0.00	0.00
7,500.0	15.15	303.69	7,326.3	742.9	-1,114.3	-507.7	0.00	0.00	0.00
7,600.0	15.15	303.69	7,422.8	757.4	-1,136.1	-517.7	0.00	0.00	0.00
7,700.0	15.15	303.69	7,519.4	771.9	-1,157.8	-527.6	0.00	0.00	0.00
7,800.0	15.15	303.69	7,615.9	786.4	-1,179.6	-537.5	0.00	0.00	0.00
7,900.0	15.15	303.69	7,712.4	800.9	-1,201.3	-547.4	0.00	0.00	0.00
8,000.0	15.15	303.69	7,808.9	815.4	-1,223.1	-557.3	0.00	0.00	0.00
8,100.0	15.15	303.69	7,905.4	829.9	-1,244.8	-567.2	0.00	0.00	0.00
8,200.0	15.15	303.69	8,002.0	844.4	-1,266.6	-577.1	0.00	0.00	0.00
8,300.0	15.15	303.69	8,098.5	858.9	-1,288.3	-587.0	0.00	0.00	0.00
8,400.0	15.15	303.69	8,195.0	873.4	-1,310.1	-596.9	0.00	0.00	0.00
8,500.0	15.15	303.69	8,291.5	887.9	-1,331.8	-606.8	0.00	0.00	0.00
8,511.1	15.15	303.69	8,302.3	889.5	-1,334.2	-607.9	0.00	0.00	0.00
8,600.0	14.26	303.69	8,388.2	902.0	-1,353.0	-616.5	1.00	-1.00	0.00
8,700.0	13.26	303.69	8,485.4	915.2	-1,372.8	-625.5	1.00	-1.00	0.00
8,800.0	12.26	303.69	8,582.9	927.5	-1,391.2	-633.9	1.00	-1.00	0.00
8,900.0	11.26	303.69	8,680.8	938.8	-1,408.2	-641.6	1.00	-1.00	0.00
9,000.0	10.26	303.69	8,779.0	949.1	-1,423.7	-648.7	1.00	-1.00	0.00
9,100.0	9.26	303.69	8,877.6	958.5	-1,437.8	-655.1	1.00	-1.00	0.00
9,200.0	8.26	303.69	8,976.4	967.0	-1,450.5	-660.9	1.00	-1.00	0.00
9,300.0	7.26	303.69	9,075.5	974.5	-1,461.7	-666.0	1.00	-1.00	0.00
9,400.0	6.26	303.69	9,174.8	981.0	-1,471.5	-670.5	1.00	-1.00	0.00
9,500.0	5.26	303.69	9,274.3	986.6	-1,479.9	-674.3	1.00	-1.00	0.00
9,600.0	4.26	303.69	9,373.9	991.2	-1,486.8	-677.5	1.00	-1.00	0.00
9,700.0	3.26	303.69	9,473.7	994.8	-1,492.3	-679.9	1.00	-1.00	0.00
9,800.0	2.26	303.69	9,573.6	997.5	-1,496.3	-681.8	1.00	-1.00	0.00
9,900.0	1.26	303.69	9,673.6	999.2	-1,498.8	-682.9	1.00	-1.00	0.00
10,000.0	0.26	303.69	9,773.6	1,000.0	-1,499.9	-683.4	1.00	-1.00	0.00
10,026.4	0.00	0.00	9,800.0	1,000.0	-1,500.0	-683.5	1.00	-1.00	0.00
10,100.0	0.00	0.00	9,873.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
10,200.0	0.00	0.00	9,973.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,073.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,173.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3173.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3173.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 802H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,273.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,373.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,473.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,573.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,673.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,000.0	0.00	0.00	10,773.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,100.0	0.00	0.00	10,873.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,200.0	0.00	0.00	10,973.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,300.0	0.00	0.00	11,073.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,400.0	0.00	0.00	11,173.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,500.0	0.00	0.00	11,273.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,600.0	0.00	0.00	11,373.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,700.0	0.00	0.00	11,473.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,800.0	0.00	0.00	11,573.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
11,900.0	0.00	0.00	11,673.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
12,000.0	0.00	0.00	11,773.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
12,100.0	0.00	0.00	11,873.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
12,200.0	0.00	0.00	11,973.6	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
12,208.9	0.00	0.00	11,982.5	1,000.0	-1,500.0	-683.5	0.00	0.00	0.00
12,300.0	10.93	177.20	12,073.0	991.4	-1,499.6	-675.1	12.00	12.00	0.00
12,400.0	22.93	177.20	12,168.5	962.3	-1,498.2	-646.9	12.00	12.00	0.00
12,500.0	34.93	177.20	12,255.9	914.1	-1,495.8	-600.1	12.00	12.00	0.00
12,600.0	46.93	177.20	12,331.3	848.8	-1,492.6	-536.7	12.00	12.00	0.00
12,700.0	58.93	177.20	12,391.4	769.3	-1,488.7	-459.5	12.00	12.00	0.00
12,800.0	70.93	177.20	12,433.8	678.9	-1,484.3	-371.9	12.00	12.00	0.00
12,900.0	82.93	177.20	12,456.3	581.8	-1,479.5	-277.6	12.00	12.00	0.00
12,958.9	90.00	177.20	12,460.0	523.1	-1,476.7	-220.6	12.00	12.00	0.00
13,000.0	90.00	177.41	12,460.0	482.1	-1,474.7	-180.8	0.52	0.00	0.52
13,100.0	90.00	177.93	12,460.0	382.2	-1,470.7	-83.7	0.52	0.00	0.52
13,200.0	90.00	178.45	12,460.0	282.2	-1,467.5	13.7	0.52	0.00	0.52
13,300.0	90.00	178.97	12,460.0	182.3	-1,465.3	111.2	0.52	0.00	0.52
13,400.0	90.00	179.49	12,460.0	82.3	-1,463.9	209.0	0.52	0.00	0.52
13,428.7	90.00	179.64	12,460.0	53.6	-1,463.7	237.1	0.52	0.00	0.52
13,500.0	90.00	179.64	12,460.0	-17.7	-1,463.3	306.9	0.00	0.00	0.00
13,600.0	90.00	179.64	12,460.0	-117.7	-1,462.6	404.8	0.00	0.00	0.00
13,700.0	90.00	179.64	12,460.0	-217.7	-1,462.0	502.7	0.00	0.00	0.00
13,800.0	90.00	179.64	12,460.0	-317.7	-1,461.4	600.6	0.00	0.00	0.00
13,900.0	90.00	179.64	12,460.0	-417.7	-1,460.8	698.5	0.00	0.00	0.00
14,000.0	90.00	179.64	12,460.0	-517.7	-1,460.1	796.4	0.00	0.00	0.00
14,100.0	90.00	179.64	12,460.0	-617.7	-1,459.5	894.3	0.00	0.00	0.00
14,200.0	90.00	179.64	12,460.0	-717.7	-1,458.9	992.2	0.00	0.00	0.00
14,300.0	90.00	179.64	12,460.0	-817.7	-1,458.2	1,090.1	0.00	0.00	0.00
14,400.0	90.00	179.64	12,460.0	-917.7	-1,457.6	1,188.0	0.00	0.00	0.00
14,500.0	90.00	179.64	12,460.0	-1,017.7	-1,457.0	1,285.8	0.00	0.00	0.00
14,600.0	90.00	179.64	12,460.0	-1,117.7	-1,456.4	1,383.7	0.00	0.00	0.00
14,700.0	90.00	179.64	12,460.0	-1,217.7	-1,455.7	1,481.6	0.00	0.00	0.00
14,800.0	90.00	179.64	12,460.0	-1,317.7	-1,455.1	1,579.5	0.00	0.00	0.00
14,900.0	90.00	179.64	12,460.0	-1,417.7	-1,454.5	1,677.4	0.00	0.00	0.00
15,000.0	90.00	179.64	12,460.0	-1,517.7	-1,453.8	1,775.3	0.00	0.00	0.00
15,100.0	90.00	179.64	12,460.0	-1,617.7	-1,453.2	1,873.2	0.00	0.00	0.00
15,200.0	90.00	179.64	12,460.0	-1,717.7	-1,452.6	1,971.1	0.00	0.00	0.00
15,300.0	90.00	179.64	12,460.0	-1,817.7	-1,452.0	2,069.0	0.00	0.00	0.00
15,400.0	90.00	179.64	12,460.0	-1,917.7	-1,451.3	2,166.9	0.00	0.00	0.00
15,500.0	90.00	179.64	12,460.0	-2,017.7	-1,450.7	2,264.8	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 802H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3173.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3173.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 802H	**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	12,460.0	-2,117.7	-1,450.1	2,362.7	0.00	0.00	0.00
15,700.0	90.00	179.64	12,460.0	-2,217.7	-1,449.4	2,460.6	0.00	0.00	0.00
15,800.0	90.00	179.64	12,460.0	-2,317.7	-1,448.8	2,558.5	0.00	0.00	0.00
15,900.0	90.00	179.64	12,460.0	-2,417.7	-1,448.2	2,656.4	0.00	0.00	0.00
16,000.0	90.00	179.64	12,460.0	-2,517.7	-1,447.6	2,754.3	0.00	0.00	0.00
16,100.0	90.00	179.64	12,460.0	-2,617.7	-1,446.9	2,852.2	0.00	0.00	0.00
16,200.0	90.00	179.64	12,460.0	-2,717.7	-1,446.3	2,950.1	0.00	0.00	0.00
16,300.0	90.00	179.64	12,460.0	-2,817.7	-1,445.7	3,048.0	0.00	0.00	0.00
16,400.0	90.00	179.64	12,460.0	-2,917.7	-1,445.0	3,145.9	0.00	0.00	0.00
16,500.0	90.00	179.64	12,460.0	-3,017.7	-1,444.4	3,243.8	0.00	0.00	0.00
16,600.0	90.00	179.64	12,460.0	-3,117.7	-1,443.8	3,341.7	0.00	0.00	0.00
16,700.0	90.00	179.64	12,460.0	-3,217.7	-1,443.2	3,439.6	0.00	0.00	0.00
16,800.0	90.00	179.64	12,460.0	-3,317.7	-1,442.5	3,537.5	0.00	0.00	0.00
16,900.0	90.00	179.64	12,460.0	-3,417.7	-1,441.9	3,635.4	0.00	0.00	0.00
17,000.0	90.00	179.64	12,460.0	-3,517.7	-1,441.3	3,733.3	0.00	0.00	0.00
17,100.0	90.00	179.64	12,460.0	-3,617.7	-1,440.6	3,831.2	0.00	0.00	0.00
17,200.0	90.00	179.64	12,460.0	-3,717.7	-1,440.0	3,929.1	0.00	0.00	0.00
17,300.0	90.00	179.64	12,460.0	-3,817.7	-1,439.4	4,027.0	0.00	0.00	0.00
17,400.0	90.00	179.64	12,460.0	-3,917.7	-1,438.8	4,124.9	0.00	0.00	0.00
17,500.0	90.00	179.64	12,460.0	-4,017.7	-1,438.1	4,222.8	0.00	0.00	0.00
17,600.0	90.00	179.64	12,460.0	-4,117.6	-1,437.5	4,320.7	0.00	0.00	0.00
17,700.0	90.00	179.64	12,460.0	-4,217.6	-1,436.9	4,418.6	0.00	0.00	0.00
17,800.0	90.00	179.64	12,460.0	-4,317.6	-1,436.2	4,516.5	0.00	0.00	0.00
17,900.0	90.00	179.64	12,460.0	-4,417.6	-1,435.6	4,614.3	0.00	0.00	0.00
18,000.0	90.00	179.64	12,460.0	-4,517.6	-1,435.0	4,712.2	0.00	0.00	0.00
18,100.0	90.00	179.64	12,460.0	-4,617.6	-1,434.4	4,810.1	0.00	0.00	0.00
18,200.0	90.00	179.64	12,460.0	-4,717.6	-1,433.7	4,908.0	0.00	0.00	0.00
18,300.0	90.00	179.64	12,460.0	-4,817.6	-1,433.1	5,005.9	0.00	0.00	0.00
18,400.0	90.00	179.64	12,460.0	-4,917.6	-1,432.5	5,103.8	0.00	0.00	0.00
18,500.0	90.00	179.64	12,460.0	-5,017.6	-1,431.8	5,201.7	0.00	0.00	0.00
18,600.0	90.00	179.64	12,460.0	-5,117.6	-1,431.2	5,299.6	0.00	0.00	0.00
18,700.0	90.00	179.64	12,460.0	-5,217.6	-1,430.6	5,397.5	0.00	0.00	0.00
18,800.0	90.00	179.64	12,460.0	-5,317.6	-1,430.0	5,495.4	0.00	0.00	0.00
18,900.0	90.00	179.64	12,460.0	-5,417.6	-1,429.3	5,593.3	0.00	0.00	0.00
19,000.0	90.00	179.64	12,460.0	-5,517.6	-1,428.7	5,691.2	0.00	0.00	0.00
19,100.0	90.00	179.64	12,460.0	-5,617.6	-1,428.1	5,789.1	0.00	0.00	0.00
19,200.0	90.00	179.64	12,460.0	-5,717.6	-1,427.4	5,887.0	0.00	0.00	0.00
19,300.0	90.00	179.64	12,460.0	-5,817.6	-1,426.8	5,984.9	0.00	0.00	0.00
19,400.0	90.00	179.64	12,460.0	-5,917.6	-1,426.2	6,082.8	0.00	0.00	0.00
19,500.0	90.00	179.64	12,460.0	-6,017.6	-1,425.6	6,180.7	0.00	0.00	0.00
19,600.0	90.00	179.64	12,460.0	-6,117.6	-1,424.9	6,278.6	0.00	0.00	0.00
19,700.0	90.00	179.64	12,460.0	-6,217.6	-1,424.3	6,376.5	0.00	0.00	0.00
19,800.0	90.00	179.64	12,460.0	-6,317.6	-1,423.7	6,474.4	0.00	0.00	0.00
19,900.0	90.00	179.64	12,460.0	-6,417.6	-1,423.0	6,572.3	0.00	0.00	0.00
20,000.0	90.00	179.64	12,460.0	-6,517.6	-1,422.4	6,670.2	0.00	0.00	0.00
20,100.0	90.00	179.64	12,460.0	-6,617.6	-1,421.8	6,768.1	0.00	0.00	0.00
20,200.0	90.00	179.64	12,460.0	-6,717.6	-1,421.2	6,866.0	0.00	0.00	0.00
20,300.0	90.00	179.64	12,460.0	-6,817.6	-1,420.5	6,963.9	0.00	0.00	0.00
20,400.0	90.00	179.64	12,460.0	-6,917.6	-1,419.9	7,061.8	0.00	0.00	0.00
20,500.0	90.00	179.64	12,460.0	-7,017.6	-1,419.3	7,159.7	0.00	0.00	0.00
20,514.0	90.00	179.64	12,460.0	-7,031.6	-1,419.2	7,173.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3173.0usft
Project:	ZIA HILLS UNIT AREA	**MD Reference:**	KB @ 3173.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	**North Reference:**	Grid
Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
FTP_ZHU 2832 802H	0.00	0.00	12,460.0	325.8	-1,465.7	371,784.51	702,804.99	32° 1' 13.662 N	103° 40' 44.304 W
- plan misses target center by 3.1usft at 13156.6usft MD (12460.0 TVD, 325.7 N, -1468.8 E)									
- Circle (radius 50.0)									
PBHL_ZHU 2832 802H	0.00	359.64	12,460.0	-7,031.6	-1,419.2	364,427.16	702,851.46	32° 0' 0.850 N	103° 40' 44.282 W
- plan hits target center									
- Rectangle (sides W100.0 H7,357.7 D20.0)									
LTP_ZHU 2832 802H	90.00	0.00	12,460.0	-6,981.6	-1,419.9	364,477.16	702,850.73	32° 0' 1.345 N	103° 40' 44.287 W
- plan misses target center by 0.4usft at 20464.0usft MD (12460.0 TVD, -6981.6 N, -1419.5 E)									
- Circle (radius 50.0)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
20,514.0	12,460.0	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 802H

OWB
PWP0

Anticollision Report

22 April, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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** 4/22/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,513.9	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
BATTLE AXE 27 FEDERAL COM 16H - JC						
BATTLE AXE 27 FEDERAL COM 16H - JC - Original Hol						Out of range
BATTLE AXE 27 FEDERAL COM 17H - JC						
BATTLE AXE 27 FEDERAL COM 17H - JC - Original Hol						Out of range
BATTLE AXE 27 FEDERAL COM 18H - JC						
BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hol						Out of range
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	11,500.0	11,471.5	878.2	825.4	16.621	CC, ES
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	11,600.0	11,550.0	879.2	826.2	16.595	SF
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	11,710.0	11,752.0	365.9	296.1	5.244	CC, ES
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	20,513.9	19,901.5	638.6	484.0	4.130	SF
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0	2,000.0	1,996.0	20.0	7.1	1.546	Caution - Monitor Closely, CC, ES, SF
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	2,000.0	1,998.0	40.0	27.1	3.092	CC, ES, SF
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	2,000.0	1,997.8	60.0	47.0	4.633	CC, ES
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	2,100.0	2,098.1	61.5	48.2	4.629	SF
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,000.0	1,997.5	80.0	67.0	6.180	CC, ES
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,100.0	2,097.5	81.7	68.4	6.153	SF
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0	2,000.0	1,997.5	100.0	87.7	8.183	CC, ES
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0	2,100.0	2,097.7	101.6	89.0	8.079	SF
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	1,900.0	1,898.0	120.0	107.3	9.468	CC
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	2,000.0	1,997.5	120.2	107.2	9.288	ES
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	2,100.0	2,096.6	122.7	109.4	9.245	SF
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0	2,000.0	1,997.6	140.0	127.0	10.817	CC, ES
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0	2,100.0	2,097.6	141.7	128.4	10.671	SF
PAYNE FEDERAL 1_PA - OWB - AWP						Out of range
RED HILLS WEST `21` FEDERAL COM 1H - OWB - AW						Out of range
RED HILLS WEST 21 `BO` FEDERAL COM 1H - OWB -	9,554.0	13,536.4	189.4	69.8	1.584	Caution - Monitor Closely, CC, ES, SF
RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP	9,237.6	13,134.5	587.8	470.1	4.996	CC, ES, SF
RED HILLS WEST 21 W0AP FEDERAL COM 003H - OW						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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 W0BO FEDERAL COM 004H - OW	12,000.0	16,335.8	365.3	238.7	2.887	Normal Operations, SF
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW	12,041.5	16,337.1	362.9	237.3	2.889	Normal Operations, CC, ES
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW						Out of range
RED HILLS WEST 21 W1AP FEDERAL COM 002H - OW						Out of range
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW	12,343.6	16,681.5	817.2	690.9	6.470	CC
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW	12,350.0	16,683.2	817.2	690.8	6.467	ES
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW	12,375.0	16,690.9	817.6	691.1	6.461	SF
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,250.0	16,490.8	534.8	409.0	4.251	ES, SF
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,262.0	16,492.6	534.6	409.0	4.255	CC
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O						Out of range
WILDER FEDERAL 28 1H - OWB - AWP	854.9	843.3	258.4	206.8	5.005	CC, ES, SF
WILDER FEDERAL 28 1H - ST01 - AWP	854.9	843.3	258.4	206.8	5.005	CC, ES, SF
WILDER FEDERAL 28 2H - OWB - AWP	5,834.9	5,724.9	467.0	442.6	19.142	CC, ES
WILDER FEDERAL 28 2H - OWB - AWP	7,500.0	7,340.9	636.2	600.1	17.596	SF
WILDER FEDERAL AC COM 28 3H - OWB - AWP						Out of range

