

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-55670
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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

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

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 10/23/2025

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 366 FNL / 716 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019855 / LONG: -103.686298 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 1065 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020586 / LONG: -103.685173 (TVD: 12450 feet, MD: 13011 feet)

BHL: LOT 4 / 50 FSL / 1065 FWL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.00036 / LONG: -103.685166 (TVD: 12450 feet, MD: 20368 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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

WELL LOCATION INFORMATION

API Number 30-025-55670	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 338328	Property Name ZIA HILLS UNIT 2832 WC	Well Number 801H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,160.59'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL D	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 366' FNL	Ft. from E/W 716' FWL	Latitude 32.019855°	Longitude -103.686298°	County LEA
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Bottom Hole Location

UL LOT 4	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 1,065' FWL	Latitude 32.000360°	Longitude -103.685166°	County LEA
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Dedicated Acres 898.82	Infill or Defining Well Infill	Defining Well API Pending 704H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL M	Section 21	Township 26S	Range 32E	Lot	Ft. from N/S 576' FSL	Ft. from E/W 1,121' FWL	Latitude 32.022446°	Longitude -103.684990°	County LEA
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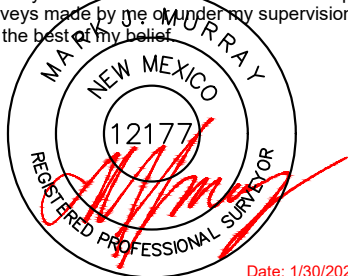
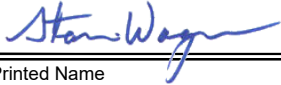
First Take Point (FTP)

UL D	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,065' FWL	Latitude 32.020586°	Longitude -103.685173°	County LEA
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Last Take Point (LTP)

UL LOT 4	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1,065' FWL	Latitude 32.000498°	Longitude -103.685166°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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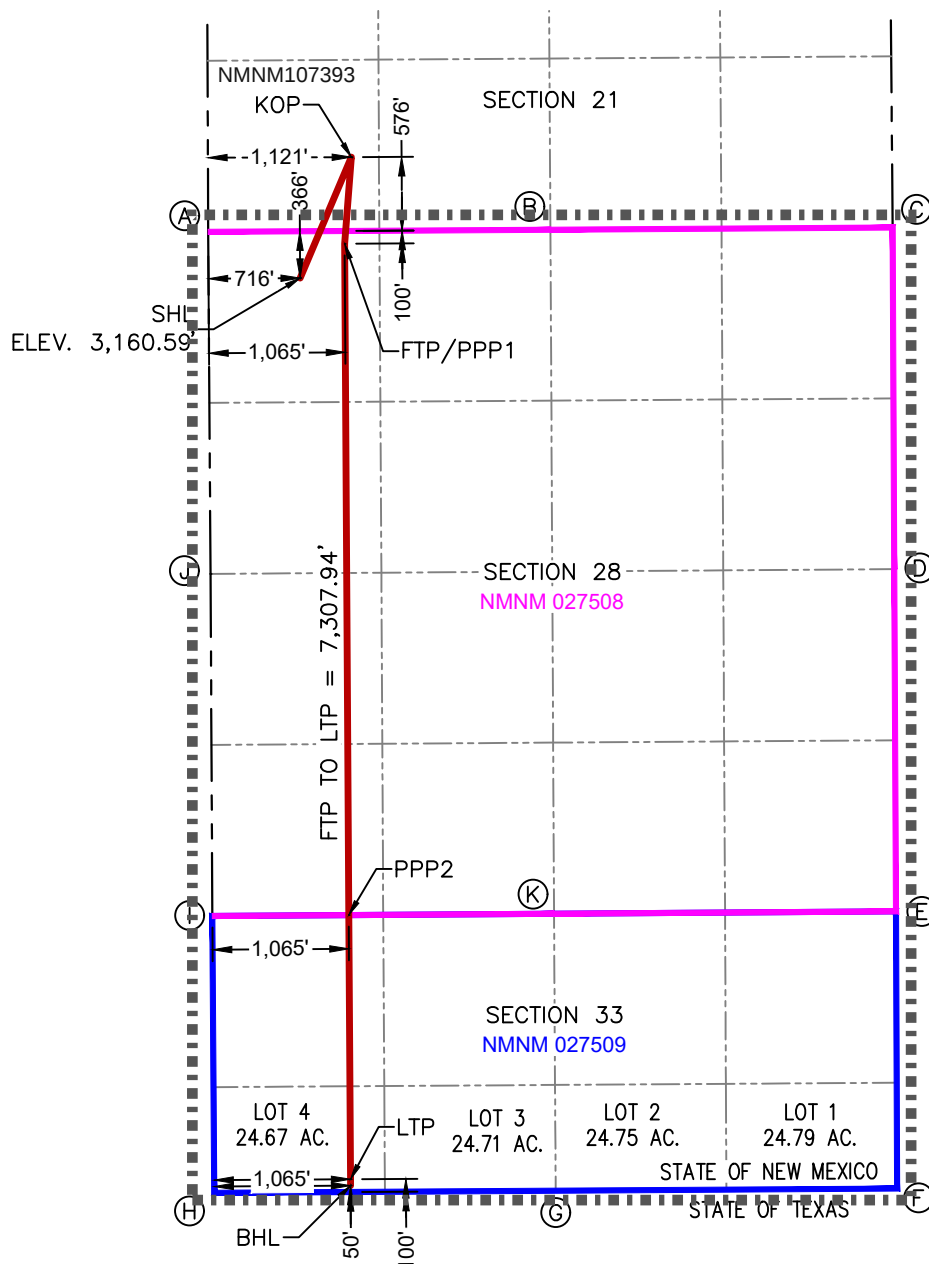
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.		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 	Date 4/15/25	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner		Certificate Number 12177	Date of Survey 1/30/2025
Email Address			

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

ACREAGE DEDICATION PLATS

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

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



SURFACE HOLE LOCATION
366' FNL & 716' FWL
ELEV.=3,160.59'

NAD 83 X = 741,869.31'
NAD 83 Y = 371,562.51'
NAD 83 LAT = 32.019855°
NAD 83 LONG = -103.686298°

KICK-OFF POINT
576' FSL & 1,121' FWL

NAD 83 X = 742,269.12'
NAD 83 Y = 372,507.47'
NAD 83 LAT = 32.022446°
NAD 83 LONG = -103.684990°

FIRST TAKE POINT & PENETRATION POINT 1
100' FNL & 1,065' FWL

NAD 83 X = 742,216.46'
NAD 83 Y = 371,830.67'
NAD 83 LAT = 32.020586°
NAD 83 LONG = -103.685173°

PENETRATION POINT 2
0' FNL & 1,065' FWL

NAD 83 X = 742,248.37'
NAD 83 Y = 366,586.56'
NAD 83 LAT = 32.006171°
NAD 83 LONG = -103.685172°

LAST TAKE POINT
100' FSL & 1,065' FWL

NAD 83 X = 742,262.34'
NAD 83 Y = 364,522.88'
NAD 83 LAT = 32.000498°
NAD 83 LONG = -103.685166°

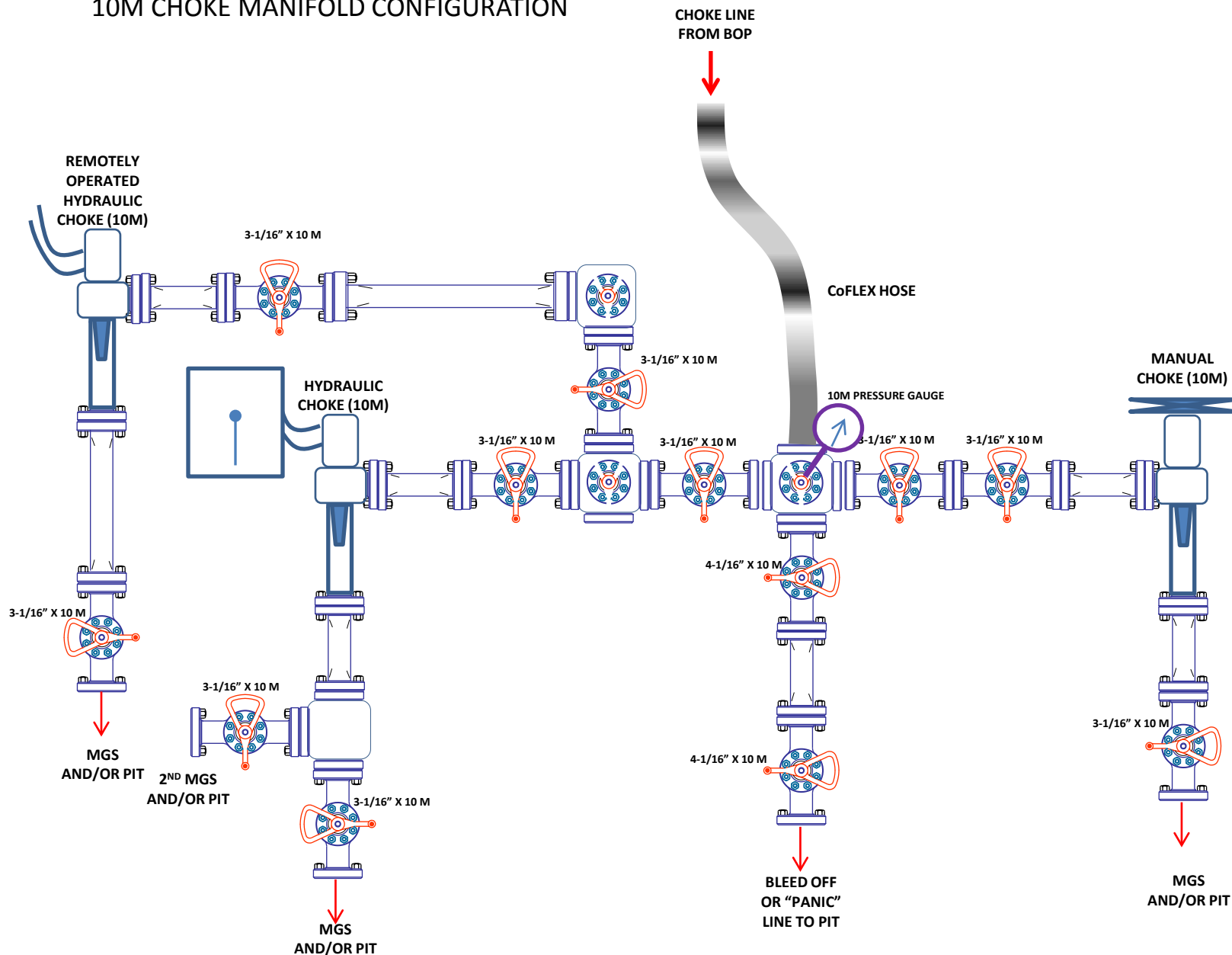
BOTTOM HOLE LOCATION
50' FSL & 1,065' FWL

NAD 83 X = 742,262.68'
NAD 83 Y = 364,472.88'
NAD 83 LAT = 32.000360°
NAD 83 LONG = -103.685166°

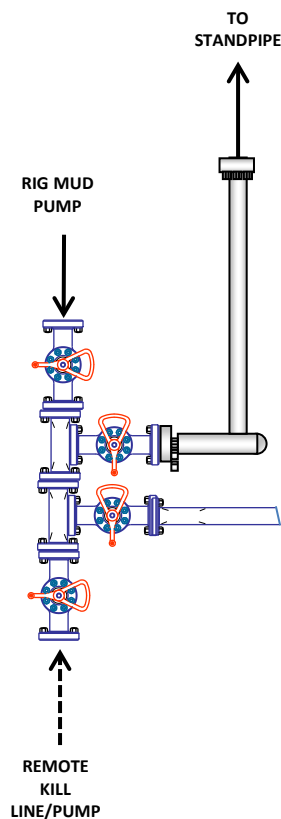
CORNER COORDINATES
NEW MEXICO EAST - NAD 83

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'		

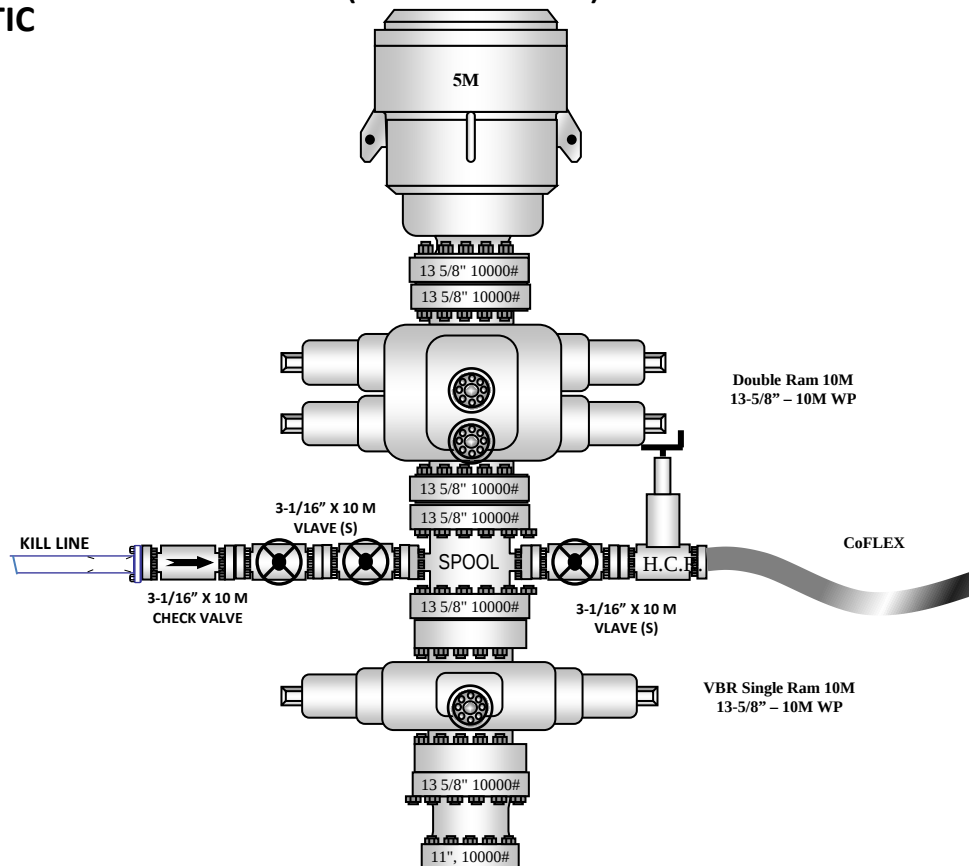
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



ConocoPhillips Company - Zia Hills Unit 2832 WC 801H

1. Geologic Formations

TVD of target	12,450' EOL	Pilot hole depth	NA
MD at TD:	20,369'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	960	Water	
Top of Salt	1291	Salt	
Base of Salt	3925	Salt	
Lamar	4401	Salt Water	
Bell Canyon	4405	Salt Water	
Cherry Canyon	5306	Oil/Gas	
Brushy Canyon	6802	Oil/Gas	
Bone Spring	8424	Oil/Gas	
1st Bone Spring Sand	9408	Oil/Gas	
2nd Bone Spring Sand	10066	Oil/Gas	
3rd Bone Spring Sand	11202	Oil/Gas	
Wolfcamp	11596	Oil/Gas	
Wolfcamp A	11791	Oil/Gas	
Wolfcamp B	12139	Target	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	1150	13.375"	54.5	J55	BTC	2.15	1.51	13.61	14.50
12.25"	0	4310	9.625"	40	L80-IC	BTC	1.73	1.23	5.31	5.49
8.75"	4110	11900	7.625"	29.7	P110-ICY	W513	1.19	1.48	3.02	1.81
6.75"	0	11700	5.5"	23	P110-CY	BTC	1.77	2.06	2.71	2.71
6.75"	11700	20,369	5.5"	23	P110-CY	W441	1.66	1.94	2.55	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 801H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

ConocoPhillips Company - Zia Hills Unit 2832 WC 801H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	690	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	630	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	300	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	810	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	650	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%
1 st Intermediate	0'	50%
2 nd Intermediate	4,110'	20%
Production	11,400'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 801H

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 801H

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
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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 801H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8740 psi at 12450' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

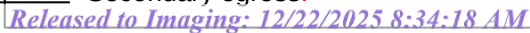
1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 801H

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 801H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	10/16/2024	6.27	59.51	47,133.44103817

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	176.83

Plan Survey Tool Program		Date	2/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	20,368.8	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	
2,507.0	10.14	22.94	2,504.4	41.2	17.4	2.00	2.00	0.00	22.94	
7,573.0	10.14	22.94	7,491.3	862.6	365.1	0.00	0.00	0.00	0.00	
8,587.1	0.00	0.00	8,500.0	945.0	400.0	1.00	-1.00	0.00	180.00	
12,059.6	0.00	0.00	11,972.5	945.0	400.0	0.00	0.00	0.00	0.00	
12,809.6	90.00	185.00	12,450.0	469.4	358.4	12.00	12.00	0.00	185.00	
13,077.4	90.00	179.64	12,450.0	201.8	347.5	2.00	0.00	-2.00	-90.00	
20,368.8	90.00	179.64	12,450.0	-7,089.4	393.1	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 801H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 801H	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	22.94	2,100.0	1.6	0.7	-1.6	2.00	2.00	0.00
2,200.0	4.00	22.94	2,199.8	6.4	2.7	-6.3	2.00	2.00	0.00
2,300.0	6.00	22.94	2,299.5	14.5	6.1	-14.1	2.00	2.00	0.00
2,400.0	8.00	22.94	2,398.7	25.7	10.9	-25.0	2.00	2.00	0.00
2,500.0	10.00	22.94	2,497.5	40.1	17.0	-39.1	2.00	2.00	0.00
2,507.0	10.14	22.94	2,504.4	41.2	17.4	-40.2	2.00	2.00	0.00
2,600.0	10.14	22.94	2,595.9	56.3	23.8	-54.9	0.00	0.00	0.00
2,700.0	10.14	22.94	2,694.3	72.5	30.7	-70.7	0.00	0.00	0.00
2,800.0	10.14	22.94	2,792.8	88.7	37.6	-86.5	0.00	0.00	0.00
2,900.0	10.14	22.94	2,891.2	104.9	44.4	-102.3	0.00	0.00	0.00
3,000.0	10.14	22.94	2,989.7	121.1	51.3	-118.1	0.00	0.00	0.00
3,100.0	10.14	22.94	3,088.1	137.4	58.1	-133.9	0.00	0.00	0.00
3,200.0	10.14	22.94	3,186.5	153.6	65.0	-149.7	0.00	0.00	0.00
3,300.0	10.14	22.94	3,285.0	169.8	71.9	-165.5	0.00	0.00	0.00
3,400.0	10.14	22.94	3,383.4	186.0	78.7	-181.3	0.00	0.00	0.00
3,500.0	10.14	22.94	3,481.8	202.2	85.6	-197.2	0.00	0.00	0.00
3,600.0	10.14	22.94	3,580.3	218.4	92.5	-213.0	0.00	0.00	0.00
3,700.0	10.14	22.94	3,678.7	234.6	99.3	-228.8	0.00	0.00	0.00
3,800.0	10.14	22.94	3,777.2	250.8	106.2	-244.6	0.00	0.00	0.00
3,900.0	10.14	22.94	3,875.6	267.1	113.0	-260.4	0.00	0.00	0.00
4,000.0	10.14	22.94	3,974.0	283.3	119.9	-276.2	0.00	0.00	0.00
4,100.0	10.14	22.94	4,072.5	299.5	126.8	-292.0	0.00	0.00	0.00
4,200.0	10.14	22.94	4,170.9	315.7	133.6	-307.8	0.00	0.00	0.00
4,300.0	10.14	22.94	4,269.3	331.9	140.5	-323.6	0.00	0.00	0.00
4,400.0	10.14	22.94	4,367.8	348.1	147.4	-339.4	0.00	0.00	0.00
4,500.0	10.14	22.94	4,466.2	364.3	154.2	-355.2	0.00	0.00	0.00
4,600.0	10.14	22.94	4,564.7	380.6	161.1	-371.1	0.00	0.00	0.00
4,700.0	10.14	22.94	4,663.1	396.8	167.9	-386.9	0.00	0.00	0.00
4,800.0	10.14	22.94	4,761.5	413.0	174.8	-402.7	0.00	0.00	0.00
4,900.0	10.14	22.94	4,860.0	429.2	181.7	-418.5	0.00	0.00	0.00
5,000.0	10.14	22.94	4,958.4	445.4	188.5	-434.3	0.00	0.00	0.00
5,100.0	10.14	22.94	5,056.9	461.6	195.4	-450.1	0.00	0.00	0.00
5,200.0	10.14	22.94	5,155.3	477.8	202.3	-465.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 801H	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	10.14	22.94	5,253.7	494.0	209.1	-481.7	0.00	0.00	0.00
5,400.0	10.14	22.94	5,352.2	510.3	216.0	-497.5	0.00	0.00	0.00
5,500.0	10.14	22.94	5,450.6	526.5	222.8	-513.3	0.00	0.00	0.00
5,600.0	10.14	22.94	5,549.0	542.7	229.7	-529.1	0.00	0.00	0.00
5,700.0	10.14	22.94	5,647.5	558.9	236.6	-544.9	0.00	0.00	0.00
5,800.0	10.14	22.94	5,745.9	575.1	243.4	-560.8	0.00	0.00	0.00
5,900.0	10.14	22.94	5,844.4	591.3	250.3	-576.6	0.00	0.00	0.00
6,000.0	10.14	22.94	5,942.8	607.5	257.2	-592.4	0.00	0.00	0.00
6,100.0	10.14	22.94	6,041.2	623.8	264.0	-608.2	0.00	0.00	0.00
6,200.0	10.14	22.94	6,139.7	640.0	270.9	-624.0	0.00	0.00	0.00
6,300.0	10.14	22.94	6,238.1	656.2	277.7	-639.8	0.00	0.00	0.00
6,400.0	10.14	22.94	6,336.5	672.4	284.6	-655.6	0.00	0.00	0.00
6,500.0	10.14	22.94	6,435.0	688.6	291.5	-671.4	0.00	0.00	0.00
6,600.0	10.14	22.94	6,533.4	704.8	298.3	-687.2	0.00	0.00	0.00
6,700.0	10.14	22.94	6,631.9	721.0	305.2	-703.0	0.00	0.00	0.00
6,800.0	10.14	22.94	6,730.3	737.2	312.1	-718.8	0.00	0.00	0.00
6,900.0	10.14	22.94	6,828.7	753.5	318.9	-734.6	0.00	0.00	0.00
7,000.0	10.14	22.94	6,927.2	769.7	325.8	-750.5	0.00	0.00	0.00
7,100.0	10.14	22.94	7,025.6	785.9	332.7	-766.3	0.00	0.00	0.00
7,200.0	10.14	22.94	7,124.1	802.1	339.5	-782.1	0.00	0.00	0.00
7,300.0	10.14	22.94	7,222.5	818.3	346.4	-797.9	0.00	0.00	0.00
7,400.0	10.14	22.94	7,320.9	834.5	353.2	-813.7	0.00	0.00	0.00
7,500.0	10.14	22.94	7,419.4	850.7	360.1	-829.5	0.00	0.00	0.00
7,573.0	10.14	22.94	7,491.3	862.6	365.1	-841.0	0.00	0.00	0.00
7,600.0	9.87	22.94	7,517.8	866.9	366.9	-845.3	1.00	-1.00	0.00
7,700.0	8.87	22.94	7,616.5	881.9	373.3	-859.9	1.00	-1.00	0.00
7,800.0	7.87	22.94	7,715.4	895.3	379.0	-872.9	1.00	-1.00	0.00
7,900.0	6.87	22.94	7,814.6	907.1	384.0	-884.5	1.00	-1.00	0.00
8,000.0	5.87	22.94	7,914.0	917.3	388.3	-894.4	1.00	-1.00	0.00
8,100.0	4.87	22.94	8,013.5	925.9	391.9	-902.8	1.00	-1.00	0.00
8,200.0	3.87	22.94	8,113.2	933.0	394.9	-909.7	1.00	-1.00	0.00
8,300.0	2.87	22.94	8,213.1	938.4	397.2	-915.0	1.00	-1.00	0.00
8,400.0	1.87	22.94	8,313.0	942.2	398.8	-918.7	1.00	-1.00	0.00
8,500.0	0.87	22.94	8,412.9	944.4	399.7	-920.8	1.00	-1.00	0.00
8,587.1	0.00	0.00	8,500.0	945.0	400.0	-921.4	1.00	-1.00	0.00
8,600.0	0.00	0.00	8,512.9	945.0	400.0	-921.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,612.9	945.0	400.0	-921.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,712.9	945.0	400.0	-921.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,812.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,912.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,012.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,112.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,212.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,312.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,412.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,512.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,612.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,712.9	945.0	400.0	-921.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,812.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,912.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,012.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,112.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,212.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,312.9	945.0	400.0	-921.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 801H	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	10,412.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,512.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,612.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,712.9	945.0	400.0	-921.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,812.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,912.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,100.0	0.00	0.00	11,012.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,112.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,212.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,312.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,500.0	0.00	0.00	11,412.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,600.0	0.00	0.00	11,512.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,700.0	0.00	0.00	11,612.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,800.0	0.00	0.00	11,712.9	945.0	400.0	-921.4	0.00	0.00	0.00
11,900.0	0.00	0.00	11,812.9	945.0	400.0	-921.4	0.00	0.00	0.00
12,000.0	0.00	0.00	11,912.9	945.0	400.0	-921.4	0.00	0.00	0.00
12,059.6	0.00	0.00	11,972.5	945.0	400.0	-921.4	0.00	0.00	0.00
12,100.0	4.85	185.00	12,012.9	943.3	399.9	-919.7	12.00	12.00	0.00
12,200.0	16.85	185.00	12,110.9	924.6	398.2	-901.1	12.00	12.00	0.00
12,300.0	28.85	185.00	12,202.9	886.0	394.8	-862.7	12.00	12.00	0.00
12,400.0	40.85	185.00	12,284.8	829.1	389.9	-806.3	12.00	12.00	0.00
12,500.0	52.85	185.00	12,353.1	756.6	383.5	-734.2	12.00	12.00	0.00
12,600.0	64.85	185.00	12,404.7	671.5	376.1	-649.6	12.00	12.00	0.00
12,700.0	76.85	185.00	12,437.4	577.5	367.9	-556.3	12.00	12.00	0.00
12,800.0	88.85	185.00	12,449.9	478.9	359.2	-458.3	12.00	12.00	0.00
12,809.6	90.00	185.00	12,450.0	469.4	358.4	-448.8	12.00	12.00	0.00
12,900.0	90.00	183.19	12,450.0	379.1	351.9	-359.1	2.00	0.00	-2.00
13,000.0	90.00	181.19	12,450.0	279.2	348.1	-259.5	2.00	0.00	-2.00
13,077.4	90.00	179.64	12,450.0	201.8	347.5	-182.2	2.00	0.00	-2.00
13,100.0	90.00	179.64	12,450.0	179.2	347.7	-159.7	0.00	0.00	0.00
13,200.0	90.00	179.64	12,450.0	79.2	348.3	-59.8	0.00	0.00	0.00
13,300.0	90.00	179.64	12,450.0	-20.8	348.9	40.0	0.00	0.00	0.00
13,400.0	90.00	179.64	12,450.0	-120.8	349.6	139.9	0.00	0.00	0.00
13,500.0	90.00	179.64	12,450.0	-220.8	350.2	239.8	0.00	0.00	0.00
13,600.0	90.00	179.64	12,450.0	-320.8	350.8	339.7	0.00	0.00	0.00
13,700.0	90.00	179.64	12,450.0	-420.8	351.4	439.6	0.00	0.00	0.00
13,800.0	90.00	179.64	12,450.0	-520.8	352.1	539.4	0.00	0.00	0.00
13,900.0	90.00	179.64	12,450.0	-620.8	352.7	639.3	0.00	0.00	0.00
14,000.0	90.00	179.64	12,450.0	-720.8	353.3	739.2	0.00	0.00	0.00
14,100.0	90.00	179.64	12,450.0	-820.7	353.9	839.1	0.00	0.00	0.00
14,200.0	90.00	179.64	12,450.0	-920.7	354.5	939.0	0.00	0.00	0.00
14,300.0	90.00	179.64	12,450.0	-1,020.7	355.2	1,038.8	0.00	0.00	0.00
14,400.0	90.00	179.64	12,450.0	-1,120.7	355.8	1,138.7	0.00	0.00	0.00
14,500.0	90.00	179.64	12,450.0	-1,220.7	356.4	1,238.6	0.00	0.00	0.00
14,600.0	90.00	179.64	12,450.0	-1,320.7	357.0	1,338.5	0.00	0.00	0.00
14,700.0	90.00	179.64	12,450.0	-1,420.7	357.7	1,438.4	0.00	0.00	0.00
14,800.0	90.00	179.64	12,450.0	-1,520.7	358.3	1,538.2	0.00	0.00	0.00
14,900.0	90.00	179.64	12,450.0	-1,620.7	358.9	1,638.1	0.00	0.00	0.00
15,000.0	90.00	179.64	12,450.0	-1,720.7	359.5	1,738.0	0.00	0.00	0.00
15,100.0	90.00	179.64	12,450.0	-1,820.7	360.2	1,837.9	0.00	0.00	0.00
15,200.0	90.00	179.64	12,450.0	-1,920.7	360.8	1,937.8	0.00	0.00	0.00
15,300.0	90.00	179.64	12,450.0	-2,020.7	361.4	2,037.6	0.00	0.00	0.00
15,400.0	90.00	179.64	12,450.0	-2,120.7	362.0	2,137.5	0.00	0.00	0.00
15,500.0	90.00	179.64	12,450.0	-2,220.7	362.7	2,237.4	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 801H	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	12,450.0	-2,320.7	363.3	2,337.3	0.00	0.00	0.00
15,700.0	90.00	179.64	12,450.0	-2,420.7	363.9	2,437.2	0.00	0.00	0.00
15,800.0	90.00	179.64	12,450.0	-2,520.7	364.5	2,537.0	0.00	0.00	0.00
15,900.0	90.00	179.64	12,450.0	-2,620.7	365.2	2,636.9	0.00	0.00	0.00
16,000.0	90.00	179.64	12,450.0	-2,720.7	365.8	2,736.8	0.00	0.00	0.00
16,100.0	90.00	179.64	12,450.0	-2,820.7	366.4	2,836.7	0.00	0.00	0.00
16,200.0	90.00	179.64	12,450.0	-2,920.7	367.0	2,936.5	0.00	0.00	0.00
16,300.0	90.00	179.64	12,450.0	-3,020.7	367.7	3,036.4	0.00	0.00	0.00
16,400.0	90.00	179.64	12,450.0	-3,120.7	368.3	3,136.3	0.00	0.00	0.00
16,500.0	90.00	179.64	12,450.0	-3,220.7	368.9	3,236.2	0.00	0.00	0.00
16,600.0	90.00	179.64	12,450.0	-3,320.7	369.5	3,336.1	0.00	0.00	0.00
16,700.0	90.00	179.64	12,450.0	-3,420.7	370.2	3,435.9	0.00	0.00	0.00
16,800.0	90.00	179.64	12,450.0	-3,520.7	370.8	3,535.8	0.00	0.00	0.00
16,900.0	90.00	179.64	12,450.0	-3,620.7	371.4	3,635.7	0.00	0.00	0.00
17,000.0	90.00	179.64	12,450.0	-3,720.7	372.0	3,735.6	0.00	0.00	0.00
17,100.0	90.00	179.64	12,450.0	-3,820.7	372.7	3,835.5	0.00	0.00	0.00
17,200.0	90.00	179.64	12,450.0	-3,920.7	373.3	3,935.3	0.00	0.00	0.00
17,300.0	90.00	179.64	12,450.0	-4,020.7	373.9	4,035.2	0.00	0.00	0.00
17,400.0	90.00	179.64	12,450.0	-4,120.7	374.5	4,135.1	0.00	0.00	0.00
17,500.0	90.00	179.64	12,450.0	-4,220.7	375.2	4,235.0	0.00	0.00	0.00
17,600.0	90.00	179.64	12,450.0	-4,320.7	375.8	4,334.9	0.00	0.00	0.00
17,700.0	90.00	179.64	12,450.0	-4,420.7	376.4	4,434.7	0.00	0.00	0.00
17,800.0	90.00	179.64	12,450.0	-4,520.7	377.0	4,534.6	0.00	0.00	0.00
17,900.0	90.00	179.64	12,450.0	-4,620.7	377.6	4,634.5	0.00	0.00	0.00
18,000.0	90.00	179.64	12,450.0	-4,720.7	378.3	4,734.4	0.00	0.00	0.00
18,100.0	90.00	179.64	12,450.0	-4,820.7	378.9	4,834.3	0.00	0.00	0.00
18,200.0	90.00	179.64	12,450.0	-4,920.7	379.5	4,934.1	0.00	0.00	0.00
18,300.0	90.00	179.64	12,450.0	-5,020.7	380.1	5,034.0	0.00	0.00	0.00
18,400.0	90.00	179.64	12,450.0	-5,120.7	380.8	5,133.9	0.00	0.00	0.00
18,500.0	90.00	179.64	12,450.0	-5,220.7	381.4	5,233.8	0.00	0.00	0.00
18,600.0	90.00	179.64	12,450.0	-5,320.7	382.0	5,333.6	0.00	0.00	0.00
18,700.0	90.00	179.64	12,450.0	-5,420.7	382.6	5,433.5	0.00	0.00	0.00
18,800.0	90.00	179.64	12,450.0	-5,520.7	383.3	5,533.4	0.00	0.00	0.00
18,900.0	90.00	179.64	12,450.0	-5,620.7	383.9	5,633.3	0.00	0.00	0.00
19,000.0	90.00	179.64	12,450.0	-5,720.7	384.5	5,733.2	0.00	0.00	0.00
19,100.0	90.00	179.64	12,450.0	-5,820.7	385.1	5,833.0	0.00	0.00	0.00
19,200.0	90.00	179.64	12,450.0	-5,920.6	385.8	5,932.9	0.00	0.00	0.00
19,300.0	90.00	179.64	12,450.0	-6,020.6	386.4	6,032.8	0.00	0.00	0.00
19,400.0	90.00	179.64	12,450.0	-6,120.6	387.0	6,132.7	0.00	0.00	0.00
19,500.0	90.00	179.64	12,450.0	-6,220.6	387.6	6,232.6	0.00	0.00	0.00
19,600.0	90.00	179.64	12,450.0	-6,320.6	388.3	6,332.4	0.00	0.00	0.00
19,700.0	90.00	179.64	12,450.0	-6,420.6	388.9	6,432.3	0.00	0.00	0.00
19,800.0	90.00	179.64	12,450.0	-6,520.6	389.5	6,532.2	0.00	0.00	0.00
19,900.0	90.00	179.64	12,450.0	-6,620.6	390.1	6,632.1	0.00	0.00	0.00
20,000.0	90.00	179.64	12,450.0	-6,720.6	390.8	6,732.0	0.00	0.00	0.00
20,100.0	90.00	179.64	12,450.0	-6,820.6	391.4	6,831.8	0.00	0.00	0.00
20,200.0	90.00	179.64	12,450.0	-6,920.6	392.0	6,931.7	0.00	0.00	0.00
20,300.0	90.00	179.64	12,450.0	-7,020.6	392.6	7,031.6	0.00	0.00	0.00
20,368.8	90.00	179.64	12,450.0	-7,089.4	393.1	7,100.3	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL_ZHU 2832 801H	0.00	359.64	12,450.0	-7,089.4	393.1	364,415.98	701,075.09	32° 0' 0.846 N	103° 41' 4.910 W
- plan hits target center									
- Rectangle (sides W100.0 H7,357.7 D20.0)									
LTP_ZHU 2832 801H	90.00	0.00	12,450.0	-7,039.5	392.7	364,465.97	701,074.76	32° 0' 1.340 N	103° 41' 4.911 W
- plan misses target center by 18.8usft at 20300.0usft MD (12450.0 TVD, -7020.6 N, 392.6 E)									
- Circle (radius 50.0)									
FTP_ZHU 2832 801H	0.00	0.00	12,450.0	268.2	347.2	371,773.59	701,029.19	32° 1' 13.660 N	103° 41' 4.931 W
- plan misses target center by 0.7usft at 13011.1usft MD (12450.0 TVD, 268.2 N, 347.9 E)									
- Circle (radius 50.0)									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	20,368.9	12,450.0	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 801H

OWB

PWP0

Anticollision Report

26 February, 2025

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date 2/25/2025	
From (usft)	To (usft)	Survey (Wellbore)
0.0	20,368.8	PWP0 (OWB)
		Tool Name
		r.5 MWD+IFR1
		Description
		OWSG MWD + IFR1 rev.5

Summary					
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor
Offset Well - Wellbore - Design					Warning
RED HILLS WEST					
RED HILLS WEST 21 DM FEDERAL COM #1H - OWB -	9,370.6	13,488.8	720.4	605.6	6.278 CC, ES, SF
RED HILLS WEST 21 W0DM FEDERAL COM #3H - OW	11,846.1	16,336.4	774.3	636.2	5.607 CC, ES, SF
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,370.2	2,373.8	372.8	356.7	23.204 CC
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,400.0	2,402.4	372.9	356.7	23.009 ES
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	4,400.0	4,371.4	514.7	486.8	18.455 SF
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	3,017.9	3,043.8	244.9	225.8	12.816 CC
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	3,200.0	3,228.5	245.7	225.2	11.999 ES
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	4,000.0	4,013.5	286.0	259.0	10.588 SF
ZIA HILLS 20 FED COM PROJECT					
WILDER 29 FEDERAL #5H - OWB - AWP					Out of range
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP					Out of range
ZIA HILLS 20 FEDERAL COM #114H - OWB - AWP					Out of range
ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP					Out of range
ZIA HILLS UNIT 2032 PROJECT (S TO N)					
BUCK 20 FEDERAL #1H - OWB - AWP					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 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,000.0	1,998.4	120.0	107.1	9.266 CC, ES	
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,100.0	2,096.1	121.6	108.4	9.182 SF	
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	2,000.0	1,999.0	100.0	87.0	7.721 CC, ES	
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	20,368.8	19,658.4	654.3	513.1	4.635 SF	
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	3,457.7	3,467.3	30.3	12.7	1.719 Caution - Monitor Closely, CC	
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	3,500.0	3,509.3	30.6	12.3	1.673 Caution - Monitor Closely, ES	
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	3,600.0	3,608.8	33.5	13.4	1.671 Caution - Monitor Closely, SF	
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0	2,304.4	2,306.8	59.8	46.0	4.328 CC, ES	
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0	3,200.0	3,209.6	65.5	48.0	3.749 SF	
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	2,876.3	2,881.7	33.2	17.7	2.148 Caution - Monitor Closely, CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	2,000.0	1,999.8	20.0	7.0	1.544 Caution - Monitor Closely, CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0					Out of range	
RED HILLS WEST '21' DM FEDERAL COM 1H - OWB -	9,300.0	13,489.2	723.6	609.1	6.318 SF	
RED HILLS WEST '21' DM FEDERAL COM 1H - OWB -	9,368.6	13,488.8	720.4	606.4	6.322 CC, ES	
RED HILLS WEST 21 'BO' FEDERAL COM 1H - OWB -					Out of range	
RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP					Out of range	
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW					Out of range	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	11,894.0	16,290.5	558.0	444.7	4.923 CC, ES, SF	
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW					Out of range	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	12,125.0	16,592.9	190.9	70.4	1.584 Caution - Monitor Closely, SF	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	12,150.0	16,596.7	189.2	70.2	1.590 Caution - Monitor Closely, ES	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	12,151.5	16,597.0	189.2	70.3	1.592 Caution - Monitor Closely, CC	
RED HILLS WEST 21 W1DM FEDERAL COM 003H - O	11,846.1	16,336.4	774.3	660.7	6.815 CC, ES, SF	
WILDER FEDERAL AC COM 28 3H - OWB - AWP	4,699.3	4,649.7	719.6	700.9	38.555 CC	
WILDER FEDERAL AC COM 28 3H - OWB - AWP	4,700.0	4,650.3	719.6	700.9	38.551 ES	
WILDER FEDERAL AC COM 28 3H - OWB - AWP	8,800.0	8,711.2	955.3	920.4	27.374 SF	

Offset Design: RED HILLS WEST - RED HILLS WEST 21 DM FEDERAL COM #1H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program:		100-r.5 GYRO-NS, 8633-MWD - OWSG R1 <th colspan="2"></th> <th colspan="4">Rule Assigned:</th> <th>Offset Well Error:</th> <td>3.0 usft</td>							Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis				Offset Wellbore Centre		Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor			
8,700.0	8,612.9	13,492.0	9,283.5	31.3	79.7	-90.73	935.8	-320.3	984.2	890.6	93.57	10.519			
8,800.0	8,712.9	13,491.7	9,283.5	31.3	79.7	-90.71	936.1	-320.3	919.0	821.4	97.62	9.414			
8,900.0	8,812.9	13,491.3	9,283.5	31.3	79.7	-90.68	936.5	-320.3	860.5	758.6	101.85	8.449			
9,000.0	8,912.9	13,490.9	9,283.5	31.4	79.7	-90.64	936.9	-320.3	810.1	704.1	106.02	7.641			
9,100.0	9,012.9	13,490.4	9,283.5	31.4	79.7	-90.61	937.4	-320.3	769.5	659.7	109.80	7.009			
9,200.0	9,112.9	13,489.9	9,283.5	31.5	79.7	-90.56	937.9	-320.4	740.3	627.5	112.76	6.566			
9,300.0	9,212.9	13,489.2	9,283.5	31.5	79.7	-90.51	938.5	-320.4	723.8	609.4	114.46	6.324			
9,370.6	9,283.5	13,488.8	9,283.5	31.5	79.7	-90.47	939.0	-320.4	720.4	605.6	114.74	6.278 CC, ES, SF			
9,400.0	9,312.9	13,488.5	9,283.5	31.5	79.7	-90.46	939.3	-320.4	721.0	606.4	114.62	6.290			
9,500.0	9,412.9	13,487.7	9,283.5	31.6	79.7	-90.39	940.1	-320.4	731.9	618.7	113.20	6.466			
9,600.0	9,512.9	13,486.7	9,283.5	31.6	79.7	-90.31	941.1	-320.4	756.0	645.6	110.43	6.846			
9,700.0	9,612.9	13,485.6	9,283.5	31.7	79.6	-90.22	942.2	-320.4	792.1	685.4	106.74	7.421			
9,800.0	9,712.9	13,484.1	9,283.6	31.7	79.6	-90.11	943.7	-320.4	838.7	736.1	102.57	8.177			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	RED HILLS WEST - RED HILLS WEST 21 DM FEDERAL COM #1H - OWB - AWP										Offset Site Error:	0.0 usft
Survey Program:	100-r.5 GYRO-NS, 8633-MWD - OWSG R1										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor
9,900.0	9,812.9	13,483.2	9,283.6	31.8	79.6	-90.04	944.6	-320.4	894.0	795.7	98.32	9.093
10,000.0	9,912.9	13,482.4	9,283.6	31.8	79.6	-89.97	945.4	-320.4	956.6	862.4	94.25	10.149