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-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
8,700.0	8,485.4	8,710.9	8,513.0	34.8	18.2	-41.58	796.5	-2,356.9	991.6	943.5	48.13	20.601	
8,800.0	8,582.9	8,800.0	8,602.1	35.3	18.3	-42.19	797.5	-2,355.2	972.9	924.3	48.53	20.047	
8,900.0	8,680.8	8,884.1	8,686.2	35.7	18.4	-42.76	797.8	-2,354.6	956.9	908.0	48.91	19.564	
9,000.0	8,779.0	8,977.0	8,779.0	36.2	18.4	-43.38	797.8	-2,354.6	943.1	893.9	49.21	19.164	
9,100.0	8,877.6	9,075.5	8,877.6	36.6	18.5	-44.01	797.8	-2,354.6	930.8	881.3	49.47	18.816	
9,200.0	8,976.4	9,174.4	8,976.4	37.1	18.5	-44.59	797.8	-2,354.6	919.8	870.1	49.71	18.503	
9,300.0	9,075.5	9,273.4	9,075.5	37.5	18.6	-45.11	797.8	-2,354.6	910.2	860.2	49.95	18.220	
9,400.0	9,174.8	9,372.7	9,174.8	37.9	18.6	-45.58	797.8	-2,354.6	901.9	851.7	50.19	17.968	
9,500.0	9,274.3	9,472.2	9,274.3	38.3	18.7	-45.99	797.8	-2,354.6	894.9	844.4	50.43	17.744	
9,600.0	9,373.9	9,571.9	9,373.9	38.7	18.8	-46.33	797.8	-2,354.6	889.1	838.4	50.67	17.547	
9,700.0	9,473.7	9,671.7	9,473.7	39.1	18.8	-46.61	797.8	-2,354.6	884.6	833.7	50.91	17.376	
9,800.0	9,573.6	9,771.6	9,573.6	39.4	18.9	-46.81	797.8	-2,354.6	881.3	830.1	51.14	17.231	
9,900.0	9,673.6	9,871.5	9,673.6	39.7	18.9	-46.94	797.8	-2,354.6	879.2	827.8	51.38	17.112	
10,000.0	9,773.6	9,971.5	9,773.6	39.9	19.0	-47.00	797.8	-2,354.6	878.2	826.7	51.59	17.024	
10,026.4	9,800.0	9,997.9	9,800.0	40.0	19.0	-103.31	797.8	-2,354.6	878.2	826.6	51.62	17.013	
10,100.0	9,873.6	10,071.5	9,873.6	40.0	19.0	-103.31	797.8	-2,354.6	878.2	826.5	51.67	16.996	
10,200.0	9,973.6	10,171.5	9,973.6	40.0	19.1	-103.31	797.8	-2,354.6	878.2	826.5	51.75	16.969	
10,300.0	10,073.6	10,271.5	10,073.6	40.0	19.2	-103.31	797.8	-2,354.6	878.2	826.4	51.83	16.943	
10,400.0	10,173.6	10,371.5	10,173.6	40.1	19.2	-103.31	797.8	-2,354.6	878.2	826.3	51.92	16.916	
10,500.0	10,273.6	10,471.5	10,273.6	40.1	19.3	-103.31	797.8	-2,354.6	878.2	826.2	52.00	16.889	
10,600.0	10,373.6	10,571.5	10,373.6	40.1	19.3	-103.31	797.8	-2,354.6	878.2	826.1	52.08	16.863	
10,700.0	10,473.6	10,671.5	10,473.6	40.2	19.4	-103.31	797.8	-2,354.6	878.2	826.0	52.16	16.836	
10,800.0	10,573.6	10,771.5	10,573.6	40.2	19.4	-103.31	797.8	-2,354.6	878.2	826.0	52.25	16.809	
10,900.0	10,673.6	10,871.5	10,673.6	40.2	19.5	-103.31	797.8	-2,354.6	878.2	825.9	52.33	16.782	
11,000.0	10,773.6	10,971.5	10,773.6	40.2	19.6	-103.31	797.8	-2,354.6	878.2	825.8	52.41	16.756	
11,100.0	10,873.6	11,071.5	10,873.6	40.3	19.6	-103.31	797.8	-2,354.6	878.2	825.7	52.50	16.729	
11,200.0	10,973.6	11,171.5	10,973.6	40.3	19.7	-103.31	797.8	-2,354.6	878.2	825.6	52.58	16.702	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 705H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-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
11,300.0	11,073.6	11,271.5	11,073.6	40.3	19.7	-103.31	797.8	-2,354.6	878.2	825.5	52.67	16.675	
11,400.0	11,173.6	11,371.5	11,173.6	40.4	19.8	-103.31	797.8	-2,354.6	878.2	825.5	52.75	16.648	
11,500.0	11,273.6	11,471.5	11,273.6	40.4	19.9	-103.31	797.8	-2,354.6	878.2	825.4	52.84	16.621	CC, ES
11,600.0	11,373.6	11,550.0	11,351.9	40.4	19.8	-103.51	794.6	-2,354.6	879.2	826.2	52.98	16.595	SF
11,700.0	11,473.6	11,617.1	11,417.8	40.5	19.8	-104.30	782.2	-2,354.5	883.6	830.6	52.99	16.676	
11,800.0	11,573.6	11,680.7	11,478.0	40.5	19.7	-105.56	762.1	-2,354.4	892.0	839.2	52.84	16.881	
11,900.0	11,673.6	11,738.0	11,529.6	40.5	19.7	-107.10	737.2	-2,354.2	905.3	852.6	52.64	17.198	
12,000.0	11,773.6	11,788.5	11,572.4	40.6	19.6	-108.74	710.2	-2,354.1	924.1	871.6	52.43	17.625	
12,100.0	11,873.6	11,832.5	11,607.1	40.6	19.6	-110.36	683.2	-2,353.9	949.0	896.7	52.27	18.157	
12,200.0	11,973.5	11,875.0	11,638.1	40.6	19.6	-112.05	654.2	-2,353.7	980.3	928.2	52.09	18.818	
12,208.9	11,982.5	11,875.0	11,638.1	40.6	19.6	-112.05	654.2	-2,353.7	983.4	931.2	52.15	18.858	
12,225.0	11,998.5	11,875.0	11,638.1	40.6	19.6	70.07	654.2	-2,353.7	989.0	936.8	52.24	18.931	
12,250.0	12,023.5	11,888.2	11,647.2	40.6	19.6	68.50	644.6	-2,353.7	997.8	945.6	52.19	19.119	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
7,700.0	7,519.4	8,008.9	7,775.9	29.9	33.4	-43.63	670.2	-2,108.5	989.9	932.3	57.67	17.164	
7,800.0	7,615.9	8,098.0	7,861.7	30.4	33.8	-44.27	679.8	-2,086.4	945.6	887.1	58.45	16.176	
7,900.0	7,712.4	8,187.1	7,947.4	30.9	34.3	-44.98	689.3	-2,064.3	901.3	842.1	59.23	15.217	
8,000.0	7,808.9	8,276.2	8,033.2	31.4	34.7	-45.76	698.9	-2,042.2	857.2	797.2	60.00	14.287	
8,100.0	7,905.4	8,365.3	8,118.9	31.9	35.2	-46.63	708.4	-2,020.0	813.2	752.4	60.76	13.384	
8,200.0	8,002.0	8,452.1	8,202.5	32.3	35.6	-47.56	717.7	-1,998.5	769.4	707.9	61.51	12.509	
8,300.0	8,098.5	8,531.4	8,279.1	32.8	36.0	-48.52	725.9	-1,979.5	726.7	664.4	62.28	11.668	
8,400.0	8,195.0	8,611.7	8,356.9	33.3	36.4	-49.62	733.8	-1,961.3	685.4	622.4	63.03	10.874	
8,500.0	8,291.5	8,693.0	8,435.9	33.8	36.8	-50.87	741.3	-1,943.8	645.7	581.9	63.74	10.130	
8,511.1	8,302.3	8,700.0	8,442.8	33.9	36.8	-50.99	742.0	-1,942.4	641.3	577.5	63.82	10.049	
8,600.0	8,388.2	8,775.4	8,516.3	34.3	37.2	-51.97	748.5	-1,927.2	608.0	543.6	64.40	9.440	
8,700.0	8,485.4	8,859.2	8,598.3	34.8	37.5	-53.12	755.4	-1,911.4	573.0	508.0	65.02	8.813	
8,800.0	8,582.9	8,944.4	8,682.0	35.3	37.9	-54.34	761.8	-1,896.4	540.8	475.2	65.59	8.245	
8,900.0	8,680.8	9,030.9	8,767.1	35.7	38.3	-55.63	767.9	-1,882.4	511.4	445.3	66.10	7.737	
9,000.0	8,779.0	9,118.6	8,853.6	36.2	38.7	-56.97	773.5	-1,869.4	484.8	418.3	66.56	7.285	
9,100.0	8,877.6	9,207.4	8,941.5	36.6	39.1	-58.34	778.6	-1,857.5	461.1	394.1	66.95	6.887	
9,200.0	8,976.4	9,300.0	9,033.3	37.1	39.5	-59.76	783.4	-1,846.4	440.1	372.8	67.29	6.539	
9,300.0	9,075.5	9,388.0	9,120.7	37.5	39.9	-61.06	787.4	-1,837.1	421.8	354.3	67.56	6.244	
9,400.0	9,174.8	9,479.6	9,211.8	37.9	40.2	-62.35	791.0	-1,828.7	406.3	338.5	67.79	5.993	
9,500.0	9,274.3	9,571.8	9,303.8	38.3	40.6	-63.53	794.1	-1,821.7	393.4	325.4	67.99	5.786	
9,600.0	9,373.9	9,664.7	9,396.4	38.7	40.9	-64.57	796.6	-1,815.9	383.0	314.9	68.16	5.619	
9,700.0	9,473.7	9,758.1	9,489.7	39.1	41.2	-65.44	798.5	-1,811.6	375.2	306.9	68.32	5.491	
9,800.0	9,573.6	9,851.8	9,583.3	39.4	41.5	-66.10	799.8	-1,808.6	369.8	301.3	68.48	5.400	
9,900.0	9,673.6	9,945.7	9,677.2	39.7	41.7	-66.53	800.4	-1,807.0	366.7	298.1	68.59	5.347	
10,000.0	9,773.6	10,042.0	9,773.6	39.9	41.8	-66.71	800.6	-1,806.7	365.9	297.2	68.65	5.330	
10,026.4	9,800.0	10,068.5	9,800.0	40.0	41.8	-123.03	800.6	-1,806.7	365.9	297.2	68.67	5.328	
10,100.0	9,873.6	10,142.0	9,873.6	40.0	41.9	-123.03	800.6	-1,806.7	365.9	297.2	68.71	5.325	
10,200.0	9,973.6	10,242.0	9,973.6	40.0	41.9	-123.03	800.6	-1,806.7	365.9	297.1	68.77	5.320	
10,300.0	10,073.6	10,342.0	10,073.6	40.0	41.9	-123.03	800.6	-1,806.7	365.9	297.0	68.84	5.315	
10,400.0	10,173.6	10,442.0	10,173.6	40.1	41.9	-123.03	800.6	-1,806.7	365.9	297.0	68.90	5.310	
10,500.0	10,273.6	10,542.0	10,273.6	40.1	42.0	-123.03	800.6	-1,806.7	365.9	296.9	68.96	5.305	
10,600.0	10,373.6	10,642.0	10,373.6	40.1	42.0	-123.03	800.6	-1,806.7	365.9	296.8	69.03	5.300	
10,700.0	10,473.6	10,742.0	10,473.6	40.2	42.0	-123.03	800.6	-1,806.7	365.9	296.8	69.10	5.295	
10,800.0	10,573.6	10,842.0	10,573.6	40.2	42.0	-123.03	800.6	-1,806.7	365.9	296.7	69.16	5.290	
10,900.0	10,673.6	10,942.0	10,673.6	40.2	42.1	-123.03	800.6	-1,806.7	365.9	296.6	69.23	5.285	
11,000.0	10,773.6	11,042.0	10,773.6	40.2	42.1	-123.03	800.6	-1,806.7	365.9	296.6	69.29	5.280	
11,100.0	10,873.6	11,142.0	10,873.6	40.3	42.1	-123.03	800.6	-1,806.7	365.9	296.5	69.36	5.275	
11,200.0	10,973.6	11,242.0	10,973.6	40.3	42.1	-123.03	800.6	-1,806.7	365.9	296.4	69.43	5.270	
11,300.0	11,073.6	11,342.0	11,073.6	40.3	42.2	-123.03	800.6	-1,806.7	365.9	296.4	69.50	5.265	
11,400.0	11,173.6	11,442.0	11,173.6	40.4	42.2	-123.03	800.6	-1,806.7	365.9	296.3	69.56	5.259	
11,500.0	11,273.6	11,542.0	11,273.6	40.4	42.2	-123.03	800.6	-1,806.7	365.9	296.2	69.63	5.254	
11,600.0	11,373.6	11,642.0	11,373.6	40.4	42.2	-123.03	800.6	-1,806.7	365.9	296.2	69.70	5.249	
11,700.0	11,473.6	11,742.0	11,473.6	40.5	42.3	-123.03	800.6	-1,806.7	365.9	296.1	69.77	5.244	
11,710.0	11,483.6	11,752.0	11,483.6	40.5	42.3	-123.03	800.6	-1,806.7	365.9	296.1	69.77	5.244	CC, ES
11,800.0	11,573.6	11,825.0	11,556.5	40.5	42.2	-123.21	799.0	-1,807.0	367.3	297.9	69.37	5.295	
11,900.0	11,673.6	11,887.9	11,618.7	40.5	42.1	-124.26	790.0	-1,808.4	377.1	309.1	67.99	5.546	
12,000.0	11,773.6	11,950.0	11,678.4	40.6	41.9	-126.11	773.2	-1,811.0	396.5	330.4	66.11	5.998	
12,100.0	11,873.6	12,005.1	11,729.1	40.6	41.8	-128.28	752.0	-1,814.2	425.6	361.7	63.84	6.666	
12,200.0	11,973.5	12,050.0	11,768.4	40.6	41.7	-130.31	730.5	-1,817.6	464.3	402.8	61.46	7.553	
12,208.9	11,982.5	12,059.6	11,776.5	40.6	41.7	-130.77	725.5	-1,818.3	468.1	406.8	61.32	7.634	
12,225.0	11,998.5	12,067.2	11,782.8	40.6	41.7	50.95	721.4	-1,819.0	475.1	414.2	60.97	7.794	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
12,250.0	12,023.5	12,075.0	11,789.3	40.6	41.6	49.51	717.1	-1,819.6	485.9	425.5	60.43	8.041	
12,275.0	12,048.3	12,090.6	11,802.0	40.5	41.6	47.89	708.1	-1,821.0	496.5	436.4	60.02	8.272	
12,300.0	12,073.0	12,100.0	11,809.5	40.4	41.6	46.60	702.5	-1,821.9	506.7	447.1	59.60	8.501	
12,325.0	12,097.4	12,114.1	11,820.5	40.4	41.5	45.28	693.8	-1,823.2	516.7	457.4	59.27	8.717	
12,350.0	12,121.5	12,125.0	11,828.9	40.3	41.5	44.15	686.9	-1,824.3	526.3	467.3	58.96	8.926	
12,375.0	12,145.2	12,137.6	11,838.4	40.2	41.5	43.09	678.7	-1,825.6	535.5	476.8	58.71	9.123	
12,400.0	12,168.5	12,150.0	11,847.4	40.2	41.5	42.12	670.3	-1,826.9	544.4	485.9	58.49	9.307	
12,425.0	12,191.3	12,161.1	11,855.4	40.1	41.4	41.26	662.7	-1,828.1	552.9	494.6	58.32	9.480	
12,450.0	12,213.4	12,175.0	11,865.1	40.0	41.4	40.47	652.8	-1,829.6	560.9	502.7	58.19	9.639	
12,475.0	12,235.0	12,184.7	11,871.6	39.9	41.4	39.79	645.8	-1,830.7	568.5	510.4	58.11	9.784	
12,500.0	12,255.9	12,200.0	11,881.8	39.9	41.4	39.16	634.5	-1,832.4	575.7	517.7	58.06	9.917	
12,525.0	12,276.0	12,208.2	11,887.0	39.8	41.3	38.62	628.3	-1,833.4	582.4	524.3	58.06	10.030	
12,550.0	12,295.3	12,225.0	11,897.5	39.7	41.3	38.15	615.2	-1,835.4	588.7	530.6	58.08	10.136	
12,575.0	12,313.7	12,231.7	11,901.5	39.6	41.3	37.74	610.0	-1,836.2	594.4	536.2	58.17	10.217	
12,600.0	12,331.3	12,243.4	11,908.4	39.6	41.3	37.40	600.6	-1,837.7	599.6	541.3	58.28	10.288	
12,625.0	12,347.9	12,250.0	11,912.1	39.5	41.3	37.08	595.2	-1,838.5	604.4	546.0	58.47	10.338	
12,650.0	12,363.4	12,266.9	11,921.4	39.5	41.2	36.90	581.3	-1,840.7	608.6	550.0	58.61	10.384	
12,675.0	12,378.0	12,275.0	11,925.7	39.4	41.2	36.70	574.5	-1,841.7	612.4	553.5	58.86	10.404	
12,700.0	12,391.4	12,290.3	11,933.4	39.4	41.2	36.64	561.4	-1,843.7	615.6	556.5	59.08	10.421	
12,725.0	12,403.8	12,300.0	11,938.1	39.3	41.2	36.57	553.1	-1,845.0	618.4	559.0	59.37	10.414	
12,750.0	12,415.0	12,313.7	11,944.5	39.3	41.2	36.60	541.1	-1,846.9	620.6	560.9	59.66	10.401	
12,775.0	12,425.0	12,325.0	11,949.5	39.3	41.2	36.66	531.0	-1,848.4	622.3	562.3	60.00	10.371	
12,800.0	12,433.8	12,337.0	11,954.5	39.2	41.1	36.79	520.2	-1,850.1	623.5	563.1	60.36	10.329	
12,825.0	12,441.3	12,350.0	11,959.6	39.2	41.1	36.99	508.4	-1,851.9	624.2	563.5	60.73	10.278	
12,850.0	12,447.6	12,360.3	11,963.4	39.2	41.1	37.20	499.0	-1,853.4	624.4	563.2	61.16	10.209	
12,875.0	12,452.6	12,375.0	11,968.5	39.2	41.1	37.55	485.4	-1,855.5	624.1	562.5	61.55	10.140	
12,900.0	12,456.3	12,383.6	11,971.3	39.2	41.1	37.82	477.3	-1,856.8	623.3	561.3	62.04	10.046	
12,925.0	12,458.8	12,400.0	11,976.2	39.2	41.1	38.34	461.8	-1,859.2	622.1	559.6	62.44	9.962	
12,950.0	12,459.9	12,406.8	11,978.0	39.2	41.1	38.66	455.4	-1,860.2	620.3	557.3	63.00	9.846	
12,958.9	12,460.0	12,410.9	11,979.1	39.2	41.1	38.84	451.5	-1,860.8	619.6	556.4	63.18	9.807	
13,000.0	12,460.0	12,425.0	11,982.6	39.2	41.1	39.23	438.0	-1,862.9	616.8	552.8	64.06	9.629	
13,062.5	12,460.0	12,460.1	11,989.4	39.3	41.1	40.11	404.0	-1,868.1	615.2	550.0	65.17	9.440	
13,100.0	12,460.0	12,475.0	11,991.6	39.3	41.1	40.44	389.4	-1,870.4	615.8	549.9	65.88	9.346	
13,200.0	12,460.0	12,527.9	11,995.5	39.4	41.1	41.38	337.3	-1,878.4	622.6	555.1	67.45	9.230	
13,300.0	12,460.0	12,632.3	11,995.6	39.5	41.2	42.57	233.9	-1,892.8	633.3	565.2	68.10	9.300	
13,400.0	12,460.0	12,749.5	11,995.6	39.7	41.3	43.47	117.3	-1,904.5	641.1	572.6	68.46	9.364	
13,449.1	12,460.0	12,807.4	11,995.6	39.7	41.4	43.76	59.5	-1,908.5	643.6	575.1	68.59	9.384	
13,500.0	12,460.0	12,867.7	11,995.6	39.8	41.5	43.97	-0.7	-1,911.4	645.5	576.8	68.70	9.396	
13,600.0	12,460.0	12,986.3	11,995.6	40.0	41.6	44.13	-119.3	-1,913.5	647.0	578.2	68.84	9.399	
13,700.0	12,460.0	13,087.5	11,995.6	40.2	41.8	44.12	-220.5	-1,912.9	646.9	577.6	69.35	9.328	
13,800.0	12,460.0	13,187.5	11,995.6	40.4	42.0	44.11	-320.5	-1,912.2	646.8	576.9	69.92	9.250	
13,900.0	12,460.0	13,287.5	11,995.6	40.6	42.2	44.10	-420.5	-1,911.6	646.7	576.1	70.54	9.168	
14,000.0	12,460.0	13,387.5	11,995.6	40.8	42.4	44.09	-520.5	-1,911.0	646.5	575.4	71.19	9.082	
14,100.0	12,460.0	13,487.5	11,995.6	41.1	42.6	44.08	-620.5	-1,910.4	646.4	574.6	71.87	8.994	
14,200.0	12,460.0	13,587.5	11,995.6	41.4	42.9	44.06	-720.5	-1,909.8	646.3	573.7	72.59	8.903	
14,300.0	12,460.0	13,687.5	11,995.6	41.7	43.2	44.05	-820.5	-1,909.1	646.2	572.8	73.35	8.810	
14,400.0	12,460.0	13,787.5	11,995.6	42.0	43.5	44.04	-920.5	-1,908.5	646.1	571.9	74.13	8.715	
14,500.0	12,460.0	13,887.5	11,995.6	42.3	43.8	44.03	-1,020.5	-1,907.9	645.9	571.0	74.95	8.618	
14,600.0	12,460.0	13,987.5	11,995.6	42.7	44.1	44.02	-1,120.5	-1,907.3	645.8	570.0	75.80	8.520	
14,700.0	12,460.0	14,087.5	11,995.6	43.0	44.5	44.01	-1,220.5	-1,906.7	645.7	569.0	76.68	8.421	
14,800.0	12,460.0	14,187.5	11,995.6	43.4	44.8	44.00	-1,320.5	-1,906.0	645.6	568.0	77.59	8.320	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
14,900.0	12,460.0	14,287.5	11,995.6	43.8	45.2	43.99	-1,420.5	-1,905.4	645.4	566.9	78.52	8.220	
15,000.0	12,460.0	14,387.5	11,995.6	44.3	45.6	43.97	-1,520.5	-1,904.8	645.3	565.8	79.49	8.119	
15,100.0	12,460.0	14,487.5	11,995.6	44.7	46.0	43.96	-1,620.5	-1,904.2	645.2	564.7	80.47	8.018	
15,200.0	12,460.0	14,587.5	11,995.6	45.1	46.4	43.95	-1,720.5	-1,903.6	645.1	563.6	81.49	7.916	
15,300.0	12,460.0	14,687.5	11,995.6	45.6	46.9	43.94	-1,820.5	-1,902.9	645.0	562.4	82.52	7.815	
15,400.0	12,460.0	14,787.5	11,995.6	46.1	47.3	43.93	-1,920.5	-1,902.3	644.8	561.3	83.58	7.715	
15,500.0	12,460.0	14,887.5	11,995.6	46.6	47.8	43.92	-2,020.5	-1,901.7	644.7	560.0	84.66	7.615	
15,600.0	12,460.0	14,987.5	11,995.6	47.1	48.3	43.91	-2,120.5	-1,901.1	644.6	558.8	85.77	7.516	
15,700.0	12,460.0	15,087.5	11,995.6	47.6	48.8	43.90	-2,220.5	-1,900.5	644.5	557.6	86.89	7.417	
15,800.0	12,460.0	15,187.5	11,995.6	48.2	49.3	43.88	-2,320.5	-1,899.8	644.3	556.3	88.03	7.319	
15,900.0	12,460.0	15,287.5	11,995.6	48.7	49.8	43.87	-2,420.5	-1,899.2	644.2	555.0	89.19	7.223	
16,000.0	12,460.0	15,387.5	11,995.6	49.3	50.3	43.86	-2,520.5	-1,898.6	644.1	553.7	90.37	7.127	
16,100.0	12,460.0	15,487.5	11,995.6	49.9	50.9	43.85	-2,620.5	-1,898.0	644.0	552.4	91.57	7.033	
16,200.0	12,460.0	15,587.5	11,995.6	50.5	51.5	43.84	-2,720.5	-1,897.4	643.9	551.1	92.78	6.939	
16,300.0	12,460.0	15,687.5	11,995.6	51.1	52.0	43.83	-2,820.5	-1,896.7	643.7	549.7	94.01	6.847	
16,400.0	12,460.0	15,787.5	11,995.6	51.7	52.6	43.82	-2,920.5	-1,896.1	643.6	548.4	95.26	6.757	
16,500.0	12,460.0	15,887.5	11,995.6	52.3	53.2	43.81	-3,020.5	-1,895.5	643.5	547.0	96.52	6.667	
16,600.0	12,460.0	15,987.5	11,995.6	53.0	53.8	43.79	-3,120.5	-1,894.9	643.4	545.6	97.79	6.579	
16,700.0	12,460.0	16,087.5	11,995.6	53.6	54.4	43.78	-3,220.5	-1,894.3	643.2	544.2	99.08	6.492	
16,800.0	12,460.0	16,187.5	11,995.6	54.3	55.0	43.77	-3,320.5	-1,893.6	643.1	542.7	100.38	6.407	
16,900.0	12,460.0	16,287.5	11,995.6	55.0	55.7	43.76	-3,420.5	-1,893.0	643.0	541.3	101.69	6.323	
17,000.0	12,460.0	16,387.5	11,995.6	55.7	56.3	43.75	-3,520.5	-1,892.4	642.9	539.9	103.02	6.240	
17,100.0	12,460.0	16,487.5	11,995.6	56.4	57.0	43.74	-3,620.5	-1,891.8	642.8	538.4	104.36	6.159	
17,200.0	12,460.0	16,587.5	11,995.6	57.1	57.6	43.73	-3,720.5	-1,891.2	642.6	536.9	105.70	6.080	
17,300.0	12,460.0	16,687.5	11,995.6	57.8	58.3	43.72	-3,820.4	-1,890.5	642.5	535.5	107.06	6.001	
17,400.0	12,460.0	16,787.5	11,995.6	58.5	59.0	43.70	-3,920.4	-1,889.9	642.4	534.0	108.43	5.924	
17,500.0	12,460.0	16,887.5	11,995.6	59.2	59.7	43.69	-4,020.4	-1,889.3	642.3	532.5	109.81	5.849	
17,600.0	12,460.0	16,987.5	11,995.6	59.9	60.4	43.68	-4,120.4	-1,888.7	642.2	531.0	111.20	5.775	
17,700.0	12,460.0	17,087.5	11,995.6	60.7	61.1	43.67	-4,220.4	-1,888.1	642.0	529.4	112.60	5.702	
17,800.0	12,460.0	17,187.5	11,995.6	61.4	61.8	43.66	-4,320.4	-1,887.4	641.9	527.9	114.01	5.630	
17,900.0	12,460.0	17,287.5	11,995.6	62.2	62.5	43.65	-4,420.4	-1,886.8	641.8	526.4	115.42	5.560	
18,000.0	12,460.0	17,387.5	11,995.6	62.9	63.2	43.64	-4,520.4	-1,886.2	641.7	524.8	116.85	5.492	
18,100.0	12,460.0	17,487.5	11,995.6	63.7	63.9	43.62	-4,620.4	-1,885.6	641.5	523.3	118.28	5.424	
18,200.0	12,460.0	17,587.5	11,995.6	64.5	64.7	43.61	-4,720.4	-1,884.9	641.4	521.7	119.72	5.358	
18,300.0	12,460.0	17,687.5	11,995.6	65.2	65.4	43.60	-4,820.4	-1,884.3	641.3	520.1	121.16	5.293	
18,400.0	12,460.0	17,787.5	11,995.6	66.0	66.2	43.59	-4,920.4	-1,883.7	641.2	518.6	122.62	5.229	
18,500.0	12,460.0	17,887.5	11,995.6	66.8	66.9	43.58	-5,020.4	-1,883.1	641.1	517.0	124.08	5.167	
18,600.0	12,460.0	17,987.5	11,995.6	67.6	67.7	43.57	-5,120.4	-1,882.5	640.9	515.4	125.54	5.105	
18,700.0	12,460.0	18,087.5	11,995.6	68.4	68.4	43.56	-5,220.4	-1,881.8	640.8	513.8	127.02	5.045	
18,800.0	12,460.0	18,187.5	11,995.6	69.2	69.2	43.54	-5,320.4	-1,881.2	640.7	512.2	128.50	4.986	
18,900.0	12,460.0	18,287.5	11,995.6	70.0	70.0	43.53	-5,420.4	-1,880.6	640.6	510.6	129.98	4.928	
19,000.0	12,460.0	18,387.5	11,995.6	70.8	70.7	43.52	-5,520.4	-1,880.0	640.5	509.0	131.47	4.871	
19,100.0	12,460.0	18,487.5	11,995.6	71.6	71.5	43.51	-5,620.4	-1,879.4	640.3	507.4	132.97	4.816	
19,200.0	12,460.0	18,587.5	11,995.6	72.4	72.3	43.50	-5,720.4	-1,878.7	640.2	505.7	134.47	4.761	
19,300.0	12,460.0	18,687.5	11,995.6	73.3	73.1	43.49	-5,820.4	-1,878.1	640.1	504.1	135.98	4.707	
19,400.0	12,460.0	18,787.5	11,995.6	74.1	73.9	43.48	-5,920.4	-1,877.5	640.0	502.5	137.49	4.655	
19,500.0	12,460.0	18,887.5	11,995.6	74.9	74.7	43.46	-6,020.4	-1,876.9	639.8	500.8	139.01	4.603	
19,600.0	12,460.0	18,987.5	11,995.6	75.8	75.5	43.45	-6,120.4	-1,876.3	639.7	499.2	140.53	4.552	
19,700.0	12,460.0	19,087.5	11,995.6	76.6	76.3	43.44	-6,220.4	-1,875.6	639.6	497.5	142.06	4.502	
19,800.0	12,460.0	19,187.5	11,995.6	77.4	77.1	43.43	-6,320.4	-1,875.0	639.5	495.9	143.59	4.454	
19,900.0	12,460.0	19,287.5	11,995.6	78.3	77.9	43.42	-6,420.4	-1,874.4	639.4	494.2	145.12	4.406	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
20,000.0	12,460.0	19,387.5	11,995.6	79.1	78.8	43.41	-6,520.4	-1,873.8	639.2	492.6	146.66	4.359	
20,100.0	12,460.0	19,487.5	11,995.6	80.0	79.6	43.40	-6,620.4	-1,873.2	639.1	490.9	148.20	4.312	
20,200.0	12,460.0	19,587.5	11,995.6	80.8	80.4	43.38	-6,720.4	-1,872.5	639.0	489.3	149.75	4.267	
20,300.0	12,460.0	19,687.5	11,995.6	81.7	81.2	43.37	-6,820.4	-1,871.9	638.9	487.6	151.30	4.223	
20,400.0	12,460.0	19,787.5	11,995.6	82.5	82.1	43.36	-6,920.4	-1,871.3	638.8	485.9	152.85	4.179	
20,500.0	12,460.0	19,887.5	11,995.6	83.4	82.9	43.35	-7,020.4	-1,870.7	638.6	484.2	154.41	4.136	
20,513.9	12,460.0	19,901.5	11,995.6	83.5	83.0	43.35	-7,034.3	-1,870.6	638.6	484.0	154.63	4.130 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
0.0	0.0	0.0	4.0	3.0	3.0	125.32	-11.6	16.3	20.4				
100.0	100.0	96.0	100.0	3.1	3.1	125.32	-11.6	16.3	20.0	13.4	6.60	3.031	
200.0	200.0	196.0	200.0	3.3	3.3	125.32	-11.6	16.3	20.0	13.0	7.05	2.838	Normal Operations
300.0	300.0	296.0	300.0	3.5	3.5	125.32	-11.6	16.3	20.0	12.5	7.48	2.676	Normal Operations
400.0	400.0	396.0	400.0	3.8	3.8	125.32	-11.6	16.3	20.0	12.1	7.88	2.538	Normal Operations
500.0	500.0	496.0	500.0	4.0	4.0	125.32	-11.6	16.3	20.0	11.7	8.27	2.419	Caution - Monitor Closely
600.0	600.0	596.0	600.0	4.1	4.1	125.32	-11.6	16.3	20.0	11.4	8.64	2.315	Caution - Monitor Closely
700.0	700.0	696.0	700.0	4.3	4.3	125.32	-11.6	16.3	20.0	11.0	9.00	2.223	Caution - Monitor Closely
800.0	800.0	796.0	800.0	4.5	4.5	125.32	-11.6	16.3	20.0	10.7	9.35	2.140	Caution - Monitor Closely
900.0	900.0	896.0	900.0	4.7	4.7	125.32	-11.6	16.3	20.0	10.3	9.69	2.066	Caution - Monitor Closely
1,000.0	1,000.0	996.0	1,000.0	4.8	4.8	125.32	-11.6	16.3	20.0	10.0	10.02	1.998	Caution - Monitor Closely
1,100.0	1,100.0	1,096.0	1,100.0	5.0	5.0	125.32	-11.6	16.3	20.0	9.7	10.34	1.936	Caution - Monitor Closely
1,200.0	1,200.0	1,196.0	1,200.0	5.2	5.2	125.32	-11.6	16.3	20.0	9.4	10.65	1.879	Caution - Monitor Closely
1,300.0	1,300.0	1,296.0	1,300.0	5.3	5.3	125.32	-11.6	16.3	20.0	9.1	10.95	1.827	Caution - Monitor Closely
1,400.0	1,400.0	1,396.0	1,400.0	5.5	5.5	125.32	-11.6	16.3	20.0	8.8	11.25	1.778	Caution - Monitor Closely
1,500.0	1,500.0	1,496.0	1,500.0	5.6	5.6	125.32	-11.6	16.3	20.0	8.5	11.55	1.733	Caution - Monitor Closely
1,600.0	1,600.0	1,596.0	1,600.0	5.8	5.8	125.32	-11.6	16.3	20.0	8.2	11.84	1.691	Caution - Monitor Closely
1,700.0	1,700.0	1,696.0	1,700.0	5.9	5.9	125.32	-11.6	16.3	20.0	7.9	12.12	1.651	Caution - Monitor Closely
1,800.0	1,800.0	1,796.0	1,800.0	6.0	6.0	125.32	-11.6	16.3	20.0	7.6	12.40	1.614	Caution - Monitor Closely