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - RED HILLS WEST 21 W0DM FEDERAL COM #3H - OWB - AWP											Offset Site Error:		0.0 usft
Survey Program:		134-MWD - OWSG R1, 963-MWD+IGRF							Rule Assigned:		Offset Well Error:		2.0 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			No-Go Distance (usft)
11,300.0	11,212.9	16,330.3	11,758.9	32.4	96.3	-90.45	938.9	-374.3	947.4	827.8	119.58	7.923	
11,400.0	11,312.9	16,331.5	11,758.9	32.4	96.4	-90.54	937.7	-374.2	893.5	769.2	124.37	7.184	
11,500.0	11,412.9	16,332.6	11,759.0	32.5	96.4	-90.62	936.6	-374.2	848.1	719.1	128.99	6.575	
11,600.0	11,512.9	16,333.8	11,759.0	32.5	96.4	-90.71	935.4	-374.2	812.4	679.4	133.04	6.106	
11,700.0	11,612.9	16,334.8	11,759.0	32.5	96.4	-90.79	934.4	-374.2	787.9	651.8	136.12	5.788	
11,800.0	11,712.9	16,335.9	11,759.0	32.6	96.4	-90.87	933.3	-374.2	775.6	637.8	137.83	5.627	
11,846.1	11,759.0	16,336.4	11,759.0	32.6	96.4	-90.90	932.8	-374.2	774.3	636.2	138.08	5.607 CC, ES, SF	
11,900.0	11,812.9	16,336.9	11,759.0	32.6	96.5	-90.94	932.3	-374.1	776.1	638.2	137.94	5.627	
12,000.0	11,912.9	16,338.0	11,759.0	32.7	96.5	-91.02	931.3	-374.1	789.4	652.9	136.46	5.785	
12,059.6	11,972.5	16,338.5	11,759.0	32.7	96.5	-91.06	930.7	-374.1	803.1	668.2	134.92	5.953	
12,075.0	11,987.9	16,338.9	11,759.0	32.7	96.5	83.39	930.3	-374.1	807.4	672.9	134.46	6.004	
12,100.0	12,012.9	16,340.5	11,759.0	32.6	96.5	82.37	928.7	-374.1	814.6	681.0	133.68	6.094	
12,125.0	12,037.7	16,343.3	11,759.1	32.5	96.6	81.19	925.9	-374.1	822.4	689.6	132.86	6.190	
12,150.0	12,062.4	16,347.2	11,759.1	32.4	96.6	79.87	922.0	-374.0	830.7	698.7	132.02	6.292	
12,175.0	12,086.8	16,352.2	11,759.2	32.3	96.7	78.41	917.0	-373.9	839.4	708.3	131.17	6.400	
12,200.0	12,110.9	16,358.4	11,759.2	32.2	96.8	76.84	910.8	-373.8	848.5	718.2	130.31	6.511	
12,225.0	12,134.6	16,365.7	11,759.3	32.1	97.0	75.18	903.6	-373.7	857.9	728.4	129.46	6.627	
12,250.0	12,157.9	16,374.0	11,759.3	32.0	97.1	73.43	895.2	-373.6	867.5	738.9	128.61	6.745	
12,275.0	12,180.7	16,383.3	11,759.4	31.9	97.3	71.61	885.9	-373.5	877.2	749.5	127.78	6.865	
12,300.0	12,202.9	16,393.7	11,759.4	31.8	97.4	69.77	875.5	-373.4	887.1	760.1	126.97	6.987	
12,325.0	12,224.5	16,408.0	11,759.5	31.7	97.7	67.73	861.2	-373.2	897.0	770.8	126.24	7.105	
12,350.0	12,245.4	16,417.0	11,759.5	31.6	97.8	66.05	852.2	-373.1	906.9	781.4	125.44	7.229	
12,375.0	12,265.5	16,429.8	11,759.4	31.5	98.1	64.22	839.4	-373.0	916.6	791.9	124.73	7.349	
12,400.0	12,284.8	16,443.4	11,759.4	31.4	98.3	62.44	825.8	-372.9	926.2	802.2	124.06	7.466	
12,425.0	12,303.3	16,457.7	11,759.3	31.3	98.6	60.71	811.5	-372.8	935.6	812.2	123.43	7.580	
12,450.0	12,320.9	16,472.8	11,759.1	31.2	98.8	59.05	796.4	-372.7	944.7	821.8	122.85	7.690	
12,475.0	12,337.5	16,488.5	11,758.9	31.1	99.1	57.46	780.7	-372.6	953.4	831.1	122.31	7.795	
12,500.0	12,353.1	16,505.3	11,758.6	31.0	99.4	55.96	764.0	-372.5	961.8	839.9	121.83	7.894	
12,525.0	12,367.6	16,525.6	11,758.1	30.9	99.7	54.45	743.6	-372.3	969.6	848.2	121.45	7.984	
12,550.0	12,381.1	16,546.3	11,757.7	30.9	100.1	53.07	723.0	-372.1	976.9	855.8	121.12	8.066	
12,575.0	12,393.5	16,567.6	11,757.2	30.8	100.5	51.81	701.6	-371.9	983.6	862.7	120.84	8.139	
12,600.0	12,404.7	16,570.0	11,757.1	30.7	100.5	51.15	699.2	-371.9	989.8	869.4	120.32	8.226	
12,625.0	12,414.7	16,570.0	11,757.1	30.7	100.5	50.57	699.2	-371.9	995.7	876.0	119.79	8.313	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program:		141-MWD - OWSG R1						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth	Reference	Measured Depth	Offset	Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance		No-Go Distance	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	9.6	3.0	3.0	-84.96	34.1	-386.0	387.6					
100.0	100.0	89.4	99.0	3.1	3.0	-84.97	34.0	-386.2	387.6	380.8	6.84	56.665		
200.0	200.0	188.9	198.5	3.3	3.0	-85.01	33.7	-386.5	388.0	380.9	7.09	54.698		
300.0	300.0	289.0	298.5	3.6	3.1	-85.08	33.3	-387.0	388.4	381.0	7.38	52.630		
400.0	400.0	389.2	398.8	3.8	3.2	-85.27	32.0	-387.4	388.8	381.1	7.69	50.541		
500.0	500.0	489.8	499.4	4.0	3.3	-85.62	29.7	-387.9	389.0	381.0	8.03	48.455		
600.0	600.0	590.0	599.5	4.1	3.5	-86.16	26.1	-388.2	389.1	380.7	8.38	46.410		
700.0	700.0	686.9	696.3	4.3	3.7	-86.76	22.0	-388.9	389.6	380.8	8.75	44.508		
800.0	800.0	785.7	795.0	4.5	3.9	-87.41	17.7	-390.3	390.7	381.6	9.14	42.746		
900.0	900.0	874.8	883.9	4.7	4.1	-87.99	13.8	-392.7	393.3	383.8	9.51	41.338		
1,000.0	1,000.0	971.0	980.0	4.8	4.4	-88.55	10.1	-397.5	398.1	388.3	9.76	40.798		
1,100.0	1,100.0	1,070.0	1,078.9	5.0	4.7	-88.89	7.8	-402.6	403.2	393.0	10.17	39.633		
1,200.0	1,200.0	1,185.1	1,193.9	5.2	5.0	-88.78	8.6	-406.5	406.6	396.0	10.64	38.229		
1,300.0	1,300.0	1,293.8	1,302.3	5.3	5.3	-87.80	15.6	-406.7	407.0	395.9	11.07	36.763		
1,400.0	1,400.0	1,402.9	1,410.7	5.5	5.5	-86.02	28.1	-404.6	405.7	394.2	11.51	35.250		
1,500.0	1,500.0	1,511.5	1,518.1	5.6	5.9	-83.94	42.4	-399.0	401.7	389.7	11.96	33.587		
1,600.0	1,600.0	1,611.4	1,617.1	5.8	6.2	-82.03	55.0	-393.0	397.2	384.8	12.41	32.018		
1,700.0	1,700.0	1,711.1	1,715.8	5.9	6.5	-80.18	67.0	-387.0	393.1	380.2	12.86	30.560		
1,800.0	1,800.0	1,811.4	1,815.3	6.0	6.8	-78.38	78.3	-380.8	389.1	375.8	13.33	29.190		
1,900.0	1,900.0	1,913.9	1,917.0	6.2	7.1	-76.50	89.8	-374.0	385.0	371.2	13.81	27.875		
2,000.0	2,000.0	2,013.5	2,015.7	6.3	7.5	-74.68	100.5	-366.8	380.7	366.4	14.29	26.631		
2,100.0	2,100.0	2,111.4	2,112.9	6.5	7.8	-96.22	110.4	-360.1	377.1	362.3	14.78	25.520		
2,200.0	2,199.8	2,208.5	2,209.4	6.8	8.1	-95.42	119.8	-354.2	374.6	359.4	15.26	24.554		
2,300.0	2,299.5	2,307.0	2,307.4	7.0	8.5	-95.40	127.5	-349.4	373.2	357.4	15.74	23.708		
2,370.2	2,369.1	2,373.8	2,374.1	7.2	8.7	-95.95	131.2	-347.1	372.8	356.7	16.07	23.204 CC		
2,400.0	2,398.7	2,402.4	2,402.7	7.2	8.8	-96.33	132.4	-346.4	372.9	356.7	16.20	23.009 ES		
2,500.0	2,497.5	2,502.3	2,502.5	7.5	9.1	-98.15	135.5	-344.2	373.6	356.9	16.69	22.384		
2,507.0	2,504.4	2,509.3	2,509.5	7.6	9.2	-98.30	135.7	-344.1	373.7	357.0	16.73	22.343		
2,600.0	2,595.9	2,601.8	2,601.9	7.8	9.5	-100.37	137.9	-342.1	375.0	357.8	17.16	21.847		
2,700.0	2,694.3	2,700.1	2,700.2	8.0	9.8	-102.66	139.5	-340.2	376.9	359.3	17.65	21.361		
2,800.0	2,792.8	2,797.7	2,797.8	8.3	10.1	-105.00	140.5	-338.6	379.7	361.6	18.13	20.942		
2,900.0	2,891.2	2,895.0	2,895.0	8.5	10.4	-107.36	141.2	-337.4	383.6	364.9	18.63	20.589		
3,000.0	2,989.7	2,992.9	2,993.0	8.8	10.8	-109.68	141.8	-336.4	388.3	369.1	19.14	20.286		
3,100.0	3,088.1	3,090.9	3,091.0	9.1	11.1	-111.98	142.2	-335.7	393.9	374.2	19.66	20.031		
3,200.0	3,186.5	3,190.5	3,190.5	9.5	11.4	-114.27	142.5	-334.8	400.0	379.8	20.21	19.790		
3,300.0	3,285.0	3,289.1	3,289.2	9.8	11.8	-116.46	142.9	-333.8	406.6	385.9	20.77	19.578		
3,400.0	3,383.4	3,388.3	3,388.4	10.1	12.1	-118.57	143.5	-332.8	413.7	392.4	21.35	19.382		
3,500.0	3,481.8	3,484.6	3,484.7	10.5	12.4	-120.54	144.0	-331.8	421.4	399.5	21.92	19.221		
3,600.0	3,580.3	3,579.4	3,579.5	10.8	12.7	-122.47	144.0	-331.7	430.6	408.1	22.50	19.137		
3,700.0	3,678.7	3,678.7	3,678.7	11.2	13.1	-124.43	143.7	-331.8	440.6	417.5	23.12	19.060		
3,800.0	3,777.2	3,780.3	3,780.3	11.6	13.4	-126.43	142.9	-331.3	450.6	426.8	23.76	18.961		
3,900.0	3,875.6	3,880.9	3,880.9	12.0	13.7	-128.34	142.1	-330.0	460.4	436.0	24.43	18.849		
4,000.0	3,974.0	3,979.4	3,979.4	12.3	14.1	-130.16	141.2	-328.5	470.4	445.3	25.09	18.748		
4,100.0	4,072.5	4,080.4	4,080.4	12.7	14.4	-132.02	139.8	-326.7	480.8	455.0	25.79	18.644		
4,200.0	4,170.9	4,178.6	4,178.6	13.1	14.7	-133.78	138.3	-324.4	491.2	464.7	26.49	18.545		
4,300.0	4,269.3	4,272.9	4,272.8	13.5	15.1	-135.37	136.9	-322.6	502.5	475.3	27.17	18.494		
4,400.0	4,367.8	4,371.4	4,371.3	13.9	15.4	-136.92	135.7	-321.4	514.7	486.8	27.89	18.455 SF		
4,500.0	4,466.2	4,467.6	4,467.5	14.3	15.7	-138.34	134.6	-320.4	527.3	498.9	28.43	18.550		
4,600.0	4,564.7	4,563.9	4,563.7	14.7	16.1	-139.55	134.6	-320.4	540.7	511.5	29.13	18.559		
4,700.0	4,663.1	4,660.9	4,660.8	15.1	16.4	-140.54	135.8	-321.4	554.6	524.7	29.84	18.587		
4,800.0	4,761.5	4,759.5	4,759.3	15.5	16.7	-141.46	137.4	-322.7	568.8	538.2	30.55	18.614		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 141-MWD - OWSG R1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,860.0	4,858.5	4,858.3	16.0	17.0	-142.35	138.9	-323.9	583.0	551.7	31.28	18.636	
5,000.0	4,958.4	4,955.8	4,955.6	16.4	17.4	-143.19	140.3	-325.2	597.5	565.5	32.00	18.669	
5,100.0	5,056.9	5,054.0	5,053.7	16.8	17.7	-144.00	141.6	-326.5	612.2	579.5	32.74	18.702	
5,200.0	5,155.3	5,152.7	5,152.5	17.2	18.1	-144.79	142.8	-327.8	627.1	593.6	33.48	18.732	
5,300.0	5,253.7	5,250.9	5,250.7	17.6	18.4	-145.52	144.1	-329.1	642.0	607.8	34.22	18.763	
5,400.0	5,352.2	5,347.6	5,347.4	18.1	18.7	-146.22	145.2	-330.6	657.3	622.4	34.95	18.806	
5,500.0	5,450.6	5,447.2	5,447.0	18.5	19.1	-146.91	146.3	-332.2	672.7	637.0	35.71	18.839	
5,600.0	5,549.0	5,547.1	5,546.8	18.9	19.4	-147.56	147.6	-333.6	688.0	651.5	36.47	18.864	
5,700.0	5,647.5	5,645.4	5,645.0	19.4	19.7	-148.17	148.9	-334.9	703.3	666.1	37.23	18.892	
5,800.0	5,745.9	5,743.0	5,742.7	19.8	20.1	-148.76	150.2	-336.3	718.8	680.8	37.98	18.925	
5,900.0	5,844.4	5,840.4	5,840.1	20.2	20.4	-149.32	151.4	-337.8	734.4	695.7	38.73	18.961	
6,000.0	5,942.8	5,939.1	5,938.7	20.6	20.8	-149.87	152.4	-339.3	750.3	710.8	39.50	18.995	
6,100.0	6,041.2	6,036.5	6,036.1	21.1	21.1	-150.51	152.2	-339.8	766.2	725.9	40.27	19.028	
6,200.0	6,139.7	6,132.1	6,131.7	21.5	21.4	-151.18	151.1	-340.0	782.4	741.4	41.03	19.072	
6,300.0	6,238.1	6,229.7	6,229.3	22.0	21.7	-151.84	149.8	-340.3	799.1	757.2	41.80	19.115	
6,400.0	6,336.5	6,328.0	6,327.6	22.4	22.1	-152.48	148.5	-340.6	815.8	773.2	42.59	19.155	
6,500.0	6,435.0	6,425.5	6,425.1	22.8	22.4	-153.09	147.2	-341.0	832.6	789.2	43.37	19.198	
6,600.0	6,533.4	6,520.8	6,520.4	23.3	22.7	-153.66	145.9	-341.5	849.7	805.6	44.13	19.254	
6,700.0	6,631.9	6,617.3	6,616.9	23.7	23.1	-154.21	144.3	-342.2	867.2	822.3	44.91	19.312	
6,800.0	6,730.3	6,717.6	6,717.2	24.1	23.4	-154.76	142.7	-343.0	884.8	839.0	45.71	19.356	
6,900.0	6,828.7	6,827.3	6,826.9	24.6	23.8	-155.34	141.5	-343.2	901.7	855.1	46.59	19.354	
7,000.0	6,927.2	6,923.5	6,923.1	25.0	24.1	-155.83	140.8	-343.0	918.1	870.7	47.36	19.384	
7,100.0	7,025.6	7,019.0	7,018.5	25.5	24.4	-156.29	139.9	-343.0	934.8	886.7	48.13	19.421	
7,200.0	7,124.1	7,112.3	7,111.8	25.9	24.8	-156.72	138.9	-343.4	952.0	903.1	48.89	19.473	
7,300.0	7,222.5	7,210.7	7,210.2	26.4	25.1	-157.17	137.6	-343.9	969.5	919.8	49.68	19.514	
7,400.0	7,320.9	7,306.3	7,305.8	26.8	25.4	-157.58	136.4	-344.5	987.2	936.7	50.46	19.565	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:		RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP											Offset Site Error:		0.0 usft		
Survey Program:		174-MWD - OWSG R1						Rule Assigned:						Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)							
0.0	0.0	0.0	7.6	3.0	0.0	-77.78	83.8	-386.9	395.9								
100.0	100.0	90.3	97.9	3.1	0.1	-77.77	83.9	-387.1	396.1	390.9	5.15	76.847					
200.0	200.0	188.1	195.7	3.3	0.3	-77.75	84.2	-387.8	396.9	391.4	5.49	72.303					
300.0	300.0	287.4	295.0	3.6	0.7	-77.76	84.4	-389.0	398.1	392.2	5.86	67.967					
400.0	400.0	387.7	395.3	3.8	1.0	-77.84	84.1	-390.4	399.4	393.1	6.25	63.908					
500.0	500.0	487.8	495.3	4.0	1.4	-77.97	83.4	-391.7	400.5	393.8	6.66	60.146					
600.0	600.0	588.3	595.8	4.1	1.7	-78.20	82.1	-393.1	401.6	394.5	7.08	56.695					
700.0	700.0	688.1	695.6	4.3	2.1	-78.52	80.1	-394.6	402.7	395.2	7.52	53.549					
800.0	800.0	785.8	793.3	4.5	2.5	-78.84	78.2	-396.4	404.0	396.1	7.96	50.750					
900.0	900.0	878.0	885.4	4.7	2.8	-79.18	76.3	-399.3	406.8	398.4	8.40	48.455					
1,000.0	1,000.0	967.0	974.3	4.8	3.1	-79.51	74.9	-404.2	411.9	403.2	8.67	47.533					
1,100.0	1,100.0	1,069.9	1,077.0	5.0	3.5	-79.90	73.2	-410.8	417.9	408.8	9.14	45.706					
1,200.0	1,200.0	1,198.6	1,205.5	5.2	4.0	-80.49	69.4	-414.3	420.1	410.4	9.71	43.283					
1,300.0	1,300.0	1,322.8	1,329.6	5.3	4.4	-80.87	65.8	-409.3	415.6	405.4	10.22	40.682					
1,400.0	1,400.0	1,434.8	1,441.1	5.5	4.7	-80.99	63.4	-399.8	406.8	396.1	10.69	38.058					
1,500.0	1,500.0	1,543.0	1,548.6	5.6	5.1	-80.92	61.9	-387.6	395.5	384.4	11.16	35.452					
1,600.0	1,600.0	1,646.8	1,651.6	5.8	5.4	-80.73	61.1	-374.2	382.6	371.0	11.62	32.916					
1,700.0	1,700.0	1,745.1	1,749.0	5.9	5.8	-80.52	60.3	-360.9	369.2	357.1	12.09	30.530					
1,800.0	1,800.0	1,841.5	1,844.5	6.0	6.1	-80.30	59.6	-348.5	356.3	343.7	12.57	28.357					
1,900.0	1,900.0	1,938.6	1,940.9	6.2	6.5	-79.97	59.5	-336.6	344.2	331.2	13.04	26.393					
2,000.0	2,000.0	2,039.6	2,041.1	6.3	6.9	-79.43	60.4	-324.1	332.2	318.7	13.52	24.562					
2,100.0	2,100.0	2,142.6	2,143.2	6.5	7.3	-102.33	61.4	-310.4	319.7	305.7	14.01	22.815					
2,200.0	2,199.8	2,245.4	2,244.9	6.8	7.7	-102.96	61.8	-295.4	306.6	292.1	14.50	21.146					
2,300.0	2,299.5	2,344.1	2,342.5	7.0	8.0	-104.36	61.7	-280.5	293.7	278.7	14.99	19.591					
2,400.0	2,398.7	2,438.4	2,435.8	7.2	8.4	-106.77	60.0	-267.4	282.8	267.3	15.50	18.250					
2,500.0	2,497.5	2,533.1	2,529.8	7.5	8.8	-110.00	58.1	-256.0	275.5	259.5	16.03	17.188					
2,507.0	2,504.4	2,540.0	2,536.7	7.6	8.8	-110.24	58.1	-255.2	275.1	259.0	16.07	17.122					
2,600.0	2,595.9	2,636.4	2,632.3	7.8	9.2	-113.37	58.7	-243.4	269.7	253.2	16.55	16.298					
2,700.0	2,694.3	2,742.7	2,737.4	8.0	9.6	-116.57	61.4	-227.4	261.9	244.8	17.09	15.327					
2,800.0	2,792.8	2,841.7	2,834.9	8.3	10.0	-119.99	62.9	-210.7	253.2	235.5	17.66	14.334					
2,900.0	2,891.2	2,933.2	2,925.2	8.5	10.4	-124.01	61.1	-196.1	246.9	228.6	18.30	13.491					
3,000.0	2,989.7	3,026.6	3,017.7	8.8	10.8	-128.65	57.2	-183.5	244.9	225.9	18.98	12.904					
3,017.9	3,007.3	3,043.8	3,034.7	8.9	10.8	-129.51	56.5	-181.3	244.9	225.8	19.11	12.816 CC					
3,100.0	3,088.1	3,126.6	3,116.7	9.1	11.2	-133.55	53.3	-170.4	245.2	225.5	19.71	12.441					
3,200.0	3,186.5	3,228.5	3,217.7	9.5	11.6	-138.20	51.2	-156.1	245.7	225.2	20.47	11.999 ES					
3,300.0	3,285.0	3,327.4	3,315.6	9.8	12.0	-142.22	51.4	-142.2	246.5	225.3	21.25	11.601					
3,400.0	3,383.4	3,423.3	3,410.6	10.1	12.4	-145.93	51.9	-129.4	249.1	227.0	22.05	11.298					
3,500.0	3,481.8	3,518.2	3,504.8	10.5	12.8	-149.39	52.2	-118.1	254.0	231.2	22.85	11.116					
3,600.0	3,580.3	3,618.6	3,604.6	10.8	13.2	-152.66	52.9	-107.2	260.5	236.8	23.67	11.005					
3,700.0	3,678.7	3,723.0	3,708.3	11.2	13.6	-155.71	55.4	-95.3	266.2	241.7	24.50	10.867					
3,800.0	3,777.2	3,822.4	3,806.9	11.6	14.0	-158.57	58.3	-82.8	271.4	246.1	25.33	10.715					
3,900.0	3,875.6	3,918.4	3,902.0	12.0	14.3	-161.37	60.3	-70.6	277.8	251.6	26.17	10.614					
4,000.0	3,974.0	4,013.5	3,996.5	12.3	14.7	-164.08	61.2	-58.9	286.0	259.0	27.01	10.588 SF					
4,100.0	4,072.5	4,110.1	4,092.4	12.7	15.1	-166.70	61.3	-47.5	295.8	268.0	27.85	10.621					
4,200.0	4,170.9	4,206.8	4,188.4	13.1	15.5	-169.17	60.8	-36.4	306.9	278.3	28.69	10.700					
4,300.0	4,269.3	4,309.2	4,290.3	13.5	15.9	-171.36	61.2	-25.7	318.3	288.8	29.53	10.778					
4,400.0	4,367.8	4,413.2	4,393.6	13.9	16.3	-173.22	63.8	-14.9	328.4	298.0	30.37	10.812					
4,500.0	4,466.2	4,510.9	4,490.8	14.3	16.7	-175.01	66.1	-3.8	338.4	307.4	31.01	10.911					
4,600.0	4,564.7	4,610.5	4,589.6	14.7	17.1	-176.88	67.9	8.2	348.9	317.1	31.84	10.957					
4,700.0	4,663.1	4,709.9	4,688.1	15.1	17.5	-178.78	69.6	21.2	359.4	326.8	32.67	11.001					
4,800.0	4,761.5	4,807.6	4,784.9	15.5	17.9	-179.41	71.1	34.2	370.4	336.9	33.49	11.061					

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 174-MWD - OWSG R1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,860.0	4,905.5	4,882.1	16.0	18.3	177.81	72.5	46.4	382.1	347.8	34.30	11.140	
5,000.0	4,958.4	5,004.5	4,980.4	16.4	18.7	176.36	74.1	58.3	394.1	359.0	35.11	11.226	
5,100.0	5,056.9	5,103.4	5,078.5	16.8	19.1	175.00	75.8	70.2	406.2	370.3	35.90	11.315	
5,200.0	5,155.3	5,196.8	5,171.2	17.2	19.5	173.78	76.8	81.3	419.1	382.5	36.67	11.431	
5,300.0	5,253.7	5,292.7	5,266.5	17.6	19.9	172.56	76.7	92.8	433.4	396.0	37.44	11.577	
5,400.0	5,352.2	5,390.3	5,363.4	18.1	20.2	171.45	76.5	103.9	448.2	410.0	38.21	11.728	
5,500.0	5,450.6	5,489.8	5,462.3	18.5	20.6	170.48	76.3	114.6	463.1	424.1	39.00	11.876	
5,600.0	5,549.0	5,588.6	5,560.5	18.9	21.0	169.60	76.4	125.0	478.0	438.2	39.77	12.018	
5,700.0	5,647.5	5,688.3	5,659.7	19.4	21.4	168.81	76.7	135.2	492.9	452.4	40.56	12.154	
5,800.0	5,745.9	5,791.8	5,762.6	19.8	21.8	167.89	77.3	147.1	507.3	466.0	41.36	12.265	
5,900.0	5,844.4	5,889.8	5,859.6	20.2	22.2	166.83	77.9	160.7	521.4	479.3	42.14	12.375	
6,000.0	5,942.8	5,987.0	5,955.7	20.6	22.6	165.75	78.2	174.8	535.9	493.0	42.90	12.492	
6,100.0	6,041.2	6,082.1	6,049.9	21.1	23.0	164.78	78.1	188.2	551.0	507.3	43.65	12.624	
6,200.0	6,139.7	6,178.3	6,145.2	21.5	23.4	163.91	77.5	201.2	566.7	522.4	44.39	12.767	
6,300.0	6,238.1	6,280.9	6,246.9	22.0	23.9	163.06	77.2	214.8	582.5	537.3	45.19	12.890	
6,400.0	6,336.5	6,384.7	6,349.7	22.4	24.3	162.21	77.9	229.0	597.3	551.3	45.98	12.989	
6,500.0	6,435.0	6,481.5	6,445.6	22.8	24.7	161.46	78.6	242.2	612.1	565.4	46.73	13.099	
6,600.0	6,533.4	6,578.5	6,541.8	23.3	25.1	160.80	79.1	254.9	627.2	579.8	47.48	13.212	
6,700.0	6,631.9	6,674.2	6,636.9	23.7	25.5	160.25	79.4	266.5	642.8	594.6	48.21	13.333	
6,800.0	6,730.3	6,769.1	6,731.1	24.1	25.9	159.79	79.2	277.4	658.9	610.0	48.94	13.464	
6,900.0	6,828.7	6,863.0	6,824.5	24.6	26.2	159.41	78.5	287.5	675.7	626.1	49.66	13.607	
7,000.0	6,927.2	6,959.9	6,920.9	25.0	26.6	159.16	77.2	296.4	693.1	642.7	50.40	13.751	
7,100.0	7,025.6	7,060.9	7,021.7	25.5	27.0	159.09	76.2	303.5	710.3	659.1	51.19	13.876	
7,200.0	7,124.1	7,161.3	7,122.0	25.9	27.3	159.28	75.6	307.5	727.2	675.2	51.97	13.993	
7,300.0	7,222.5	7,260.8	7,221.5	26.4	27.7	159.59	75.4	309.7	743.9	691.1	52.75	14.102	
7,400.0	7,320.9	7,357.8	7,318.4	26.8	28.0	159.91	75.1	311.4	760.6	707.1	53.51	14.216	
7,500.0	7,419.4	7,458.5	7,419.1	27.2	28.3	160.24	74.7	313.1	777.5	723.2	54.29	14.320	
7,573.0	7,491.3	7,533.8	7,494.5	27.6	28.6	160.47	74.8	314.4	789.5	734.6	54.88	14.386	
7,600.0	7,517.8	7,561.5	7,522.1	27.7	28.7	160.57	74.8	314.9	793.8	738.7	55.09	14.409	
7,700.0	7,616.5	7,664.7	7,625.3	28.1	29.0	160.89	75.6	316.8	808.4	752.5	55.89	14.464	
7,800.0	7,715.4	7,763.7	7,724.2	28.5	29.4	161.18	76.6	317.9	821.0	764.4	56.64	14.496	
7,900.0	7,814.6	7,860.4	7,820.9	29.0	29.7	161.45	77.4	318.6	832.3	774.9	57.36	14.510	
8,000.0	7,914.0	7,958.0	7,918.6	29.4	30.0	161.66	78.0	319.6	842.1	784.1	58.07	14.503	
8,100.0	8,013.5	8,056.2	8,016.8	29.8	30.3	161.82	78.4	320.5	850.6	791.8	58.76	14.474	
8,200.0	8,113.2	8,154.3	8,114.8	30.1	30.7	161.95	78.6	321.3	857.5	798.1	59.44	14.427	
8,300.0	8,213.1	8,251.0	8,211.5	30.5	31.0	162.04	78.5	321.9	863.1	803.1	60.08	14.366	
8,400.0	8,313.0	8,349.1	8,309.7	30.8	31.3	162.10	78.2	322.4	867.4	806.7	60.70	14.289	
8,500.0	8,412.9	8,449.9	8,410.4	31.1	31.6	162.17	77.9	322.3	870.0	808.7	61.29	14.193	
8,587.1	8,500.0	8,535.0	8,495.5	31.2	31.9	-174.84	77.5	321.7	871.0	809.4	61.67	14.123	
8,600.0	8,512.9	8,546.4	8,506.9	31.2	31.9	-174.84	77.4	321.6	871.1	809.4	61.70	14.118	
8,700.0	8,612.9	8,647.4	8,607.9	31.3	32.2	-174.77	76.9	320.6	871.7	809.6	62.08	14.042	
8,800.0	8,712.9	8,732.0	8,692.5	31.3	32.5	-174.73	76.5	319.9	872.4	810.1	62.31	14.001	
8,900.0	8,812.9	8,788.0	8,748.5	31.3	32.7	-174.69	74.4	319.1	876.7	814.5	62.23	14.088	
9,000.0	8,912.9	8,827.0	8,787.3	31.4	32.8	-174.65	70.7	318.1	887.1	825.3	61.81	14.353	
9,100.0	9,012.9	8,858.0	8,817.9	31.4	32.9	-174.59	65.9	316.8	904.4	843.3	61.06	14.810	
9,200.0	9,112.9	8,890.0	8,849.0	31.5	33.0	-174.50	58.7	314.7	928.7	868.6	60.17	15.436	
9,300.0	9,212.9	8,922.0	8,879.5	31.5	33.1	-174.40	49.5	312.2	959.6	900.4	59.16	16.222	
9,400.0	9,312.9	8,963.5	8,918.2	31.5	33.2	-174.32	34.7	309.5	996.3	938.0	58.31	17.085	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	1.6	3.0	3.0	-90.35	-0.7	-120.0	120.0				
100.0	100.0	98.4	100.0	3.1	3.1	-90.35	-0.7	-120.0	120.0	113.4	6.62	18.135	
200.0	200.0	198.4	200.0	3.3	3.3	-90.35	-0.7	-120.0	120.0	112.9	7.07	16.981	
300.0	300.0	298.4	300.0	3.6	3.6	-90.35	-0.7	-120.0	120.0	112.5	7.49	16.015	
400.0	400.0	398.4	400.0	3.8	3.8	-90.35	-0.7	-120.0	120.0	112.1	7.90	15.194	
500.0	500.0	498.4	500.0	4.0	4.0	-90.35	-0.7	-120.0	120.0	111.7	8.29	14.484	
600.0	600.0	598.4	600.0	4.1	4.1	-90.35	-0.7	-120.0	120.0	111.3	8.66	13.862	
700.0	700.0	698.4	700.0	4.3	4.3	-90.35	-0.7	-120.0	120.0	111.0	9.02	13.310	
800.0	800.0	798.4	800.0	4.5	4.5	-90.35	-0.7	-120.0	120.0	110.6	9.36	12.817	
900.0	900.0	898.4	900.0	4.7	4.7	-90.35	-0.7	-120.0	120.0	110.3	9.70	12.371	
1,000.0	1,000.0	998.4	1,000.0	4.8	4.8	-90.35	-0.7	-120.0	120.0	110.0	10.03	11.967	
1,100.0	1,100.0	1,098.4	1,100.0	5.0	5.0	-90.35	-0.7	-120.0	120.0	109.7	10.35	11.597	
1,200.0	1,200.0	1,198.4	1,200.0	5.2	5.2	-90.35	-0.7	-120.0	120.0	109.3	10.66	11.258	
1,300.0	1,300.0	1,298.4	1,300.0	5.3	5.3	-90.35	-0.7	-120.0	120.0	109.0	10.96	10.944	
1,400.0	1,400.0	1,398.4	1,400.0	5.5	5.5	-90.35	-0.7	-120.0	120.0	108.7	11.26	10.654	
1,500.0	1,500.0	1,498.4	1,500.0	5.6	5.6	-90.35	-0.7	-120.0	120.0	108.4	11.56	10.384	
1,600.0	1,600.0	1,598.4	1,600.0	5.8	5.8	-90.35	-0.7	-120.0	120.0	108.2	11.84	10.131	
1,700.0	1,700.0	1,698.4	1,700.0	5.9	5.9	-90.35	-0.7	-120.0	120.0	107.9	12.13	9.895	
1,800.0	1,800.0	1,798.4	1,800.0	6.0	6.0	-90.35	-0.7	-120.0	120.0	107.6	12.41	9.672	
1,900.0	1,900.0	1,898.4	1,900.0	6.2	6.2	-90.35	-0.7	-120.0	120.0	107.3	12.68	9.463	
2,000.0	2,000.0	1,998.4	2,000.0	6.3	6.3	-90.35	-0.7	-120.0	120.0	107.1	12.95	9.266 CC, ES	
2,100.0	2,100.0	2,096.1	2,097.7	6.5	6.5	-113.38	0.6	-120.9	121.6	108.4	13.25	9.182 SF	
2,200.0	2,199.8	2,193.6	2,195.1	6.8	6.7	-113.56	4.6	-123.7	126.5	113.0	13.53	9.351	
2,300.0	2,299.5	2,290.8	2,291.9	7.0	7.0	-113.83	11.4	-128.4	134.8	120.9	13.82	9.750	
2,400.0	2,398.7	2,387.5	2,387.9	7.2	7.2	-114.12	20.8	-134.9	146.3	132.1	14.11	10.364	
2,500.0	2,497.5	2,483.6	2,482.9	7.5	7.4	-114.41	32.7	-143.2	161.0	146.6	14.41	11.171	
2,507.0	2,504.4	2,490.3	2,489.6	7.6	7.5	-114.43	33.7	-143.9	162.2	147.7	14.43	11.235	
2,600.0	2,595.9	2,581.9	2,579.7	7.8	7.8	-114.89	46.6	-152.8	177.6	162.8	14.80	12.002	
2,700.0	2,694.3	2,680.5	2,676.9	8.0	8.0	-115.31	60.5	-162.5	194.3	179.2	15.13	12.843	
2,800.0	2,792.8	2,779.1	2,774.0	8.3	8.3	-115.66	74.4	-172.1	211.0	195.6	15.44	13.662	
2,900.0	2,891.2	2,877.7	2,871.1	8.5	8.5	-115.96	88.3	-181.8	227.7	211.9	15.77	14.438	
3,000.0	2,989.7	2,976.3	2,968.2	8.8	8.8	-116.22	102.3	-191.4	244.4	228.3	16.11	15.173	
3,100.0	3,088.1	3,074.8	3,065.4	9.1	9.1	-116.45	116.2	-201.1	261.1	244.6	16.45	15.869	
3,200.0	3,186.5	3,173.4	3,162.5	9.5	9.4	-116.65	130.1	-210.7	277.8	261.0	16.81	16.528	
3,300.0	3,285.0	3,272.0	3,259.6	9.8	9.7	-116.83	144.0	-220.4	294.5	277.3	17.17	17.152	
3,400.0	3,383.4	3,370.6	3,356.7	10.1	10.1	-116.98	157.9	-230.0	311.2	293.6	17.54	17.742	
3,500.0	3,481.8	3,469.2	3,453.9	10.5	10.4	-117.12	171.9	-239.7	327.9	310.0	17.92	18.300	
3,600.0	3,580.3	3,567.8	3,551.0	10.8	10.8	-117.25	185.8	-249.3	344.6	326.3	18.30	18.828	
3,700.0	3,678.7	3,666.4	3,648.1	11.2	11.1	-117.37	199.7	-259.0	361.3	342.6	18.69	19.328	
3,800.0	3,777.2	3,765.0	3,745.2	11.6	11.5	-117.47	213.6	-268.7	378.0	358.9	19.09	19.801	
3,900.0	3,875.6	3,863.6	3,842.4	12.0	11.8	-117.57	227.5	-278.3	394.7	375.2	19.49	20.248	
4,000.0	3,974.0	3,962.2	3,939.5	12.3	12.2	-117.66	241.5	-288.0	411.4	391.5	19.90	20.672	
4,100.0	4,072.5	4,060.8	4,036.6	12.7	12.6	-117.74	255.4	-297.6	428.2	407.8	20.32	21.074	
4,200.0	4,170.9	4,159.4	4,133.7	13.1	13.0	-117.82	269.3	-307.3	444.9	424.1	20.74	21.455	
4,300.0	4,269.3	4,257.9	4,230.9	13.5	13.3	-117.89	283.2	-316.9	461.6	440.4	21.16	21.816	
4,400.0	4,367.8	4,356.5	4,328.0	13.9	13.7	-117.95	297.1	-326.6	478.3	456.7	21.59	22.159	
4,500.0	4,466.2	4,455.1	4,425.1	14.3	14.1	-118.01	311.1	-336.2	495.0	473.0	22.02	22.484	
4,600.0	4,564.7	4,553.7	4,522.2	14.7	14.5	-118.07	325.0	-345.9	511.8	489.3	22.45	22.793	
4,700.0	4,663.1	4,652.3	4,619.4	15.1	14.9	-118.12	338.9	-355.5	528.5	505.6	22.89	23.087	
4,800.0	4,761.5	4,750.9	4,716.5	15.5	15.3	-118.17	352.8	-365.2	545.2	521.9	23.33	23.367	
4,900.0	4,860.0	4,849.5	4,813.6	16.0	15.7	-118.22	366.7	-374.8	561.9	538.1	23.78	23.633	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,958.4	4,948.1	4,910.7	16.4	16.1	-118.27	380.7	-384.5	578.6	554.4	24.22	23.886	
5,100.0	5,056.9	5,046.7	5,007.9	16.8	16.5	-118.31	394.6	-394.1	595.3	570.7	24.67	24.128	
5,200.0	5,155.3	5,145.3	5,105.0	17.2	16.9	-118.35	408.5	-403.8	612.1	586.9	25.13	24.358	
5,300.0	5,253.7	5,243.9	5,202.1	17.6	17.4	-118.39	422.4	-413.4	628.8	603.2	25.58	24.578	
5,400.0	5,352.2	5,342.4	5,299.2	18.1	17.8	-118.42	436.3	-423.1	645.5	619.5	26.04	24.788	
5,500.0	5,450.6	5,441.0	5,396.4	18.5	18.2	-118.45	450.3	-432.7	662.2	635.7	26.50	24.988	
5,600.0	5,549.0	5,539.6	5,493.5	18.9	18.6	-118.49	464.2	-442.4	679.0	652.0	26.96	25.180	
5,700.0	5,647.5	5,638.2	5,590.6	19.4	19.0	-118.52	478.1	-452.1	695.7	668.2	27.43	25.363	
5,800.0	5,745.9	5,736.8	5,687.7	19.8	19.4	-118.55	492.0	-461.7	712.4	684.5	27.90	25.538	
5,900.0	5,844.4	5,835.4	5,784.9	20.2	19.9	-118.57	505.9	-471.4	729.1	700.8	28.36	25.706	
6,000.0	5,942.8	5,934.0	5,882.0	20.6	20.3	-118.60	519.9	-481.0	745.8	717.0	28.83	25.867	
6,100.0	6,041.2	6,032.6	5,979.1	21.1	20.7	-118.63	533.8	-490.7	762.6	733.3	29.30	26.027	
6,200.0	6,139.7	6,135.3	6,080.4	21.5	21.1	-118.68	548.0	-500.5	779.1	749.4	29.77	26.171	
6,300.0	6,238.1	6,240.9	6,184.7	22.0	21.6	-118.84	561.2	-509.6	794.9	764.6	30.27	26.264	
6,400.0	6,336.5	6,346.6	6,289.5	22.4	22.0	-119.12	572.8	-517.7	809.8	779.1	30.75	26.332	
6,500.0	6,435.0	6,452.5	6,394.7	22.8	22.4	-119.51	582.8	-524.6	823.9	792.7	31.24	26.378	
6,600.0	6,533.4	6,558.4	6,500.1	23.3	22.9	-120.00	591.2	-530.5	837.2	805.5	31.71	26.403	
6,700.0	6,631.9	6,664.3	6,605.7	23.7	23.2	-120.60	598.0	-535.2	849.8	817.6	32.18	26.407	
6,800.0	6,730.3	6,770.1	6,711.3	24.1	23.6	-121.30	603.2	-538.8	861.6	828.9	32.64	26.393	
6,900.0	6,828.7	6,875.7	6,816.8	24.6	23.9	-122.09	606.8	-541.3	872.7	839.6	33.11	26.360	
7,000.0	6,927.2	6,981.1	6,922.1	25.0	24.2	-122.97	608.8	-542.7	883.3	849.7	33.57	26.312	
7,100.0	7,025.6	7,084.6	7,025.6	25.5	24.4	-123.93	609.3	-543.0	893.3	859.3	33.99	26.282	
7,200.0	7,124.1	7,183.0	7,124.1	25.9	24.4	-124.84	609.3	-543.0	903.3	868.9	34.41	26.250	
7,300.0	7,222.5	7,281.4	7,222.5	26.4	24.5	-125.74	609.3	-543.0	913.6	878.8	34.86	26.207	
7,400.0	7,320.9	7,379.9	7,320.9	26.8	24.5	-126.62	609.3	-543.0	924.1	888.8	35.33	26.157	
7,500.0	7,419.4	7,478.3	7,419.4	27.2	24.6	-127.48	609.3	-543.0	934.8	899.0	35.82	26.100	
7,573.0	7,491.3	7,550.2	7,491.3	27.6	24.6	-128.09	609.3	-543.0	942.8	906.6	36.17	26.063	
7,600.0	7,517.8	7,576.8	7,517.8	27.7	24.6	-128.33	609.3	-543.0	945.7	909.4	36.30	26.051	
7,700.0	7,616.5	7,675.4	7,616.5	28.1	24.6	-129.17	609.3	-543.0	956.0	919.2	36.81	25.972	
7,800.0	7,715.4	7,774.4	7,715.4	28.5	24.7	-129.91	609.3	-543.0	965.3	928.0	37.30	25.877	
7,900.0	7,814.6	7,873.5	7,814.6	29.0	24.7	-130.55	609.3	-543.0	973.6	935.9	37.79	25.766	
8,000.0	7,914.0	7,972.9	7,914.0	29.4	24.8	-131.10	609.3	-543.0	980.9	942.7	38.25	25.643	
8,100.0	8,013.5	8,072.5	8,013.5	29.8	24.8	-131.55	609.3	-543.0	987.1	948.4	38.70	25.508	
8,200.0	8,113.2	8,172.2	8,113.2	30.1	24.9	-131.92	609.3	-543.0	992.2	953.1	39.12	25.363	
8,300.0	8,213.1	8,272.0	8,213.1	30.5	24.9	-132.20	609.3	-543.0	996.1	956.6	39.51	25.212	
8,400.0	8,313.0	8,371.9	8,313.0	30.8	25.0	-132.40	609.3	-543.0	998.9	959.1	39.87	25.056	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	1.0	3.0	3.0	-90.36	-0.6	-100.0	100.0				
100.0	100.0	99.0	100.0	3.1	3.1	-90.36	-0.6	-100.0	100.0	93.4	6.62	15.110	
200.0	200.0	199.0	200.0	3.3	3.3	-90.36	-0.6	-100.0	100.0	92.9	7.07	14.148	
300.0	300.0	299.0	300.0	3.6	3.6	-90.36	-0.6	-100.0	100.0	92.5	7.49	13.344	
400.0	400.0	399.0	400.0	3.8	3.8	-90.36	-0.6	-100.0	100.0	92.1	7.90	12.660	
500.0	500.0	499.0	500.0	4.0	4.0	-90.36	-0.6	-100.0	100.0	91.7	8.29	12.068	
600.0	600.0	599.0	600.0	4.1	4.1	-90.36	-0.6	-100.0	100.0	91.3	8.66	11.550	
700.0	700.0	699.0	700.0	4.3	4.3	-90.36	-0.6	-100.0	100.0	91.0	9.02	11.090	
800.0	800.0	799.0	800.0	4.5	4.5	-90.36	-0.6	-100.0	100.0	90.6	9.36	10.679	
900.0	900.0	899.0	900.0	4.7	4.7	-90.36	-0.6	-100.0	100.0	90.3	9.70	10.308	
1,000.0	1,000.0	999.0	1,000.0	4.8	4.8	-90.36	-0.6	-100.0	100.0	90.0	10.03	9.971	
1,100.0	1,100.0	1,099.0	1,100.0	5.0	5.0	-90.36	-0.6	-100.0	100.0	89.7	10.35	9.664	
1,200.0	1,200.0	1,199.0	1,200.0	5.2	5.2	-90.36	-0.6	-100.0	100.0	89.3	10.66	9.381	
1,300.0	1,300.0	1,299.0	1,300.0	5.3	5.3	-90.36	-0.6	-100.0	100.0	89.0	10.97	9.120	
1,400.0	1,400.0	1,399.0	1,400.0	5.5	5.5	-90.36	-0.6	-100.0	100.0	88.7	11.26	8.878	
1,500.0	1,500.0	1,499.0	1,500.0	5.6	5.6	-90.36	-0.6	-100.0	100.0	88.4	11.56	8.652	
1,600.0	1,600.0	1,599.0	1,600.0	5.8	5.8	-90.36	-0.6	-100.0	100.0	88.2	11.85	8.442	
1,700.0	1,700.0	1,699.0	1,700.0	5.9	5.9	-90.36	-0.6	-100.0	100.0	87.9	12.13	8.245	
1,800.0	1,800.0	1,799.0	1,800.0	6.0	6.0	-90.36	-0.6	-100.0	100.0	87.6	12.41	8.060	
1,900.0	1,900.0	1,899.0	1,900.0	6.2	6.2	-90.36	-0.6	-100.0	100.0	87.3	12.68	7.886	
2,000.0	2,000.0	1,999.0	2,000.0	6.3	6.3	-90.36	-0.6	-100.0	100.0	87.0	12.95	7.721 CC, ES	
2,100.0	2,100.0	2,099.0	2,100.0	6.5	6.5	-113.22	1.1	-100.0	100.7	87.5	13.23	7.612	
2,200.0	2,199.8	2,198.9	2,199.8	6.8	6.8	-112.97	6.3	-100.1	102.8	89.3	13.50	7.613	
2,300.0	2,299.5	2,298.9	2,299.3	7.0	7.0	-112.55	15.0	-100.1	106.2	92.5	13.77	7.716	
2,400.0	2,398.7	2,398.7	2,398.4	7.2	7.2	-112.00	27.1	-100.2	111.1	97.1	14.04	7.916	
2,500.0	2,497.5	2,498.4	2,497.0	7.5	7.4	-111.68	42.0	-100.3	117.3	103.1	14.26	8.226	
2,507.0	2,504.4	2,505.4	2,504.0	7.6	7.4	-111.71	43.0	-100.4	117.8	103.5	14.28	8.249	
2,600.0	2,595.9	2,598.2	2,595.6	7.8	7.6	-112.23	57.1	-100.5	124.3	109.8	14.53	8.557	
2,700.0	2,694.3	2,697.9	2,694.2	8.0	7.9	-112.73	72.2	-100.6	131.3	116.5	14.80	8.869	
2,800.0	2,792.8	2,797.7	2,792.8	8.3	8.1	-113.18	87.4	-100.7	138.3	123.2	15.09	9.165	
2,900.0	2,891.2	2,897.4	2,891.4	8.5	8.4	-113.59	102.5	-100.8	145.3	129.9	15.38	9.448	
3,000.0	2,989.7	2,997.2	2,990.0	8.8	8.7	-113.95	117.6	-101.0	152.3	136.6	15.67	9.716	
3,100.0	3,088.1	3,096.9	3,088.6	9.1	9.0	-114.29	132.7	-101.1	159.3	143.3	15.97	9.971	
3,200.0	3,186.5	3,196.7	3,187.2	9.5	9.3	-114.60	147.9	-101.2	166.3	150.0	16.28	10.213	
3,300.0	3,285.0	3,296.4	3,285.8	9.8	9.6	-114.88	163.0	-101.3	173.3	156.7	16.60	10.443	
3,400.0	3,383.4	3,396.2	3,384.4	10.1	10.0	-115.14	178.1	-101.4	180.3	163.4	16.92	10.662	
3,500.0	3,481.8	3,495.9	3,483.0	10.5	10.3	-115.38	193.3	-101.6	187.4	170.1	17.24	10.869	
3,600.0	3,580.3	3,595.7	3,581.6	10.8	10.6	-115.61	208.4	-101.7	194.4	176.8	17.57	11.065	
3,700.0	3,678.7	3,695.4	3,680.2	11.2	11.0	-115.81	223.5	-101.8	201.4	183.5	17.90	11.252	
3,800.0	3,777.2	3,795.2	3,778.8	11.6	11.4	-116.01	238.7	-101.9	208.5	190.2	18.24	11.428	
3,900.0	3,875.6	3,894.9	3,877.4	12.0	11.7	-116.19	253.8	-102.1	215.5	196.9	18.58	11.596	
4,000.0	3,974.0	3,994.7	3,976.0	12.3	12.1	-116.36	268.9	-102.2	222.6	203.6	18.93	11.755	
4,100.0	4,072.5	4,094.4	4,074.6	12.7	12.5	-116.52	284.0	-102.3	229.6	210.3	19.28	11.906	
4,200.0	4,170.9	4,194.2	4,173.2	13.1	12.9	-116.67	299.2	-102.4	236.6	217.0	19.64	12.050	
4,300.0	4,269.3	4,293.9	4,271.8	13.5	13.2	-116.81	314.3	-102.5	243.7	223.7	20.00	12.186	
4,400.0	4,367.8	4,393.7	4,370.3	13.9	13.6	-116.94	329.4	-102.7	250.7	230.4	20.36	12.315	
4,500.0	4,466.2	4,493.4	4,468.9	14.3	14.0	-117.07	344.6	-102.8	257.8	237.1	20.72	12.438	
4,600.0	4,564.7	4,593.2	4,567.5	14.7	14.4	-117.19	359.7	-102.9	264.8	243.7	21.09	12.555	
4,700.0	4,663.1	4,692.9	4,666.1	15.1	14.8	-117.30	374.8	-103.0	271.9	250.4	21.46	12.666	
4,800.0	4,761.5	4,792.7	4,764.7	15.5	15.2	-117.41	390.0	-103.2	278.9	257.1	21.84	12.772	
4,900.0	4,860.0	4,892.4	4,863.3	16.0	15.6	-117.51	405.1	-103.3	286.0	263.8	22.22	12.873	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,958.4	4,992.2	4,961.9	16.4	16.4	-117.61	420.2	-103.4	293.0	270.4	22.60	12.968	
5,100.0	5,056.9	5,091.9	5,060.5	16.8	16.4	-117.70	435.3	-103.5	300.1	277.1	22.98	13.060	
5,200.0	5,155.3	5,191.7	5,159.1	17.2	16.8	-117.79	450.5	-103.6	307.1	283.8	23.36	13.147	
5,300.0	5,253.7	5,291.4	5,257.7	17.6	17.2	-117.88	465.6	-103.8	314.2	290.4	23.75	13.230	
5,400.0	5,352.2	5,391.2	5,356.3	18.1	17.6	-117.96	480.7	-103.9	321.3	297.1	24.14	13.309	
5,500.0	5,450.6	5,490.9	5,454.9	18.5	18.0	-118.03	495.9	-104.0	328.3	303.8	24.53	13.384	