1,900.0	1,900.0	1,896.0	1,900.0	6.2	6.2	125.32	-11.6	16.3	20.0	7.3	12.67	1.579	Caution - Monitor Closely
2,000.0	2,000.0	1,996.0	2,000.0	6.3	6.3	125.32	-11.6	16.3	20.0	7.1	12.94	1.546	Caution - Monitor Closely, CC, ES, SF
2,100.0	2,100.0	2,096.5	2,100.5	6.5	6.5	-177.33	-11.3	15.2	20.6	7.3	13.30	1.551	Caution - Monitor Closely
2,200.0	2,199.8	2,197.0	2,200.9	6.7	6.6	-174.35	-10.3	11.4	22.3	8.7	13.64	1.635	Caution - Monitor Closely
2,300.0	2,299.5	2,297.5	2,301.2	7.0	6.8	-170.20	-8.6	5.1	25.2	11.2	13.99	1.798	Caution - Monitor Closely
2,400.0	2,398.7	2,398.2	2,401.5	7.2	6.9	-165.98	-5.9	-3.8	29.0	14.8	14.28	2.033	Caution - Monitor Closely
2,500.0	2,497.5	2,499.2	2,501.6	7.5	7.1	-162.77	-1.4	-15.6	33.1	18.4	14.66	2.254	Caution - Monitor Closely
2,600.0	2,595.6	2,600.3	2,601.4	7.8	7.3	-160.32	5.2	-30.3	37.1	22.0	15.06	2.463	Caution - Monitor Closely
2,700.0	2,693.1	2,701.5	2,700.7	8.1	7.5	-158.41	13.8	-48.0	41.1	25.7	15.47	2.659	Normal Operations
2,757.7	2,748.9	2,759.9	2,757.7	8.2	7.6	-157.49	19.7	-59.5	43.5	27.8	15.67	2.774	Normal Operations
2,800.0	2,789.7	2,802.8	2,799.4	8.3	7.7	-156.75	24.4	-68.6	44.9	29.1	15.80	2.840	Normal Operations
2,900.0	2,886.2	2,904.3	2,897.2	8.6	7.9	-153.87	37.0	-92.0	45.9	29.8	16.16	2.842	Normal Operations
3,000.0	2,982.8	3,004.6	2,993.4	8.9	8.0	-149.60	50.9	-117.3	44.8	28.3	16.46	2.719	Normal Operations
3,100.0	3,079.3	3,104.5	3,089.0	9.2	8.1	-145.05	64.9	-142.5	43.8	26.9	16.82	2.601	Normal Operations
3,200.0	3,175.8	3,204.5	3,184.7	9.6	8.2	-140.32	78.8	-167.8	43.0	25.9	17.16	2.509	Normal Operations
3,300.0	3,272.3	3,304.4	3,280.4	9.9	8.4	-135.46	92.8	-193.0	42.6	25.2	17.47	2.441	Caution - Monitor Closely
3,381.4	3,351.0	3,385.8	3,358.3	10.2	8.5	-131.45	104.1	-213.6	42.5	24.8	17.70	2.403	Caution - Monitor Closely
3,400.0	3,368.9	3,404.3	3,376.1	10.3	8.5	-130.54	106.7	-218.3	42.5	24.8	17.75	2.396	Caution - Monitor Closely
3,500.0	3,465.4	3,504.3	3,471.7	10.6	8.7	-125.64	120.6	-243.6	42.8	24.7	18.01	2.374	Caution - Monitor Closely
3,600.0	3,561.9	3,604.2	3,567.4	11.0	8.9	-120.82	134.6	-268.8	43.3	25.0	18.25	2.371	Caution - Monitor Closely
3,700.0	3,658.4	3,704.1	3,663.1	11.4	9.0	-116.15	148.5	-294.1	44.1	25.6	18.48	2.386	Caution - Monitor Closely
3,800.0	3,755.0	3,804.1	3,758.8	11.8	9.2	-111.67	162.4	-319.4	45.2	26.5	18.72	2.415	Caution - Monitor Closely
3,900.0	3,851.5	3,904.0	3,854.5	12.2	9.4	-107.44	176.4	-344.6	46.6	27.6	18.96	2.456	Caution - Monitor Closely
4,000.0	3,948.0	4,003.9	3,950.1	12.6	9.6	-103.46	190.3	-369.9	48.2	28.9	19.23	2.506	Normal Operations
4,100.0	4,044.5	4,103.9	4,045.8	13.1	9.7	-99.76	204.2	-395.1	50.0	30.5	19.52	2.562	Normal Operations
4,200.0	4,141.0	4,203.8	4,141.5	13.5	9.9	-96.33	218.2	-420.4	52.0	32.2	19.83	2.623	Normal Operations
4,300.0	4,237.6	4,303.7	4,237.2	13.9	10.1	-93.17	232.1	-445.7	54.2	34.0	20.18	2.686	Normal Operations
4,400.0	4,334.1	4,403.7	4,332.8	14.4	10.3	-90.26	246.0	-470.9	56.5	36.0	20.55	2.751	Normal Operations
4,500.0	4,430.6	4,503.6	4,428.5	14.8	10.5	-87.59	260.0	-496.2	59.0	38.1	20.96	2.816	Normal Operations
4,600.0	4,527.1	4,603.5	4,524.2	15.2	10.7	-85.14	273.9	-521.5	61.6	40.2	21.39	2.880	Normal Operations
4,700.0	4,623.7	4,703.5	4,619.9	15.7	10.9	-82.89	287.8	-546.7	64.3	42.5	21.84	2.944	Normal Operations
4,800.0	4,720.2	4,803.4	4,715.6	16.1	11.1	-80.82	301.8	-572.0	67.1	44.8	22.32	3.006	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
4,900.0	4,816.7	4,903.3	4,811.2	16.6	11.3	-78.92	315.7	-597.2	70.0	47.1	22.82	3.066	
5,000.0	4,913.2	5,003.3	4,906.9	17.0	11.5	-77.17	329.6	-622.5	72.9	49.6	23.33	3.124	
5,100.0	5,009.8	5,103.2	5,002.6	17.5	11.7	-75.56	343.6	-647.8	75.9	52.0	23.86	3.181	
5,200.0	5,106.3	5,203.1	5,098.3	18.0	11.9	-74.07	357.5	-673.0	78.9	54.5	24.40	3.235	
5,300.0	5,202.8	5,303.1	5,193.9	18.4	12.1	-72.70	371.4	-698.3	82.1	57.1	24.96	3.288	
5,400.0	5,299.3	5,403.0	5,289.6	18.9	12.3	-71.42	385.4	-723.6	85.2	59.7	25.52	3.338	
5,500.0	5,395.8	5,502.9	5,385.3	19.4	12.5	-70.24	399.3	-748.8	88.4	62.3	26.10	3.387	
5,600.0	5,492.4	5,602.9	5,481.0	19.8	12.7	-69.13	413.2	-774.1	91.6	64.9	26.68	3.434	
5,700.0	5,588.9	5,702.8	5,576.7	20.3	12.9	-68.11	427.2	-799.3	94.9	67.6	27.27	3.479	
5,800.0	5,685.4	5,802.7	5,672.3	20.8	13.2	-67.15	441.1	-824.6	98.1	70.3	27.87	3.522	
5,900.0	5,781.9	5,902.7	5,768.0	21.2	13.4	-66.26	455.0	-849.9	101.5	73.0	28.47	3.564	
6,000.0	5,878.5	6,002.6	5,863.7	21.7	13.6	-65.42	469.0	-875.1	104.8	75.7	29.08	3.604	
6,100.0	5,975.0	6,102.5	5,959.4	22.2	13.8	-64.63	482.9	-900.4	108.1	78.5	29.69	3.643	
6,200.0	6,071.5	6,202.5	6,055.1	22.7	14.0	-63.89	496.8	-925.7	111.5	81.2	30.30	3.680	
6,300.0	6,168.0	6,302.4	6,150.7	23.1	14.3	-63.19	510.8	-950.9	114.9	84.0	30.92	3.716	
6,400.0	6,264.6	6,402.3	6,246.4	23.6	14.5	-62.54	524.7	-976.2	118.3	86.8	31.55	3.750	
6,500.0	6,361.1	6,502.3	6,342.1	24.1	14.7	-61.92	538.6	-1,001.4	121.7	89.6	32.17	3.783	
6,600.0	6,457.6	6,602.2	6,437.8	24.6	14.9	-61.33	552.6	-1,026.7	125.2	92.4	32.80	3.815	
6,700.0	6,554.1	6,702.1	6,533.4	25.1	15.2	-60.78	566.5	-1,052.0	128.6	95.2	33.44	3.846	
6,800.0	6,650.6	6,802.1	6,629.1	25.5	15.4	-60.25	580.4	-1,077.2	132.1	98.0	34.07	3.876	
6,900.0	6,747.2	6,902.0	6,724.8	26.0	15.6	-59.76	594.4	-1,102.5	135.5	100.8	34.71	3.905	
7,000.0	6,843.7	7,001.9	6,820.5	26.5	15.9	-59.28	608.3	-1,127.8	139.0	103.7	35.34	3.933	
7,100.0	6,940.2	7,101.9	6,916.2	27.0	16.1	-58.83	622.2	-1,153.0	142.5	106.5	35.99	3.960	
7,200.0	7,036.7	7,201.8	7,011.8	27.5	16.3	-58.40	636.2	-1,178.3	146.0	109.4	36.63	3.986	
7,300.0	7,133.3	7,301.7	7,107.5	28.0	16.5	-58.00	650.1	-1,203.5	149.5	112.2	37.27	4.011	
7,400.0	7,229.8	7,401.7	7,203.2	28.4	16.8	-57.61	664.0	-1,228.8	153.0	115.1	37.92	4.035	
7,500.0	7,326.3	7,501.6	7,298.9	28.9	17.0	-57.23	678.0	-1,254.1	156.5	118.0	38.56	4.059	
7,600.0	7,422.8	7,602.3	7,395.4	29.4	17.2	-56.93	691.9	-1,279.4	159.9	120.7	39.18	4.081	
7,700.0	7,519.4	7,704.1	7,493.2	29.9	17.5	-57.07	705.3	-1,303.6	162.4	122.7	39.73	4.088	
7,800.0	7,615.9	7,805.8	7,591.6	30.4	17.7	-57.70	717.8	-1,326.3	163.8	123.7	40.15	4.080	
7,900.0	7,712.4	7,907.5	7,690.4	30.9	17.9	-58.83	729.5	-1,347.5	164.2	123.7	40.43	4.061	
8,000.0	7,808.9	8,009.0	7,789.4	31.4	18.1	-60.47	740.3	-1,367.1	163.6	123.0	40.57	4.033	
8,100.0	7,905.4	8,110.4	7,888.7	31.9	18.3	-62.66	750.3	-1,385.2	162.2	121.7	40.58	3.998	
8,200.0	8,002.0	8,211.5	7,988.1	32.3	18.5	-65.42	759.4	-1,401.7	160.2	119.8	40.45	3.961	
8,300.0	8,098.5	8,312.4	8,087.4	32.8	18.7	-68.82	767.6	-1,416.6	157.8	117.6	40.20	3.925	
8,400.0	8,195.0	8,412.8	8,186.8	33.3	18.9	-72.89	774.9	-1,429.9	155.3	115.4	39.88	3.893	
8,500.0	8,291.5	8,512.9	8,285.9	33.8	19.1	-77.68	781.4	-1,441.6	153.0	113.4	39.59	3.865	
8,511.1	8,302.3	8,524.0	8,296.9	33.9	19.1	-78.26	782.1	-1,442.8	152.8	113.3	39.57	3.863	
8,600.0	8,388.2	8,612.5	8,384.9	34.3	19.3	-82.93	787.0	-1,451.8	151.6	112.1	39.49	3.840	
8,671.9	8,458.0	8,684.0	8,456.0	34.7	19.4	-86.73	790.5	-1,458.2	151.3	111.7	39.59	3.822	
8,700.0	8,485.4	8,712.0	8,483.8	34.8	19.4	-88.22	791.8	-1,460.4	151.4	111.7	39.67	3.815	
8,800.0	8,582.9	8,811.2	8,582.7	35.3	19.6	-93.48	795.7	-1,467.6	152.3	112.1	40.19	3.789	
8,900.0	8,680.8	8,910.1	8,681.4	35.7	19.7	-98.64	798.8	-1,473.2	154.3	113.3	41.02	3.762	
9,000.0	8,779.0	9,008.8	8,780.0	36.2	19.9	-103.62	801.1	-1,477.3	157.4	115.3	42.13	3.737	
9,100.0	8,877.6	9,107.3	8,878.4	36.6	20.0	-108.39	802.6	-1,480.0	161.6	118.1	43.44	3.720	
9,200.0	8,976.4	9,205.5	8,976.7	37.1	20.1	-112.90	803.2	-1,481.1	166.6	121.8	44.87	3.714	
9,300.0	9,075.5	9,304.4	9,075.5	37.5	20.2	-117.03	803.2	-1,481.2	172.4	126.0	46.32	3.721	
9,400.0	9,174.8	9,403.7	9,174.8	37.9	20.2	-120.44	803.2	-1,481.2	178.1	130.4	47.67	3.735	
9,500.0	9,274.3	9,503.2	9,274.3	38.3	20.3	-123.18	803.2	-1,481.2	183.4	134.5	48.86	3.753	
9,600.0	9,373.9	9,602.8	9,373.9	38.7	20.3	-125.33	803.2	-1,481.2	188.1	138.2	49.88	3.770	
9,700.0	9,473.7	9,702.6	9,473.7	39.1	20.4	-126.96	803.2	-1,481.2	191.9	141.2	50.73	3.784	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
9,800.0	9,573.6	9,802.5	9,573.6	39.4	20.5	-128.11	803.2	-1,481.2	194.9	143.5	51.41	3.790	
9,900.0	9,673.6	9,902.4	9,673.6	39.7	20.5	-128.83	803.2	-1,481.2	196.8	144.9	51.93	3.790	
10,000.0	9,773.6	10,002.4	9,773.6	39.9	20.6	-129.14	803.2	-1,481.2	197.6	145.4	52.26	3.782	
10,026.4	9,800.0	10,028.9	9,800.0	40.0	20.6	174.53	803.2	-1,481.2	197.7	145.4	52.30	3.779	
10,100.0	9,873.6	10,102.4	9,873.6	40.0	20.6	174.53	803.2	-1,481.2	197.7	145.3	52.36	3.775	
10,200.0	9,973.6	10,202.4	9,973.6	40.0	20.7	174.53	803.2	-1,481.2	197.7	145.2	52.46	3.768	
10,300.0	10,073.6	10,302.4	10,073.6	40.0	20.7	174.53	803.2	-1,481.2	197.7	145.1	52.56	3.761	
10,400.0	10,173.6	10,402.4	10,173.6	40.1	20.8	174.53	803.2	-1,481.2	197.7	145.0	52.65	3.754	
10,500.0	10,273.6	10,502.4	10,273.6	40.1	20.9	174.53	803.2	-1,481.2	197.7	144.9	52.75	3.747	
10,600.0	10,373.6	10,602.4	10,373.6	40.1	20.9	174.53	803.2	-1,481.2	197.7	144.8	52.85	3.740	
10,700.0	10,473.6	10,702.4	10,473.6	40.2	21.0	174.53	803.2	-1,481.2	197.7	144.7	52.95	3.733	
10,800.0	10,573.6	10,802.4	10,573.6	40.2	21.0	174.53	803.2	-1,481.2	197.7	144.6	53.05	3.726	
10,900.0	10,673.6	10,902.4	10,673.6	40.2	21.1	174.53	803.2	-1,481.2	197.7	144.5	53.14	3.719	
11,000.0	10,773.6	11,002.4	10,773.6	40.2	21.2	174.53	803.2	-1,481.2	197.7	144.4	53.24	3.713	
11,100.0	10,873.6	11,102.4	10,873.6	40.3	21.2	174.53	803.2	-1,481.2	197.7	144.3	53.34	3.706	
11,200.0	10,973.6	11,202.4	10,973.6	40.3	21.3	174.53	803.2	-1,481.2	197.7	144.2	53.44	3.699	
11,300.0	11,073.6	11,302.4	11,073.6	40.3	21.3	174.53	803.2	-1,481.2	197.7	144.1	53.54	3.692	
11,400.0	11,173.6	11,402.4	11,173.6	40.4	21.4	174.53	803.2	-1,481.2	197.7	144.0	53.64	3.685	
11,500.0	11,273.6	11,502.4	11,273.6	40.4	21.5	174.53	803.2	-1,481.2	197.7	143.9	53.74	3.678	
11,510.0	11,283.6	11,512.4	11,283.6	40.4	21.5	174.53	803.2	-1,481.2	197.7	143.9	53.75	3.678	
11,600.0	11,373.6	11,584.8	11,355.9	40.4	21.5	174.58	801.3	-1,481.2	200.3	147.2	53.11	3.772	
11,700.0	11,473.6	11,650.0	11,420.2	40.5	21.4	174.83	791.2	-1,481.1	216.4	164.6	51.74	4.182	
11,800.0	11,573.6	11,718.1	11,485.3	40.5	21.3	175.24	771.3	-1,481.0	245.9	195.2	50.71	4.850	
11,900.0	11,673.6	11,775.0	11,537.0	40.5	21.3	175.65	747.7	-1,480.8	287.5	237.8	49.78	5.776	
12,000.0	11,773.6	11,825.0	11,579.9	40.6	21.2	176.02	722.0	-1,480.7	339.3	290.1	49.20	6.897	
12,100.0	11,873.6	11,875.0	11,619.9	40.6	21.2	176.37	692.0	-1,480.5	399.5	350.5	49.00	8.153	
12,200.0	11,973.5	11,912.3	11,647.5	40.6	21.2	176.62	667.0	-1,480.3	466.5	417.5	49.00	9.520	
12,208.9	11,982.5	11,915.5	11,649.8	40.6	21.2	176.64	664.7	-1,480.3	472.8	423.8	49.01	9.646	
12,225.0	11,998.5	11,925.0	11,656.5	40.6	21.2	-0.49	658.0	-1,480.3	484.0	434.9	49.02	9.872	
12,250.0	12,023.5	11,925.0	11,656.5	40.6	21.2	-0.46	658.0	-1,480.3	500.9	451.9	49.03	10.216	
12,275.0	12,048.3	11,939.5	11,666.4	40.5	21.2	-0.37	647.4	-1,480.2	517.1	468.1	49.04	10.544	
12,300.0	12,073.0	11,950.0	11,673.4	40.4	21.2	-0.30	639.6	-1,480.1	532.8	483.7	49.06	10.859	
12,325.0	12,097.4	11,958.1	11,678.7	40.4	21.2	-0.25	633.4	-1,480.1	547.8	498.7	49.10	11.156	
12,350.0	12,121.5	11,967.6	11,684.7	40.3	21.2	-0.20	626.1	-1,480.1	562.1	513.0	49.14	11.438	
12,375.0	12,145.2	11,975.0	11,689.3	40.2	21.2	-0.17	620.3	-1,480.0	575.8	526.6	49.21	11.701	
12,400.0	12,168.5	11,986.8	11,696.5	40.2	21.2	-0.11	610.9	-1,480.0	588.8	539.5	49.26	11.951	
12,425.0	12,191.3	12,000.0	11,704.2	40.1	21.2	-0.06	600.2	-1,479.9	601.1	551.7	49.32	12.187	
12,450.0	12,213.4	12,000.0	11,704.2	40.0	21.2	-0.06	600.2	-1,479.9	612.7	563.2	49.48	12.384	
12,475.0	12,235.0	12,016.0	11,713.2	39.9	21.2	0.00	587.0	-1,479.8	623.5	574.0	49.54	12.587	
12,500.0	12,255.9	12,025.0	11,718.0	39.9	21.2	0.03	579.4	-1,479.8	633.7	584.0	49.66	12.760	
12,525.0	12,276.0	12,035.8	11,723.7	39.8	21.2	0.07	570.2	-1,479.7	643.1	593.3	49.79	12.917	
12,550.0	12,295.3	12,050.0	11,730.8	39.7	21.2	0.12	557.9	-1,479.6	651.8	601.9	49.89	13.066	
12,575.0	12,313.7	12,050.0	11,730.8	39.6	21.2	0.12	557.9	-1,479.6	659.8	609.7	50.14	13.158	
12,600.0	12,331.3	12,065.7	11,738.2	39.6	21.2	0.17	544.0	-1,479.6	667.0	616.7	50.26	13.271	
12,625.0	12,347.9	12,075.0	11,742.3	39.5	21.2	0.19	535.7	-1,479.5	673.4	623.0	50.45	13.349	
12,650.0	12,363.4	12,085.8	11,747.0	39.5	21.2	0.23	526.0	-1,479.4	679.1	628.5	50.64	13.412	
12,675.0	12,378.0	12,100.0	11,752.7	39.4	21.2	0.27	513.0	-1,479.4	684.1	633.3	50.79	13.467	
12,700.0	12,391.4	12,100.0	11,752.7	39.4	21.2	0.27	513.0	-1,479.4	688.3	637.1	51.14	13.459	
12,725.0	12,403.8	12,116.1	11,758.8	39.3	21.2	0.32	498.1	-1,479.3	691.6	640.3	51.30	13.483	
12,750.0	12,415.0	12,125.0	11,761.9	39.3	21.2	0.35	489.7	-1,479.2	694.2	642.7	51.56	13.465	
12,775.0	12,425.0	12,136.4	11,765.7	39.3	21.2	0.38	479.0	-1,479.1	696.1	644.3	51.79	13.439	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
12,800.0	12,433.8	12,150.0	11,769.9	39.2	21.2	0.43	466.1	-1,479.1	697.2	645.2	52.01	13.404	
12,825.0	12,441.3	12,150.0	11,769.9	39.2	21.2	0.42	466.1	-1,479.1	697.5	645.1	52.43	13.304	
12,850.0	12,447.6	12,166.9	11,774.6	39.2	21.2	0.48	449.9	-1,479.0	697.0	644.4	52.62	13.246	
12,875.0	12,452.6	12,175.0	11,776.6	39.2	21.2	0.51	442.0	-1,478.9	695.7	642.8	52.94	13.142	
12,900.0	12,456.3	12,187.1	11,779.4	39.2	21.2	0.56	430.2	-1,478.8	693.7	640.5	53.21	13.036	
12,925.0	12,458.8	12,200.0	11,782.1	39.2	21.2	0.61	417.6	-1,478.8	690.9	637.4	53.48	12.919	
12,950.0	12,459.9	12,207.4	11,783.4	39.2	21.2	0.64	410.3	-1,478.7	687.3	633.5	53.84	12.767	
12,958.9	12,460.0	12,211.0	11,784.0	39.2	21.2	0.65	406.8	-1,478.7	685.9	631.9	53.95	12.713	
13,000.0	12,460.0	12,225.0	11,786.2	39.2	21.3	0.67	392.9	-1,478.6	679.6	625.1	54.52	12.465	
13,100.0	12,460.0	12,275.0	11,790.6	39.3	21.3	0.77	343.2	-1,478.3	670.5	614.7	55.76	12.024	
13,156.1	12,460.0	12,292.4	11,791.0	39.4	21.3	0.80	325.8	-1,478.2	669.1	612.4	56.67	11.807	
13,200.0	12,460.0	12,336.0	11,791.0	39.4	21.4	0.89	282.2	-1,477.9	669.1	612.2	56.90	11.759	
13,300.0	12,460.0	12,436.0	11,791.0	39.5	21.5	1.03	182.2	-1,477.3	669.1	611.7	57.43	11.650	
13,400.0	12,460.0	12,536.0	11,791.0	39.7	21.7	1.09	82.2	-1,476.7	669.1	611.1	57.98	11.541	
13,449.1	12,460.0	12,585.0	11,791.0	39.7	21.8	1.09	33.1	-1,476.4	669.1	610.9	58.24	11.489	
13,500.0	12,460.0	12,636.0	11,791.0	39.8	21.9	1.08	-17.8	-1,476.0	669.1	610.6	58.52	11.435	
13,600.0	12,460.0	12,736.0	11,791.0	40.0	22.1	1.07	-117.8	-1,475.4	669.1	610.0	59.08	11.325	
13,700.0	12,460.0	12,836.0	11,791.0	40.2	22.3	1.05	-217.8	-1,474.8	669.1	609.4	59.67	11.214	
13,800.0	12,460.0	12,936.0	11,791.0	40.4	22.5	1.04	-317.8	-1,474.2	669.1	608.8	60.28	11.101	
13,900.0	12,460.0	13,036.0	11,791.0	40.6	22.8	1.02	-417.8	-1,473.5	669.1	608.2	60.90	10.986	
14,000.0	12,460.0	13,136.0	11,791.0	40.8	23.1	1.01	-517.8	-1,472.9	669.1	607.6	61.55	10.871	
14,100.0	12,460.0	13,236.0	11,791.0	41.1	23.4	0.99	-617.8	-1,472.3	669.1	606.9	62.22	10.754	
14,200.0	12,460.0	13,336.0	11,791.0	41.4	23.7	0.98	-717.8	-1,471.7	669.1	606.2	62.90	10.637	
14,300.0	12,460.0	13,436.0	11,791.0	41.7	24.0	0.96	-817.8	-1,471.0	669.1	605.5	63.60	10.520	
14,400.0	12,460.0	13,536.0	11,791.0	42.0	24.3	0.94	-917.8	-1,470.4	669.1	604.8	64.32	10.403	
14,500.0	12,460.0	13,636.0	11,791.0	42.3	24.7	0.93	-1,017.8	-1,469.8	669.1	604.0	65.05	10.285	
14,600.0	12,460.0	13,736.0	11,791.0	42.7	25.1	0.91	-1,117.8	-1,469.2	669.1	603.3	65.80	10.168	
14,700.0	12,460.0	13,836.0	11,791.0	43.0	25.5	0.90	-1,217.8	-1,468.5	669.1	602.5	66.57	10.051	
14,800.0	12,460.0	13,936.0	11,791.0	43.4	25.9	0.88	-1,317.8	-1,467.9	669.1	601.7	67.35	9.935	
14,900.0	12,460.0	14,036.0	11,791.0	43.8	26.4	0.87	-1,417.8	-1,467.3	669.1	600.9	68.14	9.819	
15,000.0	12,460.0	14,136.0	11,791.0	44.3	26.9	0.85	-1,517.8	-1,466.7	669.1	600.1	68.95	9.704	
15,100.0	12,460.0	14,236.0	11,791.0	44.7	27.3	0.84	-1,617.8	-1,466.1	669.1	599.3	69.77	9.589	
15,200.0	12,460.0	14,336.0	11,791.0	45.1	27.9	0.82	-1,717.8	-1,465.4	669.1	598.5	70.61	9.476	
15,300.0	12,460.0	14,436.0	11,791.0	45.6	28.4	0.81	-1,817.8	-1,464.8	669.1	597.6	71.45	9.364	
15,400.0	12,460.0	14,536.0	11,791.0	46.1	28.9	0.79	-1,917.8	-1,464.2	669.1	596.8	72.31	9.253	
15,500.0	12,460.0	14,636.0	11,791.0	46.6	29.5	0.77	-2,017.8	-1,463.6	669.1	595.9	73.18	9.143	
15,600.0	12,460.0	14,736.0	11,791.0	47.1	30.0	0.76	-2,117.8	-1,462.9	669.1	595.0	74.06	9.034	
15,700.0	12,460.0	14,836.0	11,791.0	47.6	30.6	0.74	-2,217.8	-1,462.3	669.1	594.1	74.95	8.926	
15,800.0	12,460.0	14,936.0	11,791.0	48.2	31.2	0.73	-2,317.8	-1,461.7	669.1	593.2	75.85	8.820	
15,900.0	12,460.0	15,036.0	11,791.0	48.7	31.8	0.71	-2,417.8	-1,461.1	669.1	592.3	76.77	8.715	
16,000.0	12,460.0	15,136.0	11,791.0	49.3	32.4	0.70	-2,517.8	-1,460.4	669.0	591.4	77.69	8.612	
16,100.0	12,460.0	15,236.0	11,791.0	49.9	33.0	0.68	-2,617.8	-1,459.8	669.0	590.4	78.62	8.510	
16,200.0	12,460.0	15,336.0	11,791.0	50.5	33.7	0.67	-2,717.8	-1,459.2	669.0	589.5	79.56	8.410	
16,300.0	12,460.0	15,436.0	11,791.0	51.1	34.3	0.65	-2,817.8	-1,458.6	669.0	588.5	80.51	8.310	
16,400.0	12,460.0	15,536.0	11,791.0	51.7	34.9	0.64	-2,917.8	-1,457.9	669.0	587.6	81.46	8.213	
16,500.0	12,460.0	15,636.0	11,791.0	52.3	35.6	0.62	-3,017.7	-1,457.3	669.0	586.6	82.43	8.117	
16,600.0	12,460.0	15,736.0	11,791.0	53.0	36.3	0.60	-3,117.7	-1,456.7	669.0	585.6	83.40	8.022	
16,700.0	12,460.0	15,836.0	11,791.0	53.6	37.0	0.59	-3,217.7	-1,456.1	669.0	584.7	84.38	7.929	
16,800.0	12,460.0	15,936.0	11,791.0	54.3	37.6	0.57	-3,317.7	-1,455.4	669.0	583.7	85.37	7.837	
16,900.0	12,460.0	16,036.0	11,791.0	55.0	38.3	0.56	-3,417.7	-1,454.8	669.0	582.7	86.36	7.747	
17,000.0	12,460.0	16,136.0	11,791.0	55.7	39.0	0.54	-3,517.7	-1,454.2	669.0	581.7	87.36	7.658	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
17,100.0	12,460.0	16,236.0	11,791.0	56.4	39.7	0.53	-3,617.7	-1,453.6	669.0	580.7	88.37	7.571	
17,200.0	12,460.0	16,336.0	11,791.0	57.1	40.5	0.51	-3,717.7	-1,452.9	669.0	579.6	89.38	7.485	
17,300.0	12,460.0	16,436.0	11,791.0	57.8	41.2	0.50	-3,817.7	-1,452.3	669.0	578.6	90.40	7.401	
17,400.0	12,460.0	16,536.0	11,791.0	58.5	41.9	0.48	-3,917.7	-1,451.7	669.0	577.6	91.42	7.318	
17,500.0	12,460.0	16,636.0	11,791.0	59.2	42.6	0.47	-4,017.7	-1,451.1	669.0	576.6	92.45	7.236	
17,600.0	12,460.0	16,736.0	11,791.0	59.9	43.4	0.45	-4,117.7	-1,450.4	669.0	575.5	93.49	7.156	
17,700.0	12,460.0	16,836.0	11,791.0	60.7	44.1	0.43	-4,217.7	-1,449.8	669.0	574.5	94.53	7.077	
17,800.0	12,460.0	16,936.0	11,791.0	61.4	44.8	0.42	-4,317.7	-1,449.2	669.0	573.4	95.58	7.000	
17,900.0	12,460.0	17,036.0	11,791.0	62.2	45.6	0.40	-4,417.7	-1,448.6	669.0	572.4	96.63	6.923	
18,000.0	12,460.0	17,136.0	11,791.0	62.9	46.3	0.39	-4,517.7	-1,447.9	669.0	571.3	97.69	6.849	
18,100.0	12,460.0	17,236.0	11,791.0	63.7	47.1	0.37	-4,617.7	-1,447.3	669.0	570.3	98.75	6.775	
18,200.0	12,460.0	17,336.0	11,791.0	64.5	47.8	0.36	-4,717.7	-1,446.7	669.0	569.2	99.81	6.703	
18,300.0	12,460.0	17,436.0	11,791.0	65.2	48.6	0.34	-4,817.7	-1,446.1	669.0	568.1	100.88	6.632	
18,400.0	12,460.0	17,536.0	11,791.0	66.0	49.4	0.33	-4,917.7	-1,445.4	669.0	567.1	101.96	6.562	
18,500.0	12,460.0	17,636.0	11,791.0	66.8	50.1	0.31	-5,017.7	-1,444.8	669.0	566.0	103.04	6.493	
18,600.0	12,460.0	17,736.0	11,791.0	67.6	50.9	0.30	-5,117.7	-1,444.2	669.0	564.9	104.12	6.426	
18,700.0	12,460.0	17,836.0	11,791.0	68.4	51.7	0.28	-5,217.7	-1,443.6	669.0	563.8	105.20	6.359	
18,800.0	12,460.0	17,936.0	11,791.0	69.2	52.5	0.26	-5,317.7	-1,442.9	669.0	562.7	106.29	6.294	
18,900.0	12,460.0	18,036.0	11,791.0	70.0	53.2	0.25	-5,417.7	-1,442.3	669.0	561.6	107.39	6.230	
19,000.0	12,460.0	18,136.0	11,791.0	70.8	54.0	0.23	-5,517.7	-1,441.7	669.0	560.5	108.48	6.167	
19,100.0	12,460.0	18,236.0	11,791.0	71.6	54.8	0.22	-5,617.7	-1,441.1	669.0	559.4	109.58	6.105	
19,200.0	12,460.0	18,336.0	11,791.0	72.4	55.6	0.20	-5,717.7	-1,440.4	669.0	558.3	110.69	6.044	
19,300.0	12,460.0	18,436.0	11,791.0	73.3	56.4	0.19	-5,817.7	-1,439.8	669.0	557.2	111.79	5.984	
19,400.0	12,460.0	18,536.0	11,791.0	74.1	57.2	0.17	-5,917.7	-1,439.2	669.0	556.1	112.90	5.926	
19,500.0	12,460.0	18,636.0	11,791.0	74.9	57.9	0.16	-6,017.7	-1,438.6	669.0	555.0	114.01	5.868	
19,600.0	12,460.0	18,736.0	11,791.0	75.8	58.7	0.14	-6,117.7	-1,437.9	669.0	553.9	115.13	5.811	
19,700.0	12,460.0	18,836.0	11,791.0	76.6	59.5	0.13	-6,217.7	-1,437.3	669.0	552.8	116.25	5.755	
19,800.0	12,460.0	18,936.0	11,791.0	77.4	60.3	0.11	-6,317.7	-1,436.7	669.0	551.6	117.37	5.700	
19,900.0	12,460.0	19,036.0	11,791.0	78.3	61.1	0.09	-6,417.7	-1,436.1	669.0	550.5	118.49	5.646	
20,000.0	12,460.0	19,136.0	11,791.0	79.1	61.9	0.08	-6,517.7	-1,435.4	669.0	549.4	119.62	5.593	
20,100.0	12,460.0	19,236.0	11,791.0	80.0	62.7	0.06	-6,617.7	-1,434.8	669.0	548.3	120.75	5.540	
20,200.0	12,460.0	19,336.0	11,791.0	80.8	63.5	0.05	-6,717.7	-1,434.2	669.0	547.1	121.88	5.489	
20,300.0	12,460.0	19,436.0	11,791.0	81.7	64.3	0.03	-6,817.7	-1,433.6	669.0	546.0	123.01	5.438	
20,400.0	12,460.0	19,536.0	11,791.0	82.5	65.1	0.02	-6,917.7	-1,433.0	669.0	544.9	124.15	5.389	
20,500.0	12,460.0	19,636.0	11,791.0	83.4	66.0	0.00	-7,017.7	-1,432.3	669.0	543.8	125.24	5.342	
20,507.5	12,460.0	19,643.5	11,791.0	83.4	66.1	0.00	-7,025.2	-1,432.3	669.0	543.7	125.31	5.339	
20,513.9	12,460.0	19,649.9	11,791.0	83.5	66.2	0.00	-7,031.6	-1,432.2	669.0	543.6	125.38	5.336	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 708H - 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	2.0	3.0	3.0	125.68	-23.3	32.5	40.1				
100.0	100.0	98.0	100.0	3.1	3.1	125.68	-23.3	32.5	40.0	33.4	6.60	6.066	
200.0	200.0	198.0	200.0	3.3	3.3	125.68	-23.3	32.5	40.0	33.0	7.05	5.678	
300.0	300.0	298.0	300.0	3.5	3.5	125.68	-23.3	32.5	40.0	32.5	7.47	5.353	
400.0	400.0	398.0	400.0	3.8	3.7	125.68	-23.3	32.5	40.0	32.1	7.88	5.078	
500.0	500.0	498.0	500.0	4.0	3.9	125.68	-23.3	32.5	40.0	31.7	8.27	4.839	
600.0	600.0	598.0	600.0	4.1	4.1	125.68	-23.3	32.5	40.0	31.4	8.64	4.631	
700.0	700.0	698.0	700.0	4.3	4.3	125.68	-23.3	32.5	40.0	31.0	9.00	4.446	
800.0	800.0	798.0	800.0	4.5	4.5	125.68	-23.3	32.5	40.0	30.7	9.35	4.280	
900.0	900.0	898.0	900.0	4.7	4.7	125.68	-23.3	32.5	40.0	30.3	9.69	4.131	
1,000.0	1,000.0	998.0	1,000.0	4.8	4.8	125.68	-23.3	32.5	40.0	30.0	10.01	3.996	
1,100.0	1,100.0	1,098.0	1,100.0	5.0	5.0	125.68	-23.3	32.5	40.0	29.7	10.33	3.872	
1,200.0	1,200.0	1,198.0	1,200.0	5.2	5.2	125.68	-23.3	32.5	40.0	29.4	10.65	3.758	
1,300.0	1,300.0	1,298.0	1,300.0	5.3	5.3	125.68	-23.3	32.5	40.0	29.1	10.95	3.654	
1,400.0	1,400.0	1,398.0	1,400.0	5.5	5.5	125.68	-23.3	32.5	40.0	28.8	11.25	3.556	
1,500.0	1,500.0	1,498.0	1,500.0	5.6	5.6	125.68	-23.3	32.5	40.0	28.5	11.54	3.466	
1,600.0	1,600.0	1,598.0	1,600.0	5.8	5.8	125.68	-23.3	32.5	40.0	28.2	11.83	3.382	
1,700.0	1,700.0	1,698.0	1,700.0	5.9	5.9	125.68	-23.3	32.5	40.0	27.9	12.12	3.302	
1,800.0	1,800.0	1,798.0	1,800.0	6.0	6.0	125.68	-23.3	32.5	40.0	27.6	12.39	3.228	
1,900.0	1,900.0	1,898.0	1,900.0	6.2	6.2	125.68	-23.3	32.5	40.0	27.3	12.67	3.158	
2,000.0	2,000.0	1,998.0	2,000.0	6.3	6.3	125.68	-23.3	32.5	40.0	27.1	12.94	3.092	CC, ES, SF
2,100.0	2,100.0	2,098.3	2,100.3	6.5	6.5	-179.73	-22.1	32.8	41.3	28.0	13.28	3.112	
2,200.0	2,199.8	2,198.5	2,200.4	6.7	6.7	175.59	-18.4	33.8	45.5	31.8	13.62	3.336	
2,300.0	2,299.5	2,298.3	2,300.0	7.0	6.8	169.44	-12.1	35.5	52.8	38.9	13.97	3.783	
2,400.0	2,398.7	2,399.1	2,400.4	7.2	7.0	163.69	-3.5	37.0	63.2	48.9	14.27	4.426	
2,500.0	2,497.5	2,500.8	2,501.6	7.5	7.2	160.03	6.5	35.5	73.9	59.3	14.67	5.039	
2,600.0	2,595.6	2,603.0	2,603.1	7.8	7.4	157.81	17.9	30.5	84.6	69.5	15.06	5.616	
2,700.0	2,693.1	2,705.6	2,704.5	8.1	7.7	156.55	30.5	22.0	95.0	79.6	15.47	6.142	
2,757.7	2,748.9	2,765.0	2,763.0	8.2	7.8	156.15	38.4	15.6	100.9	85.2	15.67	6.441	
2,800.0	2,789.7	2,808.7	2,805.9	8.3	7.9	155.93	44.5	10.1	104.9	89.1	15.81	6.632	
2,900.0	2,886.2	2,912.3	2,907.2	8.6	8.2	155.21	59.8	-5.3	111.7	95.5	16.23	6.884	
3,000.0	2,982.8	3,016.3	3,008.1	8.9	8.5	154.20	76.3	-24.2	115.1	98.4	16.65	6.910	
3,100.0	3,079.3	3,117.2	3,105.4	9.2	8.8	152.99	93.3	-45.0	115.9	98.8	17.08	6.786	
3,200.0	3,175.8	3,217.1	3,201.7	9.6	9.1	151.80	110.1	-65.6	116.8	99.2	17.59	6.637	
3,300.0	3,272.3	3,317.1	3,298.1	9.9	9.4	150.62	126.9	-86.3	117.6	99.5	18.12	6.493	
3,400.0	3,368.9	3,417.1	3,394.5	10.3	9.7	149.47	143.7	-106.9	118.6	99.9	18.65	6.356	
3,500.0	3,465.4	3,517.0	3,490.8	10.6	10.1	148.33	160.5	-127.6	119.5	100.3	19.20	6.226	
3,600.0	3,561.9	3,617.0	3,587.2	11.0	10.4	147.21	177.3	-148.2	120.6	100.8	19.76	6.103	
3,700.0	3,658.4	3,717.0	3,683.5	11.4	10.8	146.11	194.1	-168.8	121.6	101.3	20.31	5.988	
3,800.0	3,755.0	3,816.9	3,779.9	11.8	11.2	145.03	210.9	-189.5	122.8	101.9	20.88	5.880	
3,900.0	3,851.5	3,916.9	3,876.3	12.2	11.6	143.97	227.7	-210.1	123.9	102.5	21.44	5.780	
4,000.0	3,948.0	4,016.9	3,972.6	12.6	12.0	142.92	244.5	-230.8	125.1	103.1	22.00	5.686	
4,100.0	4,044.5	4,116.8	4,069.0	13.1	12.4	141.90	261.3	-251.4	126.4	103.8	22.56	5.599	
4,200.0	4,141.0	4,216.8	4,165.3	13.5	12.8	140.90	278.1	-272.0	127.6	104.5	23.13	5.519	
4,300.0	4,237.6	4,316.8	4,261.7	13.9	13.2	139.92	294.9	-292.7	128.9	105.3	23.68	5.445	
4,400.0	4,334.1	4,416.7	4,358.1	14.4	13.6	138.96	311.7	-313.3	130.3	106.1	24.24	5.376	
4,500.0	4,430.6	4,516.7	4,454.4	14.8	14.0	138.02	328.5	-334.0	131.7	106.9	24.79	5.313	
4,600.0	4,527.1	4,616.7	4,550.8	15.2	14.5	137.10	345.3	-354.6	133.1	107.8	25.33	5.255	
4,700.0	4,623.7	4,716.6	4,647.1	15.7	14.9	136.20	362.1	-375.2	134.6	108.7	25.87	5.201	
4,800.0	4,720.2	4,816.6	4,743.5	16.1	15.4	135.32	378.9	-395.9	136.1	109.7	26.41	5.152	
4,900.0	4,816.7	4,916.6	4,839.9	16.6	15.8	134.45	395.7	-416.5	137.6	110.6	26.94	5.106	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 708H - 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
5,000.0	4,913.2	5,016.5	4,936.2	17.0	16.3	133.61	412.5	-437.2	139.1	111.7	27.47	5.065	
5,100.0	5,009.8	5,116.5	5,032.6	17.5	16.7	132.79	429.3	-457.8	140.7	112.7	27.99	5.027	
5,200.0	5,106.3	5,216.5	5,128.9	18.0	17.2	131.98	446.1	-478.4	142.3	113.8	28.51	4.992	
5,300.0	5,202.8	5,316.4	5,225.3	18.4	17.6	131.19	462.9	-499.1	144.0	114.9	29.03	4.960	
5,400.0	5,299.3	5,416.4	5,321.6	18.9	18.1	130.42	479.7	-519.7	145.6	116.1	29.53	4.931	
5,500.0	5,395.8	5,516.4	5,418.0	19.4	18.5	129.67	496.5	-540.4	147.3	117.3	30.04	4.904	
5,600.0	5,492.4	5,616.3	5,514.4	19.8	19.0	128.93	513.3	-561.0	149.0	118.5	30.54	4.880	
5,700.0	5,588.9	5,716.3	5,610.7	20.3	19.5	128.22	530.1	-581.7	150.8	119.7	31.04	4.858	
5,800.0	5,685.4	5,816.3	5,707.1	20.8	19.9	127.51	546.9	-602.3	152.5	121.0	31.53	4.838	
5,900.0	5,781.9	5,916.2	5,803.4	21.2	20.4	126.83	563.7	-622.9	154.3	122.3	32.02	4.820	
6,000.0	5,878.5	6,016.2	5,899.8	21.7	20.9	126.16	580.5	-643.6	156.1	123.6	32.51	4.803	
6,100.0	5,975.0	6,116.2	5,996.2	22.2	21.3	125.50	597.3	-664.2	158.0	125.0	32.99	4.788	
6,200.0	6,071.5	6,216.1	6,092.5	22.7	21.8	124.86	614.1	-684.9	159.8	126.3	33.47	4.775	
6,300.0	6,168.0	6,316.1	6,188.9	23.1	22.3	124.24	630.9	-705.5	161.7	127.7	33.95	4.763	
6,400.0	6,264.6	6,416.1	6,285.2	23.6	22.8	123.63	647.7	-726.1	163.6	129.1	34.42	4.752	
6,500.0	6,361.1	6,516.0	6,381.6	24.1	23.2	123.03	664.5	-746.8	165.5	130.6	34.89	4.742	
6,600.0	6,457.6	6,616.0	6,477.9	24.6	23.7	122.45	681.3	-767.4	167.4	132.0	35.36	4.734	
6,700.0	6,554.1	6,714.6	6,573.3	25.1	24.2	122.15	697.4	-787.1	169.7	133.8	35.90	4.728	
6,800.0	6,650.6	6,813.3	6,669.0	25.5	24.6	122.36	712.4	-805.6	172.8	136.3	36.58	4.726	
6,900.0	6,747.2	6,911.8	6,765.0	26.0	25.1	123.06	726.3	-822.7	176.8	139.4	37.39	4.727	
7,000.0	6,843.7	7,010.1	6,861.2	26.5	25.6	124.19	739.2	-838.5	181.5	143.2	38.35	4.733	
7,100.0	6,940.2	7,108.3	6,957.5	27.0	26.0	125.71	751.1	-853.0	187.2	147.8	39.45	4.746	
7,200.0	7,036.7	7,206.2	7,053.9	27.5	26.4	127.56	761.8	-866.2	194.0	153.3	40.69	4.766	
7,300.0	7,133.3	7,303.7	7,150.3	28.0	26.9	129.67	771.5	-878.1	201.8	159.8	42.05	4.799	
7,400.0	7,229.8	7,400.0	7,245.6	28.4	27.3	131.95	780.0	-888.6	211.0	167.5	43.50	4.850	
7,500.0	7,326.3	7,497.6	7,342.5	28.9	27.7	134.41	787.6	-898.0	221.5	176.5	45.06	4.916	
7,600.0	7,422.8	7,593.9	7,438.2	29.4	28.0	136.92	794.1	-905.9	233.6	186.9	46.64	5.007	
7,700.0	7,519.4	7,689.6	7,533.5	29.9	28.4	139.44	799.5	-912.6	247.2	198.9	48.23	5.124	
7,800.0	7,615.9	7,784.8	7,628.4	30.4	28.8	141.93	804.0	-918.0	262.4	212.6	49.80	5.269	
7,900.0	7,712.4	7,879.3	7,722.8	30.9	29.1	144.35	807.4	-922.2	279.4	228.0	51.32	5.443	
8,000.0	7,808.9	7,973.1	7,816.5	31.4	29.4	146.68	809.8	-925.2	298.1	245.3	52.77	5.648	
8,100.0	7,905.4	8,066.2	7,909.6	31.9	29.6	148.89	811.2	-926.9	318.5	264.3	54.13	5.884	
8,200.0	8,002.0	8,158.6	8,002.0	32.3	29.8	150.97	811.7	-927.5	340.6	285.3	55.34	6.156	
8,300.0	8,098.5	8,255.1	8,098.5	32.8	29.8	152.95	811.7	-927.5	363.9	307.4	56.51	6.440	
8,400.0	8,195.0	8,351.6	8,195.0	33.3	29.9	154.70	811.7	-927.5	387.5	329.9	57.59	6.729	
8,500.0	8,291.5	8,448.2	8,291.5	33.8	29.9	156.25	811.7	-927.5	411.4	352.8	58.60	7.021	
8,511.1	8,302.3	8,458.9	8,302.3	33.9	29.9	156.41	811.7	-927.5	414.1	355.4	58.71	7.054	
8,600.0	8,388.2	8,544.9	8,388.2	34.3	29.9	157.67	811.7	-927.5	435.0	375.5	59.54	7.306	
8,700.0	8,485.4	8,642.0	8,485.4	34.8	30.0	158.88	811.7	-927.5	457.2	396.8	60.40	7.570	
8,800.0	8,582.9	8,739.5	8,582.9	35.3	30.0	159.91	811.7	-927.5	477.9	416.7	61.19	7.811	
8,900.0	8,680.8	8,837.4	8,680.8	35.7	30.1	160.78	811.7	-927.5	497.2	435.3	61.94	8.028	
9,000.0	8,779.0	8,935.7	8,779.0	36.2	30.1	161.52	811.7	-927.5	514.9	452.3	62.64	8.220	
9,100.0	8,877.6	9,034.2	8,877.6	36.6	30.1	162.15	811.7	-927.5	531.0	467.7	63.30	8.389	
9,200.0	8,976.4	9,133.0	8,976.4	37.1	30.2	162.68	811.7	-927.5	545.6	481.6	63.93	8.534	
9,300.0	9,075.5	9,232.1	9,075.5	37.5	30.2	163.13	811.7	-927.5	558.5	494.0	64.52	8.656	
9,400.0	9,174.8	9,331.4	9,174.8	37.9	30.3	163.51	811.7	-927.5	569.8	504.7	65.09	8.754	
9,500.0	9,274.3	9,430.9	9,274.3	38.3	30.3	163.82	811.7	-927.5	579.4	513.8	65.62	8.830	
9,600.0	9,373.9	9,530.6	9,373.9	38.7	30.3	164.07	811.7	-927.5	587.4	521.3	66.12	8.884	
9,700.0	9,473.7	9,630.4	9,473.7	39.1	30.4	164.26	811.7	-927.5	593.7	527.1	66.59	8.917	
9,800.0	9,573.6	9,730.2	9,573.6	39.4	30.4	164.39	811.7	-927.5	598.4	531.4	67.01	8.929	
9,900.0	9,673.6	9,830.2	9,673.6	39.7	30.5	164.48	811.7	-927.5	601.3	533.9	67.39	8.923	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 708H - 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
10,000.0	9,773.6	9,930.2	9,773.6	39.9	30.5	164.52	811.7	-927.5	602.6	534.9	67.70	8.902	
10,026.4	9,800.0	9,956.6	9,800.0	40.0	30.5	108.21	811.7	-927.5	602.7	534.9	67.73	8.898	
10,100.0	9,873.6	10,030.2	9,873.6	40.0	30.5	108.21	811.7	-927.5	602.7	534.9	67.78	8.892	
10,200.0	9,973.6	10,130.2	9,973.6	40.0	30.6	108.21	811.7	-927.5	602.7	534.8	67.85	8.883	
10,300.0	10,073.6	10,230.2	10,073.6	40.0	30.6	108.21	811.7	-927.5	602.7	534.8	67.91	8.874	
10,400.0	10,173.6	10,330.2	10,173.6	40.1	30.7	108.21	811.7	-927.5	602.7	534.7	67.98	8.865	
10,500.0	10,273.6	10,430.2	10,273.6	40.1	30.7	108.21	811.7	-927.5	602.7	534.6	68.05	8.857	
10,600.0	10,373.6	10,530.2	10,373.6	40.1	30.7	108.21	811.7	-927.5	602.7	534.6	68.12	8.848	
10,700.0	10,473.6	10,630.2	10,473.6	40.2	30.8	108.21	811.7	-927.5	602.7	534.5	68.19	8.839	
10,800.0	10,573.6	10,730.2	10,573.6	40.2	30.8	108.21	811.7	-927.5	602.7	534.4	68.26	8.830	
10,900.0	10,673.6	10,830.2	10,673.6	40.2	30.9	108.21	811.7	-927.5	602.7	534.4	68.33	8.821	
11,000.0	10,773.6	10,930.2	10,773.6	40.2	30.9	108.21	811.7	-927.5	602.7	534.3	68.40	8.812	
11,100.0	10,873.6	11,030.2	10,873.6	40.3	31.0	108.21	811.7	-927.5	602.7	534.2	68.47	8.803	
11,200.0	10,973.6	11,130.2	10,973.6	40.3	31.0	108.21	811.7	-927.5	602.7	534.1	68.54	8.794	
11,300.0	11,073.6	11,230.2	11,073.6	40.3	31.0	108.21	811.7	-927.5	602.7	534.1	68.61	8.785	
11,400.0	11,173.6	11,330.2	11,173.6	40.4	31.1	108.21	811.7	-927.5	602.7	534.0	68.68	8.776	
11,500.0	11,273.6	11,430.2	11,273.6	40.4	31.1	108.21	811.7	-927.5	602.7	533.9	68.75	8.767	
11,600.0	11,373.6	11,530.2	11,373.6	40.4	31.2	108.21	811.7	-927.5	602.7	533.9	68.82	8.757	
11,700.0	11,473.6	11,630.2	11,473.6	40.5	31.2	108.21	811.7	-927.5	602.7	533.8	68.89	8.748	
11,710.0	11,483.6	11,640.2	11,483.6	40.5	31.2	108.21	811.7	-927.5	602.7	533.8	68.90	8.748	
11,800.0	11,573.6	11,725.0	11,568.3	40.5	31.2	108.32	810.5	-927.7	602.9	534.0	68.87	8.755	
11,900.0	11,673.6	11,804.6	11,647.0	40.5	31.0	109.44	798.6	-929.5	605.5	536.8	68.70	8.814	
12,000.0	11,773.6	11,879.6	11,718.1	40.6	30.8	111.58	775.8	-933.1	612.1	543.6	68.52	8.933	
12,100.0	11,873.6	11,945.9	11,777.5	40.6	30.6	114.26	746.6	-937.7	624.2	556.2	68.02	9.177	
12,200.0	11,973.5	12,000.0	11,822.5	40.6	30.5	116.91	716.9	-942.3	643.4	576.4	66.97	9.607	
12,208.9	11,982.5	12,007.7	11,828.6	40.6	30.5	117.31	712.4	-943.1	645.5	578.5	66.94	9.643	
12,225.0	11,998.5	12,016.0	11,835.1	40.6	30.5	-59.05	707.3	-943.8	649.3	582.6	66.71	9.732	
12,250.0	12,023.5	12,025.0	11,842.1	40.6	30.5	-57.97	701.6	-944.7	655.1	588.9	66.21	9.894	
12,275.0	12,048.3	12,041.7	11,854.7	40.5	30.4	-56.58	690.8	-946.4	660.7	594.8	65.88	10.029	
12,300.0	12,073.0	12,050.0	11,860.8	40.4	30.4	-55.64	685.2	-947.3	666.1	600.8	65.30	10.202	
12,325.0	12,097.4	12,067.4	11,873.3	40.4	30.4	-54.35	673.3	-949.2	671.3	606.4	64.93	10.339	
12,350.0	12,121.5	12,080.2	11,882.3	40.3	30.3	-53.33	664.2	-950.6	676.2	611.8	64.43	10.496	
12,375.0	12,145.2	12,093.0	11,890.9	40.2	30.3	-52.37	654.9	-952.0	680.9	617.0	63.91	10.654	
12,400.0	12,168.5	12,105.8	11,899.3	40.2	30.3	-51.47	645.4	-953.5	685.2	621.8	63.38	10.811	
12,425.0	12,191.3	12,118.5	11,907.4	40.1	30.3	-50.63	635.8	-955.0	689.2	626.4	62.85	10.966	
12,450.0	12,213.4	12,131.2	11,915.3	40.0	30.2	-49.85	625.9	-956.6	692.9	630.5	62.31	11.120	
12,475.0	12,235.0	12,143.9	11,922.8	39.9	30.2	-49.14	615.8	-958.2	696.1	634.4	61.77	11.270	
12,500.0	12,255.9	12,156.6	11,930.1	39.9	30.2	-48.48	605.5	-959.8	699.0	637.8	61.23	11.416	
12,525.0	12,276.0	12,169.2	11,937.1	39.8	30.2	-47.88	595.1	-961.4	701.5	640.8	60.70	11.558	
12,550.0	12,295.3	12,181.9	11,943.8	39.7	30.1	-47.34	584.5	-963.1	703.6	643.5	60.17	11.694	
12,575.0	12,313.7	12,200.0	11,952.9	39.6	30.1	-46.72	569.0	-965.5	705.3	645.6	59.75	11.805	
12,600.0	12,331.3	12,207.1	11,956.3	39.6	30.1	-46.44	562.9	-966.5	706.5	647.4	59.14	11.947	
12,625.0	12,347.9	12,225.0	11,964.4	39.5	30.1	-45.95	547.1	-968.9	707.4	648.6	58.73	12.044	
12,650.0	12,363.4	12,232.3	11,967.6	39.5	30.1	-45.76	540.7	-969.9	707.7	649.5	58.16	12.168	
12,675.0	12,378.0	12,250.0	11,974.8	39.4	30.1	-45.40	524.7	-972.4	707.6	649.8	57.77	12.249	
12,700.0	12,391.4	12,257.4	11,977.7	39.4	30.1	-45.31	517.9	-973.5	707.0	649.7	57.24	12.352	
12,725.0	12,403.8	12,275.0	11,984.0	39.3	30.1	-45.07	501.7	-976.0	706.0	649.1	56.87	12.414	
12,750.0	12,415.0	12,282.5	11,986.5	39.3	30.0	-45.08	494.8	-977.1	704.4	648.0	56.38	12.494	
12,775.0	12,425.0	12,300.0	11,992.0	39.3	30.0	-44.97	478.3	-979.7	702.5	646.4	56.04	12.535	
12,800.0	12,433.8	12,307.5	11,994.1	39.2	30.0	-45.08	471.2	-980.8	700.0	644.4	55.59	12.591	
12,825.0	12,441.3	12,325.0	11,998.7	39.2	30.0	-45.10	454.5	-983.4	697.1	641.8	55.29	12.608	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 708H - 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
12,850.0	12,447.6	12,332.5	12,000.4	39.2	30.0	-45.31	447.3	-984.6	693.6	638.7	54.88	12.638	
12,875.0	12,452.6	12,350.0	12,004.1	39.2	30.0	-45.46	430.4	-987.2	689.8	635.1	54.61	12.631	
12,900.0	12,456.3	12,357.5	12,005.5	39.2	30.0	-45.78	423.1	-988.3	685.4	631.1	54.24	12.635	
12,925.0	12,458.8	12,375.0	12,008.3	39.2	30.0	-46.07	406.0	-991.0	680.6	626.6	54.01	12.602	
12,950.0	12,459.9	12,382.4	12,009.2	39.2	30.0	-46.50	398.8	-992.2	675.3	621.6	53.68	12.579	
12,958.9	12,460.0	12,386.9	12,009.8	39.2	30.0	-46.65	394.4	-992.8	673.3	619.7	53.59	12.564	
13,000.0	12,460.0	12,407.5	12,011.7	39.2	30.0	-46.56	374.1	-996.0	664.7	611.5	53.16	12.502	
13,100.0	12,460.0	12,468.7	12,013.0	39.3	30.1	-45.98	313.7	-1,005.4	648.9	596.6	52.25	12.419	
13,200.0	12,460.0	12,553.6	12,013.0	39.4	30.2	-45.16	229.5	-1,016.5	637.2	585.5	51.67	12.332	
13,300.0	12,460.0	12,639.4	12,013.0	39.5	30.3	-44.51	144.1	-1,025.2	628.5	577.2	51.24	12.265	
13,400.0	12,460.0	12,725.9	12,013.0	39.7	30.4	-44.05	57.9	-1,031.3	622.5	571.6	50.94	12.222	
13,449.1	12,460.0	12,768.5	12,013.0	39.7	30.5	-43.90	15.4	-1,033.4	620.7	569.8	50.83	12.210	
13,500.0	12,460.0	12,812.7	12,013.0	39.8	30.6	-43.79	-28.9	-1,034.9	619.3	568.6	50.75	12.203	
13,600.0	12,460.0	12,905.2	12,013.0	40.0	30.7	-43.70	-121.3	-1,035.8	618.3	567.6	50.70	12.195	
13,605.5	12,460.0	12,905.2	12,013.0	40.0	30.7	-43.70	-121.3	-1,035.8	618.3	567.6	50.68	12.199	
13,700.0	12,460.0	12,998.9	12,013.0	40.2	30.9	-43.71	-215.0	-1,035.2	618.4	567.7	50.73	12.190	
13,800.0	12,460.0	13,098.9	12,013.0	40.4	31.1	-43.72	-315.0	-1,034.6	618.5	567.7	50.84	12.167	
13,900.0	12,460.0	13,198.9	12,013.0	40.6	31.3	-43.73	-415.0	-1,034.0	618.6	567.6	51.00	12.129	
14,000.0	12,460.0	13,298.9	12,013.0	40.8	31.5	-43.75	-515.0	-1,033.3	618.8	567.5	51.23	12.078	
14,100.0	12,460.0	13,398.9	12,013.0	41.1	31.8	-43.76	-615.0	-1,032.7	618.9	567.4	51.51	12.014	
14,200.0	12,460.0	13,498.9	12,013.0	41.4	32.1	-43.77	-715.0	-1,032.1	619.0	567.2	51.85	11.938	
14,300.0	12,460.0	13,598.9	12,013.0	41.7	32.4	-43.78	-815.0	-1,031.4	619.2	566.9	52.25	11.850	
14,400.0	12,460.0	13,698.9	12,013.0	42.0	32.7	-43.80	-915.0	-1,030.8	619.3	566.6	52.70	11.752	
14,500.0	12,460.0	13,798.9	12,013.0	42.3	33.1	-43.81	-1,015.0	-1,030.2	619.4	566.2	53.20	11.643	
14,600.0	12,460.0	13,898.9	12,013.0	42.7	33.4	-43.82	-1,115.0	-1,029.5	619.5	565.8	53.75	11.526	
14,700.0	12,460.0	13,998.9	12,013.0	43.0	33.8	-43.83	-1,215.0	-1,028.9	619.7	565.3	54.35	11.401	
14,800.0	12,460.0	14,098.9	12,013.0	43.4	34.2	-43.85	-1,315.0	-1,028.3	619.8	564.8	55.00	11.268	
14,900.0	12,460.0	14,198.9	12,013.0	43.8	34.7	-43.86	-1,415.0	-1,027.6	619.9	564.2	55.70	11.130	
15,000.0	12,460.0	14,298.9	12,013.0	44.3	35.1	-43.87	-1,515.0	-1,027.0	620.1	563.6	56.44	10.986	
15,100.0	12,460.0	14,398.9	12,013.0	44.7	35.6	-43.88	-1,615.0	-1,026.4	620.2	563.0	57.23	10.837	
15,200.0	12,460.0	14,498.9	12,013.0	45.1	36.1	-43.90	-1,715.0	-1,025.8	620.3	562.3	58.05	10.685	
15,300.0	12,460.0	14,598.9	12,013.0	45.6	36.7	-43.91	-1,815.0	-1,025.1	620.4	561.5	58.92	10.531	
15,400.0	12,460.0	14,698.9	12,013.0	46.1	37.2	-43.92	-1,915.0	-1,024.5	620.6	560.8	59.82	10.374	
15,500.0	12,460.0	14,798.9	12,013.0	46.6	37.8	-43.93	-2,015.0	-1,023.9	620.7	559.9	60.76	10.216	
15,600.0	12,460.0	14,898.9	12,013.0	47.1	38.3	-43.95	-2,115.0	-1,023.2	620.8	559.1	61.73	10.057	
15,700.0	12,460.0	14,998.9	12,013.0	47.6	38.9	-43.96	-2,215.0	-1,022.6	621.0	558.2	62.74	9.898	
15,800.0	12,460.0	15,098.9	12,013.0	48.2	39.6	-43.97	-2,315.0	-1,022.0	621.1	557.3	63.78	9.739	
15,900.0	12,460.0	15,198.9	12,013.0	48.7	40.2	-43.98	-2,415.0	-1,021.3	621.2	556.4	64.84	9.580	
16,000.0	12,460.0	15,298.9	12,013.0	49.3	40.8	-43.99	-2,515.0	-1,020.7	621.3	555.4	65.94	9.423	
16,100.0	12,460.0	15,398.9	12,013.0	49.9	41.5	-44.01	-2,615.0	-1,020.1	621.5	554.4	67.06	9.267	
16,200.0	12,460.0	15,498.9	12,013.0	50.5	42.2	-44.02	-2,715.0	-1,019.5	621.6	553.4	68.21	9.113	
16,300.0	12,460.0	15,598.9	12,013.0	51.1	42.9	-44.03	-2,815.0	-1,018.8	621.7	552.4	69.38	8.961	
16,400.0	12,460.0	15,698.9	12,013.0	51.7	43.6	-44.04	-2,915.0	-1,018.2	621.9	551.3	70.58	8.811	
16,500.0	12,460.0	15,798.9	12,013.0	52.3	44.3	-44.06	-3,015.0	-1,017.6	622.0	550.2	71.79	8.664	
16,600.0	12,460.0	15,898.9	12,013.0	53.0	45.0	-44.07	-3,115.0	-1,016.9	622.1	549.1	73.03	8.519	
16,700.0	12,460.0	15,998.9	12,013.0	53.6	45.7	-44.08	-3,215.0	-1,016.3	622.3	548.0	74.29	8.376	
16,800.0	12,460.0	16,098.9	12,013.0	54.3	46.5	-44.09	-3,315.0	-1,015.7	622.4	546.8	75.57	8.236	
16,900.0	12,460.0	16,198.9	12,013.0	55.0	47.2	-44.11	-3,415.0	-1,015.0	622.5	545.7	76.86	8.099	
17,000.0	12,460.0	16,298.9	12,013.0	55.7	48.0	-44.12	-3,515.0	-1,014.4	622.6	544.5	78.17	7.965	
17,100.0	12,460.0	16,398.9	12,013.0	56.4	48.8	-44.13	-3,615.0	-1,013.8	622.8	543.3	79.50	7.834	
17,200.0	12,460.0	16,498.9	12,013.0	57.1	49.5	-44.14	-3,715.0	-1,013.1	622.9	542.1	80.84	7.705	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 708H - 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
17,300.0	12,460.0	16,598.9	12,013.0	57.8	50.3	-44.15	-3,815.0	-1,012.5	623.0	540.8	82.20	7.579	
17,400.0	12,460.0	16,698.9	12,013.0	58.5	51.1	-44.17	-3,915.0	-1,011.9	623.2	539.6	83.57	7.457	
17,500.0	12,460.0	16,798.9	12,013.0	59.2	51.9	-44.18	-4,015.0	-1,011.3	623.3	538.3	84.96	7.336	
17,600.0	12,460.0	16,898.9	12,013.0	59.9	52.7	-44.19	-4,115.0	-1,010.6	623.4	537.1	86.36	7.219	
17,700.0	12,460.0	16,998.9	12,013.0	60.7	53.5	-44.20	-4,215.0	-1,010.0	623.6	535.8	87.77	7.105	
17,800.0	12,460.0	17,098.9	12,013.0	61.4	54.3	-44.22	-4,314.9	-1,009.4	623.7	534.5	89.19	6.993	
17,900.0	12,460.0	17,198.9	12,013.0	62.2	55.2	-44.23	-4,414.9	-1,008.7	623.8	533.2	90.62	6.884	
18,000.0	12,460.0	17,298.9	12,013.0	62.9	56.0	-44.24	-4,514.9	-1,008.1	623.9	531.9	92.06	6.777	
18,100.0	12,460.0	17,398.9	12,013.0	63.7	56.8	-44.25	-4,614.9	-1,007.5	624.1	530.6	93.51	6.674	
18,200.0	12,460.0	17,498.9	12,013.0	64.5	57.7	-44.27	-4,714.9	-1,006.8	624.2	529.2	94.98	6.572	
18,300.0	12,460.0	17,598.9	12,013.0	65.2	58.5	-44.28	-4,814.9	-1,006.2	624.3	527.9	96.45	6.473	
18,400.0	12,460.0	17,698.9	12,013.0	66.0	59.4	-44.29	-4,914.9	-1,005.6	624.5	526.5	97.93	6.377	
18,500.0	12,460.0	17,798.9	12,013.0	66.8	60.2	-44.30	-5,014.9	-1,004.9	624.6	525.2	99.42	6.283	
18,600.0	12,460.0	17,898.9	12,013.0	67.6	61.1	-44.31	-5,114.9	-1,004.3	624.7	523.8	100.91	6.191	
18,700.0	12,460.0	17,998.9	12,013.0	68.4	61.9	-44.33	-5,214.9	-1,003.7	624.9	522.4	102.42	6.101	
18,800.0	12,460.0	18,098.9	12,013.0	69.2	62.8	-44.34	-5,314.9	-1,003.1	625.0	521.1	103.93	6.014	
18,900.0	12,460.0	18,198.9	12,013.0	70.0	63.6	-44.35	-5,414.9	-1,002.4	625.1	519.7	105.44	5.928	
19,000.0	12,460.0	18,298.9	12,013.0	70.8	64.5	-44.36	-5,514.9	-1,001.8	625.2	518.3	106.97	5.845	
19,100.0	12,460.0	18,398.9	12,013.0	71.6	65.4	-44.38	-5,614.9	-1,001.2	625.4	516.9	108.50	5.764	
19,200.0	12,460.0	18,498.9	12,013.0	72.4	66.2	-44.39	-5,714.9	-1,000.5	625.5	515.5	110.04	5.685	
19,300.0	12,460.0	18,598.9	12,013.0	73.3	67.1	-44.40	-5,814.9	-999.9	625.6	514.1	111.58	5.607	
19,400.0	12,460.0	18,698.9	12,013.0	74.1	68.0	-44.41	-5,914.9	-999.3	625.8	512.6	113.13	5.531	
19,500.0	12,460.0	18,798.9	12,013.0	74.9	68.9	-44.42	-6,014.9	-998.6	625.9	511.2	114.68	5.458	
19,600.0	12,460.0	18,898.9	12,013.0	75.8	69.8	-44.44	-6,114.9	-998.0	626.0	509.8	116.24	5.386	
19,700.0	12,460.0	18,998.9	12,013.0	76.6	70.6	-44.45	-6,214.9	-997.4	626.2	508.4	117.81	5.315	