5,600.0	5,549.0	5,590.7	5,553.5	18.9	18.5	-118.11	511.0	-104.1	335.4	310.4	24.92	13.456	
5,700.0	5,647.5	5,690.4	5,652.1	19.4	18.9	-118.18	526.1	-104.3	342.4	317.1	25.32	13.525	
5,800.0	5,745.9	5,790.2	5,750.7	19.8	19.3	-118.25	541.3	-104.4	349.5	323.8	25.71	13.591	
5,900.0	5,844.4	5,889.9	5,849.3	20.2	19.7	-118.31	556.4	-104.5	356.5	330.4	26.11	13.654	
6,000.0	5,942.8	5,989.7	5,947.9	20.6	20.1	-118.38	571.5	-104.6	363.6	337.1	26.51	13.714	
6,100.0	6,041.2	6,089.4	6,046.5	21.1	20.5	-118.44	586.6	-104.7	370.7	343.7	26.91	13.772	
6,200.0	6,139.7	6,189.2	6,145.1	21.5	21.0	-118.49	601.8	-104.9	377.7	350.4	27.32	13.827	
6,300.0	6,238.1	6,288.9	6,243.7	22.0	21.4	-118.55	616.9	-105.0	384.8	357.1	27.72	13.880	
6,400.0	6,336.5	6,388.7	6,342.3	22.4	21.8	-118.60	632.0	-105.1	391.8	363.7	28.13	13.930	
6,500.0	6,435.0	6,488.4	6,440.9	22.8	22.2	-118.66	647.2	-105.2	398.9	370.4	28.54	13.979	
6,600.0	6,533.4	6,588.2	6,539.4	23.3	22.6	-118.71	662.3	-105.4	406.0	377.0	28.95	14.025	
6,700.0	6,631.9	6,687.9	6,638.0	23.7	23.1	-118.76	677.4	-105.5	413.0	383.7	29.34	14.076	
6,800.0	6,730.3	6,786.9	6,736.0	24.1	23.5	-118.93	691.5	-105.6	420.2	390.4	29.79	14.107	
6,900.0	6,828.7	6,885.8	6,834.1	24.6	23.9	-119.33	703.8	-105.7	427.5	397.3	30.28	14.119	
7,000.0	6,927.2	6,984.6	6,932.3	25.0	24.3	-119.94	714.5	-105.8	435.1	404.3	30.84	14.111	
7,100.0	7,025.6	7,083.1	7,030.5	25.5	24.7	-120.75	723.4	-105.8	442.9	411.5	31.45	14.083	
7,200.0	7,124.1	7,181.4	7,128.5	25.9	25.0	-121.73	730.7	-105.9	451.1	419.0	32.14	14.038	
7,300.0	7,222.5	7,279.3	7,226.3	26.4	25.3	-122.89	736.2	-105.9	459.7	426.8	32.89	13.976	
7,400.0	7,320.9	7,376.9	7,323.7	26.8	25.7	-124.20	740.0	-106.0	468.8	435.1	33.72	13.902	
7,500.0	7,419.4	7,474.0	7,420.8	27.2	25.9	-125.65	742.2	-106.0	478.6	443.9	34.63	13.820	
7,573.0	7,491.3	7,544.6	7,491.4	27.6	26.1	-126.78	742.8	-106.0	486.1	450.8	35.31	13.766	
7,600.0	7,517.8	7,571.0	7,517.8	27.7	26.1	-127.23	742.8	-106.0	489.0	453.4	35.57	13.748	
7,700.0	7,616.5	7,669.7	7,616.5	28.1	26.1	-128.79	742.8	-106.0	499.1	462.6	36.52	13.667	
7,800.0	7,715.4	7,768.6	7,715.4	28.5	26.2	-130.13	742.8	-106.0	508.4	471.0	37.41	13.591	
7,900.0	7,814.6	7,867.8	7,814.6	29.0	26.2	-131.28	742.8	-106.0	516.8	478.6	38.23	13.519	
8,000.0	7,914.0	7,967.1	7,914.0	29.4	26.3	-132.24	742.8	-106.0	524.2	485.2	38.98	13.448	
8,100.0	8,013.5	8,066.7	8,013.5	29.8	26.3	-133.03	742.8	-106.0	530.6	490.9	39.66	13.377	
8,200.0	8,113.2	8,166.4	8,113.2	30.1	26.3	-133.67	742.8	-106.0	535.8	495.5	40.27	13.304	
8,300.0	8,213.1	8,266.2	8,213.1	30.5	26.4	-134.15	742.8	-106.0	539.9	499.1	40.81	13.229	
8,400.0	8,313.0	8,366.1	8,313.0	30.8	26.4	-134.48	742.8	-106.0	542.8	501.5	41.27	13.152	
8,500.0	8,412.9	8,466.1	8,412.9	31.1	26.5	-134.67	742.8	-106.0	544.4	502.8	41.64	13.074	
8,587.1	8,500.0	8,553.2	8,500.0	31.2	26.5	-111.78	742.8	-106.0	544.9	503.1	41.83	13.027	
8,600.0	8,512.9	8,566.1	8,512.9	31.2	26.5	-111.78	742.8	-106.0	544.9	503.1	41.84	13.024	
8,700.0	8,612.9	8,666.1	8,612.9	31.3	26.6	-111.78	742.8	-106.0	544.9	502.9	41.97	12.984	
8,800.0	8,712.9	8,766.1	8,712.9	31.3	26.6	-111.78	742.8	-106.0	544.9	502.8	42.08	12.949	
8,900.0	8,812.9	8,866.1	8,812.9	31.3	26.7	-111.78	742.8	-106.0	544.9	502.7	42.19	12.914	
9,000.0	8,912.9	8,966.1	8,912.9	31.4	26.7	-111.78	742.8	-106.0	544.9	502.6	42.31	12.879	
9,100.0	9,012.9	9,066.1	9,012.9	31.4	26.8	-111.78	742.8	-106.0	544.9	502.5	42.42	12.845	
9,200.0	9,112.9	9,166.1	9,112.9	31.5	26.8	-111.78	742.8	-106.0	544.9	502.4	42.54	12.810	
9,300.0	9,212.9	9,266.1	9,212.9	31.5	26.9	-111.78	742.8	-106.0	544.9	502.3	42.65	12.776	
9,400.0	9,312.9	9,366.1	9,312.9	31.5	26.9	-111.78	742.8	-106.0	544.9	502.1	42.77	12.741	
9,500.0	9,412.9	9,466.1	9,412.9	31.6	27.0	-111.78	742.8	-106.0	544.9	502.0	42.88	12.707	
9,600.0	9,512.9	9,566.1	9,512.9	31.6	27.0	-111.78	742.8	-106.0	544.9	501.9	43.00	12.673	
9,700.0	9,612.9	9,666.1	9,612.9	31.7	27.1	-111.78	742.8	-106.0	544.9	501.8	43.12	12.638	
9,800.0	9,712.9	9,766.1	9,712.9	31.7	27.1	-111.78	742.8	-106.0	544.9	501.7	43.23	12.604	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.0	9,812.9	9,866.1	9,812.9	31.8	27.2	-111.78	742.8	-106.0	544.9	501.6	43.35	12.570	
10,000.0	9,912.9	9,966.1	9,912.9	31.8	27.2	-111.78	742.8	-106.0	544.9	501.4	43.47	12.537	
10,100.0	10,012.9	10,066.1	10,012.9	31.8	27.3	-111.78	742.8	-106.0	544.9	501.3	43.58	12.503	
10,200.0	10,112.9	10,166.1	10,112.9	31.9	27.3	-111.78	742.8	-106.0	544.9	501.2	43.70	12.469	
10,300.0	10,212.9	10,266.1	10,212.9	31.9	27.4	-111.78	742.8	-106.0	544.9	501.1	43.82	12.436	
10,400.0	10,312.9	10,366.1	10,312.9	32.0	27.4	-111.78	742.8	-106.0	544.9	501.0	43.94	12.402	
10,500.0	10,412.9	10,466.1	10,412.9	32.0	27.5	-111.78	742.8	-106.0	544.9	500.9	44.05	12.369	
10,600.0	10,512.9	10,566.1	10,512.9	32.1	27.5	-111.78	742.8	-106.0	544.9	500.7	44.17	12.336	
10,700.0	10,612.9	10,666.1	10,612.9	32.1	27.6	-111.78	742.8	-106.0	544.9	500.6	44.29	12.303	
10,800.0	10,712.9	10,766.1	10,712.9	32.1	27.6	-111.78	742.8	-106.0	544.9	500.5	44.41	12.270	
10,900.0	10,812.9	10,866.1	10,812.9	32.2	27.7	-111.78	742.8	-106.0	544.9	500.4	44.53	12.237	
11,000.0	10,912.9	10,966.1	10,912.9	32.2	27.8	-111.78	742.8	-106.0	544.9	500.3	44.65	12.204	
11,100.0	11,012.9	11,066.1	11,012.9	32.3	27.8	-111.78	742.8	-106.0	544.9	500.1	44.77	12.171	
11,200.0	11,112.9	11,166.1	11,112.9	32.3	27.9	-111.78	742.8	-106.0	544.9	500.0	44.89	12.139	
11,300.0	11,212.9	11,266.1	11,212.9	32.4	27.9	-111.78	742.8	-106.0	544.9	499.9	45.01	12.106	
11,400.0	11,312.9	11,366.1	11,312.9	32.4	28.0	-111.78	742.8	-106.0	544.9	499.8	45.13	12.074	
11,500.0	11,412.9	11,466.1	11,412.9	32.5	28.0	-111.78	742.8	-106.0	544.9	499.7	45.25	12.041	
11,510.6	11,423.5	11,476.7	11,423.5	32.5	28.0	-111.78	742.8	-106.0	544.9	499.6	45.27	12.038	
11,600.0	11,512.9	11,561.6	11,508.4	32.5	28.0	-111.80	742.7	-106.0	545.0	499.7	45.32	12.024	
11,700.0	11,612.9	11,631.4	11,577.8	32.5	27.8	-112.45	736.0	-106.0	548.6	503.2	45.39	12.087	
11,800.0	11,712.9	11,700.0	11,644.4	32.6	27.6	-114.01	719.6	-105.9	558.0	512.2	45.79	12.186	
11,900.0	11,812.9	11,759.0	11,699.3	32.6	27.3	-116.03	698.1	-105.7	574.2	527.8	46.33	12.394	
12,000.0	11,912.9	11,813.6	11,747.4	32.7	27.1	-118.35	672.2	-105.6	597.9	550.9	46.96	12.732	
12,059.6	11,972.5	11,843.0	11,771.9	32.7	27.0	-119.75	656.1	-105.5	615.8	568.5	47.32	13.013	
12,075.0	11,987.9	11,850.0	11,777.6	32.7	27.0	54.39	652.0	-105.4	620.8	573.4	47.39	13.100	
12,100.0	12,012.9	11,862.1	11,787.3	32.6	26.9	53.03	644.8	-105.4	628.7	581.2	47.46	13.248	
12,125.0	12,037.7	11,875.0	11,797.5	32.5	26.9	51.71	636.8	-105.3	636.4	588.9	47.50	13.397	
12,150.0	12,062.4	11,885.8	11,805.8	32.4	26.8	50.56	629.9	-105.3	643.7	596.3	47.48	13.557	
12,175.0	12,086.8	11,900.0	11,816.5	32.3	26.8	49.36	620.6	-105.2	650.8	603.3	47.49	13.705	
12,200.0	12,110.9	11,909.6	11,823.6	32.2	26.7	48.39	614.1	-105.2	657.6	610.2	47.41	13.871	
12,225.0	12,134.6	11,925.0	11,834.6	32.1	26.7	47.31	603.4	-105.1	664.0	616.6	47.39	14.011	
12,250.0	12,157.9	11,933.5	11,840.6	32.0	26.6	46.52	597.4	-105.1	669.9	622.7	47.26	14.177	
12,275.0	12,180.7	11,950.0	11,851.9	31.9	26.6	45.57	585.3	-105.0	675.6	628.3	47.22	14.307	
12,300.0	12,202.9	11,957.4	11,856.8	31.8	26.5	44.93	579.8	-105.0	680.7	633.6	47.06	14.465	
12,325.0	12,224.5	11,975.0	11,868.1	31.7	26.5	44.11	566.3	-104.9	685.5	638.5	47.01	14.582	
12,350.0	12,245.4	11,981.3	11,872.1	31.6	26.5	43.62	561.4	-104.9	689.7	642.9	46.83	14.728	
12,375.0	12,265.5	11,993.2	11,879.4	31.5	26.4	43.06	552.0	-104.8	693.5	646.8	46.71	14.847	
12,400.0	12,284.8	12,000.0	11,883.4	31.4	26.4	42.65	546.5	-104.8	696.9	650.4	46.55	14.972	
12,425.0	12,303.3	12,017.2	11,893.2	31.3	26.4	42.13	532.5	-104.7	699.7	653.2	46.47	15.056	
12,450.0	12,320.9	12,025.0	11,897.6	31.2	26.3	41.81	525.9	-104.6	702.1	655.8	46.33	15.155	
12,475.0	12,337.5	12,041.1	11,906.1	31.1	26.3	41.44	512.3	-104.6	703.9	657.7	46.25	15.221	
12,500.0	12,353.1	12,050.0	11,910.7	31.0	26.3	41.22	504.6	-104.5	705.3	659.1	46.12	15.290	
12,525.0	12,367.6	12,065.1	11,918.0	30.9	26.2	40.99	491.5	-104.4	706.0	660.0	46.04	15.335	
12,550.0	12,381.1	12,075.0	11,922.6	30.9	26.2	40.87	482.7	-104.4	706.3	660.4	45.94	15.375	
12,575.0	12,393.5	12,089.0	11,928.8	30.8	26.2	40.77	470.1	-104.3	706.1	660.2	45.87	15.395	
12,600.0	12,404.7	12,100.0	11,933.4	30.7	26.1	40.75	460.1	-104.2	705.3	659.5	45.79	15.404	
12,625.0	12,414.7	12,113.0	11,938.5	30.7	26.1	40.78	448.2	-104.2	704.0	658.3	45.72	15.398	
12,650.0	12,423.6	12,125.0	11,943.0	30.6	26.1	40.87	437.1	-104.1	702.2	656.5	45.66	15.377	
12,675.0	12,431.1	12,136.9	11,947.2	30.6	26.1	41.03	425.9	-104.0	699.8	654.2	45.61	15.343	
12,700.0	12,437.4	12,150.0	11,951.4	30.6	26.1	41.24	413.5	-103.9	697.0	651.4	45.57	15.294	
12,725.0	12,442.5	12,160.9	11,954.6	30.5	26.0	41.51	403.1	-103.9	693.6	648.0	45.54	15.231	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:									Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
12,750.0	12,446.3	12,175.0	11,958.5	30.5	26.0	41.85	389.6	-103.8	689.7	644.1	45.51	15.155		
12,775.0	12,448.7	12,184.8	11,961.0	30.5	26.0	42.25	380.1	-103.7	685.2	639.7	45.49	15.064		
12,800.0	12,449.9	12,200.0	11,964.4	30.5	26.0	42.73	365.3	-103.6	680.3	634.9	45.46	14.965		
12,809.6	12,450.0	12,200.0	11,964.4	30.5	26.0	42.90	365.3	-103.6	678.3	632.8	45.47	14.919		
12,900.0	12,450.0	12,250.0	11,972.3	30.5	25.9	43.36	315.9	-103.3	662.9	617.4	45.52	14.564		
13,000.0	12,450.0	12,300.7	11,975.0	30.5	25.9	43.50	265.3	-103.0	655.2	609.3	45.90	14.274		
13,063.4	12,450.0	12,353.0	11,975.0	30.6	25.9	43.46	213.0	-102.7	654.4	608.3	46.16	14.178		
13,077.4	12,450.0	12,367.0	11,975.0	30.6	25.9	43.46	199.0	-102.6	654.4	608.2	46.20	14.166		
13,100.0	12,450.0	12,389.6	11,975.0	30.6	25.9	43.46	176.4	-102.5	654.4	608.2	46.26	14.147		
13,200.0	12,450.0	12,489.6	11,975.0	30.6	25.9	43.46	76.4	-101.8	654.4	607.8	46.59	14.045		
13,300.0	12,450.0	12,589.6	11,975.0	30.6	25.9	43.46	-23.6	-101.2	654.4	607.4	46.99	13.927		
13,400.0	12,450.0	12,689.6	11,975.0	30.7	25.9	43.46	-123.6	-100.6	654.4	607.0	47.44	13.794		
13,500.0	12,450.0	12,789.6	11,975.0	30.8	26.0	43.46	-223.6	-99.9	654.4	606.4	47.96	13.646		
13,600.0	12,450.0	12,889.6	11,975.0	30.8	26.0	43.46	-323.6	-99.3	654.4	605.9	48.53	13.486		
13,700.0	12,450.0	12,989.6	11,975.0	30.9	26.0	43.46	-423.6	-98.7	654.4	605.3	49.15	13.315		
13,800.0	12,450.0	13,089.6	11,975.0	31.0	26.0	43.46	-523.6	-98.1	654.4	604.6	49.83	13.134		
13,900.0	12,450.0	13,189.6	11,975.0	31.1	26.0	43.46	-623.6	-97.4	654.4	603.8	50.55	12.945		
14,000.0	12,450.0	13,289.6	11,975.0	31.2	26.0	43.46	-723.6	-96.8	654.4	603.1	51.33	12.750		
14,100.0	12,450.0	13,389.6	11,975.0	31.4	26.0	43.46	-823.6	-96.2	654.4	602.2	52.15	12.549		
14,200.0	12,450.0	13,489.6	11,975.0	31.6	26.1	43.46	-923.6	-95.6	654.4	601.4	53.01	12.345		
14,300.0	12,450.0	13,589.6	11,975.0	31.7	26.1	43.46	-1,023.6	-94.9	654.4	600.5	53.92	12.137		
14,400.0	12,450.0	13,689.6	11,975.0	31.9	26.1	43.46	-1,123.6	-94.3	654.4	599.5	54.86	11.928		
14,500.0	12,450.0	13,789.6	11,975.0	32.2	26.1	43.46	-1,223.6	-93.7	654.4	598.5	55.84	11.718		
14,600.0	12,450.0	13,889.6	11,975.0	32.4	26.2	43.46	-1,323.6	-93.1	654.4	597.5	56.86	11.509		
14,700.0	12,450.0	13,989.6	11,975.0	32.7	26.2	43.46	-1,423.6	-92.4	654.4	596.5	57.91	11.300		
14,800.0	12,450.0	14,089.6	11,975.0	33.1	26.2	43.46	-1,523.6	-91.8	654.4	595.4	59.00	11.092		
14,900.0	12,450.0	14,189.6	11,975.0	33.4	26.7	43.46	-1,623.6	-91.2	654.4	594.3	60.11	10.886		
15,000.0	12,450.0	14,289.6	11,975.0	33.9	27.5	43.46	-1,723.6	-90.5	654.4	593.1	61.25	10.683		
15,100.0	12,450.0	14,389.6	11,975.0	34.3	28.3	43.46	-1,823.6	-89.9	654.4	592.0	62.42	10.483		
15,200.0	12,450.0	14,489.6	11,975.0	34.8	29.1	43.46	-1,923.5	-89.3	654.4	590.8	63.62	10.287		
15,300.0	12,450.0	14,589.6	11,975.0	35.3	29.9	43.46	-2,023.5	-88.7	654.4	589.5	64.83	10.093		
15,400.0	12,450.0	14,689.6	11,975.0	35.9	30.7	43.46	-2,123.5	-88.0	654.4	588.3	66.07	9.904		
15,500.0	12,450.0	14,789.6	11,975.0	36.4	31.5	43.46	-2,223.5	-87.4	654.4	587.0	67.34	9.718		
15,600.0	12,450.0	14,889.6	11,975.0	37.1	32.3	43.46	-2,323.5	-86.8	654.4	585.8	68.62	9.536		
15,700.0	12,450.0	14,989.6	11,975.0	37.7	33.1	43.46	-2,423.5	-86.2	654.4	584.5	69.92	9.359		
15,800.0	12,450.0	15,089.6	11,975.0	38.4	34.0	43.46	-2,523.5	-85.5	654.4	583.1	71.24	9.185		
15,900.0	12,450.0	15,189.6	11,975.0	39.1	34.8	43.46	-2,623.5	-84.9	654.4	581.8	72.58	9.016		
16,000.0	12,450.0	15,289.6	11,975.0	39.8	35.7	43.46	-2,723.5	-84.3	654.4	580.4	73.93	8.851		
16,100.0	12,450.0	15,389.6	11,975.0	40.5	36.5	43.46	-2,823.5	-83.7	654.4	579.1	75.30	8.690		
16,200.0	12,450.0	15,489.6	11,975.0	41.3	37.4	43.46	-2,923.5	-83.0	654.4	577.7	76.68	8.534		
16,300.0	12,450.0	15,589.6	11,975.0	42.0	38.2	43.46	-3,023.5	-82.4	654.4	576.3	78.07	8.381		
16,400.0	12,450.0	15,689.6	11,975.0	42.8	39.1	43.46	-3,123.5	-81.8	654.4	574.9	79.48	8.233		
16,500.0	12,450.0	15,789.6	11,975.0	43.6	40.0	43.46	-3,223.5	-81.2	654.4	573.5	80.90	8.088		
16,600.0	12,450.0	15,889.6	11,975.0	44.4	40.9	43.46	-3,323.5	-80.5	654.4	572.0	82.34	7.947		
16,700.0	12,450.0	15,989.6	11,975.0	45.2	41.8	43.46	-3,423.5	-79.9	654.4	570.6	83.78	7.810		
16,800.0	12,450.0	16,089.6	11,975.0	46.0	42.6	43.46	-3,523.5	-79.3	654.4	569.1	85.23	7.677		
16,900.0	12,450.0	16,189.6	11,975.0	46.8	43.5	43.46	-3,623.5	-78.6	654.4	567.7	86.70	7.547		
17,000.0	12,450.0	16,289.6	11,975.0	47.7	44.4	43.46	-3,723.5	-78.0	654.4	566.2	88.17	7.421		
17,100.0	12,450.0	16,389.6	11,975.0	48.5	45.3	43.46	-3,823.5	-77.4	654.4	564.7	89.65	7.299		
17,200.0	12,450.0	16,489.6	11,975.0	49.3	46.2	43.46	-3,923.5	-76.8	654.3	563.2	91.14	7.179		
17,300.0	12,450.0	16,589.6	11,975.0	50.2	47.1	43.46	-4,023.5	-76.1	654.3	561.7	92.64	7.063		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program:		0-r.5 MWD+IFR1		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Distance	Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning			
17,400.0	12,450.0	16,689.6	11,975.0	51.0	48.0	43.45	-4,123.5	-75.5	654.3	560.2	94.15	6.950				
17,500.0	12,450.0	16,789.6	11,975.0	51.9	48.9	43.45	-4,223.5	-74.9	654.3	558.7	95.66	6.840				
17,600.0	12,450.0	16,889.6	11,975.0	52.8	49.8	43.45	-4,323.5	-74.3	654.3	557.2	97.18	6.733				
17,700.0	12,450.0	16,989.6	11,975.0	53.6	50.7	43.45	-4,423.5	-73.6	654.3	555.6	98.71	6.629				
17,800.0	12,450.0	17,089.6	11,975.0	54.5	51.6	43.45	-4,523.5	-73.0	654.3	554.1	100.25	6.527				
17,900.0	12,450.0	17,189.6	11,975.0	55.4	52.6	43.45	-4,623.5	-72.4	654.3	552.6	101.79	6.429				
18,000.0	12,450.0	17,289.6	11,975.0	56.3	53.5	43.45	-4,723.5	-71.8	654.3	551.0	103.33	6.332				
18,100.0	12,450.0	17,389.6	11,975.0	57.2	54.4	43.45	-4,823.5	-71.1	654.3	549.5	104.88	6.239				
18,200.0	12,450.0	17,489.6	11,975.0	58.0	55.3	43.45	-4,923.5	-70.5	654.3	547.9	106.44	6.147				
18,300.0	12,450.0	17,589.6	11,975.0	58.9	56.2	43.45	-5,023.5	-69.9	654.3	546.3	108.00	6.059				
18,400.0	12,450.0	17,689.6	11,975.0	59.8	57.2	43.45	-5,123.5	-69.2	654.3	544.8	109.57	5.972				
18,500.0	12,450.0	17,789.6	11,975.0	60.7	58.1	43.45	-5,223.5	-68.6	654.3	543.2	111.14	5.887				
18,600.0	12,450.0	17,889.6	11,975.0	61.6	59.0	43.45	-5,323.5	-68.0	654.3	541.6	112.71	5.805				
18,700.0	12,450.0	17,989.6	11,975.0	62.5	59.9	43.45	-5,423.5	-67.4	654.3	540.0	114.29	5.725				
18,800.0	12,450.0	18,089.6	11,975.0	63.4	60.9	43.45	-5,523.5	-66.7	654.3	538.4	115.88	5.647				
18,900.0	12,450.0	18,189.6	11,975.0	64.3	61.8	43.45	-5,623.5	-66.1	654.3	536.9	117.47	5.570				
19,000.0	12,450.0	18,289.6	11,975.0	65.2	62.7	43.45	-5,723.5	-65.5	654.3	535.3	119.06	5.496				
19,100.0	12,450.0	18,389.6	11,975.0	66.1	63.6	43.45	-5,823.5	-64.9	654.3	533.7	120.65	5.423				
19,200.0	12,450.0	18,489.6	11,975.0	67.0	64.6	43.45	-5,923.5	-64.2	654.3	532.1	122.25	5.352				
19,300.0	12,450.0	18,589.6	11,975.0	68.0	65.5	43.45	-6,023.5	-63.6	654.3	530.5	123.85	5.283				
19,400.0	12,450.0	18,689.6	11,975.0	68.9	66.4	43.45	-6,123.5	-63.0	654.3	528.9	125.46	5.215				
19,500.0	12,450.0	18,789.6	11,975.0	69.8	67.4	43.45	-6,223.5	-62.4	654.3	527.2	127.07	5.149				
19,600.0	12,450.0	18,889.6	11,975.0	70.7	68.3	43.45	-6,323.5	-61.7	654.3	525.6	128.68	5.085				
19,700.0	12,450.0	18,989.6	11,975.0	71.6	69.2	43.45	-6,423.5	-61.1	654.3	524.0	130.29	5.022				
19,800.0	12,450.0	19,089.6	11,975.0	72.5	70.2	43.45	-6,523.5	-60.5	654.3	522.4	131.91	4.960				
19,900.0	12,450.0	19,189.6	11,975.0	73.5	71.1	43.45	-6,623.5	-59.9	654.3	520.8	133.53	4.900				
20,000.0	12,450.0	19,289.6	11,975.0	74.4	72.0	43.45	-6,723.5	-59.2	654.3	519.2	135.15	4.841				
20,100.0	12,450.0	19,389.6	11,975.0	75.3	73.0	43.45	-6,823.5	-58.6	654.3	517.5	136.78	4.784				
20,200.0	12,450.0	19,489.6	11,975.0	76.2	73.9	43.45	-6,923.5	-58.0	654.3	515.9	138.40	4.728				
20,300.0	12,450.0	19,589.6	11,975.0	77.1	74.9	43.45	-7,023.4	-57.3	654.3	514.3	140.03	4.673				
20,368.8	12,450.0	19,658.4	11,975.0	77.8	75.5	43.45	-7,092.3	-56.9	654.3	513.1	141.15	4.635 SF				

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
0.0	0.0	0.0	1.3	3.0	3.0	-90.36	-0.5	-80.0	80.0				
100.0	100.0	98.7	100.0	3.1	3.1	-90.36	-0.5	-80.0	80.0	73.4	6.62	12.089	
200.0	200.0	198.7	200.0	3.3	3.3	-90.36	-0.5	-80.0	80.0	72.9	7.07	11.320	
300.0	300.0	298.7	300.0	3.6	3.6	-90.36	-0.5	-80.0	80.0	72.5	7.49	10.676	
400.0	400.0	398.7	400.0	3.8	3.8	-90.36	-0.5	-80.0	80.0	72.1	7.90	10.129	
500.0	500.0	498.7	500.0	4.0	4.0	-90.36	-0.5	-80.0	80.0	71.7	8.29	9.655	
600.0	600.0	598.7	600.0	4.1	4.1	-90.36	-0.5	-80.0	80.0	71.3	8.66	9.241	
700.0	700.0	698.7	700.0	4.3	4.3	-90.36	-0.5	-80.0	80.0	71.0	9.02	8.873	
800.0	800.0	798.7	800.0	4.5	4.5	-90.36	-0.5	-80.0	80.0	70.6	9.36	8.544	
900.0	900.0	898.7	900.0	4.7	4.7	-90.36	-0.5	-80.0	80.0	70.3	9.70	8.247	
1,000.0	1,000.0	998.7	1,000.0	4.8	4.8	-90.36	-0.5	-80.0	80.0	70.0	10.03	7.978	
1,100.0	1,100.0	1,098.7	1,100.0	5.0	5.0	-90.36	-0.5	-80.0	80.0	69.7	10.35	7.731	
1,200.0	1,200.0	1,198.7	1,200.0	5.2	5.2	-90.36	-0.5	-80.0	80.0	69.3	10.66	7.505	
1,300.0	1,300.0	1,298.7	1,300.0	5.3	5.3	-90.36	-0.5	-80.0	80.0	69.0	10.97	7.296	
1,400.0	1,400.0	1,398.7	1,400.0	5.5	5.5	-90.36	-0.5	-80.0	80.0	68.7	11.26	7.102	
1,500.0	1,500.0	1,498.7	1,500.0	5.6	5.6	-90.36	-0.5	-80.0	80.0	68.4	11.56	6.922	
1,600.0	1,600.0	1,598.7	1,600.0	5.8	5.8	-90.36	-0.5	-80.0	80.0	68.2	11.85	6.754	
1,700.0	1,700.0	1,698.7	1,700.0	5.9	5.9	-90.36	-0.5	-80.0	80.0	67.9	12.13	6.596	
1,800.0	1,800.0	1,798.7	1,800.0	6.0	6.0	-90.36	-0.5	-80.0	80.0	67.6	12.41	6.448	
1,900.0	1,900.0	1,898.7	1,900.0	6.2	6.2	-90.36	-0.5	-80.0	80.0	67.3	12.68	6.309	
2,000.0	2,000.0	1,998.7	2,000.0	6.3	6.3	-90.36	-0.5	-80.0	80.0	67.0	12.95	6.177	
2,100.0	2,100.0	2,098.7	2,100.0	6.5	6.5	-114.42	-0.5	-80.0	80.7	67.5	13.23	6.100	
2,200.0	2,199.8	2,200.3	2,201.6	6.8	6.7	-116.78	1.0	-79.0	82.0	68.4	13.54	6.055	
2,300.0	2,299.5	2,302.0	2,303.2	7.0	6.9	-119.29	5.5	-76.1	82.8	68.9	13.85	5.977	
2,400.0	2,398.7	2,403.9	2,404.6	7.2	7.1	-121.98	13.0	-71.2	83.2	69.0	14.19	5.866	
2,500.0	2,497.5	2,505.8	2,505.8	7.5	7.4	-124.89	23.5	-64.3	83.3	68.8	14.57	5.718	
2,507.0	2,504.4	2,513.0	2,512.9	7.6	7.4	-125.10	24.4	-63.7	83.3	68.7	14.60	5.707	
2,600.0	2,595.9	2,607.9	2,606.6	7.8	7.7	-127.21	37.1	-55.4	82.2	67.3	14.94	5.504	
2,700.0	2,694.3	2,710.0	2,706.7	8.0	7.9	-127.87	53.6	-44.5	78.5	63.2	15.30	5.133	
2,800.0	2,792.8	2,811.7	2,805.7	8.3	8.3	-126.71	73.1	-31.8	72.3	56.6	15.64	4.620	
2,900.0	2,891.2	2,912.4	2,902.9	8.5	8.5	-123.25	95.0	-17.4	63.7	47.8	15.88	4.013	
3,000.0	2,989.7	3,011.9	2,998.8	8.8	8.8	-118.26	117.2	-2.9	55.1	39.0	16.12	3.418	
3,100.0	3,088.1	3,111.4	3,094.7	9.1	9.1	-111.50	139.4	11.6	47.0	30.7	16.26	2.891 Normal Operations	
3,200.0	3,186.5	3,210.8	3,190.6	9.5	9.4	-102.15	161.6	26.2	39.8	23.5	16.32	2.442 Caution - Monitor Closely	
3,300.0	3,285.0	3,310.3	3,286.5	9.8	9.8	-89.26	183.7	40.7	34.2	17.8	16.40	2.083 Caution - Monitor Closely	
3,400.0	3,383.4	3,409.8	3,382.4	10.1	10.1	-72.53	205.9	55.2	30.8	13.9	16.93	1.821 Caution - Monitor Closely	
3,457.7	3,440.3	3,467.3	3,437.7	10.3	10.3	-61.73	218.7	63.6	30.3	12.7	17.61	1.719 Caution - Monitor Closely, CC	
3,500.0	3,481.8	3,509.3	3,478.2	10.5	10.5	-53.78	228.1	69.8	30.6	12.3	18.27	1.673 Caution - Monitor Closely, ES	
3,600.0	3,580.3	3,608.8	3,574.1	10.8	10.8	-36.55	250.3	84.3	33.5	13.4	20.04	1.671 Caution - Monitor Closely, SF	
3,700.0	3,678.7	3,708.3	3,670.0	11.2	11.2	-23.05	272.5	98.9	38.9	17.2	21.63	1.796 Caution - Monitor Closely	
3,800.0	3,777.2	3,807.8	3,765.9	11.6	11.6	-13.21	294.7	113.4	45.8	22.9	22.90	2.001 Caution - Monitor Closely	
3,900.0	3,875.6	3,907.3	3,861.8	12.0	12.0	-6.11	316.9	127.9	53.8	29.8	23.95	2.246 Caution - Monitor Closely	
4,000.0	3,974.0	4,006.8	3,957.7	12.3	12.4	-0.89	339.1	142.5	62.4	37.5	24.87	2.508 Normal Operations	
4,100.0	4,072.5	4,106.3	4,053.6	12.7	12.8	3.05	361.3	157.0	71.3	45.6	25.72	2.773 Normal Operations	
4,200.0	4,170.9	4,205.8	4,149.5	13.1	13.3	6.09	383.4	171.5	80.5	54.0	26.54	3.035	
4,300.0	4,269.3	4,305.3	4,245.4	13.5	13.7	8.51	405.6	186.1	89.9	62.6	27.34	3.289	
4,400.0	4,367.8	4,404.8	4,341.3	13.9	14.1	10.47	427.8	200.6	99.5	71.3	28.14	3.534	
4,500.0	4,466.2	4,504.3	4,437.2	14.3	14.5	12.08	450.0	215.2	109.1	80.1	28.93	3.770	
4,600.0	4,564.7	4,603.8	4,533.1	14.7	15.0	13.44	472.2	229.7	118.8	89.0	29.73	3.995	
4,700.0	4,663.1	4,703.2	4,628.9	15.1	15.4	14.58	494.4	244.2	128.5	98.0	30.53	4.209	
4,800.0	4,761.5	4,802.7	4,724.8	15.5	15.9	15.57	516.6	258.8	138.3	107.0	31.34	4.414	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,860.0	4,902.2	4,820.7	16.0	16.3	16.42	538.8	273.3	148.1	116.0	32.14	4.609	
5,000.0	4,958.4	5,003.0	4,917.9	16.4	16.7	17.19	561.1	287.9	157.8	124.9	32.95	4.789	
5,100.0	5,056.9	5,105.5	5,017.1	16.8	17.2	17.95	582.5	302.0	166.0	132.2	33.81	4.911	
5,200.0	5,155.3	5,208.3	5,117.1	17.2	17.7	18.73	602.6	315.1	172.5	137.9	34.64	4.980	
5,300.0	5,253.7	5,311.2	5,217.6	17.6	18.1	19.55	621.1	327.3	177.2	141.8	35.44	5.000	
5,400.0	5,352.2	5,414.3	5,318.7	18.1	18.6	20.44	638.2	338.4	180.2	144.0	36.22	4.976	
5,500.0	5,450.6	5,517.5	5,420.1	18.5	19.0	21.40	653.7	348.6	181.5	144.5	36.95	4.911	
5,600.0	5,549.0	5,620.6	5,521.9	18.9	19.5	22.48	667.7	357.8	181.0	143.4	37.64	4.809	
5,700.0	5,647.5	5,723.7	5,623.9	19.4	19.9	23.70	680.2	366.0	178.9	140.6	38.28	4.673	
5,800.0	5,745.9	5,826.6	5,726.0	19.8	20.3	25.10	691.1	373.1	175.1	136.3	38.85	4.507	
5,900.0	5,844.4	5,929.3	5,828.1	20.2	20.7	26.74	700.5	379.2	169.7	130.4	39.33	4.315	
6,000.0	5,942.8	6,031.8	5,930.1	20.6	21.1	28.68	708.3	384.4	162.8	123.0	39.71	4.099	
6,100.0	6,041.2	6,133.9	6,031.9	21.1	21.5	31.03	714.5	388.5	154.3	114.4	39.93	3.865	
6,200.0	6,139.7	6,235.6	6,133.5	21.5	21.8	33.92	719.3	391.6	144.5	104.6	39.94	3.619	
6,300.0	6,238.1	6,336.8	6,234.6	22.0	22.1	37.57	722.5	393.7	133.6	93.9	39.65	3.369	
6,400.0	6,336.5	6,437.5	6,335.4	22.4	22.4	42.26	724.2	394.8	121.8	82.9	38.90	3.130	
6,500.0	6,435.0	6,537.2	6,435.0	22.8	22.5	48.38	724.5	395.0	109.6	72.1	37.48	2.923 Normal Operations	
6,600.0	6,533.4	6,635.6	6,533.4	23.3	22.5	55.97	724.5	395.0	98.6	63.3	35.39	2.787 Normal Operations	
6,700.0	6,631.9	6,734.1	6,631.9	23.7	22.6	65.19	724.5	395.0	89.9	57.2	32.67	2.751 Normal Operations	
6,800.0	6,730.3	6,832.5	6,730.3	24.1	22.6	76.01	724.5	395.0	83.9	54.1	29.78	2.818 Normal Operations	
6,900.0	6,828.7	6,930.9	6,828.7	24.6	22.7	87.93	724.5	395.0	81.4	53.5	27.85	2.923 Normal Operations	
6,916.9	6,845.4	6,947.6	6,845.4	24.7	22.7	90.00	724.5	395.0	81.3	53.6	27.72	2.934 Normal Operations	
7,000.0	6,927.2	7,029.4	6,927.2	25.0	22.7	100.03	724.5	395.0	82.6	54.5	28.12	2.939 Normal Operations	
7,100.0	7,025.6	7,127.8	7,025.6	25.5	22.8	111.30	724.5	395.0	87.5	57.0	30.49	2.870 Normal Operations	
7,200.0	7,124.1	7,226.2	7,124.1	25.9	22.8	121.09	724.5	395.0	95.4	61.6	33.76	2.826 Normal Operations	
7,300.0	7,222.5	7,324.7	7,222.5	26.4	22.9	129.22	724.5	395.0	105.7	68.7	36.97	2.858 Normal Operations	
7,400.0	7,320.9	7,423.1	7,320.9	26.8	22.9	135.82	724.5	395.0	117.7	77.9	39.75	2.960 Normal Operations	
7,500.0	7,419.4	7,521.6	7,419.4	27.2	23.0	141.16	724.5	395.0	131.0	88.9	42.06	3.114	
7,573.0	7,491.3	7,593.4	7,491.3	27.6	23.0	144.42	724.5	395.0	141.3	97.8	43.48	3.249	
7,600.0	7,517.8	7,620.0	7,517.8	27.7	23.0	145.51	724.5	395.0	145.1	101.2	43.95	3.302	
7,700.0	7,616.5	7,718.7	7,616.5	28.1	23.1	148.90	724.5	395.0	158.9	113.4	45.47	3.494	
7,800.0	7,715.4	7,817.6	7,715.4	28.5	23.1	151.47	724.5	395.0	171.5	124.9	46.69	3.674	
7,900.0	7,814.6	7,916.8	7,814.6	29.0	23.2	153.43	724.5	395.0	182.9	135.2	47.71	3.835	
8,000.0	7,914.0	8,016.2	7,914.0	29.4	23.2	154.95	724.5	395.0	192.9	144.4	48.57	3.972	
8,100.0	8,013.5	8,115.7	8,013.5	29.8	23.3	156.11	724.5	395.0	201.5	152.1	49.33	4.084	
8,200.0	8,113.2	8,215.4	8,113.2	30.1	23.3	156.99	724.5	395.0	208.5	158.5	49.98	4.171	
8,300.0	8,213.1	8,315.3	8,213.1	30.5	23.4	157.62	724.5	395.0	213.9	163.3	50.56	4.231	
8,400.0	8,313.0	8,415.2	8,313.0	30.8	23.4	158.05	724.5	395.0	217.7	166.7	51.05	4.265	
8,500.0	8,412.9	8,515.1	8,412.9	31.1	23.5	158.29	724.5	395.0	219.9	168.5	51.46	4.274	
8,587.1	8,500.0	8,602.2	8,500.0	31.2	23.5	-178.70	724.5	395.0	220.6	168.9	51.65	4.270	
8,600.0	8,512.9	8,615.1	8,512.9	31.2	23.5	-178.70	724.5	395.0	220.6	168.9	51.66	4.269	
8,700.0	8,612.9	8,715.1	8,612.9	31.3	23.6	-178.70	724.5	395.0	220.6	168.8	51.77	4.260	
8,800.0	8,712.9	8,815.1	8,712.9	31.3	23.7	-178.70	724.5	395.0	220.6	168.7	51.87	4.252	
8,900.0	8,812.9	8,915.1	8,812.9	31.3	23.7	-178.70	724.5	395.0	220.6	168.6	51.96	4.244	
9,000.0	8,912.9	9,015.1	8,912.9	31.4	23.8	-178.70	724.5	395.0	220.6	168.5	52.06	4.237	
9,100.0	9,012.9	9,115.1	9,012.9	31.4	23.8	-178.70	724.5	395.0	220.6	168.4	52.16	4.229	
9,200.0	9,112.9	9,215.1	9,112.9	31.5	23.9	-178.70	724.5	395.0	220.6	168.3	52.26	4.221	
9,300.0	9,212.9	9,315.1	9,212.9	31.5	23.9	-178.70	724.5	395.0	220.6	168.2	52.35	4.213	
9,400.0	9,312.9	9,415.1	9,312.9	31.5	24.0	-178.70	724.5	395.0	220.6	168.1	52.45	4.205	
9,500.0	9,412.9	9,515.1	9,412.9	31.6	24.0	-178.70	724.5	395.0	220.6	168.0	52.55	4.197	
9,600.0	9,512.9	9,615.1	9,512.9	31.6	24.1	-178.70	724.5	395.0	220.6	167.9	52.65	4.189	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,700.0	9,612.9	9,715.1	9,612.9	31.7	24.1	-178.70	724.5	395.0	220.6	167.8	52.75	4.181		
9,800.0	9,712.9	9,815.1	9,712.9	31.7	24.2	-178.70	724.5	395.0	220.6	167.7	52.85	4.173		
9,900.0	9,812.9	9,915.1	9,812.9	31.8	24.2	-178.70	724.5	395.0	220.6	167.6	52.95	4.165		
10,000.0	9,912.9	10,015.1	9,912.9	31.8	24.3	-178.70	724.5	395.0	220.6	167.5	53.05	4.157		
10,100.0	10,012.9	10,115.1	10,012.9	31.8	24.4	-178.70	724.5	395.0	220.6	167.4	53.15	4.149		
10,200.0	10,112.9	10,215.1	10,112.9	31.9	24.4	-178.70	724.5	395.0	220.6	167.3	53.25	4.142		
10,300.0	10,212.9	10,315.1	10,212.9	31.9	24.5	-178.70	724.5	395.0	220.6	167.2	53.36	4.134		
10,400.0	10,312.9	10,415.1	10,312.9	32.0	24.5	-178.70	724.5	395.0	220.6	167.1	53.46	4.126		
10,500.0	10,412.9	10,515.1	10,412.9	32.0	24.6	-178.70	724.5	395.0	220.6	167.0	53.56	4.118		
10,600.0	10,512.9	10,615.1	10,512.9	32.1	24.6	-178.70	724.5	395.0	220.6	166.9	53.66	4.110		
10,700.0	10,612.9	10,715.1	10,612.9	32.1	24.7	-178.70	724.5	395.0	220.6	166.8	53.76	4.102		
10,800.0	10,712.9	10,815.1	10,712.9	32.1	24.7	-178.70	724.5	395.0	220.6	166.7	53.87	4.094		
10,900.0	10,812.9	10,915.1	10,812.9	32.2	24.8	-178.70	724.5	395.0	220.6	166.6	53.97	4.087		
11,000.0	10,912.9	11,015.1	10,912.9	32.2	24.9	-178.70	724.5	395.0	220.6	166.5	54.07	4.079		
11,100.0	11,012.9	11,115.1	11,012.9	32.3	24.9	-178.70	724.5	395.0	220.6	166.4	54.18	4.071		
11,200.0	11,112.9	11,215.1	11,112.9	32.3	25.0	-178.70	724.5	395.0	220.6	166.3	54.28	4.063		
11,300.0	11,212.9	11,315.1	11,212.9	32.4	25.0	-178.70	724.5	395.0	220.6	166.2	54.39	4.055		
11,309.8	11,222.7	11,324.9	11,222.7	32.4	25.0	-178.70	724.5	395.0	220.6	166.2	54.40	4.055		
11,400.0	11,312.9	11,409.7	11,307.5	32.4	25.1	-178.70	724.4	395.0	220.8	166.4	54.32	4.064		
11,500.0	11,412.9	11,475.0	11,372.5	32.5	24.9	-178.61	718.3	394.5	230.3	177.1	53.22	4.327		
11,600.0	11,512.9	11,542.1	11,437.7	32.5	24.7	-178.42	703.0	393.3	253.5	201.3	52.18	4.858		
11,700.0	11,612.9	11,600.0	11,491.8	32.5	24.5	-178.19	682.5	391.7	289.2	238.1	51.12	5.657		
11,800.0	11,712.9	11,655.3	11,540.8	32.6	24.3	-177.95	657.0	389.7	335.6	285.3	50.34	6.667		
11,900.0	11,812.9	11,700.0	11,578.1	32.6	24.1	-177.76	632.4	387.8	391.2	341.4	49.74	7.864		
12,000.0	11,912.9	11,743.8	11,612.1	32.7	24.0	-177.57	605.0	385.6	454.2	404.7	49.46	9.183		
12,059.6	11,972.5	11,765.7	11,628.2	32.7	23.9	-177.49	590.2	384.4	494.6	445.3	49.37	10.019		
12,075.0	11,987.9	11,775.0	11,634.8	32.7	23.9	-2.38	583.7	383.9	505.3	455.9	49.36	10.237		
12,100.0	12,012.9	11,775.0	11,634.8	32.6	23.9	-2.27	583.7	383.9	522.0	472.8	49.26	10.598		
12,125.0	12,037.7	11,789.2	11,644.7	32.5	23.8	-2.13	573.5	383.1	538.1	488.8	49.21	10.933		
12,150.0	12,062.4	11,800.0	11,652.0	32.4	23.8	-2.03	565.5	382.5	553.5	504.3	49.16	11.260		
12,175.0	12,086.8	11,807.6	11,657.0	32.3	23.8	-1.94	559.8	382.0	568.3	519.2	49.10	11.574		
12,200.0	12,110.9	11,817.0	11,663.1	32.2	23.8	-1.86	552.7	381.5	582.4	533.3	49.05	11.873		
12,225.0	12,134.6	11,825.0	11,668.1	32.1	23.7	-1.79	546.5	381.0	595.8	546.8	49.01	12.156		
12,250.0	12,157.9	11,836.0	11,674.9	32.0	23.7	-1.72	537.9	380.3	608.5	559.6	48.99	12.423		
12,275.0	12,180.7	11,850.0	11,683.3	31.9	23.7	-1.66	526.7	379.4	620.6	571.7	48.96	12.677		
12,300.0	12,202.9	11,850.0	11,683.3	31.8	23.7	-1.62	526.7	379.4	632.0	583.0	48.98	12.901		
12,325.0	12,224.5	11,864.9	11,691.8	31.7	23.6	-1.57	514.5	378.5	642.5	593.5	48.97	13.120		
12,350.0	12,245.4	11,875.0	11,697.3	31.6	23.6	-1.53	506.1	377.8	652.4	603.4	48.99	13.316		
12,375.0	12,265.5	11,884.4	11,702.3	31.5	23.6	-1.50	498.1	377.2	661.5	612.5	49.03	13.492		
12,400.0	12,284.8	11,900.0	11,710.3	31.4	23.6	-1.47	484.8	376.1	670.0	620.9	49.04	13.661		
12,425.0	12,303.3	11,900.0	11,710.3	31.3	23.6	-1.45	484.8	376.1	677.6	628.4	49.17	13.779		
12,450.0	12,320.9	11,914.0	11,717.1	31.2	23.5	-1.43	472.5	375.2	684.4	635.2	49.22	13.904		
12,475.0	12,337.5	11,925.0	11,722.1	31.1	23.5	-1.41	462.8	374.4	690.5	641.2	49.31	14.004		
12,500.0	12,353.1	11,933.9	11,726.1	31.0	23.5	-1.39	454.8	373.8	695.9	646.5	49.43	14.079		
12,525.0	12,367.6	11,950.0	11,732.8	30.9	23.5	-1.39	440.3	372.6	700.6	651.1	49.49	14.154		
12,550.0	12,381.1	11,950.0	11,732.8	30.9	23.5	-1.37	440.3	372.6	704.3	654.6	49.74	14.160		
12,575.0	12,393.5	11,963.9	11,738.2	30.8	23.4	-1.37	427.5	371.6	707.3	657.5	49.85	14.188		
12,600.0	12,404.7	11,975.0	11,742.3	30.7	23.4	-1.37	417.2	370.8	709.6	659.6	50.02	14.187		
12,625.0	12,414.7	11,984.0	11,745.4	30.7	23.4	-1.37	408.8	370.2	711.1	660.8	50.22	14.160		
12,650.0	12,423.6	12,000.0	11,750.5	30.6	23.4	-1.38	393.7	369.0	711.8	661.5	50.34	14.140		
12,675.0	12,431.1	12,000.0	11,750.5	30.6	23.4	-1.38	393.7	369.0	711.7	661.0	50.69	14.040		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,700.0	12,437.4	12,014.1	11,754.6	30.6	23.4	-1.39	380.3	367.9	710.8	659.9	50.87	13.973	
12,725.0	12,442.5	12,025.0	11,757.5	30.5	23.4	-1.41	369.8	367.1	709.1	658.0	51.10	13.877	
12,750.0	12,446.3	12,034.1	11,759.8	30.5	23.4	-1.42	360.9	366.4	706.7	655.3	51.37	13.757	
12,775.0	12,448.7	12,050.0	11,763.2	30.5	23.4	-1.45	345.5	365.2	703.5	652.0	51.55	13.648	
12,800.0	12,449.9	12,050.0	11,763.2	30.5	23.4	-1.46	345.5	365.2	699.5	647.5	51.98	13.456	
12,809.6	12,450.0	12,058.0	11,764.8	30.5	23.4	-1.47	337.7	364.6	697.7	645.7	52.03	13.411	
12,900.0	12,450.0	12,100.0	11,770.9	30.5	23.3	-1.18	296.3	361.3	684.2	631.2	53.06	12.895	
13,000.0	12,450.0	12,135.6	11,773.1	30.5	23.3	-0.91	260.8	358.5	677.2	622.6	54.57	12.410	
13,045.7	12,450.0	12,163.6	11,773.3	30.5	23.4	-0.75	232.9	356.4	676.8	621.7	55.09	12.286	
13,077.4	12,450.0	12,195.2	11,773.3	30.6	23.4	-0.57	201.4	354.2	676.7	621.5	55.23	12.254	
13,100.0	12,450.0	12,217.7	11,773.3	30.6	23.4	-0.44	178.9	352.9	676.7	621.4	55.33	12.230	
13,200.0	12,450.0	12,317.5	11,773.3	30.6	23.4	-0.08	79.2	349.2	676.7	620.9	55.83	12.120	
13,251.8	12,450.0	12,369.3	11,773.3	30.6	23.5	-0.01	27.5	348.7	676.7	620.6	56.12	12.059	
13,300.0	12,450.0	12,417.5	11,773.3	30.6	23.5	0.00	-20.8	348.9	676.7	620.3	56.39	12.000	
13,400.0	12,450.0	12,517.5	11,773.3	30.7	23.6	0.00	-120.8	349.6	676.7	619.7	57.00	11.872	
13,500.0	12,450.0	12,617.5	11,773.3	30.8	23.8	0.00	-220.8	350.2	676.7	619.1	57.64	11.740	
13,600.0	12,450.0	12,717.5	11,773.3	30.8	23.9	0.00	-320.8	350.8	676.7	618.4	58.32	11.603	
13,700.0	12,450.0	12,817.5	11,773.3	30.9	24.1	0.00	-420.8	351.4	676.7	617.7	59.03	11.464	
13,800.0	12,450.0	12,917.5	11,773.3	31.0	24.3	0.00	-520.8	352.1	676.7	616.9	59.77	11.321	