19,800.0	12,460.0	19,098.9	12,013.0	77.4	71.5	-44.46	-6,314.9	-996.8	626.3	506.9	119.38	5.246	
19,900.0	12,460.0	19,198.9	12,013.0	78.3	72.4	-44.47	-6,414.9	-996.1	626.4	505.5	120.95	5.179	
20,000.0	12,460.0	19,298.9	12,013.0	79.1	73.3	-44.49	-6,514.9	-995.5	626.6	504.0	122.53	5.114	
20,100.0	12,460.0	19,398.9	12,013.0	80.0	74.2	-44.50	-6,614.9	-994.9	626.7	502.6	124.11	5.049	
20,200.0	12,460.0	19,498.9	12,013.0	80.8	75.1	-44.51	-6,714.9	-994.2	626.8	501.1	125.70	4.987	
20,300.0	12,460.0	19,598.9	12,013.0	81.7	76.0	-44.52	-6,814.9	-993.6	626.9	499.7	127.29	4.925	
20,400.0	12,460.0	19,698.9	12,013.0	82.5	76.9	-44.53	-6,914.9	-993.0	627.1	498.2	128.88	4.865	
20,500.0	12,460.0	19,798.9	12,013.0	83.4	77.8	-44.55	-7,014.9	-992.3	627.2	496.7	130.48	4.807	
20,513.9	12,460.0	19,812.8	12,013.0	83.5	77.9	-44.55	-7,028.8	-992.2	627.2	496.6	130.66	4.800	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 709H - 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	2.2	3.0	3.0	125.69	-35.0	48.7	60.0				
100.0	100.0	97.8	100.0	3.1	3.1	125.69	-35.0	48.7	60.0	53.4	6.60	9.089	
200.0	200.0	197.8	200.0	3.3	3.3	125.69	-35.0	48.7	60.0	52.9	7.05	8.508	
300.0	300.0	297.8	300.0	3.5	3.5	125.69	-35.0	48.7	60.0	52.5	7.47	8.022	
400.0	400.0	397.8	400.0	3.8	3.7	125.69	-35.0	48.7	60.0	52.1	7.88	7.609	
500.0	500.0	497.8	500.0	4.0	3.9	125.69	-35.0	48.7	60.0	51.7	8.27	7.251	
600.0	600.0	597.8	600.0	4.1	4.1	125.69	-35.0	48.7	60.0	51.3	8.64	6.939	
700.0	700.0	697.8	700.0	4.3	4.3	125.69	-35.0	48.7	60.0	51.0	9.00	6.662	
800.0	800.0	797.8	800.0	4.5	4.5	125.69	-35.0	48.7	60.0	50.6	9.35	6.414	
900.0	900.0	897.8	900.0	4.7	4.7	125.69	-35.0	48.7	60.0	50.3	9.69	6.190	
1,000.0	1,000.0	997.8	1,000.0	4.8	4.8	125.69	-35.0	48.7	60.0	49.9	10.01	5.987	
1,100.0	1,100.0	1,097.8	1,100.0	5.0	5.0	125.69	-35.0	48.7	60.0	49.6	10.33	5.802	
1,200.0	1,200.0	1,197.8	1,200.0	5.2	5.2	125.69	-35.0	48.7	60.0	49.3	10.65	5.632	
1,300.0	1,300.0	1,297.8	1,300.0	5.3	5.3	125.69	-35.0	48.7	60.0	49.0	10.95	5.475	
1,400.0	1,400.0	1,397.8	1,400.0	5.5	5.5	125.69	-35.0	48.7	60.0	48.7	11.25	5.329	
1,500.0	1,500.0	1,497.8	1,500.0	5.6	5.6	125.69	-35.0	48.7	60.0	48.4	11.54	5.193	
1,600.0	1,600.0	1,597.8	1,600.0	5.8	5.8	125.69	-35.0	48.7	60.0	48.1	11.83	5.067	
1,700.0	1,700.0	1,697.8	1,700.0	5.9	5.9	125.69	-35.0	48.7	60.0	47.8	12.12	4.948	
1,800.0	1,800.0	1,797.8	1,800.0	6.0	6.0	125.69	-35.0	48.7	60.0	47.6	12.39	4.837	
1,900.0	1,900.0	1,897.8	1,900.0	6.2	6.2	125.69	-35.0	48.7	60.0	47.3	12.67	4.732	
2,000.0	2,000.0	1,997.8	2,000.0	6.3	6.3	125.69	-35.0	48.7	60.0	47.0	12.94	4.633 CC, ES	
2,100.0	2,100.0	2,098.1	2,100.2	6.5	6.5	-179.20	-33.8	49.2	61.5	48.2	13.28	4.629 SF	
2,200.0	2,199.8	2,198.1	2,200.2	6.7	6.7	177.41	-30.3	50.9	66.2	52.6	13.62	4.860	
2,300.0	2,299.5	2,297.7	2,299.6	7.0	6.8	172.74	-24.5	53.6	74.4	60.5	13.97	5.330	
2,400.0	2,398.7	2,398.7	2,400.2	7.2	7.0	167.91	-16.3	56.6	85.9	71.6	14.29	6.012	
2,500.0	2,497.5	2,501.0	2,502.0	7.5	7.2	164.22	-6.1	56.8	97.9	83.2	14.70	6.658	
2,600.0	2,595.6	2,603.8	2,604.1	7.8	7.4	161.43	6.0	53.8	110.0	94.9	15.10	7.284	
2,700.0	2,693.1	2,707.0	2,706.1	8.1	7.7	159.27	19.9	47.5	122.2	106.6	15.51	7.875	
2,757.7	2,748.9	2,766.7	2,765.0	8.2	7.8	158.25	28.8	42.5	129.1	113.4	15.70	8.223	
2,800.0	2,789.7	2,810.7	2,808.1	8.3	7.9	157.57	35.7	38.1	133.9	118.1	15.82	8.464	
2,900.0	2,886.2	2,910.8	2,906.2	8.6	8.1	156.02	52.1	26.9	144.2	128.0	16.19	8.903	
3,000.0	2,982.8	3,010.2	3,003.7	8.9	8.4	154.68	68.4	15.9	154.5	137.8	16.62	9.293	
3,100.0	3,079.3	3,109.6	3,101.1	9.2	8.7	153.51	84.7	4.8	164.8	147.7	17.07	9.657	
3,200.0	3,175.8	3,209.0	3,198.5	9.6	9.0	152.48	101.0	-6.3	175.2	157.7	17.53	9.995	
3,300.0	3,272.3	3,308.4	3,296.0	9.9	9.3	151.56	117.3	-17.4	185.7	167.7	18.01	10.309	
3,400.0	3,368.9	3,407.8	3,393.4	10.3	9.6	150.75	133.6	-28.5	196.2	177.7	18.51	10.601	
3,500.0	3,465.4	3,507.2	3,490.9	10.6	10.0	150.01	149.9	-39.5	206.8	187.8	19.02	10.872	
3,600.0	3,561.9	3,606.6	3,588.3	11.0	10.3	149.35	166.2	-50.6	217.4	197.8	19.54	11.123	
3,700.0	3,658.4	3,706.0	3,685.7	11.4	10.7	148.75	182.5	-61.7	228.0	207.9	20.07	11.357	
3,800.0	3,755.0	3,805.4	3,783.2	11.8	11.0	148.20	198.8	-72.8	238.6	218.0	20.61	11.574	
3,900.0	3,851.5	3,904.9	3,880.6	12.2	11.4	147.70	215.1	-83.9	249.2	228.1	21.17	11.776	
4,000.0	3,948.0	4,004.3	3,978.0	12.6	11.8	147.24	231.4	-94.9	259.9	238.2	21.72	11.964	
4,100.0	4,044.5	4,103.7	4,075.5	13.1	12.1	146.82	247.7	-106.0	270.6	248.3	22.29	12.139	
4,200.0	4,141.0	4,203.1	4,172.9	13.5	12.5	146.42	264.0	-117.1	281.3	258.4	22.86	12.302	
4,300.0	4,237.6	4,302.5	4,270.3	13.9	12.9	146.06	280.3	-128.2	292.0	268.6	23.44	12.455	
4,400.0	4,334.1	4,401.9	4,367.8	14.4	13.3	145.72	296.6	-139.3	302.7	278.7	24.03	12.597	
4,500.0	4,430.6	4,501.3	4,465.2	14.8	13.7	145.41	312.9	-150.3	313.4	288.8	24.62	12.731	
4,600.0	4,527.1	4,600.7	4,562.6	15.2	14.1	145.12	329.2	-161.4	324.2	299.0	25.22	12.855	
4,700.0	4,623.7	4,700.1	4,660.1	15.7	14.6	144.84	345.4	-172.5	334.9	309.1	25.82	12.972	
4,800.0	4,720.2	4,799.5	4,757.5	16.1	15.0	144.58	361.7	-183.6	345.7	319.3	26.42	13.082	
4,900.0	4,816.7	4,898.9	4,855.0	16.6	15.4	144.34	378.0	-194.7	356.4	329.4	27.03	13.185	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 709H - 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
5,000.0	4,913.2	4,998.4	4,952.4	17.0	15.8	144.11	394.3	-205.7	367.2	339.6	27.65	13.282	
5,100.0	5,009.8	5,097.8	5,049.8	17.5	16.2	143.90	410.6	-216.8	378.0	349.7	28.26	13.374	
5,200.0	5,106.3	5,197.2	5,147.3	18.0	16.7	143.70	426.9	-227.9	388.7	359.9	28.88	13.460	
5,300.0	5,202.8	5,296.6	5,244.7	18.4	17.1	143.51	443.2	-239.0	399.5	370.0	29.50	13.541	
5,400.0	5,299.3	5,396.0	5,342.1	18.9	17.5	143.32	459.5	-250.1	410.3	380.2	30.13	13.618	
5,500.0	5,395.8	5,495.4	5,439.6	19.4	17.9	143.15	475.8	-261.1	421.1	390.3	30.76	13.691	
5,600.0	5,492.4	5,594.8	5,537.0	19.8	18.4	142.99	492.1	-272.2	431.9	400.5	31.39	13.759	
5,700.0	5,588.9	5,694.2	5,634.4	20.3	18.8	142.83	508.4	-283.3	442.7	410.7	32.02	13.825	
5,800.0	5,685.4	5,793.6	5,731.9	20.8	19.3	142.68	524.7	-294.4	453.5	420.8	32.66	13.887	
5,900.0	5,781.9	5,893.0	5,829.3	21.2	19.7	142.54	541.0	-305.5	464.3	431.0	33.29	13.945	
6,000.0	5,878.5	5,992.4	5,926.7	21.7	20.1	142.41	557.3	-316.5	475.1	441.2	33.93	14.001	
6,100.0	5,975.0	6,091.8	6,024.2	22.2	20.6	142.28	573.6	-327.6	485.9	451.3	34.57	14.054	
6,200.0	6,071.5	6,191.3	6,121.6	22.7	21.0	142.15	589.9	-338.7	496.7	461.5	35.22	14.105	
6,300.0	6,168.0	6,290.7	6,219.1	23.1	21.5	142.04	606.2	-349.8	507.5	471.6	35.86	14.153	
6,400.0	6,264.6	6,390.1	6,316.5	23.6	21.9	141.92	622.5	-360.9	518.3	481.8	36.51	14.199	
6,500.0	6,361.1	6,489.5	6,413.9	24.1	22.3	141.81	638.8	-371.9	529.1	492.0	37.15	14.242	
6,600.0	6,457.6	6,588.9	6,511.4	24.6	22.8	141.71	655.1	-383.0	540.0	502.1	37.80	14.284	
6,700.0	6,554.1	6,688.3	6,608.8	25.1	23.2	141.61	671.4	-394.1	550.8	512.3	38.45	14.324	
6,800.0	6,650.6	6,787.7	6,706.2	25.5	23.7	141.51	687.7	-405.2	561.6	522.5	39.10	14.362	
6,900.0	6,747.2	6,887.1	6,803.7	26.0	24.1	141.42	704.0	-416.2	572.4	532.7	39.75	14.399	
7,000.0	6,843.7	6,984.8	6,899.4	26.5	24.6	141.34	719.9	-427.1	583.3	542.9	40.38	14.443	
7,100.0	6,940.2	7,079.3	6,992.3	27.0	25.0	141.37	734.3	-436.9	594.8	553.8	41.04	14.492	
7,200.0	7,036.7	7,173.6	7,085.3	27.5	25.4	141.53	747.5	-445.8	607.1	565.4	41.74	14.545	
7,300.0	7,133.3	7,267.6	7,178.2	28.0	25.8	141.80	759.3	-453.8	620.3	577.8	42.47	14.604	
7,400.0	7,229.8	7,361.4	7,271.1	28.4	26.2	142.19	769.8	-461.0	634.3	591.1	43.24	14.669	
7,500.0	7,326.3	7,454.7	7,363.8	28.9	26.6	142.67	779.0	-467.2	649.2	605.1	44.04	14.742	
7,600.0	7,422.8	7,547.7	7,456.2	29.4	26.9	143.25	787.0	-472.7	664.9	620.1	44.86	14.822	
7,700.0	7,519.4	7,640.2	7,548.3	29.9	27.3	143.90	793.6	-477.2	681.6	635.9	45.71	14.911	
7,800.0	7,615.9	7,732.1	7,640.1	30.4	27.6	144.62	799.0	-480.9	699.2	652.7	46.58	15.011	
7,900.0	7,712.4	7,823.6	7,731.4	30.9	27.9	145.41	803.2	-483.7	717.9	670.4	47.47	15.123	
8,000.0	7,808.9	7,914.5	7,822.2	31.4	28.2	146.25	806.2	-485.7	737.5	689.2	48.37	15.249	
8,100.0	7,905.4	8,004.7	7,912.4	31.9	28.5	147.13	807.9	-486.9	758.3	709.0	49.27	15.391	
8,200.0	8,002.0	8,094.5	8,002.2	32.3	28.6	148.04	808.5	-487.3	780.1	730.0	50.13	15.561	
8,300.0	8,098.5	8,190.8	8,098.5	32.8	28.7	149.02	808.5	-487.3	802.6	751.5	51.08	15.713	
8,400.0	8,195.0	8,287.3	8,195.0	33.3	28.7	149.95	808.5	-487.3	825.3	773.3	51.98	15.878	
8,500.0	8,291.5	8,383.8	8,291.5	33.8	28.8	150.82	808.5	-487.3	848.2	795.4	52.86	16.047	
8,511.1	8,302.3	8,394.6	8,302.3	33.9	28.8	150.92	808.5	-487.3	850.8	797.8	52.95	16.067	
8,600.0	8,388.2	8,480.5	8,388.2	34.3	28.8	151.73	808.5	-487.3	870.7	817.0	53.72	16.209	
8,700.0	8,485.4	8,577.7	8,485.4	34.8	28.9	152.55	808.5	-487.3	891.9	837.4	54.54	16.355	
8,800.0	8,582.9	8,675.2	8,582.9	35.3	28.9	153.28	808.5	-487.3	911.7	856.4	55.31	16.482	
8,900.0	8,680.8	8,773.1	8,680.8	35.7	28.9	153.92	808.5	-487.3	930.0	874.0	56.06	16.590	
9,000.0	8,779.0	8,871.3	8,779.0	36.2	29.0	154.49	808.5	-487.3	946.9	890.1	56.77	16.679	
9,100.0	8,877.6	8,969.9	8,877.6	36.6	29.0	154.99	808.5	-487.3	962.3	904.8	57.45	16.749	
9,200.0	8,976.4	9,068.7	8,976.4	37.1	29.1	155.43	808.5	-487.3	976.1	918.0	58.10	16.800	
9,300.0	9,075.5	9,167.8	9,075.5	37.5	29.1	155.80	808.5	-487.3	988.5	929.7	58.72	16.833	
9,400.0	9,174.8	9,267.1	9,174.8	37.9	29.2	156.12	808.5	-487.3	999.2	939.9	59.31	16.847	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 710H - 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	2.5	3.0	3.0	125.77	-46.7	64.9	80.0				
100.0	100.0	97.5	100.0	3.1	3.1	125.77	-46.7	64.9	80.0	73.4	6.60	12.124	
200.0	200.0	197.5	200.0	3.3	3.3	125.77	-46.7	64.9	80.0	72.9	7.05	11.350	
300.0	300.0	297.5	300.0	3.5	3.5	125.77	-46.7	64.9	80.0	72.5	7.47	10.700	
400.0	400.0	397.5	400.0	3.8	3.7	125.77	-46.7	64.9	80.0	72.1	7.88	10.149	
500.0	500.0	497.5	500.0	4.0	3.9	125.77	-46.7	64.9	80.0	71.7	8.27	9.672	
600.0	600.0	597.5	600.0	4.1	4.1	125.77	-46.7	64.9	80.0	71.3	8.64	9.255	
700.0	700.0	697.5	700.0	4.3	4.3	125.77	-46.7	64.9	80.0	71.0	9.00	8.886	
800.0	800.0	797.5	800.0	4.5	4.5	125.77	-46.7	64.9	80.0	70.6	9.35	8.555	
900.0	900.0	897.5	900.0	4.7	4.7	125.77	-46.7	64.9	80.0	70.3	9.68	8.257	
1,000.0	1,000.0	997.5	1,000.0	4.8	4.8	125.77	-46.7	64.9	80.0	69.9	10.01	7.986	
1,100.0	1,100.0	1,097.5	1,100.0	5.0	5.0	125.77	-46.7	64.9	80.0	69.6	10.33	7.739	
1,200.0	1,200.0	1,197.5	1,200.0	5.2	5.2	125.77	-46.7	64.9	80.0	69.3	10.65	7.512	
1,300.0	1,300.0	1,297.5	1,300.0	5.3	5.3	125.77	-46.7	64.9	80.0	69.0	10.95	7.302	
1,400.0	1,400.0	1,397.5	1,400.0	5.5	5.5	125.77	-46.7	64.9	80.0	68.7	11.25	7.108	
1,500.0	1,500.0	1,497.5	1,500.0	5.6	5.6	125.77	-46.7	64.9	80.0	68.4	11.54	6.927	
1,600.0	1,600.0	1,597.5	1,600.0	5.8	5.8	125.77	-46.7	64.9	80.0	68.1	11.83	6.758	
1,700.0	1,700.0	1,697.5	1,700.0	5.9	5.9	125.77	-46.7	64.9	80.0	67.8	12.12	6.600	
1,800.0	1,800.0	1,797.5	1,800.0	6.0	6.0	125.77	-46.7	64.9	80.0	67.6	12.39	6.452	
1,900.0	1,900.0	1,897.5	1,900.0	6.2	6.2	125.77	-46.7	64.9	80.0	67.3	12.67	6.312	
2,000.0	2,000.0	1,997.5	2,000.0	6.3	6.3	125.77	-46.7	64.9	80.0	67.0	12.94	6.180 CC, ES	
2,100.0	2,100.0	2,097.5	2,100.0	6.5	6.4	-177.96	-46.7	64.9	81.7	68.4	13.28	6.153 SF	
2,200.0	2,199.8	2,197.3	2,199.8	6.7	6.6	-178.08	-46.7	64.9	86.9	73.3	13.62	6.382	
2,300.0	2,299.5	2,297.0	2,299.5	7.0	6.7	-178.25	-46.7	64.9	95.6	81.7	13.98	6.843	
2,400.0	2,398.7	2,396.2	2,398.7	7.2	6.8	-178.44	-46.7	64.9	107.8	93.5	14.35	7.513	
2,500.0	2,497.5	2,495.0	2,497.5	7.5	7.0	-178.63	-46.7	64.9	123.5	108.7	14.74	8.374	
2,600.0	2,595.6	2,593.1	2,595.6	7.8	7.2	-179.43	-45.5	65.7	142.6	127.4	15.16	9.406	
2,700.0	2,693.1	2,690.2	2,692.6	8.1	7.4	178.78	-41.6	68.5	165.2	149.6	15.58	10.602	
2,757.7	2,748.9	2,745.6	2,747.8	8.2	7.4	177.48	-38.1	70.9	179.9	164.2	15.76	11.419	
2,800.0	2,789.7	2,788.8	2,790.8	8.3	7.5	176.45	-34.8	72.9	191.0	175.1	15.88	12.026	
2,900.0	2,886.2	2,892.5	2,894.0	8.6	7.6	174.16	-25.0	75.9	215.0	198.7	16.33	13.167	
3,000.0	2,982.8	2,997.7	2,998.4	8.9	7.9	171.98	-12.1	76.4	236.0	219.2	16.78	14.061	
3,100.0	3,079.3	3,104.1	3,103.6	9.2	8.1	169.80	3.8	74.3	253.9	236.7	17.24	14.730	
3,200.0	3,175.8	3,208.7	3,206.5	9.6	8.3	167.61	22.1	69.8	268.9	251.3	17.66	15.225	
3,300.0	3,272.3	3,307.2	3,303.2	9.9	8.5	165.68	40.1	64.9	283.5	265.3	18.15	15.618	
3,400.0	3,368.9	3,405.7	3,399.9	10.3	8.8	163.94	58.1	60.0	298.3	279.6	18.63	16.008	
3,500.0	3,465.4	3,504.2	3,496.7	10.6	9.1	162.37	76.0	55.1	313.3	294.2	19.13	16.383	
3,600.0	3,561.9	3,602.7	3,593.4	11.0	9.3	160.94	94.0	50.2	328.6	309.0	19.63	16.744	
3,700.0	3,658.4	3,701.2	3,690.1	11.4	9.6	159.63	112.0	45.3	344.1	323.9	20.13	17.090	
3,800.0	3,755.0	3,799.8	3,786.9	11.8	9.9	158.44	129.9	40.4	359.7	339.0	20.64	17.422	
3,900.0	3,851.5	3,898.3	3,883.6	12.2	10.3	157.35	147.9	35.5	375.4	354.3	21.16	17.740	
4,000.0	3,948.0	3,996.8	3,980.3	12.6	10.6	156.34	165.9	30.6	391.3	369.6	21.69	18.044	
4,100.0	4,044.5	4,095.3	4,077.1	13.1	10.9	155.42	183.8	25.7	407.3	385.1	22.21	18.335	
4,200.0	4,141.0	4,193.8	4,173.8	13.5	11.3	154.56	201.8	20.9	423.4	400.6	22.75	18.613	
4,300.0	4,237.6	4,292.3	4,270.5	13.9	11.6	153.77	219.8	16.0	439.5	416.3	23.28	18.880	
4,400.0	4,334.1	4,390.8	4,367.2	14.4	12.0	153.03	237.8	11.1	455.8	432.0	23.82	19.135	
4,500.0	4,430.6	4,489.3	4,464.0	14.8	12.4	152.34	255.7	6.2	472.1	447.7	24.36	19.378	
4,600.0	4,527.1	4,587.8	4,560.7	15.2	12.7	151.70	273.7	1.3	488.5	463.6	24.91	19.612	
4,700.0	4,623.7	4,686.3	4,657.4	15.7	13.1	151.10	291.7	-3.6	504.9	479.4	25.45	19.835	
4,800.0	4,720.2	4,784.8	4,754.2	16.1	13.5	150.54	309.6	-8.5	521.4	495.4	26.00	20.049	
4,900.0	4,816.7	4,883.3	4,850.9	16.6	13.9	150.01	327.6	-13.4	537.9	511.3	26.56	20.254	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 710H - 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
5,000.0	4,913.2	4,981.8	4,947.6	17.0	14.3	149.51	345.6	-18.3	554.5	527.4	27.11	20.451	
5,100.0	5,009.8	5,080.3	5,044.4	17.5	14.7	149.05	363.5	-23.2	571.1	543.4	27.67	20.639	
5,200.0	5,106.3	5,178.9	5,141.1	18.0	15.1	148.61	381.5	-28.1	587.7	559.5	28.23	20.819	
5,300.0	5,202.8	5,277.4	5,237.8	18.4	15.5	148.19	399.5	-33.0	604.4	575.6	28.79	20.993	
5,400.0	5,299.3	5,375.9	5,334.6	18.9	15.9	147.79	417.5	-37.8	621.1	591.7	29.35	21.159	
5,500.0	5,395.8	5,474.4	5,431.3	19.4	16.3	147.42	435.4	-42.7	637.8	607.9	29.92	21.318	
5,600.0	5,492.4	5,572.9	5,528.0	19.8	16.7	147.07	453.4	-47.6	654.6	624.1	30.49	21.472	
5,700.0	5,588.9	5,671.4	5,624.7	20.3	17.1	146.73	471.4	-52.5	671.3	640.3	31.05	21.619	
5,800.0	5,685.4	5,769.9	5,721.5	20.8	17.5	146.41	489.3	-57.4	688.1	656.5	31.62	21.761	
5,900.0	5,781.9	5,868.4	5,818.2	21.2	18.0	146.10	507.3	-62.3	705.0	672.8	32.19	21.898	
6,000.0	5,878.5	5,966.9	5,914.9	21.7	18.4	145.81	525.3	-67.2	721.8	689.0	32.77	22.029	
6,100.0	5,975.0	6,065.4	6,011.7	22.2	18.8	145.53	543.2	-72.1	738.7	705.3	33.34	22.156	
6,200.0	6,071.5	6,163.9	6,108.4	22.7	19.2	145.27	561.2	-77.0	755.5	721.6	33.91	22.278	
6,300.0	6,168.0	6,262.4	6,205.1	23.1	19.7	145.02	579.2	-81.9	772.4	737.9	34.49	22.395	
6,400.0	6,264.6	6,360.9	6,301.9	23.6	20.1	144.77	597.2	-86.8	789.3	754.3	35.07	22.508	
6,500.0	6,361.1	6,459.5	6,398.6	24.1	20.5	144.54	615.1	-91.7	806.2	770.6	35.65	22.618	
6,600.0	6,457.6	6,558.0	6,495.3	24.6	20.9	144.32	633.1	-96.5	823.2	786.9	36.23	22.723	
6,700.0	6,554.1	6,656.5	6,592.1	25.1	21.4	144.10	651.1	-101.4	840.1	803.3	36.81	22.825	
6,800.0	6,650.6	6,755.0	6,688.8	25.5	21.8	143.90	669.0	-106.3	857.0	819.7	37.39	22.924	
6,900.0	6,747.2	6,853.5	6,785.5	26.0	22.2	143.70	687.0	-111.2	874.0	836.0	37.97	23.019	
7,000.0	6,843.7	6,952.0	6,882.2	26.5	22.7	143.51	705.0	-116.1	891.0	852.4	38.55	23.113	
7,100.0	6,940.2	7,048.4	6,977.0	27.0	23.1	143.35	722.3	-120.8	908.0	868.9	39.13	23.204	
7,200.0	7,036.7	7,143.4	7,070.6	27.5	23.5	143.29	737.9	-125.1	925.4	885.7	39.73	23.290	
7,300.0	7,133.3	7,238.4	7,164.4	28.0	23.9	143.32	752.1	-128.9	943.2	902.8	40.35	23.377	
7,400.0	7,229.8	7,333.1	7,258.2	28.4	24.3	143.45	764.7	-132.4	961.3	920.3	40.98	23.460	
7,500.0	7,326.3	7,427.6	7,352.1	28.9	24.7	143.66	775.8	-135.4	979.8	938.2	41.63	23.538	
7,600.0	7,422.8	7,521.9	7,445.8	29.4	25.1	143.95	785.4	-138.0	998.7	956.4	42.30	23.613	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 711H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	2.5	3.0	0.0	125.69	-58.3	81.2	100.0				
100.0	100.0	97.5	100.0	3.1	0.8	125.69	-58.3	81.2	100.0	95.0	4.94	20.236	
200.0	200.0	197.5	200.0	3.3	1.4	125.69	-58.3	81.2	100.0	94.4	5.54	18.046	
300.0	300.0	297.5	300.0	3.5	1.9	125.69	-58.3	81.2	100.0	93.9	6.08	16.433	
400.0	400.0	397.5	400.0	3.8	2.2	125.69	-58.3	81.2	100.0	93.4	6.58	15.187	
500.0	500.0	497.5	500.0	4.0	2.6	125.69	-58.3	81.2	100.0	92.9	7.05	14.184	
600.0	600.0	597.5	600.0	4.1	2.8	125.69	-58.3	81.2	100.0	92.5	7.48	13.354	
700.0	700.0	697.5	700.0	4.3	3.1	125.69	-58.3	81.2	100.0	92.1	7.90	12.652	
800.0	800.0	797.5	800.0	4.5	3.3	125.69	-58.3	81.2	100.0	91.7	8.30	12.047	
900.0	900.0	897.5	900.0	4.7	3.6	125.69	-58.3	81.2	100.0	91.3	8.68	11.518	
1,000.0	1,000.0	997.5	1,000.0	4.8	3.8	125.69	-58.3	81.2	100.0	90.9	9.05	11.051	
1,100.0	1,100.0	1,097.5	1,100.0	5.0	4.0	125.69	-58.3	81.2	100.0	90.6	9.40	10.634	
1,200.0	1,200.0	1,197.5	1,200.0	5.2	4.2	125.69	-58.3	81.2	100.0	90.2	9.74	10.259	
1,300.0	1,300.0	1,297.5	1,300.0	5.3	4.4	125.69	-58.3	81.2	100.0	89.9	10.08	9.918	
1,400.0	1,400.0	1,397.5	1,400.0	5.5	4.6	125.69	-58.3	81.2	100.0	89.6	10.40	9.608	
1,500.0	1,500.0	1,497.5	1,500.0	5.6	4.7	125.69	-58.3	81.2	100.0	89.2	10.72	9.323	
1,600.0	1,600.0	1,597.5	1,600.0	5.8	4.9	125.69	-58.3	81.2	100.0	88.9	11.03	9.060	
1,700.0	1,700.0	1,697.5	1,700.0	5.9	5.1	125.69	-58.3	81.2	100.0	88.6	11.34	8.817	
1,800.0	1,800.0	1,797.5	1,800.0	6.0	5.2	125.69	-58.3	81.2	100.0	88.3	11.63	8.591	
1,900.0	1,900.0	1,897.5	1,900.0	6.2	5.4	125.69	-58.3	81.2	100.0	88.0	11.93	8.380	
2,000.0	2,000.0	1,997.5	2,000.0	6.3	5.6	125.69	-58.3	81.2	100.0	87.7	12.22	8.183	CC, ES
2,100.0	2,100.0	2,097.7	2,100.2	6.5	5.7	-178.73	-57.2	81.8	101.6	89.0	12.57	8.079	SF
2,200.0	2,199.8	2,197.7	2,200.1	6.7	5.9	179.13	-53.9	83.7	106.6	93.6	12.93	8.239	
2,300.0	2,299.5	2,297.2	2,299.4	7.0	6.2	175.97	-48.3	87.0	115.1	101.8	13.30	8.654	
2,400.0	2,398.7	2,397.1	2,398.9	7.2	6.3	172.17	-40.2	91.3	127.3	113.7	13.63	9.341	
2,500.0	2,497.5	2,496.8	2,497.8	7.5	6.6	167.94	-28.8	96.1	142.5	128.5	14.03	10.160	
2,600.0	2,595.6	2,595.7	2,595.5	7.8	6.9	163.62	-14.1	101.2	160.9	146.5	14.43	11.150	
2,700.0	2,693.1	2,693.5	2,691.5	8.1	7.2	159.46	3.8	106.7	182.7	167.9	14.84	12.313	
2,757.7	2,748.9	2,749.3	2,746.0	8.2	7.4	157.18	15.4	109.9	196.9	181.9	15.03	13.101	
2,800.0	2,789.7	2,790.1	2,785.6	8.3	7.6	155.64	24.6	112.4	207.8	192.7	15.16	13.707	
2,900.0	2,886.2	2,885.9	2,878.2	8.6	7.8	152.03	48.2	118.4	234.0	218.5	15.50	15.104	
3,000.0	2,982.8	2,981.3	2,970.3	8.9	8.1	148.94	72.7	124.5	261.0	245.1	15.88	16.437	
3,100.0	3,079.3	3,076.7	3,062.3	9.2	8.5	146.43	97.2	130.6	288.5	272.2	16.29	17.711	
3,200.0	3,175.8	3,172.2	3,154.3	9.6	8.8	144.35	121.6	136.7	316.5	299.8	16.72	18.927	
3,300.0	3,272.3	3,267.6	3,246.4	9.9	9.1	142.61	146.1	142.8	344.8	327.6	17.17	20.081	
3,400.0	3,368.9	3,363.0	3,338.4	10.3	9.5	141.13	170.5	148.9	373.3	355.7	17.63	21.171	
3,500.0	3,465.4	3,458.4	3,430.4	10.6	9.9	139.86	195.0	154.9	402.1	384.0	18.11	22.199	
3,600.0	3,561.9	3,553.9	3,522.5	11.0	10.3	138.76	219.5	161.0	431.0	412.4	18.60	23.167	
3,700.0	3,658.4	3,649.3	3,614.5	11.4	10.6	137.80	243.9	167.1	460.0	440.9	19.11	24.075	
3,800.0	3,755.0	3,744.7	3,706.6	11.8	11.0	136.95	268.4	173.2	489.2	469.5	19.62	24.929	
3,900.0	3,851.5	3,840.1	3,798.6	12.2	11.4	136.20	292.8	179.3	518.4	498.2	20.15	25.730	
4,000.0	3,948.0	3,935.6	3,890.6	12.6	11.8	135.52	317.3	185.4	547.7	527.0	20.68	26.482	
4,100.0	4,044.5	4,031.0	3,982.7	13.1	12.3	134.92	341.7	191.5	577.0	555.8	21.22	27.188	
4,200.0	4,141.0	4,126.4	4,074.7	13.5	12.7	134.37	366.2	197.6	606.4	584.7	21.77	27.852	
4,300.0	4,237.6	4,221.8	4,166.7	13.9	13.1	133.88	390.7	203.6	635.9	613.6	22.33	28.475	
4,400.0	4,334.1	4,317.3	4,258.8	14.4	13.5	133.42	415.1	209.7	665.4	642.5	22.90	29.061	
4,500.0	4,430.6	4,412.7	4,350.8	14.8	13.9	133.01	439.6	215.8	694.9	671.5	23.47	29.613	
4,600.0	4,527.1	4,508.1	4,442.8	15.2	14.4	132.63	464.0	221.9	724.5	700.4	24.04	30.132	
4,700.0	4,623.7	4,603.5	4,534.9	15.7	14.8	132.28	488.5	228.0	754.1	729.5	24.63	30.622	
4,800.0	4,720.2	4,699.0	4,626.9	16.1	15.2	131.95	513.0	234.1	783.7	758.5	25.21	31.084	
4,900.0	4,816.7	4,794.4	4,718.9	16.6	15.7	131.65	537.4	240.2	813.3	787.5	25.80	31.519	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 711H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,913.2	4,889.8	4,811.0	17.0	16.1	131.37	561.9	246.3	843.0	816.6	26.40	31.931	
5,100.0	5,009.8	4,985.2	4,903.0	17.5	16.6	131.11	586.3	252.3	872.7	845.7	27.00	32.321	
5,200.0	5,106.3	5,081.1	4,995.5	18.0	17.0	130.87	610.9	258.5	902.3	874.7	27.59	32.704	
5,300.0	5,202.8	5,184.5	5,095.5	18.4	17.5	130.68	636.4	264.8	931.6	903.3	28.24	32.991	
5,400.0	5,299.3	5,288.4	5,196.4	18.9	18.0	130.61	660.3	270.7	960.0	931.1	28.89	33.232	
5,500.0	5,395.8	5,392.9	5,298.3	19.4	18.4	130.64	682.5	276.3	987.6	958.1	29.54	33.437	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 712H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+MS

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	2.0	3.0	3.0	125.69	-70.0	97.4	120.0				
100.0	100.0	98.0	100.0	3.1	3.1	125.69	-70.0	97.4	120.0	113.4	6.60	18.185	
200.0	200.0	198.0	200.0	3.3	3.3	125.69	-70.0	97.4	120.0	112.9	7.05	17.023	
300.0	300.0	298.0	300.0	3.5	3.5	125.69	-70.0	97.4	120.0	112.5	7.47	16.050	
400.0	400.0	398.0	400.0	3.8	3.7	125.69	-70.0	97.4	120.0	112.1	7.88	15.223	
500.0	500.0	498.0	500.0	4.0	3.9	125.69	-70.0	97.4	120.0	111.7	8.27	14.509	
600.0	600.0	598.0	600.0	4.1	4.1	125.69	-70.0	97.4	120.0	111.3	8.64	13.883	
700.0	700.0	698.0	700.0	4.3	4.3	125.69	-70.0	97.4	120.0	111.0	9.00	13.328	
800.0	800.0	798.0	800.0	4.5	4.5	125.69	-70.0	97.4	120.0	110.6	9.35	12.833	
900.0	900.0	898.0	900.0	4.7	4.7	125.69	-70.0	97.4	120.0	110.3	9.69	12.385	
1,000.0	1,000.0	998.0	1,000.0	4.8	4.8	125.69	-70.0	97.4	120.0	109.9	10.01	11.979	
1,100.0	1,100.0	1,098.0	1,100.0	5.0	5.0	125.69	-70.0	97.4	120.0	109.6	10.33	11.609	
1,200.0	1,200.0	1,198.0	1,200.0	5.2	5.2	125.69	-70.0	97.4	120.0	109.3	10.65	11.268	
1,300.0	1,300.0	1,298.0	1,300.0	5.3	5.3	125.69	-70.0	97.4	120.0	109.0	10.95	10.954	
1,400.0	1,400.0	1,398.0	1,400.0	5.5	5.5	125.69	-70.0	97.4	120.0	108.7	11.25	10.662	
1,500.0	1,500.0	1,498.0	1,500.0	5.6	5.6	125.69	-70.0	97.4	120.0	108.4	11.54	10.391	
1,600.0	1,600.0	1,598.0	1,600.0	5.8	5.8	125.69	-70.0	97.4	120.0	108.1	11.83	10.138	
1,700.0	1,700.0	1,698.0	1,700.0	5.9	5.9	125.69	-70.0	97.4	120.0	107.8	12.12	9.901	
1,800.0	1,800.0	1,798.0	1,800.0	6.0	6.0	125.69	-70.0	97.4	120.0	107.6	12.39	9.678	
1,900.0	1,900.0	1,898.0	1,900.0	6.2	6.2	125.69	-70.0	97.4	120.0	107.3	12.67	9.468 CC	
2,000.0	2,000.0	1,997.5	1,999.4	6.3	6.4	124.90	-68.8	98.6	120.2	107.2	12.94	9.288 ES	
2,100.0	2,100.0	2,096.6	2,098.5	6.5	6.6	178.84	-65.0	102.0	122.7	109.4	13.27	9.245 SF	
2,200.0	2,199.8	2,195.2	2,196.6	6.7	6.8	175.19	-58.8	107.7	129.7	116.1	13.62	9.528	
2,300.0	2,299.5	2,292.6	2,293.4	7.0	7.1	170.83	-50.2	115.7	141.7	127.7	13.97	10.140	
2,400.0	2,398.7	2,388.6	2,388.3	7.2	7.3	166.31	-39.4	125.6	159.0	144.6	14.35	11.079	
2,500.0	2,497.5	2,482.9	2,480.8	7.5	7.6	162.04	-26.6	137.5	181.7	167.0	14.74	12.331	
2,600.0	2,595.6	2,575.3	2,571.1	7.8	7.8	158.24	-11.8	151.2	209.9	194.8	15.10	13.904	
2,700.0	2,693.1	2,669.3	2,662.5	8.1	8.1	155.23	4.1	165.9	242.5	227.0	15.51	15.634	
2,757.7	2,748.9	2,723.1	2,714.8	8.2	8.2	153.93	13.2	174.3	262.8	247.0	15.72	16.712	
2,800.0	2,789.7	2,762.4	2,753.1	8.3	8.3	153.26	19.9	180.4	278.1	262.2	15.88	17.515	
2,900.0	2,886.2	2,855.4	2,843.6	8.6	8.6	151.93	35.7	195.0	314.3	298.0	16.30	19.282	
3,000.0	2,982.8	2,948.4	2,934.1	8.9	8.9	150.87	51.4	209.5	350.7	333.9	16.75	20.935	
3,100.0	3,079.3	3,041.4	3,024.6	9.2	9.2	150.01	67.2	224.0	387.1	369.9	17.22	22.479	
3,200.0	3,175.8	3,134.3	3,115.0	9.6	9.5	149.30	82.9	238.6	423.6	405.9	17.71	23.917	
3,300.0	3,272.3	3,227.3	3,205.5	9.9	9.9	148.70	98.7	253.1	460.2	442.0	18.22	25.254	
3,400.0	3,368.9	3,320.3	3,296.0	10.3	10.2	148.19	114.4	267.7	496.8	478.1	18.75	26.497	
3,500.0	3,465.4	3,413.3	3,386.5	10.6	10.6	147.75	130.2	282.2	533.4	514.1	19.29	27.651	
3,600.0	3,561.9	3,506.2	3,476.9	11.0	10.9	147.37	145.9	296.8	570.1	550.2	19.85	28.723	
3,700.0	3,658.4	3,599.2	3,567.4	11.4	11.3	147.03	161.7	311.3	606.8	586.3	20.42	29.719	
3,800.0	3,755.0	3,692.2	3,657.9	11.8	11.6	146.73	177.4	325.8	643.4	622.5	21.00	30.645	
3,900.0	3,851.5	3,785.2	3,748.3	12.2	12.0	146.46	193.2	340.4	680.1	658.6	21.59	31.505	
4,000.0	3,948.0	3,878.2	3,838.8	12.6	12.4	146.22	208.9	354.9	716.9	694.7	22.19	32.306	
4,100.0	4,044.5	3,971.1	3,929.3	13.1	12.8	146.01	224.7	369.5	753.6	730.8	22.80	33.052	
4,200.0	4,141.0	4,064.1	4,019.8	13.5	13.2	145.81	240.4	384.0	790.3	766.9	23.42	33.747	
4,300.0	4,237.6	4,157.1	4,110.2	13.9	13.5	145.63	256.2	398.5	827.1	803.0	24.05	34.396	
4,400.0	4,334.1	4,250.1	4,200.7	14.4	13.9	145.47	271.9	413.1	863.8	839.1	24.68	35.002	
4,500.0	4,430.6	4,343.0	4,291.2	14.8	14.3	145.32	287.7	427.6	900.5	875.2	25.32	35.568	
4,600.0	4,527.1	4,436.0	4,381.7	15.2	14.7	145.18	303.4	442.2	937.3	911.3	25.96	36.099	
4,700.0	4,623.7	4,529.0	4,472.1	15.7	15.1	145.05	319.2	456.7	974.1	947.4	26.62	36.596	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 803H - 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	2.4	3.0	3.0	125.73	-81.7	113.6	140.0				
100.0	100.0	97.6	100.0	3.1	3.1	125.73	-81.7	113.6	140.0	133.4	6.60	21.220	
200.0	200.0	197.6	200.0	3.3	3.3	125.73	-81.7	113.6	140.0	132.9	7.05	19.865	
300.0	300.0	297.6	300.0	3.5	3.5	125.73	-81.7	113.6	140.0	132.5	7.47	18.728	
400.0	400.0	397.6	400.0	3.8	3.7	125.73	-81.7	113.6	140.0	132.1	7.88	17.763	
500.0	500.0	497.6	500.0	4.0	3.9	125.73	-81.7	113.6	140.0	131.7	8.27	16.930	
600.0	600.0	597.6	600.0	4.1	4.1	125.73	-81.7	113.6	140.0	131.3	8.64	16.199	
700.0	700.0	697.6	700.0	4.3	4.3	125.73	-81.7	113.6	140.0	131.0	9.00	15.552	
800.0	800.0	797.6	800.0	4.5	4.5	125.73	-81.7	113.6	140.0	130.6	9.35	14.974	
900.0	900.0	897.6	900.0	4.7	4.7	125.73	-81.7	113.6	140.0	130.3	9.68	14.452	
1,000.0	1,000.0	997.6	1,000.0	4.8	4.8	125.73	-81.7	113.6	140.0	129.9	10.01	13.978	
1,100.0	1,100.0	1,097.6	1,100.0	5.0	5.0	125.73	-81.7	113.6	140.0	129.6	10.33	13.545	
1,200.0	1,200.0	1,197.6	1,200.0	5.2	5.2	125.73	-81.7	113.6	140.0	129.3	10.65	13.148	
1,300.0	1,300.0	1,297.6	1,300.0	5.3	5.3	125.73	-81.7	113.6	140.0	129.0	10.95	12.781	
1,400.0	1,400.0	1,397.6	1,400.0	5.5	5.5	125.73	-81.7	113.6	140.0	128.7	11.25	12.441	
1,500.0	1,500.0	1,497.6	1,500.0	5.6	5.6	125.73	-81.7	113.6	140.0	128.4	11.54	12.124	
1,600.0	1,600.0	1,597.6	1,600.0	5.8	5.8	125.73	-81.7	113.6	140.0	128.1	11.83	11.829	
1,700.0	1,700.0	1,697.6	1,700.0	5.9	5.9	125.73	-81.7	113.6	140.0	127.8	12.12	11.552	
1,800.0	1,800.0	1,797.6	1,800.0	6.0	6.0	125.73	-81.7	113.6	140.0	127.6	12.39	11.293	
1,900.0	1,900.0	1,897.6	1,900.0	6.2	6.2	125.73	-81.7	113.6	140.0	127.3	12.67	11.048	
2,000.0	2,000.0	1,997.6	2,000.0	6.3	6.3	125.73	-81.7	113.6	140.0	127.0	12.94	10.817 CC, ES	
2,100.0	2,100.0	2,097.6	2,100.0	6.5	6.4	-177.99	-81.7	113.6	141.7	128.4	13.28	10.671 SF	
2,200.0	2,199.8	2,197.4	2,199.8	6.7	6.6	-178.05	-81.7	113.6	146.9	133.3	13.62	10.787	
2,300.0	2,299.5	2,297.1	2,299.5	7.0	6.7	-178.16	-81.7	113.6	155.6	141.7	13.98	11.135	
2,400.0	2,398.7	2,396.3	2,398.7	7.2	6.8	-178.28	-81.7	113.6	167.8	153.5	14.35	11.693	
2,500.0	2,497.5	2,495.1	2,497.5	7.5	7.0	-178.42	-81.7	113.6	183.5	168.7	14.74	12.443	
2,600.0	2,595.6	2,593.2	2,595.6	7.8	7.1	-178.56	-81.7	113.6	202.5	187.4	15.16	13.363	
2,700.0	2,693.1	2,690.7	2,693.1	8.1	7.2	-178.69	-81.7	113.6	225.0	209.4	15.59	14.435	
2,757.7	2,748.9	2,746.5	2,748.9	8.2	7.3	-178.77	-81.7	113.6	239.5	223.7	15.80	15.164	
2,800.0	2,789.7	2,787.3	2,789.7	8.3	7.3	-178.82	-81.7	113.6	250.6	234.7	15.94	15.720	
2,900.0	2,886.2	2,883.8	2,886.2	8.6	7.5	-178.93	-81.7	113.6	276.7	260.4	16.35	16.923	
3,000.0	2,982.8	2,980.4	2,982.8	8.9	7.6	-179.02	-81.7	113.6	302.9	286.1	16.78	18.046	
3,100.0	3,079.3	3,076.9	3,079.3	9.2	7.7	-179.10	-81.7	113.6	329.0	311.8	17.23	19.092	
3,200.0	3,175.8	3,173.4	3,175.8	9.6	7.8	-179.17	-81.7	113.6	355.1	337.4	17.70	20.066	
3,300.0	3,272.3	3,269.9	3,272.3	9.9	7.9	-179.22	-81.7	113.6	381.3	363.1	18.18	20.971	
3,400.0	3,368.9	3,366.5	3,368.9	10.3	8.0	-179.27	-81.7	113.6	407.4	388.7	18.68	21.813	
3,500.0	3,465.4	3,463.0	3,465.4	10.6	8.2	-179.32	-81.7	113.6	433.6	414.4	19.19	22.596	
3,600.0	3,561.9	3,559.5	3,561.9	11.0	8.3	-179.36	-81.7	113.6	459.7	440.0	19.71	23.323	
3,700.0	3,658.4	3,656.0	3,658.4	11.4	8.4	-179.39	-81.7	113.6	485.8	465.6	20.24	24.000	
3,800.0	3,755.0	3,752.6	3,755.0	11.8	8.5	-179.42	-81.7	113.6	512.0	491.2	20.79	24.629	
3,900.0	3,851.5	3,849.1	3,851.5	12.2	8.6	-179.45	-81.7	113.6	538.1	516.8	21.34	25.215	
4,000.0	3,948.0	3,945.6	3,948.0	12.6	8.7	-179.48	-81.7	113.6	564.2	542.3	21.90	25.760	
4,100.0	4,044.5	4,045.7	4,048.1	13.1	8.8	-179.48	-81.8	113.4	590.3	567.8	22.49	26.249	
4,200.0	4,141.0	4,151.1	4,153.4	13.5	8.9	-179.28	-83.0	110.9	615.1	592.0	23.08	26.648	
4,300.0	4,237.6	4,257.0	4,259.2	13.9	9.1	-178.86	-85.4	105.8	638.6	615.0	23.68	26.967	
4,400.0	4,334.1	4,362.0	4,363.9	14.4	9.1	-178.28	-88.8	98.2	660.9	636.6	24.27	27.235	
4,500.0	4,430.6	4,464.3	4,466.0	14.8	9.3	-177.92	-90.0	91.3	682.3	657.4	24.87	27.430	
4,600.0	4,527.1	4,567.1	4,568.5	15.2	9.4	-177.88	-87.8	85.9	703.0	677.5	25.52	27.550	
4,700.0	4,623.7	4,670.0	4,671.3	15.7	9.6	-178.14	-82.2	82.0	723.1	696.9	26.19	27.606	
4,800.0	4,720.2	4,772.9	4,773.7	16.1	9.7	-178.67	-73.3	79.6	742.5	715.6	26.88	27.621	
4,900.0	4,816.7	4,875.5	4,875.6	16.6	9.8	-179.45	-61.1	78.7	761.3	733.8	27.56	27.619	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 803H - 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
5,000.0	4,913.2	4,977.5	4,976.4	17.0	9.9	179.55	-45.7	79.4	779.7	751.5	28.24	27.611	
5,100.0	5,009.8	5,078.7	5,075.8	17.5	10.1	178.35	-27.2	81.5	797.9	768.9	28.91	27.601	
5,200.0	5,106.3	5,178.8	5,173.5	18.0	10.3	176.97	-5.8	85.1	815.9	786.3	29.56	27.604	
5,300.0	5,202.8	5,277.2	5,268.9	18.4	10.5	175.44	18.3	90.0	834.1	803.9	30.17	27.648	
5,400.0	5,299.3	5,372.9	5,361.2	18.9	10.7	173.93	42.8	95.3	852.7	821.9	30.76	27.717	
5,500.0	5,395.8	5,468.5	5,453.5	19.4	11.0	172.49	67.3	100.5	871.9	840.5	31.36	27.804	
5,600.0	5,492.4	5,564.2	5,545.8	19.8	11.2	171.11	91.8	105.8	891.6	859.7	31.95	27.912	
5,700.0	5,588.9	5,659.9	5,638.2	20.3	11.4	169.78	116.3	111.1	911.9	879.4	32.52	28.038	
5,800.0	5,685.4	5,755.5	5,730.5	20.8	11.7	168.51	140.8	116.4	932.6	899.5	33.09	28.181	
5,900.0	5,781.9	5,851.2	5,822.8	21.2	12.0	167.29	165.3	121.7	953.8	920.1	33.66	28.337	
6,000.0	5,878.5	5,946.9	5,915.1	21.7	12.3	166.12	189.7	126.9	975.3	941.1	34.22	28.506	
6,100.0	5,975.0	6,042.5	6,007.5	22.2	12.6	165.01	214.2	132.2	997.3	962.5	34.77	28.684	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 `BO` FEDERAL COM 1H - 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
8,600.0	8,388.2	13,649.4	9,338.6	34.3	80.0	177.28	878.8	-1,292.9	952.6	890.8	61.82	15.409	
8,700.0	8,485.4	13,634.2	9,339.0	34.8	79.7	174.44	894.0	-1,293.3	857.6	795.1	62.58	13.705	
8,800.0	8,582.9	13,620.8	9,339.4	35.3	79.5	171.52	907.3	-1,293.6	763.0	699.4	63.67	11.985	
8,900.0	8,680.8	13,603.8	9,339.9	35.7	79.2	167.38	924.4	-1,293.9	669.1	603.8	65.27	10.251	
9,000.0	8,779.0	13,588.8	9,340.2	36.2	79.0	163.21	939.4	-1,294.1	576.0	508.4	67.63	8.518	
9,100.0	8,877.6	13,575.7	9,340.5	36.6	78.8	159.14	952.5	-1,294.3	484.6	413.4	71.22	6.805	
9,200.0	8,976.4	13,564.4	9,340.6	37.1	78.6	155.32	963.8	-1,294.5	396.2	319.3	76.90	5.152	
9,300.0	9,075.5	13,554.7	9,340.8	37.5	78.4	151.90	973.5	-1,294.6	313.5	227.4	86.14	3.640	
9,400.0	9,174.8	13,546.4	9,340.9	37.9	78.3	148.96	981.7	-1,294.7	242.6	142.1	100.49	2.414	Caution - Monitor Closely
9,500.0	9,274.3	13,539.6	9,340.9	38.3	78.2	146.62	988.6	-1,294.8	196.7	80.4	116.34	1.691	Caution - Monitor Closely
9,554.0	9,328.1	13,536.4	9,341.0	38.5	78.1	145.63	991.7	-1,294.9	189.4	69.8	119.59	1.584	Caution - Monitor Closely, CC, ES, SF
9,600.0	9,373.9	13,534.0	9,341.0	38.7	78.1	144.94	994.1	-1,294.9	194.7	77.7	117.00	1.664	Caution - Monitor Closely
9,700.0	9,473.7	13,529.7	9,341.0	39.1	78.0	143.93	998.4	-1,295.0	237.8	136.4	101.40	2.345	Caution - Monitor Closely
9,800.0	9,573.6	13,526.5	9,341.0	39.4	78.0	143.56	1,001.6	-1,295.0	307.6	220.9	86.75	3.546	
9,900.0	9,673.6	13,524.4	9,341.0	39.7	78.0	143.81	1,003.8	-1,295.0	390.0	312.6	77.44	5.036	
10,000.0	9,773.6	13,523.3	9,341.0	39.9	77.9	144.61	1,004.9	-1,295.1	478.6	406.7	71.90	6.656	
10,026.4	9,800.0	13,523.1	9,341.1	40.0	77.9	88.59	1,005.0	-1,295.1	502.7	431.8	70.85	7.095	
10,100.0	9,873.6	13,522.8	9,341.1	40.0	77.9	88.50	1,005.4	-1,295.1	570.6	502.0	68.58	8.320	
10,200.0	9,973.6	13,522.4	9,341.1	40.0	77.9	88.39	1,005.8	-1,295.1	664.9	598.3	66.60	9.983	
10,300.0	10,073.6	13,522.0	9,341.1	40.0	77.9	88.28	1,006.2	-1,295.1	760.6	695.2	65.41	11.629	
10,400.0	10,173.6	13,521.6	9,341.1	40.1	77.9	88.18	1,006.5	-1,295.1	857.4	792.7	64.68	13.255	
10,500.0	10,273.6	13,521.3	9,341.1	40.1	77.9	88.08	1,006.9	-1,295.1	954.8	890.5	64.25	14.860	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
8,500.0	8,291.5	13,221.2	8,943.3	33.8	78.6	-41.84	915.1	-2,042.5	964.7	870.1	94.52	10.206	
8,511.1	8,302.3	13,219.5	8,943.3	33.9	78.5	-41.68	916.8	-2,042.4	955.6	860.7	94.86	10.073	
8,600.0	8,388.2	13,206.4	8,943.6	34.3	78.3	-39.62	929.8	-2,041.7	885.1	787.3	97.80	9.050	
8,700.0	8,485.4	13,193.4	8,943.8	34.8	78.1	-37.63	942.8	-2,040.9	810.8	709.2	101.59	7.981	
8,800.0	8,582.9	13,176.6	8,944.1	35.3	77.8	-35.43	959.6	-2,040.0	743.3	637.5	105.73	7.030	
8,900.0	8,680.8	13,163.0	8,944.2	35.7	77.6	-33.69	973.1	-2,039.2	684.7	574.7	110.05	6.222	
9,000.0	8,779.0	13,152.2	8,944.2	36.2	77.4	-32.33	984.0	-2,038.6	637.7	523.6	114.04	5.592	
9,100.0	8,877.6	13,143.5	8,944.1	36.6	77.3	-31.31	992.6	-2,038.2	605.0	488.1	116.92	5.174	
9,200.0	8,976.4	13,136.7	8,944.1	37.1	77.2	-30.56	999.4	-2,037.8	589.1	471.2	117.90	4.996	
9,237.6	9,013.7	13,134.5	8,944.1	37.2	77.2	-30.34	1,001.6	-2,037.7	587.8	470.1	117.66	4.996	CC, ES, SF
9,300.0	9,075.5	13,131.4	8,944.0	37.5	77.1	-30.06	1,004.7	-2,037.5	591.3	474.8	116.51	5.076	
9,400.0	9,174.8	13,127.0	8,943.9	37.9	77.0	-29.73	1,009.1	-2,037.2	611.6	498.7	112.94	5.416	
9,500.0	9,274.3	13,124.1	8,943.9	38.3	77.0	-29.64	1,012.0	-2,037.1	648.3	540.3	107.99	6.003	
9,600.0	9,373.9	13,121.5	8,943.8	38.7	76.9	-29.68	1,014.6	-2,036.9	698.7	596.2	102.53	6.815	
9,700.0	9,473.7	13,119.8	8,943.8	39.1	76.9	-29.89	1,016.3	-2,036.8	760.1	662.9	97.26	7.816	
9,800.0	9,573.6	13,118.9	8,943.8	39.4	76.9	-30.29	1,017.2	-2,036.8	830.2	737.6	92.56	8.969	
9,900.0	9,673.6	13,118.9	8,943.8	39.7	76.9	-30.90	1,017.2	-2,036.8	906.8	818.2	88.56	10.240	
10,000.0	9,773.6	13,119.9	8,943.8	39.9	76.9	-31.74	1,016.2	-2,036.8	988.4	903.2	85.24	11.595	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 W0BO FEDERAL COM 004H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 829-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
11,200.0	10,973.6	16,307.8	11,814.2	40.3	81.9	84.38	1,035.6	-1,137.8	916.0	826.3	89.73	10.209	
11,300.0	11,073.6	16,311.6	11,814.3	40.3	81.9	84.98	1,031.8	-1,137.7	825.2	732.7	92.55	8.916	
11,400.0	11,173.6	16,315.3	11,814.4	40.4	82.0	85.57	1,028.1	-1,137.6	736.8	640.7	96.02	7.673	
11,500.0	11,273.6	16,319.0	11,814.5	40.4	82.1	86.14	1,024.5	-1,137.5	651.6	551.3	100.32	6.495	
11,600.0	11,373.6	16,322.5	11,814.6	40.4	82.1	86.70	1,020.9	-1,137.4	571.3	465.7	105.61	5.410	
11,700.0	11,473.6	16,325.9	11,814.7	40.5	82.2	87.24	1,017.5	-1,137.4	498.2	386.3	111.90	4.452	
11,800.0	11,573.6	16,329.3	11,814.8	40.5	82.2	87.77	1,014.1	-1,137.3	435.8	317.1	118.74	3.671	
11,900.0	11,673.6	16,332.6	11,814.9	40.5	82.3	88.29	1,010.8	-1,137.2	389.5	264.9	124.55	3.127	
12,000.0	11,773.6	16,335.8	11,815.0	40.6	82.3	88.79	1,007.6	-1,137.2	365.3	238.7	126.52	2.887	Normal Operations, SF
12,041.5	11,815.1	16,337.1	11,815.0	40.6	82.3	89.00	1,006.3	-1,137.2	362.9	237.3	125.60	2.889	Normal Operations, CC, ES
12,100.0	11,873.6	16,338.9	11,815.1	40.6	82.4	89.29	1,004.5	-1,137.1	367.6	245.1	122.51	3.000	
12,200.0	11,973.5	16,342.0	11,815.2	40.6	82.4	89.77	1,001.5	-1,137.1	396.0	282.1	113.85	3.478	
12,208.9	11,982.5	16,342.2	11,815.2	40.6	82.4	89.81	1,001.2	-1,137.1	399.6	286.7	112.97	3.538	
12,225.0	11,998.5	16,343.0	11,815.2	40.6	82.4	-86.34	1,000.4	-1,137.1	406.6	295.2	111.38	3.651	
12,250.0	12,023.5	16,345.3	11,815.3	40.6	82.5	-84.38	998.1	-1,137.0	418.4	309.4	108.93	3.841	
12,275.0	12,048.3	16,349.0	11,815.4	40.5	82.5	-82.03	994.4	-1,137.0	431.2	324.6	106.56	4.046	
12,300.0	12,073.0	16,354.1	11,815.5	40.4	82.6	-79.34	989.3	-1,136.9	444.8	340.5	104.29	4.265	
12,325.0	12,097.4	16,360.5	11,815.7	40.4	82.7	-76.34	983.0	-1,136.8	459.1	357.0	102.14	4.495	
12,350.0	12,121.5	16,367.4	11,815.9	40.3	82.8	-73.22	976.1	-1,136.7	474.0	373.9	100.13	4.734	
12,375.0	12,145.2	16,375.5	11,816.0	40.2	82.9	-69.92	968.0	-1,136.7	489.3	391.0	98.27	4.979	
12,400.0	12,168.5	16,384.6	11,816.2	40.2	83.1	-66.53	958.8	-1,136.6	504.8	408.3	96.57	5.228	
12,425.0	12,191.3	16,394.8	11,816.4	40.1	83.2	-63.12	948.7	-1,136.5	520.5	425.5	95.02	5.478	
12,450.0	12,213.4	16,405.9	11,816.5	40.0	83.4	-59.75	937.5	-1,136.4	536.3	442.7	93.62	5.728	
12,475.0	12,235.0	16,417.9	11,816.6	39.9	83.6	-56.48	925.5	-1,136.4	552.0	459.6	92.36	5.976	
12,500.0	12,255.9	16,430.9	11,816.7	39.9	83.8	-53.35	912.6	-1,136.4	567.5	476.2	91.24	6.219	
12,525.0	12,276.0	16,444.6	11,816.7	39.8	84.0	-50.39	898.8	-1,136.4	582.7	492.5	90.25	6.457	
12,550.0	12,295.3	16,459.6	11,816.7	39.7	84.2	-47.60	883.9	-1,136.4	597.6	508.2	89.37	6.686	
12,575.0	12,313.7	16,476.3	11,816.6	39.6	84.5	-44.96	867.2	-1,136.5	612.0	523.4	88.62	6.906	
12,600.0	12,331.3	16,493.9	11,816.5	39.6	84.8	-42.55	849.6	-1,136.6	625.8	537.9	87.96	7.115	
12,625.0	12,347.9	16,512.3	11,816.4	39.5	85.0	-40.36	831.1	-1,136.8	639.1	551.7	87.40	7.312	
12,650.0	12,363.4	16,531.6	11,816.2	39.5	85.3	-38.38	811.9	-1,137.0	651.6	564.7	86.93	7.496	
12,675.0	12,378.0	16,551.7	11,816.0	39.4	85.6	-36.59	791.7	-1,137.2	663.4	576.9	86.53	7.667	
12,700.0	12,391.4	16,573.8	11,815.8	39.4	86.0	-34.96	769.6	-1,137.5	674.3	588.1	86.21	7.822	
12,725.0	12,403.8	16,596.6	11,815.5	39.3	86.3	-33.51	746.9	-1,138.0	684.3	598.4	85.95	7.962	
12,750.0	12,415.0	16,620.0	11,815.3	39.3	86.7	-32.24	723.4	-1,138.5	693.4	607.6	85.74	8.087	
12,775.0	12,425.0	16,644.2	11,815.0	39.3	87.1	-31.11	699.3	-1,139.2	701.4	615.8	85.59	8.195	
12,800.0	12,433.8	16,672.0	11,814.8	39.2	87.5	-30.09	671.5	-1,140.0	708.4	622.8	85.51	8.284	
12,825.0	12,441.3	16,700.5	11,814.8	39.2	87.9	-29.23	643.0	-1,140.8	714.1	628.6	85.48	8.353	
12,850.0	12,447.6	16,729.5	11,815.0	39.2	88.4	-28.54	614.0	-1,141.5	718.5	633.0	85.51	8.403	
12,875.0	12,452.6	16,760.3	11,815.6	39.2	88.9	-27.99	583.2	-1,142.3	721.7	636.1	85.58	8.433	
12,900.0	12,456.3	16,786.7	11,816.3	39.2	89.3	-27.62	556.8	-1,142.9	723.6	637.9	85.68	8.445	
12,925.0	12,458.8	16,811.6	11,816.9	39.2	89.7	-27.39	532.0	-1,143.5	724.3	638.5	85.81	8.441	
12,950.0	12,459.9	16,815.0	11,817.0	39.2	89.7	-27.37	528.6	-1,143.6	724.2	638.4	85.87	8.434	
12,958.9	12,460.0	16,815.0	11,817.0	39.2	89.7	-27.38	528.6	-1,143.6	724.1	638.2	85.89	8.431	
12,969.5	12,460.0	16,815.0	11,817.0	39.2	89.7	-27.38	528.6	-1,143.6	724.0	638.1	85.90	8.429	
13,000.0	12,460.0	16,815.0	11,817.0	39.2	89.7	-27.38	528.6	-1,143.6	724.7	638.8	85.88	8.439	
13,100.0	12,460.0	16,815.0	11,817.0	39.3	89.7	-27.32	528.6	-1,143.6	736.1	650.7	85.33	8.626	
13,200.0	12,460.0	16,815.0	11,817.0	39.4	89.7	-27.20	528.6	-1,143.6	760.9	676.8	84.11	9.047	
13,300.0	12,460.0	16,815.0	11,817.0	39.5	89.7	-27.02	528.6	-1,143.6	798.0	715.6	82.43	9.681	
13,400.0	12,460.0	16,815.0	11,817.0	39.7	89.7	-26.77	528.6	-1,143.6	845.7	765.2	80.50	10.505	
13,449.1	12,460.0	16,815.0	11,817.0	39.7	89.7	-26.62	528.6	-1,143.6	872.4	792.9	79.53	10.970	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 W0BO FEDERAL COM 004H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 829-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
13,500.0	12,460.0	16,815.0	11,817.0	39.8	89.7	-26.62	528.6	-1,143.6	902.3	823.7	78.52	11.491	
13,600.0	12,460.0	16,815.0	11,817.0	40.0	89.7	-26.62	528.6	-1,143.6	965.9	889.3	76.60	12.611	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 W1BO FEDERAL COM 003H - 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
11,800.0	11,573.6	16,665.3	12,091.0	40.5	82.6	93.28	953.1	-682.6	968.6	857.6	111.00	8.726	
11,900.0	11,673.6	16,665.1	12,091.0	40.5	82.6	93.27	953.3	-682.5	919.1	804.2	114.86	8.002	
12,000.0	11,773.6	16,664.8	12,091.0	40.6	82.6	93.25	953.6	-682.5	878.2	759.6	118.56	7.407	
12,100.0	11,873.6	16,664.6	12,091.0	40.6	82.6	93.23	953.8	-682.5	847.2	725.4	121.80	6.956	
12,200.0	11,973.5	16,664.3	12,091.0	40.6	82.5	93.21	954.1	-682.5	827.2	702.9	124.28	6.655	
12,208.9	11,982.5	16,664.3	12,091.0	40.6	82.5	93.21	954.1	-682.5	825.9	701.5	124.46	6.636	
12,225.0	11,998.5	16,664.5	12,091.0	40.6	82.6	-84.21	953.9	-682.5	824.0	699.2	124.76	6.605	
12,250.0	12,023.5	16,665.7	12,091.0	40.6	82.6	-84.43	952.7	-682.6	821.4	696.2	125.17	6.562	
12,275.0	12,048.3	16,668.2	12,091.0	40.5	82.6	-84.50	950.2	-682.7	819.4	693.9	125.54	6.527	
12,300.0	12,073.0	16,671.9	12,091.0	40.4	82.7	-84.40	946.5	-682.9	818.1	692.2	125.86	6.500	
12,325.0	12,097.4	16,676.9	12,091.0	40.4	82.7	-84.14	941.5	-683.2	817.4	691.2	126.14	6.480	
12,343.6	12,115.4	16,681.5	12,091.0	40.3	82.8	-83.85	936.9	-683.4	817.2	690.9	126.31	6.470 CC	
12,350.0	12,121.5	16,683.2	12,091.0	40.3	82.8	-83.74	935.2	-683.5	817.2	690.8	126.36	6.467 ES	
12,375.0	12,145.2	16,690.9	12,091.1	40.2	83.0	-83.18	927.6	-683.9	817.6	691.1	126.54	6.461 SF	
12,400.0	12,168.5	16,699.9	12,091.2	40.2	83.1	-82.48	918.6	-684.4	818.6	691.9	126.68	6.461	
12,425.0	12,191.3	16,710.2	12,091.4	40.1	83.2	-81.66	908.3	-685.0	820.0	693.2	126.79	6.467	
12,450.0	12,213.4	16,721.9	12,091.7	40.0	83.4	-80.72	896.6	-685.6	821.8	694.9	126.86	6.478	
12,475.0	12,235.0	16,735.0	12,092.0	39.9	83.6	-79.69	883.5	-686.2	824.0	697.1	126.90	6.493	
12,500.0	12,255.9	16,747.2	12,092.4	39.9	83.8	-78.70	871.3	-686.8	826.5	699.6	126.91	6.512	
12,525.0	12,276.0	16,759.9	12,092.9	39.8	84.0	-77.69	858.6	-687.3	829.2	702.3	126.88	6.535	
12,550.0	12,295.3	16,773.5	12,093.4	39.7	84.2	-76.63	845.1	-687.9	832.2	705.3	126.85	6.560	
12,575.0	12,313.7	16,788.0	12,093.9	39.6	84.4	-75.56	830.6	-688.4	835.3	708.5	126.81	6.587	
12,600.0	12,331.3	16,803.2	12,094.5	39.6	84.7	-74.48	815.4	-688.9	838.5	711.7	126.78	6.614	
12,625.0	12,347.9	16,819.2	12,095.2	39.5	84.9	-73.41	799.4	-689.3	841.8	715.0	126.75	6.641	
12,650.0	12,363.4	16,836.9	12,095.9	39.5	85.2	-72.33	781.8	-689.7	845.0	718.2	126.74	6.667	
12,675.0	12,378.0	16,859.7	12,096.9	39.4	85.5	-71.14	759.0	-690.3	848.0	721.2	126.81	6.688	
12,700.0	12,391.4	16,883.3	12,097.8	39.4	85.9	-70.03	735.4	-690.9	850.8	723.9	126.89	6.705	
12,725.0	12,403.8	16,907.4	12,098.7	39.3	86.3	-69.00	711.3	-691.6	853.3	726.3	126.99	6.719	
12,750.0	12,415.0	16,932.2	12,099.6	39.3	86.6	-68.07	686.5	-692.4	855.3	728.2	127.12	6.729	
12,775.0	12,425.0	16,958.3	12,100.3	39.3	87.0	-67.23	660.5	-693.5	857.0	729.7	127.28	6.733	
12,800.0	12,433.8	16,984.7	12,100.8	39.2	87.4	-66.50	634.1	-694.7	858.1	730.6	127.45	6.733	
12,825.0	12,441.3	17,011.3	12,101.0	39.2	87.9	-65.89	607.6	-696.2	858.7	731.0	127.65	6.727	
12,850.0	12,447.6	17,035.8	12,101.1	39.2	88.2	-65.44	583.1	-697.6	858.8	730.9	127.86	6.717	
12,875.0	12,452.6	17,060.1	12,101.2	39.2	88.6	-65.12	558.9	-699.1	858.4	730.3	128.10	6.701	
12,900.0	12,456.3	17,084.7	12,101.3	39.2	89.0	-64.93	534.3	-700.5	857.4	729.0	128.39	6.678	
12,925.0	12,458.8	17,085.0	12,101.3	39.2	89.0	-65.05	534.0	-700.6	856.3	727.8	128.52	6.663	
12,950.0	12,459.9	17,085.0	12,101.3	39.2	89.0	-65.15	534.0	-700.6	855.4	726.7	128.62	6.651	
12,958.9	12,460.0	17,085.0	12,101.3	39.2	89.0	-65.18	534.0	-700.6	855.1	726.4	128.64	6.647	
12,984.2	12,460.0	17,085.0	12,101.3	39.2	89.0	-65.19	534.0	-700.6	854.7	726.0	128.65	6.643	
13,000.0	12,460.0	17,085.0	12,101.3	39.2	89.0	-65.19	534.0	-700.6	854.8	726.2	128.61	6.647	
13,100.0	12,460.0	17,085.0	12,101.3	39.3	89.0	-65.17	534.0	-700.6	863.0	735.4	127.60	6.764	
13,200.0	12,460.0	17,085.0	12,101.3	39.4	89.0	-65.12	534.0	-700.6	883.3	758.0	125.35	7.047	
13,300.0	12,460.0	17,085.0	12,101.3	39.5	89.0	-65.05	534.0	-700.6	915.0	792.8	122.14	7.491	
13,400.0	12,460.0	17,085.0	12,101.3	39.7	89.0	-64.95	534.0	-700.6	956.8	838.5	118.30	8.088	
13,449.1	12,460.0	17,085.0	12,101.3	39.7	89.0	-64.89	534.0	-700.6	980.7	864.4	116.29	8.433	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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
11,500.0	11,273.6	16,482.6	12,038.1	40.4	82.3	-89.52	1,004.5	-2,034.5	932.9	832.8	100.03	9.326	
11,600.0	11,373.6	16,483.1	12,038.1	40.4	82.3	-89.56	1,004.1	-2,034.5	852.8	749.2	103.62	8.230	
11,700.0	11,473.6	16,483.6	12,038.1	40.5	82.4	-89.62	1,003.6	-2,034.5	777.4	669.7	107.72	7.217	
11,800.0	11,573.6	16,484.2	12,038.1	40.5	82.4	-89.68	1,003.0	-2,034.5	708.2	595.9	112.25	6.309	
11,900.0	11,673.6	16,484.9	12,038.1	40.5	82.4	-89.75	1,002.3	-2,034.5	647.0	530.0	117.00	5.530	
12,000.0	11,773.6	16,485.6	12,038.1	40.6	82.4	-89.84	1,001.5	-2,034.5	596.4	474.9	121.47	4.910	
12,100.0	11,873.6	16,486.6	12,038.1	40.6	82.4	-89.94	1,000.6	-2,034.5	559.3	434.4	124.84	4.480	
12,200.0	11,973.5	16,487.7	12,038.1	40.6	82.4	-90.06	999.5	-2,034.5	538.4	412.2	126.14	4.268	
12,208.9	11,982.5	16,487.8	12,038.1	40.6	82.4	-90.07	999.4	-2,034.5	537.4	411.3	126.12	4.261	
12,225.0	11,998.5	16,488.4	12,038.1	40.6	82.4	92.84	998.8	-2,034.5	536.0	409.9	126.05	4.252	
12,250.0	12,023.5	16,490.8	12,038.2	40.6	82.5	92.73	996.4	-2,034.5	534.8	409.0	125.81	4.251	ES, SF
12,262.0	12,035.4	16,492.6	12,038.2	40.5	82.5	92.55	994.6	-2,034.5	534.6	409.0	125.65	4.255	CC
12,275.0	12,048.3	16,495.1	12,038.2	40.5	82.5	92.26	992.0	-2,034.5	534.8	409.4	125.44	4.263	
12,300.0	12,073.0	16,501.6	12,038.3	40.4	82.6	91.44	985.6	-2,034.4	536.0	411.0	124.94	4.290	
12,325.0	12,097.4	16,510.4	12,038.6	40.4	82.8	90.25	976.8	-2,034.3	538.3	414.0	124.33	4.329	
12,350.0	12,121.5	16,521.6	12,038.9	40.3	82.9	88.70	965.6	-2,034.1	541.6	418.0	123.64	4.381	
12,375.0	12,145.2	16,535.4	12,039.5	40.2	83.2	86.80	951.8	-2,033.8	545.9	423.0	122.87	4.443	
12,400.0	12,168.5	16,544.1	12,039.9	40.2	83.3	85.34	943.1	-2,033.6	551.0	429.1	121.94	4.519	
12,425.0	12,191.3	16,557.9	12,040.6	40.1	83.5	83.33	929.3	-2,033.3	556.9	435.8	121.04	4.601	
12,450.0	12,213.4	16,573.5	12,041.6	40.0	83.7	81.14	913.7	-2,032.8	563.3	443.2	120.13	4.689	
12,475.0	12,235.0	16,591.0	12,042.8	39.9	84.0	78.81	896.3	-2,032.3	570.1	450.9	119.24	4.782	
12,500.0	12,255.9	16,610.4	12,044.5	39.9	84.3	76.40	877.0	-2,031.7	577.3	458.9	118.38	4.876	
12,525.0	12,276.0	16,627.9	12,046.1	39.8	84.6	74.21	859.5	-2,031.1	584.6	467.0	117.54	4.973	
12,550.0	12,295.3	16,644.3	12,047.6	39.7	84.8	72.18	843.2	-2,030.5	592.1	475.3	116.73	5.072	
12,575.0	12,313.7	16,661.4	12,049.0	39.6	85.1	70.19	826.2	-2,030.0	599.6	483.6	115.98	5.170	
12,600.0	12,331.3	16,679.2	12,050.5	39.6	85.4	68.25	808.5	-2,029.4	607.1	491.8	115.29	5.266	
12,625.0	12,347.9	16,697.6	12,052.0	39.5	85.7	66.40	790.2	-2,028.8	614.5	499.8	114.68	5.358	
12,650.0	12,363.4	16,716.6	12,053.4	39.5	85.9	64.65	771.2	-2,028.2	621.7	507.6	114.15	5.447	
12,675.0	12,378.0	16,736.2	12,054.7	39.4	86.2	63.00	751.7	-2,027.5	628.7	515.0	113.69	5.530	
12,700.0	12,391.4	16,756.2	12,055.9	39.4	86.6	61.47	731.7	-2,026.9	635.3	522.0	113.31	5.607	
12,725.0	12,403.8	16,776.6	12,056.9	39.3	86.9	60.07	711.4	-2,026.1	641.5	528.5	113.00	5.677	
12,750.0	12,415.0	16,797.3	12,057.8	39.3	87.2	58.80	690.7	-2,025.3	647.3	534.6	112.77	5.741	
12,775.0	12,425.0	16,819.8	12,058.5	39.3	87.5	57.62	668.3	-2,024.4	652.6	540.0	112.62	5.795	
12,800.0	12,433.8	16,843.9	12,059.3	39.2	87.9	56.57	644.2	-2,023.4	657.3	544.7	112.57	5.839	
12,825.0	12,441.3	16,868.4	12,060.2	39.2	88.3	55.69	619.7	-2,022.4	661.3	548.7	112.60	5.873	
12,850.0	12,447.6	16,893.3	12,061.0	39.2	88.7	54.98	594.8	-2,021.3	664.6	551.9	112.72	5.896	
12,875.0	12,452.6	16,918.2	12,061.8	39.2	89.1	54.44	570.0	-2,020.3	667.2	554.3	112.93	5.908	
12,900.0	12,456.3	16,943.0	12,062.6	39.2	89.5	54.06	545.2	-2,019.2	669.0	555.8	113.21	5.909	
12,925.0	12,458.8	16,960.0	12,063.2	39.2	89.7	53.88	528.2	-2,018.4	670.1	556.6	113.53	5.902	
12,950.0	12,459.9	16,960.0	12,063.2	39.2	89.7	53.78	528.2	-2,018.4	671.1	557.4	113.74	5.901	
12,958.9	12,460.0	16,960.0	12,063.2	39.2	89.7	53.74	528.2	-2,018.4	671.5	557.7	113.80	5.901	
13,000.0	12,460.0	16,960.0	12,063.2	39.2	89.7	53.75	528.2	-2,018.4	674.7	560.7	113.91	5.922	
13,100.0	12,460.0	16,960.0	12,063.2	39.3	89.7	53.80	528.2	-2,018.4	692.0	579.1	112.84	6.132	
13,200.0	12,460.0	16,960.0	12,063.2	39.4	89.7	53.90	528.2	-2,018.4	722.1	612.0	110.15	6.556	
13,300.0	12,460.0	16,960.0	12,063.2	39.5	89.7	54.04	528.2	-2,018.4	763.6	657.3	106.37	7.179	
13,400.0	12,460.0	16,960.0	12,063.2	39.7	89.7	54.22	528.2	-2,018.4	814.7	712.7	102.02	7.986	
13,449.1	12,460.0	16,960.0	12,063.2	39.7	89.7	54.32	528.2	-2,018.4	842.8	743.0	99.81	8.444	
13,500.0	12,460.0	16,960.0	12,063.2	39.8	89.7	54.32	528.2	-2,018.4	873.8	776.3	97.53	8.960	
13,600.0	12,460.0	16,960.0	12,063.2	40.0	89.7	54.32	528.2	-2,018.4	939.8	846.6	93.21	10.083	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 28 1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 797-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	0.0	12.0	3.0	0.0	130.23	-174.1	205.8	269.8				
100.0	100.0	88.8	100.8	3.1	4.0	130.19	-173.8	205.8	269.4	261.4	7.91	34.042	
200.0	200.0	189.8	201.8	3.3	8.6	130.04	-173.0	205.9	268.9	255.2	13.71	19.609	
300.0	300.0	290.7	302.7	3.5	13.2	129.77	-171.5	206.0	268.1	248.2	19.90	13.469	
400.0	400.0	391.6	403.5	3.8	17.8	129.40	-169.4	206.2	266.9	240.7	26.20	10.187	
500.0	500.0	492.5	504.4	4.0	22.4	128.91	-166.7	206.5	265.4	232.9	32.54	8.157	
600.0	600.0	593.3	605.2	4.1	27.0	128.30	-163.3	206.8	263.6	224.7	38.89	6.778	
700.0	700.0	694.1	705.9	4.3	31.6	127.56	-159.4	207.2	261.5	216.2	45.26	5.778	
800.0	800.0	794.8	806.5	4.5	36.1	126.70	-154.8	207.7	259.1	207.6	51.47	5.034	
854.9	854.9	843.3	854.9	4.6	36.3	126.27	-152.9	208.3	258.4	206.8	51.63	5.005	CC, ES, SF
900.0	900.0	888.0	899.6	4.7	36.3	125.91	-151.9	209.7	259.0	207.3	51.67	5.012	
1,000.0	1,000.0	980.1	991.7	4.8	36.3	125.34	-151.3	213.3	261.7	210.0	51.66	5.066	
1,100.0	1,100.0	1,080.4	1,091.9	5.0	36.3	124.93	-151.6	217.0	264.8	213.1	51.72	5.121	
1,200.0	1,200.0	1,181.5	1,192.9	5.2	36.3	124.68	-152.2	220.0	267.7	215.9	51.78	5.169	
1,300.0	1,300.0	1,282.3	1,293.7	5.3	36.4	124.56	-153.2	222.4	270.2	218.3	51.85	5.210	
1,400.0	1,400.0	1,383.5	1,394.9	5.5	36.4	124.58	-154.5	224.1	272.2	220.3	51.93	5.243	
1,500.0	1,500.0	1,484.0	1,495.3	5.6	36.4	124.68	-155.9	225.4	274.1	222.1	51.99	5.271	
1,600.0	1,600.0	1,585.3	1,596.6	5.8	36.4	124.84	-157.4	226.1	275.5	223.5	52.07	5.292	
1,700.0	1,700.0	1,686.8	1,698.1	5.9	36.5	125.08	-159.0	226.3	276.6	224.4	52.14	5.304	
1,800.0	1,800.0	1,788.9	1,800.2	6.0	36.5	125.42	-160.4	225.6	276.8	224.6	52.21	5.302	
1,900.0	1,900.0	1,890.1	1,901.4	6.2	36.5	125.90	-162.1	224.0	276.5	224.2	52.27	5.290	
2,000.0	2,000.0	1,991.0	2,002.2	6.3	36.5	126.52	-164.2	221.7	275.9	223.5	52.33	5.272	
2,025.8	2,025.8	2,017.1	2,028.3	6.4	36.5	-177.02	-164.6	221.1	275.8	223.4	52.34	5.268	
2,100.0	2,100.0	2,091.0	2,102.2	6.5	36.5	-176.61	-165.9	219.3	276.7	224.3	52.40	5.282	
2,200.0	2,199.8	2,191.5	2,202.7	6.7	36.5	-176.14	-167.4	217.1	281.1	228.6	52.47	5.357	
2,300.0	2,299.5	2,292.0	2,303.1	7.0	36.5	-175.82	-168.4	214.8	288.7	236.1	52.56	5.492	
2,400.0	2,398.7	2,392.1	2,403.2	7.2	36.6	-175.55	-169.3	212.4	299.4	246.8	52.64	5.688	
2,500.0	2,497.5	2,491.7	2,502.8	7.5	36.6	-175.30	-170.3	209.6	313.4	260.7	52.74	5.943	
2,600.0	2,595.6	2,589.4	2,600.4	7.8	36.6	-175.11	-171.2	206.9	330.9	278.0	52.84	6.262	
2,700.0	2,693.1	2,686.0	2,697.0	8.1	36.6	-174.99	-172.2	204.4	352.0	299.1	52.95	6.648	
2,757.7	2,748.9	2,741.9	2,752.8	8.2	36.6	-174.97	-172.8	203.2	365.9	312.9	53.01	6.902	
2,800.0	2,789.7	2,782.9	2,793.8	8.3	36.6	-174.99	-173.2	202.3	376.5	323.4	53.05	7.097	
2,900.0	2,886.2	2,876.9	2,887.8	8.6	36.6	-175.06	-174.0	200.8	401.8	348.6	53.16	7.559	
3,000.0	2,982.8	2,968.3	2,979.2	8.9	36.7	-175.24	-174.7	200.4	428.0	374.8	53.26	8.036	
3,100.0	3,079.3	3,057.5	3,068.4	9.2	36.7	-175.55	-175.3	201.8	455.6	402.3	53.36	8.539	
3,200.0	3,175.8	3,151.3	3,162.2	9.6	36.7	-176.03	-175.3	205.0	484.3	430.8	53.49	9.055	
3,300.0	3,272.3	3,248.7	3,259.4	9.9	36.7	-176.65	-174.1	209.3	513.0	459.4	53.65	9.562	
3,400.0	3,368.9	3,344.8	3,355.5	10.3	36.7	-177.27	-172.1	213.7	541.5	487.7	53.82	10.062	
3,500.0	3,465.4	3,445.3	3,455.8	10.6	36.8	-177.88	-169.7	218.1	569.7	515.7	54.01	10.549	
3,600.0	3,561.9	3,546.1	3,556.5	11.0	36.8	-178.29	-167.9	221.0	597.1	542.9	54.21	11.015	
3,700.0	3,658.4	3,646.6	3,657.0	11.4	36.8	-178.56	-166.6	222.6	623.7	569.3	54.41	11.465	
3,800.0	3,755.0	3,732.0	3,742.4	11.8	36.8	-178.74	-166.0	224.2	650.9	596.3	54.56	11.930	
3,900.0	3,851.5	3,819.9	3,830.3	12.2	36.9	-178.90	-166.1	226.8	679.5	624.8	54.73	12.415	
4,000.0	3,948.0	3,914.3	3,924.6	12.6	36.9	-179.05	-166.8	230.1	708.8	653.9	54.95	12.899	
4,100.0	4,044.5	4,001.5	4,011.7	13.1	36.9	-179.16	-168.0	233.3	738.6	683.4	55.14	13.395	
4,200.0	4,141.0	4,089.3	4,099.4	13.5	36.9	-179.23	-170.0	237.2	769.5	714.1	55.34	13.906	
4,300.0	4,237.6	4,190.6	4,200.6	13.9	37.0	-179.22	-173.4	241.4	800.7	745.1	55.64	14.392	
4,400.0	4,334.1	4,292.5	4,302.3	14.4	37.0	-179.15	-177.0	244.2	830.9	775.0	55.93	14.856	
4,500.0	4,430.6	4,405.6	4,415.4	14.8	37.1	-179.17	-178.8	246.7	859.8	803.5	56.29	15.274	
4,600.0	4,527.1	4,502.6	4,512.4	15.2	37.1	-179.17	-180.1	247.9	887.5	831.0	56.58	15.687	
4,700.0	4,623.7	4,602.4	4,612.2	15.7	37.2	-179.16	-181.4	248.7	915.1	858.2	56.88	16.087	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 28 1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 797-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	4,720.2	4,699.8	4,709.6	16.1	37.2	-179.15	-182.5	249.4	942.4	885.2	57.19	16.478	
4,900.0	4,816.7	4,796.2	4,806.0	16.6	37.2	-179.14	-183.5	250.0	969.6	912.1	57.50	16.863	
5,000.0	4,913.2	4,889.0	4,898.8	17.0	37.3	-179.14	-184.5	250.8	997.0	939.2	57.80	17.249	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 28 1H - ST01 - AWP