13,900.0	12,450.0	13,017.5	11,773.3	31.1	24.5	0.00	-620.8	352.7	676.7	616.2	60.55	11.177	
14,000.0	12,450.0	13,117.5	11,773.3	31.2	24.8	0.00	-720.8	353.3	676.7	615.4	61.35	11.030	
14,100.0	12,450.0	13,217.5	11,773.3	31.4	25.1	0.00	-820.8	353.9	676.7	614.5	62.18	10.883	
14,200.0	12,450.0	13,317.5	11,773.3	31.6	25.5	0.00	-920.7	354.5	676.7	613.7	63.04	10.735	
14,300.0	12,450.0	13,417.5	11,773.3	31.7	25.8	0.00	-1,020.7	355.2	676.7	612.8	63.92	10.586	
14,400.0	12,450.0	13,517.5	11,773.3	31.9	26.3	0.00	-1,120.7	355.8	676.7	611.9	64.83	10.438	
14,500.0	12,450.0	13,617.5	11,773.3	32.2	26.7	0.00	-1,220.7	356.4	676.7	610.9	65.77	10.290	
14,600.0	12,450.0	13,717.5	11,773.3	32.4	27.2	0.00	-1,320.7	357.0	676.7	610.0	66.72	10.142	
14,700.0	12,450.0	13,817.5	11,773.3	32.7	27.8	0.00	-1,420.7	357.7	676.7	609.0	67.70	9.995	
14,800.0	12,450.0	13,917.5	11,773.3	33.1	28.3	0.00	-1,520.7	358.3	676.7	608.0	68.70	9.850	
14,900.0	12,450.0	14,017.5	11,773.3	33.4	28.9	0.00	-1,620.7	358.9	676.7	607.0	69.72	9.706	
15,000.0	12,450.0	14,117.5	11,773.3	33.9	29.6	0.00	-1,720.7	359.5	676.7	605.9	70.76	9.563	
15,100.0	12,450.0	14,217.5	11,773.3	34.3	30.2	0.00	-1,820.7	360.2	676.7	604.9	71.82	9.423	
15,200.0	12,450.0	14,317.5	11,773.3	34.8	30.9	0.00	-1,920.7	360.8	676.7	603.8	72.89	9.284	
15,300.0	12,450.0	14,417.5	11,773.3	35.3	31.6	0.00	-2,020.7	361.4	676.7	602.7	73.99	9.146	
15,400.0	12,450.0	14,517.5	11,773.3	35.9	32.3	0.00	-2,120.7	362.0	676.7	601.6	75.09	9.011	
15,500.0	12,450.0	14,617.5	11,773.3	36.4	33.0	0.00	-2,220.7	362.7	676.7	600.5	76.22	8.879	
15,600.0	12,450.0	14,717.5	11,773.3	37.1	33.7	0.00	-2,320.7	363.3	676.7	599.3	77.36	8.748	
15,700.0	12,450.0	14,817.5	11,773.3	37.7	34.5	0.00	-2,420.7	363.9	676.7	598.2	78.51	8.619	
15,800.0	12,450.0	14,917.5	11,773.3	38.4	35.2	0.00	-2,520.7	364.5	676.7	597.0	79.67	8.493	
15,900.0	12,450.0	15,017.5	11,773.3	39.1	36.0	0.00	-2,620.7	365.2	676.7	595.8	80.85	8.369	
16,000.0	12,450.0	15,117.5	11,773.3	39.8	36.8	0.00	-2,720.7	365.8	676.7	594.7	82.05	8.248	
16,100.0	12,450.0	15,217.5	11,773.3	40.5	37.6	0.00	-2,820.7	366.4	676.7	593.5	83.25	8.129	
16,200.0	12,450.0	15,317.5	11,773.3	41.3	38.4	0.00	-2,920.7	367.0	676.7	592.2	84.46	8.012	
16,300.0	12,450.0	15,417.5	11,773.3	42.0	39.2	0.00	-3,020.7	367.7	676.7	591.0	85.69	7.897	
16,400.0	12,450.0	15,517.5	11,773.3	42.8	40.0	0.00	-3,120.7	368.3	676.7	589.8	86.92	7.785	
16,500.0	12,450.0	15,617.5	11,773.3	43.6	40.9	0.00	-3,220.7	368.9	676.7	588.5	88.17	7.675	
16,600.0	12,450.0	15,717.5	11,773.3	44.4	41.7	0.00	-3,320.7	369.5	676.7	587.3	89.43	7.567	
16,700.0	12,450.0	15,817.5	11,773.3	45.2	42.6	0.00	-3,420.7	370.2	676.7	586.0	90.69	7.462	
16,800.0	12,450.0	15,917.5	11,773.3	46.0	43.4	0.00	-3,520.7	370.8	676.7	584.7	91.96	7.358	
16,900.0	12,450.0	16,017.5	11,773.3	46.8	44.3	0.00	-3,620.7	371.4	676.7	583.5	93.24	7.257	
17,000.0	12,450.0	16,117.5	11,773.3	47.7	45.1	0.00	-3,720.7	372.0	676.7	582.2	94.53	7.158	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,100.0	12,450.0	16,217.5	11,773.3	48.5	46.0	0.00	-3,820.7	372.6	676.7	580.9	95.83	7.061	
17,200.0	12,450.0	16,317.5	11,773.3	49.3	46.8	0.00	-3,920.7	373.3	676.7	579.6	97.13	6.967	
17,300.0	12,450.0	16,417.5	11,773.3	50.2	47.7	0.00	-4,020.7	373.9	676.7	578.3	98.45	6.874	
17,400.0	12,450.0	16,517.5	11,773.3	51.0	48.6	0.00	-4,120.7	374.5	676.7	576.9	99.76	6.783	
17,500.0	12,450.0	16,617.5	11,773.3	51.9	49.5	0.00	-4,220.7	375.1	676.7	575.6	101.09	6.694	
17,600.0	12,450.0	16,717.5	11,773.3	52.8	50.3	0.00	-4,320.7	375.8	676.7	574.3	102.42	6.607	
17,700.0	12,450.0	16,817.5	11,773.3	53.6	51.2	0.00	-4,420.7	376.4	676.7	572.9	103.76	6.522	
17,800.0	12,450.0	16,917.5	11,773.3	54.5	52.1	0.00	-4,520.7	377.0	676.7	571.6	105.10	6.439	
17,900.0	12,450.0	17,017.5	11,773.3	55.4	53.0	0.00	-4,620.7	377.6	676.7	570.2	106.45	6.357	
18,000.0	12,450.0	17,117.5	11,773.3	56.3	53.9	0.00	-4,720.7	378.3	676.7	568.9	107.80	6.277	
18,100.0	12,450.0	17,217.5	11,773.3	57.2	54.8	0.00	-4,820.7	378.9	676.7	567.5	109.16	6.199	
18,200.0	12,450.0	17,317.5	11,773.3	58.0	55.7	0.00	-4,920.7	379.5	676.7	566.2	110.53	6.122	
18,300.0	12,450.0	17,417.5	11,773.3	58.9	56.6	0.00	-5,020.7	380.1	676.7	564.8	111.90	6.048	
18,400.0	12,450.0	17,517.5	11,773.3	59.8	57.5	0.00	-5,120.7	380.8	676.7	563.4	113.27	5.974	
18,500.0	12,450.0	17,617.5	11,773.3	60.7	58.4	0.00	-5,220.7	381.4	676.7	562.1	114.65	5.902	
18,600.0	12,450.0	17,717.5	11,773.3	61.6	59.3	0.00	-5,320.7	382.0	676.7	560.7	116.03	5.832	
18,700.0	12,450.0	17,817.5	11,773.3	62.5	60.2	0.00	-5,420.7	382.6	676.7	559.3	117.42	5.763	
18,800.0	12,450.0	17,917.5	11,773.3	63.4	61.1	0.00	-5,520.7	383.3	676.7	557.9	118.81	5.696	
18,900.0	12,450.0	18,017.5	11,773.3	64.3	62.0	0.00	-5,620.7	383.9	676.7	556.5	120.20	5.630	
19,000.0	12,450.0	18,117.5	11,773.3	65.2	62.9	0.00	-5,720.7	384.5	676.7	555.1	121.60	5.565	
19,100.0	12,450.0	18,217.5	11,773.3	66.1	63.9	0.00	-5,820.7	385.1	676.7	553.7	123.00	5.501	
19,200.0	12,450.0	18,317.5	11,773.3	67.0	64.8	0.00	-5,920.7	385.8	676.7	552.3	124.41	5.439	
19,300.0	12,450.0	18,417.5	11,773.3	68.0	65.7	0.00	-6,020.7	386.4	676.7	550.9	125.82	5.378	
19,400.0	12,450.0	18,517.5	11,773.3	68.9	66.6	0.00	-6,120.6	387.0	676.7	549.5	127.23	5.319	
19,500.0	12,450.0	18,617.5	11,773.3	69.8	67.5	0.00	-6,220.6	387.6	676.7	548.1	128.64	5.260	
19,600.0	12,450.0	18,717.5	11,773.3	70.7	68.4	0.00	-6,320.6	388.3	676.7	546.6	130.06	5.203	
19,700.0	12,450.0	18,817.5	11,773.3	71.6	69.4	0.00	-6,420.6	388.9	676.7	545.2	131.48	5.147	
19,800.0	12,450.0	18,917.5	11,773.3	72.5	70.3	0.00	-6,520.6	389.5	676.7	543.8	132.91	5.091	
19,900.0	12,450.0	19,017.5	11,773.3	73.5	71.2	0.00	-6,620.6	390.1	676.7	542.4	134.33	5.037	
20,000.0	12,450.0	19,117.5	11,773.3	74.4	72.1	0.00	-6,720.6	390.7	676.7	540.9	135.76	4.984	
20,100.0	12,450.0	19,217.5	11,773.3	75.3	73.1	0.00	-6,820.6	391.4	676.7	539.5	137.20	4.932	
20,200.0	12,450.0	19,317.5	11,773.3	76.2	74.0	0.00	-6,920.6	392.0	676.7	538.1	138.63	4.881	
20,300.0	12,450.0	19,417.5	11,773.3	77.1	74.9	0.00	-7,020.6	392.6	676.7	536.6	140.07	4.831	
20,368.8	12,450.0	19,486.3	11,773.3	77.8	75.6	0.00	-7,089.5	393.1	676.7	535.6	141.06	4.797	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	1.2	3.0	3.0	-90.35	-0.4	-60.0	60.0				
100.0	100.0	98.8	100.0	3.1	3.1	-90.35	-0.4	-60.0	60.0	53.4	6.62	9.066	
200.0	200.0	198.8	200.0	3.3	3.3	-90.35	-0.4	-60.0	60.0	52.9	7.07	8.489	
300.0	300.0	298.8	300.0	3.6	3.6	-90.35	-0.4	-60.0	60.0	52.5	7.49	8.007	
400.0	400.0	398.8	400.0	3.8	3.8	-90.35	-0.4	-60.0	60.0	52.1	7.90	7.596	
500.0	500.0	498.8	500.0	4.0	4.0	-90.35	-0.4	-60.0	60.0	51.7	8.29	7.241	
600.0	600.0	598.8	600.0	4.1	4.1	-90.35	-0.4	-60.0	60.0	51.3	8.66	6.930	
700.0	700.0	698.8	700.0	4.3	4.3	-90.35	-0.4	-60.0	60.0	51.0	9.02	6.655	
800.0	800.0	798.8	800.0	4.5	4.5	-90.35	-0.4	-60.0	60.0	50.6	9.36	6.408	
900.0	900.0	898.8	900.0	4.7	4.7	-90.35	-0.4	-60.0	60.0	50.3	9.70	6.185	
1,000.0	1,000.0	998.8	1,000.0	4.8	4.8	-90.35	-0.4	-60.0	60.0	50.0	10.03	5.983	
1,100.0	1,100.0	1,098.8	1,100.0	5.0	5.0	-90.35	-0.4	-60.0	60.0	49.7	10.35	5.798	
1,200.0	1,200.0	1,198.8	1,200.0	5.2	5.2	-90.35	-0.4	-60.0	60.0	49.3	10.66	5.629	
1,300.0	1,300.0	1,298.8	1,300.0	5.3	5.3	-90.35	-0.4	-60.0	60.0	49.0	10.97	5.472	
1,400.0	1,400.0	1,398.8	1,400.0	5.5	5.5	-90.35	-0.4	-60.0	60.0	48.7	11.26	5.327	
1,500.0	1,500.0	1,498.8	1,500.0	5.6	5.6	-90.35	-0.4	-60.0	60.0	48.4	11.56	5.191	
1,600.0	1,600.0	1,598.8	1,600.0	5.8	5.8	-90.35	-0.4	-60.0	60.0	48.2	11.85	5.065	
1,700.0	1,700.0	1,698.8	1,700.0	5.9	5.9	-90.35	-0.4	-60.0	60.0	47.9	12.13	4.947	
1,800.0	1,800.0	1,798.8	1,800.0	6.0	6.0	-90.35	-0.4	-60.0	60.0	47.6	12.41	4.836	
1,900.0	1,900.0	1,898.8	1,900.0	6.2	6.2	-90.35	-0.4	-60.0	60.0	47.3	12.68	4.731	
2,000.0	2,000.0	1,998.8	2,000.0	6.3	6.3	-90.35	-0.4	-60.0	60.0	47.0	12.95	4.633	
2,100.0	2,100.0	2,099.6	2,100.8	6.5	6.4	-114.83	-0.4	-59.7	60.4	47.2	13.16	4.589	
2,200.0	2,199.8	2,201.0	2,202.2	6.8	6.5	-119.51	-0.4	-57.0	60.2	46.7	13.46	4.469	
2,300.0	2,299.5	2,302.3	2,303.3	7.0	6.7	-127.48	-0.4	-51.7	59.8	46.0	13.80	4.333	
2,304.4	2,303.9	2,306.8	2,307.8	7.0	6.7	-127.91	-0.4	-51.4	59.8	46.0	13.81	4.328 CC, ES	
2,400.0	2,398.7	2,403.1	2,403.8	7.2	6.9	-138.57	-0.3	-43.7	60.7	46.5	14.15	4.287	
2,500.0	2,497.5	2,504.2	2,504.3	7.5	7.1	-150.08	1.9	-33.8	63.9	49.2	14.65	4.360	
2,507.0	2,504.4	2,511.3	2,511.4	7.6	7.1	-150.85	2.2	-33.0	64.2	49.5	14.68	4.371	
2,600.0	2,595.9	2,605.6	2,605.0	7.8	7.3	-159.97	7.3	-22.1	67.8	52.7	15.09	4.493	
2,700.0	2,694.3	2,707.5	2,705.7	8.0	7.6	-168.21	15.9	-8.8	70.0	54.4	15.55	4.499	
2,800.0	2,792.8	2,809.6	2,805.9	8.3	7.9	-175.82	27.7	6.2	69.9	53.9	16.01	4.364	
2,900.0	2,891.2	2,911.1	2,905.0	8.5	8.1	176.36	42.5	22.6	67.5	51.1	16.44	4.107	
3,000.0	2,989.7	3,010.6	3,001.8	8.8	8.5	168.03	58.1	39.3	65.4	48.5	16.90	3.867	
3,095.0	3,083.2	3,105.2	3,093.9	9.1	8.7	159.78	72.8	55.1	64.7	47.5	17.22	3.756	
3,100.0	3,088.1	3,110.1	3,098.7	9.1	8.8	159.34	73.6	55.9	64.7	47.4	17.23	3.753	
3,200.0	3,186.5	3,209.6	3,195.6	9.5	9.1	150.67	89.1	72.6	65.5	48.0	17.47	3.749 SF	
3,300.0	3,285.0	3,309.1	3,292.4	9.8	9.4	142.40	104.7	89.2	67.8	50.2	17.64	3.844	
3,400.0	3,383.4	3,408.6	3,389.3	10.1	9.7	134.80	120.2	105.8	71.4	53.7	17.76	4.021	
3,500.0	3,481.8	3,508.1	3,486.2	10.5	10.1	128.04	135.7	122.5	76.2	58.3	17.88	4.259	
3,600.0	3,580.3	3,607.7	3,583.0	10.8	10.4	122.14	151.3	139.1	81.8	63.8	18.02	4.540	
3,700.0	3,678.7	3,707.2	3,679.9	11.2	10.8	117.04	166.8	155.8	88.3	70.1	18.20	4.849	
3,800.0	3,777.2	3,806.7	3,776.8	11.6	11.2	112.67	182.3	172.4	95.3	76.9	18.42	5.172	
3,900.0	3,875.6	3,906.2	3,873.6	12.0	11.6	108.91	197.9	189.0	102.8	84.1	18.69	5.501	
4,000.0	3,974.0	4,005.7	3,970.5	12.3	12.0	105.67	213.4	205.7	110.7	91.7	18.99	5.829	
4,100.0	4,072.5	4,105.2	4,067.4	12.7	12.3	102.87	228.9	222.3	118.9	99.6	19.32	6.152	
4,200.0	4,170.9	4,204.7	4,164.2	13.1	12.8	100.43	244.5	239.0	127.3	107.6	19.69	6.467	
4,300.0	4,269.3	4,304.2	4,261.1	13.5	13.2	98.30	260.0	255.6	136.0	115.9	20.08	6.773	
4,400.0	4,367.8	4,403.7	4,358.0	13.9	13.6	96.43	275.6	272.3	144.8	124.3	20.49	7.067	
4,500.0	4,466.2	4,503.2	4,454.8	14.3	14.0	94.77	291.1	288.9	153.7	132.8	20.91	7.350	
4,600.0	4,564.7	4,602.7	4,551.7	14.7	14.4	93.29	306.6	305.5	162.8	141.4	21.36	7.622	
4,700.0	4,663.1	4,702.2	4,648.6	15.1	14.8	91.97	322.2	322.2	171.9	150.1	21.82	7.882	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:									Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,800.0	4,761.5	4,801.7	4,745.4	15.5	15.3	90.79	337.7	338.8	181.2	158.9	22.28	8.130		
4,900.0	4,860.0	4,901.2	4,842.3	16.0	15.7	89.72	353.2	355.5	190.5	167.7	22.76	8.368		
5,000.0	4,958.4	5,000.7	4,939.2	16.4	16.1	88.75	368.8	372.1	199.8	176.6	23.25	8.595		
5,100.0	5,056.9	5,100.2	5,036.0	16.8	16.6	87.87	384.3	388.7	209.3	185.5	23.75	8.812		
5,200.0	5,155.3	5,199.8	5,132.9	17.2	17.0	87.06	399.8	405.4	218.7	194.5	24.25	9.019		
5,300.0	5,253.7	5,299.3	5,229.8	17.6	17.5	86.32	415.4	422.0	228.2	203.5	24.76	9.217		
5,400.0	5,352.2	5,398.8	5,326.6	18.1	17.9	85.64	430.9	438.7	237.8	212.5	25.28	9.406		
5,500.0	5,450.6	5,498.3	5,423.5	18.5	18.4	85.01	446.4	455.3	247.3	221.5	25.80	9.587		
5,600.0	5,549.0	5,597.8	5,520.4	18.9	18.8	84.43	462.0	471.9	256.9	230.6	26.33	9.760		
5,700.0	5,647.5	5,697.3	5,617.2	19.4	19.3	83.89	477.5	488.6	266.5	239.7	26.86	9.925		
5,800.0	5,745.9	5,796.8	5,714.1	19.8	19.7	83.39	493.1	505.2	276.2	248.8	27.39	10.083		
5,900.0	5,844.4	5,896.3	5,811.0	20.2	20.2	82.92	508.6	521.9	285.8	257.9	27.93	10.235		
6,000.0	5,942.8	5,995.8	5,907.8	20.6	20.6	82.48	524.1	538.5	295.5	267.0	28.47	10.380		
6,100.0	6,041.2	6,095.3	6,004.7	21.1	21.1	82.07	539.7	555.1	305.2	276.2	29.02	10.519		
6,200.0	6,139.7	6,194.8	6,101.6	21.5	21.5	81.69	555.2	571.8	314.9	285.4	29.56	10.652		
6,300.0	6,238.1	6,294.3	6,198.4	22.0	22.0	81.33	570.7	588.4	324.6	294.5	30.12	10.780		
6,400.0	6,336.5	6,393.8	6,295.3	22.4	22.5	80.99	586.3	605.1	334.4	303.7	30.67	10.903		
6,500.0	6,435.0	6,493.3	6,392.2	22.8	22.9	80.66	601.8	621.7	344.1	312.9	31.22	11.021		
6,600.0	6,533.4	6,592.8	6,489.0	23.3	23.4	80.36	617.3	638.3	353.9	322.1	31.78	11.134		
6,700.0	6,631.9	6,692.3	6,585.9	23.7	23.8	80.07	632.9	655.0	363.6	331.3	32.34	11.243		
6,800.0	6,730.3	6,791.9	6,682.8	24.1	24.3	79.80	648.4	671.6	373.4	340.5	32.91	11.348		
6,900.0	6,828.7	6,894.9	6,783.3	24.6	24.8	79.63	664.0	688.3	382.8	349.3	33.46	11.440		
7,000.0	6,927.2	6,998.5	6,884.7	25.0	25.3	79.70	678.4	703.7	391.1	357.2	33.94	11.525		
7,100.0	7,025.6	7,102.2	6,986.5	25.5	25.7	79.99	691.5	717.8	398.5	364.1	34.33	11.606		
7,200.0	7,124.1	7,205.9	7,088.8	25.9	26.2	80.48	703.4	730.6	404.8	370.2	34.65	11.684		
7,300.0	7,222.5	7,309.6	7,191.4	26.4	26.6	81.19	714.1	742.0	410.3	375.4	34.89	11.760		
7,400.0	7,320.9	7,413.3	7,294.1	26.8	27.1	82.09	723.4	752.0	414.8	379.8	35.04	11.838		
7,500.0	7,419.4	7,516.8	7,396.9	27.2	27.5	83.19	731.5	760.6	418.5	383.4	35.11	11.919		
7,573.0	7,491.3	7,592.3	7,472.0	27.6	27.8	84.12	736.6	766.1	420.7	385.6	35.11	11.983		
7,600.0	7,517.8	7,620.1	7,499.8	27.7	27.9	84.49	738.3	767.9	421.5	386.4	35.10	12.009		
7,700.0	7,616.5	7,723.3	7,602.6	28.1	28.3	85.83	743.9	773.9	423.9	388.8	35.07	12.086		
7,800.0	7,715.4	7,826.4	7,705.5	28.5	28.6	87.13	748.1	778.4	425.8	390.8	35.04	12.152		
7,900.0	7,814.6	7,929.3	7,808.4	29.0	29.0	88.39	751.1	781.6	427.2	392.2	35.00	12.205		
8,000.0	7,914.0	8,032.2	7,911.2	29.4	29.2	89.62	752.8	783.5	428.1	393.1	34.95	12.247		
8,100.0	8,013.5	8,134.5	8,013.5	29.8	29.4	90.82	753.3	784.0	428.4	393.5	34.87	12.284		
8,200.0	8,113.2	8,234.2	8,113.2	30.1	29.5	91.84	753.3	784.0	428.6	393.7	34.82	12.310		
8,300.0	8,213.1	8,334.0	8,213.1	30.5	29.5	92.62	753.3	784.0	428.8	394.0	34.82	12.315		
8,400.0	8,313.0	8,434.0	8,313.0	30.8	29.5	93.17	753.3	784.0	429.0	394.1	34.87	12.304		
8,500.0	8,412.9	8,533.9	8,412.9	31.1	29.6	93.50	753.3	784.0	429.1	394.2	34.95	12.278		
8,587.1	8,500.0	8,621.0	8,500.0	31.2	29.6	116.53	753.3	784.0	429.2	394.1	35.05	12.246		
8,600.0	8,512.9	8,633.9	8,512.9	31.2	29.6	116.53	753.3	784.0	429.2	394.1	35.06	12.241		
8,700.0	8,612.9	8,733.9	8,612.9	31.3	29.7	116.53	753.3	784.0	429.2	394.0	35.21	12.191		
8,800.0	8,712.9	8,833.9	8,712.9	31.3	29.7	116.53	753.3	784.0	429.2	393.8	35.33	12.146		
8,900.0	8,812.9	8,933.9	8,812.9	31.3	29.7	116.53	753.3	784.0	429.2	393.7	35.46	12.102		
9,000.0	8,912.9	9,033.9	8,912.9	31.4	29.8	116.53	753.3	784.0	429.2	393.6	35.59	12.058		
9,100.0	9,012.9	9,133.9	9,012.9	31.4	29.8	116.53	753.3	784.0	429.2	393.5	35.72	12.014		
9,200.0	9,112.9	9,233.9	9,112.9	31.5	29.9	116.53	753.3	784.0	429.2	393.3	35.85	11.971		
9,300.0	9,212.9	9,333.9	9,212.9	31.5	29.9	116.53	753.3	784.0	429.2	393.2	35.98	11.928		
9,400.0	9,312.9	9,433.9	9,312.9	31.5	29.9	116.53	753.3	784.0	429.2	393.1	36.11	11.885		
9,500.0	9,412.9	9,533.9	9,412.9	31.6	30.0	116.53	753.3	784.0	429.2	392.9	36.24	11.842		
9,600.0	9,512.9	9,633.9	9,512.9	31.6	30.0	116.53	753.3	784.0	429.2	392.8	36.37	11.799		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,700.0	9,612.9	9,733.9	9,612.9	31.7	30.1	116.53	753.3	784.0	429.2	392.7	36.50	11.757	
9,800.0	9,712.9	9,833.9	9,712.9	31.7	30.1	116.53	753.3	784.0	429.2	392.5	36.64	11.715	
9,900.0	9,812.9	9,933.9	9,812.9	31.8	30.1	116.53	753.3	784.0	429.2	392.4	36.77	11.673	
10,000.0	9,912.9	10,033.9	9,912.9	31.8	30.2	116.53	753.3	784.0	429.2	392.3	36.90	11.631	
10,100.0	10,012.9	10,133.9	10,012.9	31.8	30.2	116.53	753.3	784.0	429.2	392.1	37.03	11.590	
10,200.0	10,112.9	10,233.9	10,112.9	31.9	30.3	116.53	753.3	784.0	429.2	392.0	37.16	11.549	
10,300.0	10,212.9	10,333.9	10,212.9	31.9	30.3	116.53	753.3	784.0	429.2	391.9	37.29	11.508	