Offset Site Error: 0.0 usft

Survey Program: 797-r.5 MWD, 8616-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	0.0	12.0	3.0	0.0	130.23	-174.1	205.8	269.8				
100.0	100.0	88.8	100.8	3.1	4.0	130.19	-173.8	205.8	269.4	261.4	7.91	34.042	
200.0	200.0	189.8	201.8	3.3	8.6	130.04	-173.0	205.9	268.9	255.2	13.71	19.609	
300.0	300.0	290.7	302.7	3.5	13.2	129.77	-171.5	206.0	268.1	248.2	19.90	13.469	
400.0	400.0	391.6	403.5	3.8	17.8	129.40	-169.4	206.2	266.9	240.7	26.20	10.187	
500.0	500.0	492.5	504.4	4.0	22.4	128.91	-166.7	206.5	265.4	232.9	32.54	8.157	
600.0	600.0	593.3	605.2	4.1	27.0	128.30	-163.3	206.8	263.6	224.7	38.89	6.778	
700.0	700.0	694.1	705.9	4.3	31.6	127.56	-159.4	207.2	261.5	216.2	45.26	5.778	
800.0	800.0	794.8	806.5	4.5	36.1	126.70	-154.8	207.7	259.1	207.6	51.47	5.034	
854.9	854.9	843.3	854.9	4.6	36.3	126.27	-152.9	208.3	258.4	206.8	51.63	5.005	CC, ES, SF
900.0	900.0	888.0	899.6	4.7	36.3	125.91	-151.9	209.7	259.0	207.3	51.67	5.012	
1,000.0	1,000.0	980.1	991.7	4.8	36.3	125.34	-151.3	213.3	261.7	210.0	51.66	5.066	
1,100.0	1,100.0	1,080.4	1,091.9	5.0	36.3	124.93	-151.6	217.0	264.8	213.1	51.72	5.121	
1,200.0	1,200.0	1,181.5	1,192.9	5.2	36.3	124.68	-152.2	220.0	267.7	215.9	51.78	5.169	
1,300.0	1,300.0	1,282.3	1,293.7	5.3	36.4	124.56	-153.2	222.4	270.2	218.3	51.85	5.210	
1,400.0	1,400.0	1,383.5	1,394.9	5.5	36.4	124.58	-154.5	224.1	272.2	220.3	51.93	5.243	
1,500.0	1,500.0	1,484.0	1,495.3	5.6	36.4	124.68	-155.9	225.4	274.1	222.1	51.99	5.271	
1,600.0	1,600.0	1,585.3	1,596.6	5.8	36.4	124.84	-157.4	226.1	275.5	223.5	52.07	5.292	
1,700.0	1,700.0	1,686.8	1,698.1	5.9	36.5	125.08	-159.0	226.3	276.6	224.4	52.14	5.304	
1,800.0	1,800.0	1,788.9	1,800.2	6.0	36.5	125.42	-160.4	225.6	276.8	224.6	52.21	5.302	
1,900.0	1,900.0	1,890.1	1,901.4	6.2	36.5	125.90	-162.1	224.0	276.5	224.2	52.27	5.290	
2,000.0	2,000.0	1,991.0	2,002.2	6.3	36.5	126.52	-164.2	221.7	275.9	223.5	52.33	5.272	
2,025.8	2,025.8	2,017.1	2,028.3	6.4	36.5	-177.02	-164.6	221.1	275.8	223.4	52.34	5.268	
2,100.0	2,100.0	2,091.0	2,102.2	6.5	36.5	-176.61	-165.9	219.3	276.7	224.3	52.40	5.282	
2,200.0	2,199.8	2,191.5	2,202.7	6.7	36.5	-176.14	-167.4	217.1	281.1	228.6	52.47	5.357	
2,300.0	2,299.5	2,292.0	2,303.1	7.0	36.5	-175.82	-168.4	214.8	288.7	236.1	52.56	5.492	
2,400.0	2,398.7	2,392.1	2,403.2	7.2	36.6	-175.55	-169.3	212.4	299.4	246.8	52.64	5.688	
2,500.0	2,497.5	2,491.7	2,502.8	7.5	36.6	-175.30	-170.3	209.6	313.4	260.7	52.74	5.943	
2,600.0	2,595.6	2,589.4	2,600.4	7.8	36.6	-175.11	-171.2	206.9	330.9	278.0	52.84	6.262	
2,700.0	2,693.1	2,686.0	2,697.0	8.1	36.6	-174.99	-172.2	204.4	352.0	299.1	52.95	6.648	
2,757.7	2,748.9	2,741.9	2,752.8	8.2	36.6	-174.97	-172.8	203.2	365.9	312.9	53.01	6.902	
2,800.0	2,789.7	2,782.9	2,793.8	8.3	36.6	-174.99	-173.2	202.3	376.5	323.4	53.05	7.097	
2,900.0	2,886.2	2,876.9	2,887.8	8.6	36.6	-175.06	-174.0	200.8	401.8	348.6	53.16	7.559	
3,000.0	2,982.8	2,968.3	2,979.2	8.9	36.7	-175.24	-174.7	200.4	428.0	374.8	53.26	8.036	
3,100.0	3,079.3	3,057.5	3,068.4	9.2	36.7	-175.55	-175.3	201.8	455.6	402.3	53.36	8.539	
3,200.0	3,175.8	3,151.3	3,162.2	9.6	36.7	-176.03	-175.3	205.0	484.3	430.8	53.49	9.055	
3,300.0	3,272.3	3,248.7	3,259.4	9.9	36.7	-176.65	-174.1	209.3	513.0	459.4	53.65	9.562	
3,400.0	3,368.9	3,344.8	3,355.5	10.3	36.7	-177.27	-172.1	213.7	541.5	487.7	53.82	10.062	
3,500.0	3,465.4	3,445.3	3,455.8	10.6	36.8	-177.88	-169.7	218.1	569.7	515.7	54.01	10.549	
3,600.0	3,561.9	3,546.1	3,556.5	11.0	36.8	-178.29	-167.9	221.0	597.1	542.9	54.21	11.015	
3,700.0	3,658.4	3,646.6	3,657.0	11.4	36.8	-178.56	-166.6	222.6	623.7	569.3	54.41	11.465	
3,800.0	3,755.0	3,732.0	3,742.4	11.8	36.8	-178.74	-166.0	224.2	650.9	596.3	54.56	11.930	
3,900.0	3,851.5	3,819.9	3,830.3	12.2	36.9	-178.90	-166.1	226.8	679.5	624.8	54.73	12.415	
4,000.0	3,948.0	3,914.3	3,924.6	12.6	36.9	-179.05	-166.8	230.1	708.8	653.9	54.95	12.899	
4,100.0	4,044.5	4,001.5	4,011.7	13.1	36.9	-179.16	-168.0	233.3	738.6	683.4	55.14	13.395	
4,200.0	4,141.0	4,089.3	4,099.4	13.5	36.9	-179.23	-170.0	237.2	769.5	714.1	55.34	13.906	
4,300.0	4,237.6	4,190.6	4,200.6	13.9	37.0	-179.22	-173.4	241.4	800.7	745.1	55.64	14.392	
4,400.0	4,334.1	4,292.5	4,302.3	14.4	37.0	-179.15	-177.0	244.2	830.9	775.0	55.93	14.856	
4,500.0	4,430.6	4,405.6	4,415.4	14.8	37.1	-179.17	-178.8	246.7	859.8	803.6	56.18	15.304	
4,600.0	4,527.1	4,502.6	4,512.4	15.2	37.1	-179.17	-180.1	247.9	887.5	831.1	56.47	15.717	
4,700.0	4,623.7	4,602.4	4,612.2	15.7	37.2	-179.16	-181.4	248.7	915.1	858.3	56.78	16.117	

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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 28 1H - ST01 - AWP

Offset Site Error: 0.0 usft

Survey Program: 797-r.5 MWD, 8616-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	4,720.2	4,699.8	4,709.6	16.1	37.2	-179.15	-182.5	249.4	942.4	885.3	57.08	16.510	
4,900.0	4,816.7	4,796.2	4,806.0	16.6	37.2	-179.14	-183.5	250.0	969.6	912.2	57.39	16.895	
5,000.0	4,913.2	4,889.0	4,898.8	17.0	37.3	-179.14	-184.5	250.8	997.0	939.3	57.69	17.282	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 28 2H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-GYD-CT-CMS, 4372-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
2,700.0	2,693.1	2,679.6	2,673.0	8.1	5.4	-30.71	109.2	-1,060.3	991.6	977.7	13.98	70.938	
2,757.7	2,748.9	2,736.7	2,730.1	8.2	5.5	-31.29	108.9	-1,061.4	980.2	966.1	14.13	69.380	
2,800.0	2,789.7	2,778.4	2,771.8	8.3	5.5	-31.66	108.6	-1,062.2	971.5	957.2	14.23	68.256	
2,900.0	2,886.2	2,880.7	2,874.0	8.6	5.6	-32.58	107.7	-1,063.9	950.7	936.1	14.56	65.296	
3,000.0	2,982.8	3,005.1	2,998.4	8.9	5.7	-33.71	107.5	-1,063.9	928.6	913.6	14.97	62.051	
3,100.0	3,079.3	3,121.1	3,114.4	9.2	6.0	-34.81	107.4	-1,060.6	904.0	888.5	15.47	58.436	
3,200.0	3,175.8	3,226.0	3,219.2	9.6	6.3	-35.84	107.8	-1,055.8	877.9	861.9	15.96	54.996	
3,300.0	3,272.3	3,319.5	3,312.6	9.9	6.5	-36.78	108.8	-1,051.4	851.8	835.4	16.45	51.777	
3,400.0	3,368.9	3,416.1	3,409.1	10.3	6.7	-37.77	110.3	-1,046.7	826.0	809.0	16.95	48.737	
3,500.0	3,465.4	3,505.6	3,498.5	10.6	7.0	-38.72	111.9	-1,042.8	800.7	783.3	17.44	45.907	
3,600.0	3,561.9	3,596.3	3,589.1	11.0	7.2	-39.75	113.4	-1,039.4	776.4	758.5	17.94	43.282	
3,700.0	3,658.4	3,694.1	3,686.8	11.4	7.4	-40.93	115.1	-1,036.0	752.6	734.2	18.43	40.829	
3,800.0	3,755.0	3,798.5	3,791.1	11.8	7.7	-42.32	116.3	-1,031.6	728.5	709.6	18.92	38.499	
3,900.0	3,851.5	3,889.7	3,882.2	12.2	7.9	-43.69	116.5	-1,027.3	704.4	685.0	19.41	36.295	
4,000.0	3,948.0	3,984.1	3,976.5	12.6	8.2	-45.25	116.1	-1,023.2	681.2	661.3	19.88	34.267	
4,100.0	4,044.5	4,081.4	4,073.7	13.1	8.4	-47.06	114.6	-1,018.6	658.5	638.2	20.32	32.399	
4,200.0	4,141.0	4,175.0	4,167.1	13.5	8.6	-49.03	112.2	-1,013.6	636.1	615.3	20.75	30.659	
4,300.0	4,237.6	4,269.1	4,261.1	13.9	8.9	-51.12	109.8	-1,008.8	614.7	593.5	21.20	28.995	
4,400.0	4,334.1	4,359.6	4,351.5	14.4	9.2	-53.19	108.1	-1,005.1	594.9	573.2	21.64	27.491	
4,500.0	4,430.6	4,451.5	4,443.3	14.8	9.3	-55.36	106.6	-1,002.1	576.7	554.9	21.73	26.534	
4,600.0	4,527.1	4,538.8	4,530.6	15.2	9.4	-57.46	105.5	-1,000.3	560.4	538.4	21.99	25.479	
4,700.0	4,623.7	4,633.4	4,625.2	15.7	9.5	-59.64	105.9	-1,000.2	546.1	523.9	22.22	24.577	
4,800.0	4,720.2	4,728.9	4,720.7	16.1	9.5	-61.85	107.1	-1,000.5	532.7	510.3	22.42	23.766	
4,900.0	4,816.7	4,826.2	4,818.0	16.6	9.6	-64.18	108.5	-1,001.1	520.4	497.8	22.59	23.040	
5,000.0	4,913.2	4,923.1	4,914.9	17.0	9.7	-66.58	110.0	-1,001.7	508.9	486.2	22.75	22.369	
5,100.0	5,009.8	5,015.2	5,006.9	17.5	9.7	-68.92	111.5	-1,002.8	498.8	475.8	22.91	21.767	
5,200.0	5,106.3	5,113.3	5,105.0	18.0	9.8	-71.44	113.2	-1,004.6	490.1	467.1	23.06	21.254	
5,300.0	5,202.8	5,209.1	5,200.8	18.4	9.9	-73.95	115.2	-1,006.6	482.4	459.2	23.22	20.778	
5,400.0	5,299.3	5,299.0	5,290.7	18.9	10.0	-76.38	116.5	-1,008.9	476.6	453.2	23.39	20.374	
5,500.0	5,395.8	5,388.6	5,380.2	19.4	10.0	-78.93	116.2	-1,011.8	473.5	449.9	23.56	20.096	
5,600.0	5,492.4	5,497.3	5,488.8	19.8	10.1	-82.10	115.6	-1,015.1	471.5	447.8	23.75	19.854	
5,700.0	5,588.9	5,596.2	5,587.7	20.3	10.2	-84.98	116.7	-1,017.0	468.9	445.0	23.99	19.547	
5,800.0	5,685.4	5,691.0	5,682.5	20.8	10.3	-87.75	118.1	-1,018.7	467.2	442.9	24.28	19.243	
5,834.9	5,719.2	5,724.9	5,716.4	20.9	10.4	-88.74	118.5	-1,019.4	467.0	442.6	24.40	19.142 CC, ES	
5,900.0	5,781.9	5,784.0	5,775.5	21.2	10.5	-90.49	118.5	-1,020.9	467.8	443.2	24.62	18.997	
6,000.0	5,878.5	5,872.7	5,864.1	21.7	10.5	-93.12	117.4	-1,023.5	471.3	446.3	25.00	18.856	
6,100.0	5,975.0	5,969.6	5,960.9	22.2	10.6	-95.94	115.7	-1,026.7	476.6	451.1	25.45	18.730	
6,200.0	6,071.5	6,066.4	6,057.7	22.7	10.7	-98.70	114.1	-1,029.9	483.0	457.1	25.96	18.609	
6,300.0	6,168.0	6,164.6	6,155.8	23.1	10.8	-101.43	112.6	-1,032.9	490.5	464.0	26.54	18.485	
6,400.0	6,264.6	6,261.3	6,252.4	23.6	10.9	-104.05	111.1	-1,035.7	499.0	471.9	27.17	18.368	
6,500.0	6,361.1	6,358.2	6,349.3	24.1	11.1	-106.57	109.6	-1,038.8	508.6	480.8	27.85	18.263	
6,600.0	6,457.6	6,456.6	6,447.6	24.6	11.2	-109.02	108.3	-1,042.0	519.0	490.4	28.58	18.159	
6,700.0	6,554.1	6,551.2	6,542.2	25.1	11.3	-111.31	106.9	-1,044.8	530.5	501.1	29.33	18.085	
6,800.0	6,650.6	6,647.8	6,638.7	25.5	11.5	-113.55	105.3	-1,047.7	543.1	512.9	30.12	18.028	
6,900.0	6,747.2	6,746.7	6,737.6	26.0	11.6	-115.73	103.8	-1,050.8	556.3	525.3	30.96	17.969	
7,000.0	6,843.7	6,848.2	6,839.0	26.5	11.8	-117.84	102.5	-1,054.2	569.9	538.1	31.83	17.907	
7,100.0	6,940.2	6,957.1	6,947.8	27.0	12.0	-119.91	103.5	-1,058.5	582.3	549.5	32.77	17.771	
7,200.0	7,036.7	7,054.3	7,045.0	27.5	12.2	-121.64	105.0	-1,062.7	594.6	561.0	33.61	17.693	
7,300.0	7,133.3	7,150.4	7,140.9	28.0	12.3	-123.30	106.3	-1,066.8	607.6	573.2	34.46	17.635	
7,400.0	7,229.8	7,245.4	7,235.8	28.4	12.5	-124.87	107.3	-1,070.8	621.5	586.2	35.30	17.605	
7,500.0	7,326.3	7,340.9	7,331.2	28.9	12.7	-126.37	107.9	-1,074.9	636.2	600.1	36.16	17.596 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 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 28 2H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-GYD-CT-CMS, 4372-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
7,600.0	7,422.8	7,437.2	7,427.4	29.4	12.9	-127.81	108.3	-1,079.0	651.6	614.6	37.02	17.601	
7,700.0	7,519.4	7,533.6	7,523.8	29.9	13.1	-129.21	108.5	-1,082.9	667.6	629.7	37.89	17.617	
7,800.0	7,615.9	7,630.0	7,620.1	30.4	13.3	-130.55	108.7	-1,086.8	684.0	645.3	38.76	17.646	
7,900.0	7,712.4	7,726.0	7,716.1	30.9	13.6	-131.84	108.7	-1,090.5	701.0	661.4	39.63	17.687	
8,000.0	7,808.9	7,820.9	7,810.9	31.4	13.8	-133.05	108.5	-1,094.0	718.6	678.1	40.49	17.747	
8,100.0	7,905.4	7,915.2	7,905.1	31.9	14.0	-134.22	108.0	-1,097.2	736.8	695.5	41.34	17.825	
8,200.0	8,002.0	8,011.7	8,001.5	32.3	14.2	-135.33	107.1	-1,100.9	755.7	713.5	42.19	17.910	
8,300.0	8,098.5	8,108.9	8,098.6	32.8	14.4	-136.40	106.2	-1,104.6	774.8	731.7	43.05	17.997	
8,400.0	8,195.0	8,202.6	8,192.2	33.3	14.6	-137.37	105.2	-1,108.2	794.3	750.4	43.87	18.107	
8,500.0	8,291.5	8,301.1	8,290.7	33.8	14.8	-138.35	103.8	-1,111.9	814.3	769.6	44.72	18.208	
8,511.1	8,302.3	8,312.5	8,302.1	33.9	14.9	-138.46	103.7	-1,112.3	816.5	771.7	44.82	18.219	
8,600.0	8,388.2	8,398.5	8,388.0	34.3	15.1	-139.36	102.8	-1,115.4	833.8	788.2	45.56	18.301	
8,700.0	8,485.4	8,494.9	8,484.4	34.8	15.3	-140.27	101.7	-1,118.7	852.2	805.9	46.34	18.390	
8,800.0	8,582.9	8,566.2	8,555.6	35.3	15.4	-140.86	100.1	-1,121.4	870.7	823.9	46.81	18.602	
8,900.0	8,680.8	8,620.0	8,609.1	35.7	15.5	-141.16	95.9	-1,124.8	892.1	845.2	46.96	18.998	
9,000.0	8,779.0	8,674.0	8,662.4	36.2	15.6	-141.31	88.3	-1,129.2	917.3	870.3	46.99	19.521	
9,100.0	8,877.6	8,720.0	8,707.2	36.6	15.7	-141.32	79.1	-1,134.0	945.9	899.1	46.82	20.204	
9,200.0	8,976.4	8,767.0	8,752.3	37.1	15.8	-141.23	67.1	-1,139.7	978.0	931.5	46.56	21.006	

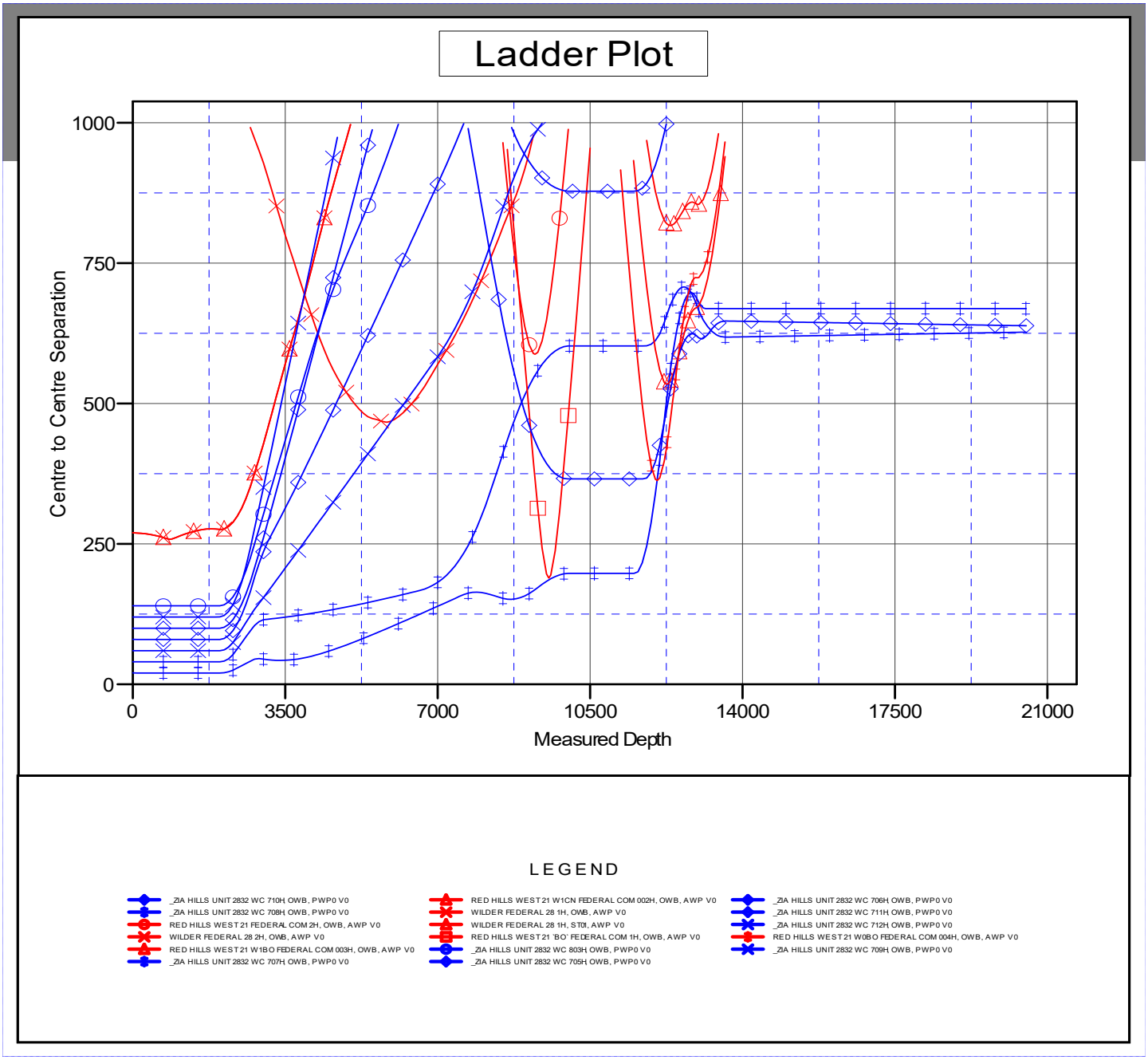
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 @ 3173.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 802H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.35°



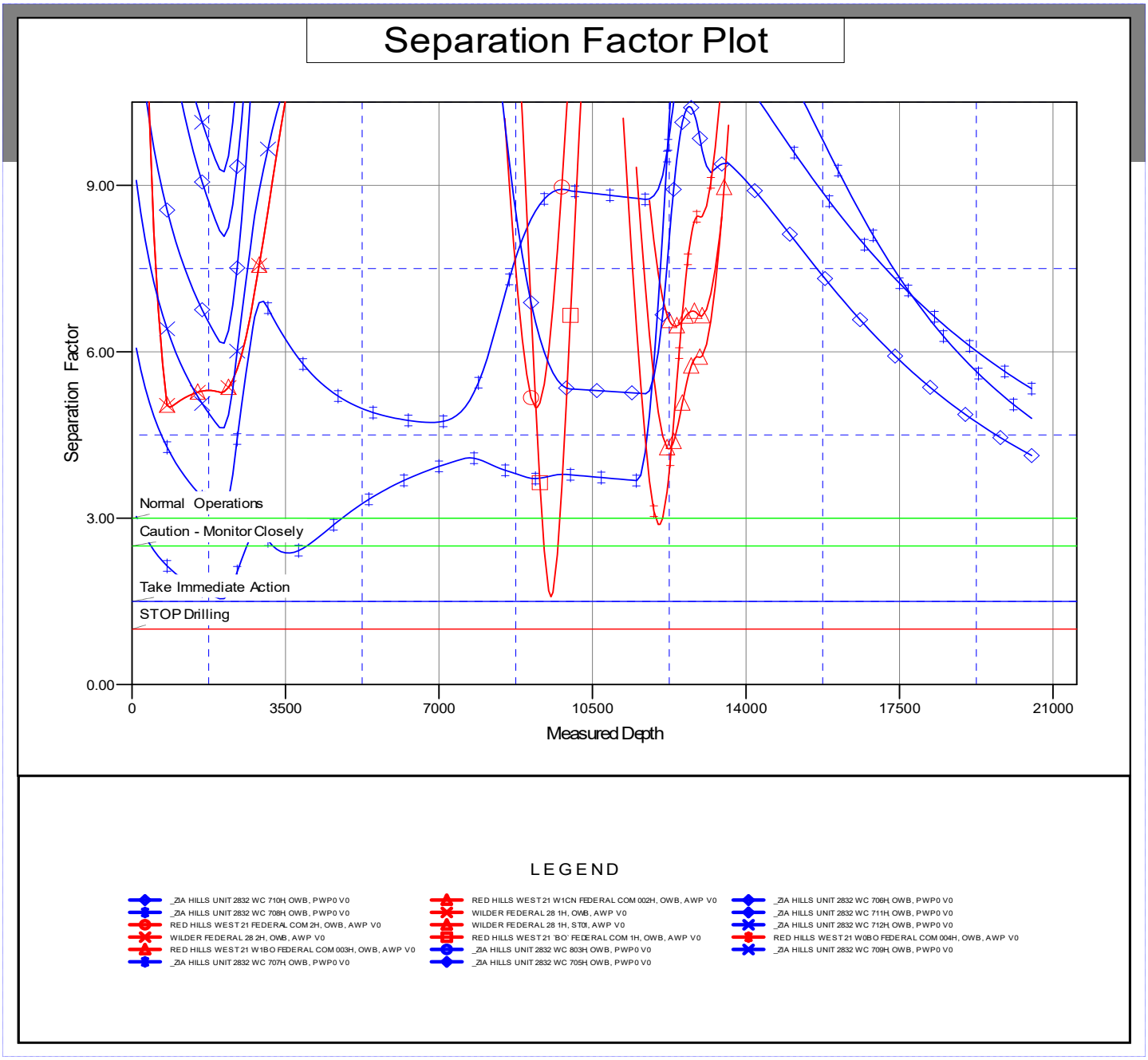
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2832 WC 802H
Project:	ZIA HILLS UNIT AREA	**TVD Reference:**	KB @ 3173.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	**MD Reference:**	KB @ 3173.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 802H	**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 @ 3173.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 802H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.35°

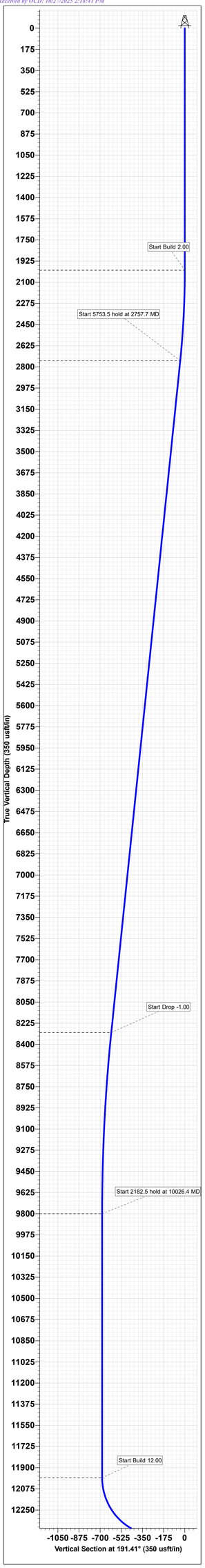


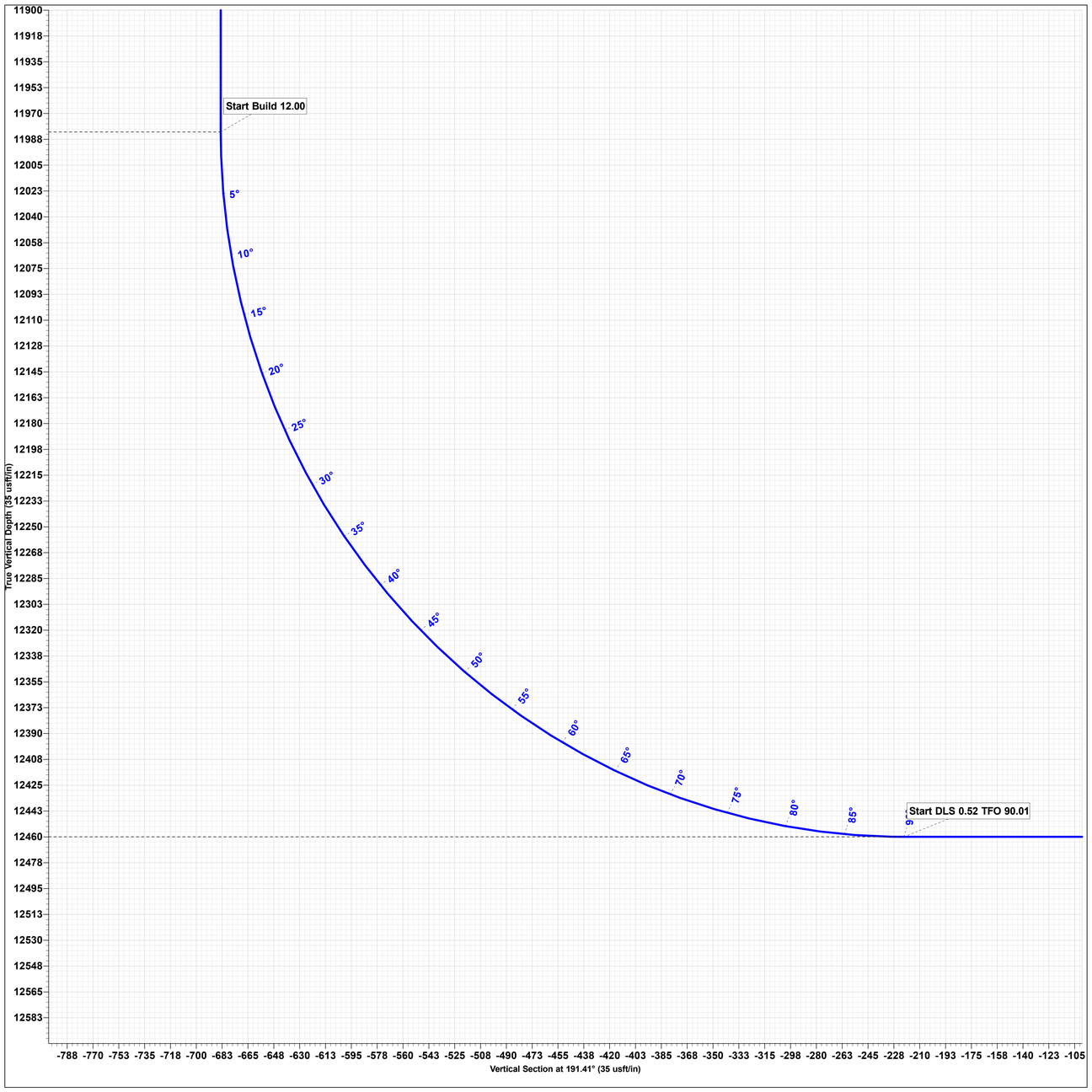
ConocoPhillips

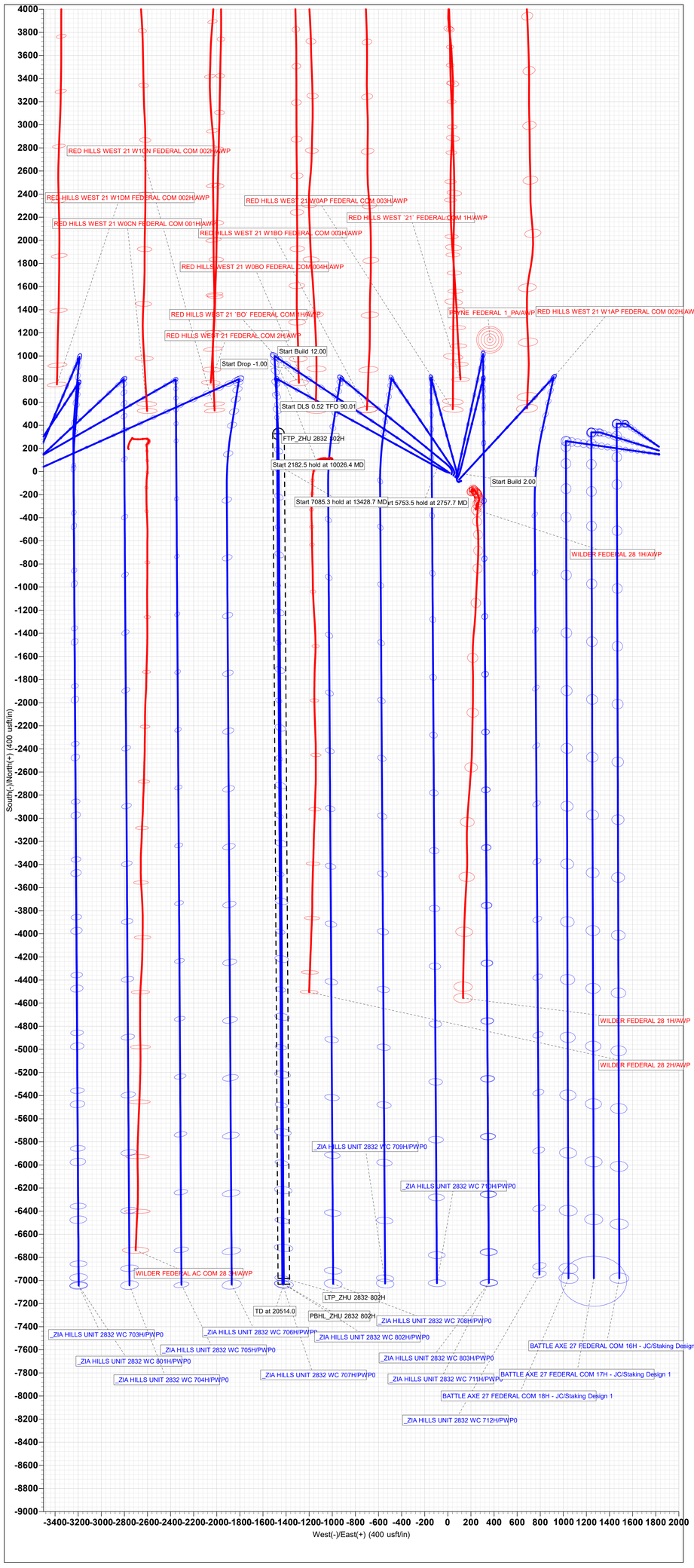
Project:	ZIA HILLS UNIT AREA
Site:	ZIA HILLS UNIT 2832 PROJECT
Well:	_ZIA HILLS UNIT 2832 WC 802H
Wellbore:	OWB
Design:	PWP0

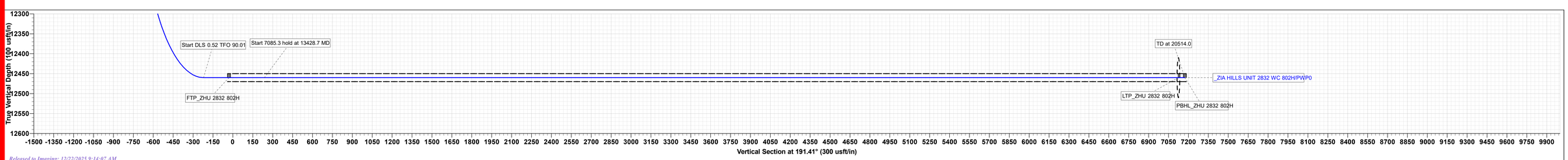
SECTION DETAILS

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
2757.7	15.15	303.69	2748.9	55.3	-82.9	2.00	303.69	-37.8
8511.1	15.15	303.69	8302.3	889.5	-1334.2	0.00	0.00	-607.9
10026.4	0.00	0.00	9800.0	1000.0	-1500.0	1.00	180.00	-683.5
12208.9	0.00	0.00	11982.5	1000.0	-1500.0	0.00	0.00	-683.5
12958.9	90.00	177.20	12460.0	523.1	-1476.7	12.00	177.20	-220.6
13428.7	90.00	179.64	12460.0	53.6	-1463.7	0.52	90.01	237.1
20514.0	90.00	179.64	12460.0	-7031.6	-1419.2	0.00	0.00	7173.4









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.

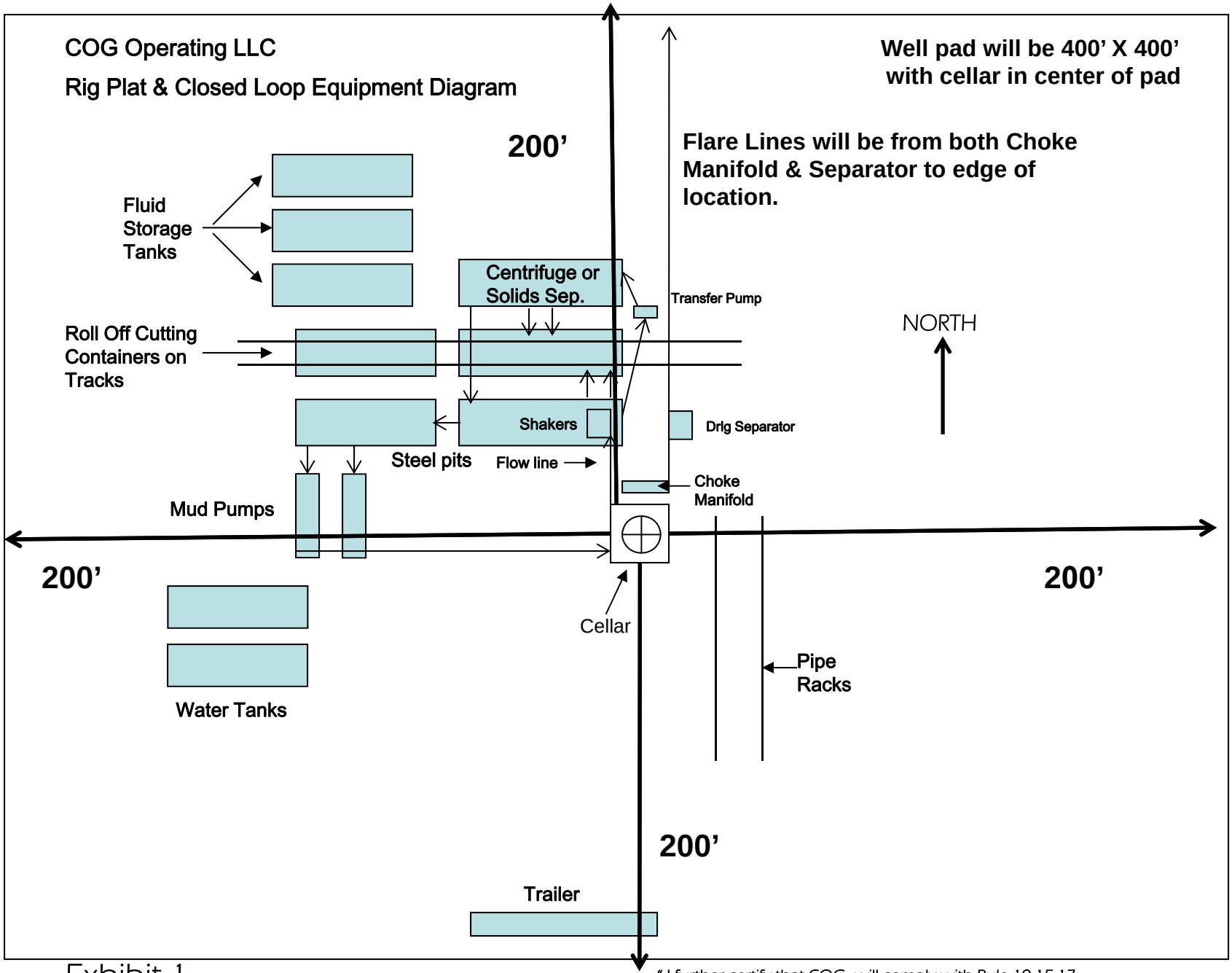


Exhibit 1

" 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 707H	30-025-	A-28-26S-32E	447 FNL & 1024 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 708H	30-025-	A-28-26S-32E	458 FNL & 1008 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 709H	30-025-	A-28-26S-32E	470 FNL & 991 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 710H	30-025-	A-28-26S-32E	482 FNL & 975 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 711H	30-025-	A-28-26S-32E	494 FNL & 959 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 712H	30-025-	A-28-26S-32E	505 FNL & 943 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 802H	30-025-	A-28-26S-32E	435 FNL & 1040 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 803H	30-025-	A-28-26S-32E	517 FNL & 927 FEL	± 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
707H, 708H, 709H, 710H, 711H, 712H, 802H, 803H						

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	Stan Wagner
Printed Name:	Stan Wagner
Title:	Regulatory Advisor
E-mail Address:	stan.s.wagner@conocophillips.com
Date:	01/30/2025
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

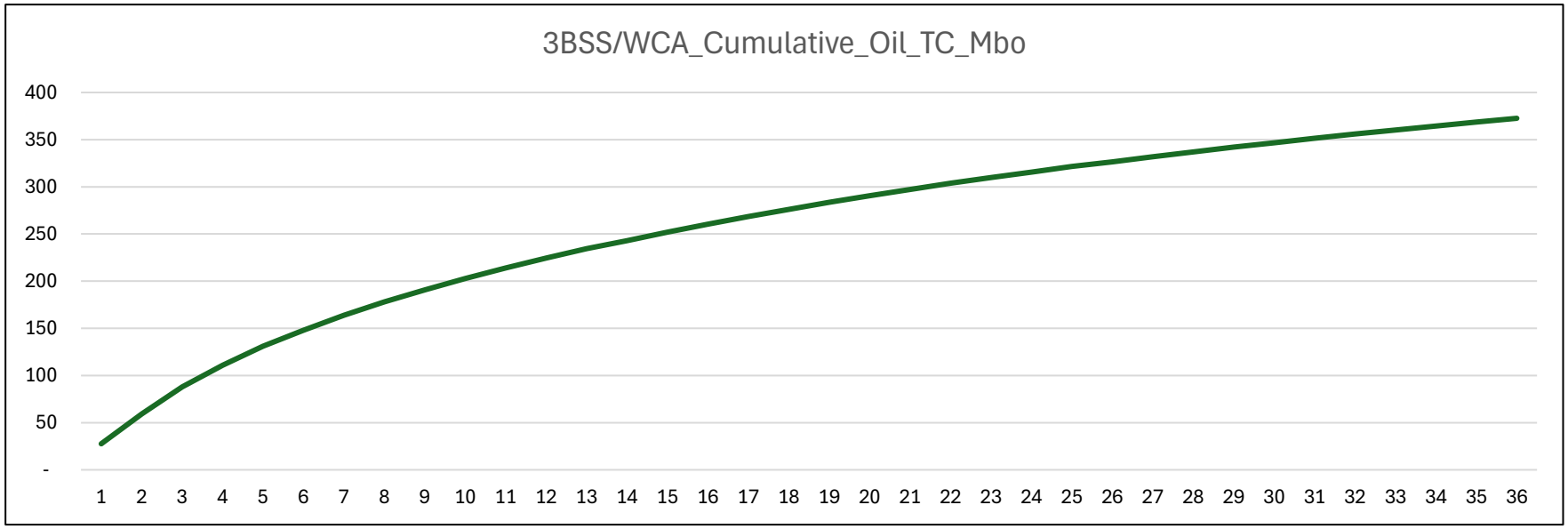
(3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.

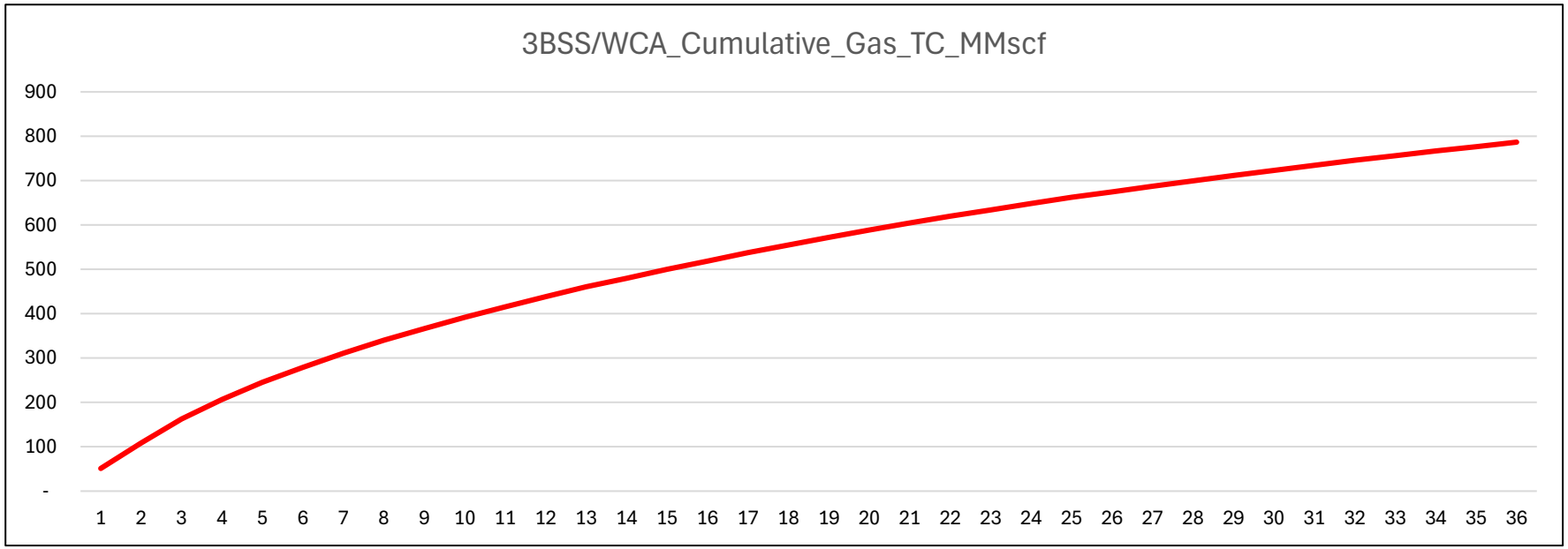
   a. See attached NMOCD – Natural Gas Management Plan

(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 802H
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 **820 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **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.
- 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 7/1/2025

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: 520295
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
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	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.	12/22/2025
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.	12/22/2025
jeffrey.harrison	Administrative order required for non-standard spacing unit prior to production.	12/22/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/22/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/22/2025
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.	12/22/2025
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.	12/22/2025