10,400.0	10,312.9	10,433.9	10,312.9	32.0	30.3	116.53	753.3	784.0	429.2	391.8	37.43	11.467	
10,500.0	10,412.9	10,533.9	10,412.9	32.0	30.4	116.53	753.3	784.0	429.2	391.6	37.56	11.426	
10,600.0	10,512.9	10,633.9	10,512.9	32.1	30.4	116.53	753.3	784.0	429.2	391.5	37.69	11.386	
10,700.0	10,612.9	10,733.9	10,612.9	32.1	30.5	116.53	753.3	784.0	429.2	391.4	37.83	11.346	
10,800.0	10,712.9	10,833.9	10,712.9	32.1	30.5	116.53	753.3	784.0	429.2	391.2	37.96	11.306	
10,900.0	10,812.9	10,933.9	10,812.9	32.2	30.6	116.53	753.3	784.0	429.2	391.1	38.09	11.266	
11,000.0	10,912.9	11,033.9	10,912.9	32.2	30.6	116.53	753.3	784.0	429.2	391.0	38.23	11.227	
11,100.0	11,012.9	11,133.9	11,012.9	32.3	30.6	116.53	753.3	784.0	429.2	390.8	38.36	11.188	
11,200.0	11,112.9	11,233.9	11,112.9	32.3	30.7	116.53	753.3	784.0	429.2	390.7	38.50	11.149	
11,300.0	11,212.9	11,333.9	11,212.9	32.4	30.7	116.53	753.3	784.0	429.2	390.5	38.63	11.110	
11,400.0	11,312.9	11,433.9	11,312.9	32.4	30.8	116.53	753.3	784.0	429.2	390.4	38.77	11.071	
11,500.0	11,412.9	11,533.9	11,412.9	32.5	30.8	116.53	753.3	784.0	429.2	390.3	38.90	11.033	
11,566.6	11,479.5	11,600.5	11,479.5	32.5	30.8	116.53	753.3	784.0	429.2	390.2	38.99	11.007	
11,600.0	11,512.9	11,633.7	11,512.7	32.5	30.8	116.53	753.3	784.0	429.2	390.2	39.03	10.997	
11,700.0	11,612.9	11,704.4	11,583.2	32.5	30.7	117.15	748.1	784.0	432.6	393.4	39.22	11.029	
11,800.0	11,712.9	11,775.0	11,652.0	32.6	30.5	118.94	732.6	784.1	443.2	403.8	39.40	11.249	
11,900.0	11,812.9	11,834.4	11,707.6	32.6	30.3	121.26	711.7	784.3	461.7	421.9	39.82	11.595	
12,000.0	11,912.9	11,890.3	11,757.1	32.7	30.2	123.97	686.0	784.4	489.0	448.5	40.50	12.075	
12,059.6	11,972.5	11,925.0	11,786.3	32.7	30.1	125.85	667.2	784.5	509.6	468.7	40.95	12.445	
12,075.0	11,987.9	11,925.0	11,786.3	32.7	30.1	-58.52	667.2	784.5	515.4	474.1	41.24	12.496	
12,100.0	12,012.9	11,939.9	11,798.4	32.6	30.0	-56.76	658.4	784.6	524.6	483.1	41.43	12.661	
12,125.0	12,037.7	11,950.0	11,806.4	32.5	30.0	-55.32	652.3	784.6	533.7	492.0	41.73	12.790	
12,150.0	12,062.4	11,964.2	11,817.4	32.4	30.0	-53.79	643.4	784.7	542.6	500.7	41.95	12.935	
12,175.0	12,086.8	11,975.0	11,825.7	32.3	29.9	-52.48	636.4	784.7	551.4	509.1	42.25	13.049	
12,200.0	12,110.9	11,988.5	11,835.7	32.2	29.9	-51.17	627.5	784.8	559.9	517.3	42.51	13.170	
12,225.0	12,134.6	12,000.0	11,844.1	32.1	29.9	-50.01	619.6	784.8	568.1	525.3	42.82	13.268	
12,250.0	12,157.9	12,012.8	11,853.2	32.0	29.9	-48.90	610.6	784.9	576.0	532.9	43.10	13.363	
12,275.0	12,180.7	12,025.0	11,861.7	31.9	29.8	-47.89	601.8	784.9	583.6	540.2	43.42	13.443	
12,300.0	12,202.9	12,037.1	11,869.8	31.8	29.8	-46.97	592.8	785.0	590.9	547.1	43.74	13.510	
12,325.0	12,224.5	12,050.0	11,878.2	31.7	29.8	-46.11	583.1	785.1	597.8	553.7	44.05	13.570	
12,350.0	12,245.4	12,061.5	11,885.5	31.6	29.7	-45.35	574.2	785.1	604.3	559.8	44.41	13.607	
12,375.0	12,265.5	12,075.0	11,893.8	31.5	29.7	-44.63	563.5	785.2	610.4	565.6	44.73	13.646	
12,400.0	12,284.8	12,085.8	11,900.2	31.4	29.7	-44.03	554.8	785.2	616.0	570.9	45.12	13.652	
12,425.0	12,303.3	12,100.0	11,908.3	31.3	29.7	-43.46	543.2	785.3	621.3	575.8	45.45	13.671	
12,450.0	12,320.9	12,110.2	11,913.9	31.2	29.6	-42.99	534.7	785.4	626.1	580.2	45.88	13.645	
12,475.0	12,337.5	12,125.0	11,921.8	31.1	29.6	-42.56	522.1	785.4	630.4	584.2	46.21	13.643	
12,500.0	12,353.1	12,134.5	11,926.6	31.0	29.6	-42.21	513.9	785.5	634.3	587.6	46.69	13.587	
12,525.0	12,367.6	12,150.0	11,934.1	30.9	29.6	-41.92	500.3	785.6	637.8	590.7	47.02	13.564	
12,550.0	12,381.1	12,158.9	11,938.2	30.9	29.6	-41.69	492.5	785.6	640.7	593.2	47.54	13.478	
12,575.0	12,393.5	12,175.0	11,945.3	30.8	29.5	-41.53	478.0	785.7	643.2	595.3	47.87	13.437	
12,600.0	12,404.7	12,183.2	11,948.7	30.7	29.5	-41.41	470.5	785.8	645.1	596.7	48.42	13.322	
12,625.0	12,414.7	12,200.0	11,955.3	30.7	29.5	-41.38	455.1	785.9	646.7	597.9	48.75	13.265	
12,650.0	12,423.6	12,207.6	11,958.1	30.6	29.5	-41.36	448.0	785.9	647.6	598.3	49.35	13.124	
12,675.0	12,431.1	12,225.0	11,964.0	30.6	29.5	-41.47	431.7	786.0	648.2	598.5	49.66	13.052	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,700.0	12,437.4	12,231.9	11,966.2	30.6	29.5	-41.55	425.1	786.1	648.2	597.9	50.29	12.888	
12,725.0	12,442.5	12,250.0	11,971.6	30.5	29.5	-41.80	407.8	786.2	647.8	597.2	50.60	12.803	
12,750.0	12,446.3	12,250.0	11,971.6	30.5	29.5	-41.87	407.8	786.2	646.9	595.5	51.44	12.575	
12,775.0	12,448.7	12,268.4	11,976.3	30.5	29.5	-42.26	390.1	786.3	645.5	593.7	51.74	12.475	
12,800.0	12,449.9	12,275.0	11,977.8	30.5	29.5	-42.52	383.6	786.3	643.7	591.3	52.39	12.285	
12,809.6	12,450.0	12,285.2	11,980.0	30.5	29.5	-42.77	373.7	786.4	642.8	590.4	52.41	12.265	
12,900.0	12,450.0	12,325.0	11,986.6	30.5	29.5	-43.29	334.4	786.6	636.9	582.6	54.36	11.717	
12,972.6	12,450.0	12,366.7	11,989.9	30.5	29.5	-43.61	292.9	786.9	635.4	579.7	55.74	11.401	
13,000.0	12,450.0	12,380.6	11,990.2	30.5	29.5	-43.66	279.0	787.0	635.6	579.3	56.32	11.285	
13,077.4	12,450.0	12,455.0	11,990.2	30.6	29.6	-43.73	204.5	787.4	636.3	579.3	57.00	11.164	
13,100.0	12,450.0	12,477.6	11,990.2	30.6	29.6	-43.73	182.0	787.6	636.3	579.2	57.18	11.129	
13,200.0	12,450.0	12,577.6	11,990.2	30.6	29.7	-43.73	82.0	788.2	636.3	578.3	58.00	10.972	
13,300.0	12,450.0	12,677.6	11,990.2	30.6	29.8	-43.73	-18.0	788.8	636.3	577.5	58.85	10.812	
13,400.0	12,450.0	12,777.6	11,990.2	30.7	30.0	-43.73	-118.0	789.5	636.3	576.6	59.75	10.650	
13,500.0	12,450.0	12,877.6	11,990.2	30.8	30.1	-43.73	-218.0	790.1	636.3	575.7	60.68	10.486	
13,600.0	12,450.0	12,977.6	11,990.2	30.8	30.3	-43.73	-318.0	790.7	636.3	574.7	61.65	10.322	
13,700.0	12,450.0	13,077.6	11,990.2	30.9	30.6	-43.73	-418.0	791.3	636.3	573.7	62.65	10.157	
13,800.0	12,450.0	13,177.6	11,990.2	31.0	30.8	-43.73	-518.0	792.0	636.3	572.7	63.68	9.993	
13,900.0	12,450.0	13,277.6	11,990.2	31.1	31.1	-43.73	-618.0	792.6	636.3	571.6	64.74	9.829	
14,000.0	12,450.0	13,377.6	11,990.2	31.2	31.4	-43.73	-718.0	793.2	636.3	570.5	65.83	9.666	
14,100.0	12,450.0	13,477.6	11,990.2	31.4	31.7	-43.73	-818.0	793.8	636.4	569.4	66.95	9.505	
14,200.0	12,450.0	13,577.6	11,990.2	31.6	32.0	-43.73	-918.0	794.5	636.4	568.3	68.09	9.346	
14,300.0	12,450.0	13,677.6	11,990.2	31.7	32.4	-43.73	-1,018.0	795.1	636.4	567.1	69.26	9.188	
14,400.0	12,450.0	13,777.6	11,990.2	31.9	32.7	-43.73	-1,118.0	795.7	636.4	565.9	70.45	9.033	
14,500.0	12,450.0	13,877.6	11,990.2	32.2	33.1	-43.73	-1,218.0	796.3	636.4	564.7	71.66	8.880	
14,600.0	12,450.0	13,977.6	11,990.2	32.4	33.6	-43.73	-1,318.0	797.0	636.4	563.5	72.89	8.730	
14,700.0	12,450.0	14,077.6	11,990.2	32.7	34.0	-43.73	-1,418.0	797.6	636.4	562.2	74.15	8.582	
14,800.0	12,450.0	14,177.6	11,990.2	33.1	34.5	-43.73	-1,518.0	798.2	636.4	560.9	75.42	8.438	
14,900.0	12,450.0	14,277.6	11,990.2	33.4	35.0	-43.73	-1,618.0	798.8	636.4	559.6	76.71	8.296	
15,000.0	12,450.0	14,377.6	11,990.2	33.9	35.5	-43.73	-1,718.0	799.5	636.4	558.3	78.01	8.157	
15,100.0	12,450.0	14,477.6	11,990.2	34.3	36.0	-43.73	-1,818.0	800.1	636.4	557.0	79.34	8.021	
15,200.0	12,450.0	14,577.6	11,990.2	34.8	36.6	-43.73	-1,918.0	800.7	636.4	555.7	80.68	7.888	
15,300.0	12,450.0	14,677.6	11,990.2	35.3	37.1	-43.73	-2,018.0	801.3	636.4	554.3	82.03	7.758	
15,400.0	12,450.0	14,777.6	11,990.2	35.9	37.7	-43.74	-2,118.0	802.0	636.4	553.0	83.39	7.631	
15,500.0	12,450.0	14,877.6	11,990.2	36.4	38.3	-43.74	-2,218.0	802.6	636.4	551.6	84.77	7.507	
15,600.0	12,450.0	14,977.6	11,990.2	37.1	38.9	-43.74	-2,318.0	803.2	636.4	550.2	86.17	7.385	
15,700.0	12,450.0	15,077.6	11,990.2	37.7	39.6	-43.74	-2,418.0	803.8	636.4	548.8	87.57	7.267	
15,800.0	12,450.0	15,177.6	11,990.2	38.4	40.2	-43.74	-2,518.0	804.5	636.4	547.4	88.99	7.151	
15,900.0	12,450.0	15,277.6	11,990.2	39.1	40.9	-43.74	-2,618.0	805.1	636.4	546.0	90.41	7.038	
16,000.0	12,450.0	15,377.6	11,990.2	39.8	41.6	-43.74	-2,718.0	805.7	636.4	544.5	91.85	6.928	
16,100.0	12,450.0	15,477.6	11,990.2	40.5	42.3	-43.74	-2,818.0	806.3	636.4	543.1	93.30	6.821	
16,200.0	12,450.0	15,577.6	11,990.2	41.3	43.0	-43.74	-2,918.0	807.0	636.4	541.6	94.76	6.716	
16,300.0	12,450.0	15,677.6	11,990.2	42.0	43.7	-43.74	-3,018.0	807.6	636.4	540.1	96.22	6.614	
16,400.0	12,450.0	15,777.6	11,990.2	42.8	44.4	-43.74	-3,118.0	808.2	636.4	538.7	97.70	6.514	
16,500.0	12,450.0	15,877.6	11,990.2	43.6	45.1	-43.74	-3,218.0	808.8	636.4	537.2	99.18	6.416	
16,600.0	12,450.0	15,977.6	11,990.2	44.4	45.9	-43.74	-3,317.9	809.5	636.4	535.7	100.67	6.321	
16,700.0	12,450.0	16,077.6	11,990.2	45.2	46.6	-43.74	-3,417.9	810.1	636.4	534.2	102.17	6.229	
16,800.0	12,450.0	16,177.6	11,990.2	46.0	47.4	-43.74	-3,517.9	810.7	636.4	532.7	103.67	6.138	
16,900.0	12,450.0	16,277.6	11,990.2	46.8	48.2	-43.74	-3,617.9	811.3	636.4	531.2	105.18	6.050	
17,000.0	12,450.0	16,377.6	11,990.2	47.7	49.0	-43.74	-3,717.9	812.0	636.4	529.7	106.70	5.964	
17,100.0	12,450.0	16,477.6	11,990.2	48.5	49.7	-43.74	-3,817.9	812.6	636.4	528.2	108.23	5.880	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,200.0	12,450.0	16,577.6	11,990.2	49.3	50.5	-43.74	-3,917.9	813.2	636.4	526.6	109.76	5.798	
17,300.0	12,450.0	16,677.6	11,990.2	50.2	51.3	-43.74	-4,017.9	813.9	636.4	525.1	111.29	5.718	
17,400.0	12,450.0	16,777.6	11,990.2	51.0	52.1	-43.74	-4,117.9	814.5	636.4	523.5	112.83	5.640	
17,500.0	12,450.0	16,877.6	11,990.2	51.9	53.0	-43.74	-4,217.9	815.1	636.4	522.0	114.38	5.564	
17,600.0	12,450.0	16,977.6	11,990.2	52.8	53.8	-43.74	-4,317.9	815.7	636.4	520.4	115.93	5.489	
17,700.0	12,450.0	17,077.6	11,990.2	53.6	54.6	-43.74	-4,417.9	816.4	636.4	518.9	117.49	5.416	
17,800.0	12,450.0	17,177.6	11,990.2	54.5	55.4	-43.74	-4,517.9	817.0	636.4	517.3	119.05	5.345	
17,900.0	12,450.0	17,277.6	11,990.2	55.4	56.3	-43.74	-4,617.9	817.6	636.4	515.8	120.62	5.276	
18,000.0	12,450.0	17,377.6	11,990.2	56.3	57.1	-43.74	-4,717.9	818.2	636.4	514.2	122.19	5.208	
18,100.0	12,450.0	17,477.6	11,990.2	57.2	57.9	-43.74	-4,817.9	818.9	636.4	512.6	123.77	5.142	
18,200.0	12,450.0	17,577.6	11,990.2	58.0	58.8	-43.74	-4,917.9	819.5	636.4	511.0	125.35	5.077	
18,300.0	12,450.0	17,677.6	11,990.2	58.9	59.6	-43.74	-5,017.9	820.1	636.4	509.5	126.93	5.014	
18,400.0	12,450.0	17,777.6	11,990.2	59.8	60.5	-43.74	-5,117.9	820.7	636.4	507.9	128.52	4.952	
18,500.0	12,450.0	17,877.6	11,990.2	60.7	61.3	-43.74	-5,217.9	821.4	636.4	506.3	130.11	4.891	
18,600.0	12,450.0	17,977.6	11,990.2	61.6	62.2	-43.74	-5,317.9	822.0	636.4	504.7	131.70	4.832	
18,700.0	12,450.0	18,077.6	11,990.2	62.5	63.1	-43.74	-5,417.9	822.6	636.4	503.1	133.30	4.774	
18,800.0	12,450.0	18,177.6	11,990.2	63.4	63.9	-43.74	-5,517.9	823.2	636.4	501.5	134.90	4.718	
18,900.0	12,450.0	18,277.6	11,990.2	64.3	64.8	-43.74	-5,617.9	823.9	636.4	499.9	136.50	4.662	
19,000.0	12,450.0	18,377.6	11,990.2	65.2	65.7	-43.74	-5,717.9	824.5	636.4	498.3	138.11	4.608	
19,100.0	12,450.0	18,477.6	11,990.2	66.1	66.5	-43.74	-5,817.9	825.1	636.4	496.7	139.72	4.555	
19,200.0	12,450.0	18,577.6	11,990.2	67.0	67.4	-43.74	-5,917.9	825.7	636.4	495.1	141.33	4.503	
19,300.0	12,450.0	18,677.6	11,990.2	68.0	68.3	-43.74	-6,017.9	826.4	636.4	493.5	142.94	4.452	
19,400.0	12,450.0	18,777.6	11,990.2	68.9	69.2	-43.74	-6,117.9	827.0	636.4	491.8	144.56	4.402	
19,500.0	12,450.0	18,877.6	11,990.2	69.8	70.1	-43.74	-6,217.9	827.6	636.4	490.2	146.18	4.354	
19,600.0	12,450.0	18,977.6	11,990.2	70.7	71.0	-43.74	-6,317.9	828.2	636.4	488.6	147.80	4.306	
19,700.0	12,450.0	19,077.6	11,990.2	71.6	71.8	-43.74	-6,417.9	828.9	636.4	487.0	149.43	4.259	
19,800.0	12,450.0	19,177.6	11,990.2	72.5	72.7	-43.74	-6,517.9	829.5	636.4	485.3	151.05	4.213	
19,900.0	12,450.0	19,277.6	11,990.2	73.5	73.6	-43.74	-6,617.9	830.1	636.4	483.7	152.68	4.168	
20,000.0	12,450.0	19,377.6	11,990.2	74.4	74.5	-43.74	-6,717.9	830.7	636.4	482.1	154.32	4.124	
20,100.0	12,450.0	19,477.6	11,990.2	75.3	75.4	-43.74	-6,817.9	831.4	636.4	480.5	155.95	4.081	
20,200.0	12,450.0	19,577.6	11,990.2	76.2	76.3	-43.74	-6,917.9	832.0	636.4	478.8	157.58	4.039	
20,300.0	12,450.0	19,677.6	11,990.2	77.1	77.2	-43.74	-7,017.9	832.6	636.4	477.2	159.22	3.997	
20,301.8	12,450.0	19,679.4	11,990.2	77.2	77.2	-43.74	-7,019.7	832.6	636.4	477.2	159.25	3.996	
20,368.8	12,450.0	19,746.4	11,990.2	77.8	77.8	-43.74	-7,086.7	833.0	636.4	476.2	160.19	3.973	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:			Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.8	3.0	3.0	-90.36	-0.2	-40.0	40.0				
100.0	100.0	99.2	100.0	3.1	3.1	-90.36	-0.2	-40.0	40.0	33.4	6.56	6.098	
200.0	200.0	199.2	200.0	3.3	3.2	-90.36	-0.2	-40.0	40.0	33.1	6.91	5.792	
300.0	300.0	299.2	300.0	3.6	3.3	-90.36	-0.2	-40.0	40.0	32.8	7.24	5.527	
400.0	400.0	399.2	400.0	3.8	3.4	-90.36	-0.2	-40.0	40.0	32.4	7.56	5.295	
500.0	500.0	499.2	500.0	4.0	3.6	-90.36	-0.2	-40.0	40.0	32.1	7.86	5.089	
600.0	600.0	599.2	600.0	4.1	3.7	-90.36	-0.2	-40.0	40.0	31.8	8.16	4.904	
700.0	700.0	699.2	700.0	4.3	3.8	-90.36	-0.2	-40.0	40.0	31.6	8.44	4.738	
800.0	800.0	799.2	800.0	4.5	3.9	-90.36	-0.2	-40.0	40.0	31.3	8.72	4.588	
900.0	900.0	899.2	900.0	4.7	4.0	-90.36	-0.2	-40.0	40.0	31.0	8.99	4.450	
1,000.0	1,000.0	999.2	1,000.0	4.8	4.2	-90.36	-0.2	-40.0	40.0	30.7	9.25	4.323	
1,100.0	1,100.0	1,099.2	1,100.0	5.0	4.3	-90.36	-0.2	-40.0	40.0	30.5	9.51	4.206	
1,200.0	1,200.0	1,199.2	1,200.0	5.2	4.4	-90.36	-0.2	-40.0	40.0	30.2	9.76	4.098	
1,300.0	1,300.0	1,299.2	1,300.0	5.3	4.5	-90.36	-0.2	-40.0	40.0	30.0	10.01	3.997	
1,400.0	1,400.0	1,399.2	1,400.0	5.5	4.6	-90.36	-0.2	-40.0	40.0	29.8	10.25	3.903	
1,500.0	1,500.0	1,499.2	1,500.0	5.6	4.8	-90.36	-0.2	-40.0	40.0	29.5	10.48	3.815	
1,600.0	1,600.0	1,599.2	1,600.0	5.8	4.9	-90.36	-0.2	-40.0	40.0	29.3	10.72	3.733	
1,700.0	1,700.0	1,699.2	1,700.0	5.9	5.0	-90.36	-0.2	-40.0	40.0	29.1	10.94	3.655	
1,800.0	1,800.0	1,799.2	1,800.0	6.0	5.1	-90.36	-0.2	-40.0	40.0	28.8	11.17	3.581	
1,900.0	1,900.0	1,899.2	1,900.0	6.2	5.2	-90.36	-0.2	-40.0	40.0	28.6	11.39	3.512	
2,000.0	2,000.0	1,999.2	2,000.0	6.3	5.3	-90.36	-0.2	-40.0	40.0	28.4	11.61	3.446	
2,100.0	2,100.0	2,099.5	2,100.3	6.5	5.5	-113.80	1.0	-39.7	40.4	28.5	11.84	3.409	
2,200.0	2,199.8	2,199.8	2,200.5	6.8	5.6	-115.20	4.8	-38.6	41.4	29.3	12.13	3.414	
2,300.0	2,299.5	2,300.5	2,301.0	7.0	5.7	-117.50	11.1	-36.8	43.1	30.7	12.36	3.484	
2,400.0	2,398.7	2,401.9	2,402.0	7.2	5.9	-122.32	18.8	-32.1	43.6	30.9	12.72	3.432	
2,500.0	2,497.5	2,503.2	2,502.6	7.5	6.1	-130.49	27.5	-24.0	43.2	30.0	13.17	3.276	
2,507.0	2,504.4	2,510.4	2,509.7	7.6	6.1	-131.20	28.2	-23.3	43.1	29.9	13.21	3.263	
2,600.0	2,595.9	2,604.4	2,602.7	7.8	6.2	-141.21	37.2	-12.5	41.6	27.9	13.70	3.035	
2,700.0	2,694.3	2,705.3	2,701.9	8.0	6.4	-154.35	48.0	2.3	38.3	23.9	14.34	2.668 Normal Operations	
2,800.0	2,792.8	2,805.6	2,799.9	8.3	6.6	-172.60	59.6	20.4	34.5	19.5	15.05	2.295 Caution - Monitor Closely	
2,876.3	2,867.9	2,881.7	2,873.6	8.5	6.7	168.72	69.0	36.3	33.2	17.7	15.45	2.148 Caution - Monitor Closely, CC, ES, SF	
2,900.0	2,891.2	2,905.2	2,896.3	8.5	6.8	162.22	72.1	41.6	33.4	17.9	15.51	2.152 Caution - Monitor Closely	
3,000.0	2,989.7	3,003.8	2,991.5	8.8	6.9	137.45	84.9	64.1	38.5	23.1	15.37	2.503 Normal Operations	
3,100.0	3,088.1	3,102.5	3,086.7	9.1	7.1	120.69	97.7	86.6	48.8	33.6	15.18	3.216	
3,200.0	3,186.5	3,201.1	3,181.9	9.5	7.2	110.28	110.6	109.2	61.8	46.6	15.17	4.074	
3,300.0	3,285.0	3,299.8	3,277.1	9.8	7.4	103.60	123.4	131.7	76.1	60.8	15.30	4.975	
3,400.0	3,383.4	3,398.4	3,372.3	10.1	7.6	99.06	136.2	154.2	91.1	75.6	15.50	5.878	
3,500.0	3,481.8	3,497.1	3,467.4	10.5	7.7	95.82	149.1	176.7	106.5	90.8	15.74	6.765	
3,600.0	3,580.3	3,595.7	3,562.6	10.8	7.9	93.40	161.9	199.3	122.1	106.1	16.01	7.628	
3,700.0	3,678.7	3,694.4	3,657.8	11.2	8.1	91.53	174.7	221.8	137.9	121.6	16.30	8.464	
3,800.0	3,777.2	3,793.1	3,753.0	11.6	8.2	90.05	187.5	244.3	153.9	137.3	16.60	9.271	
3,900.0	3,875.6	3,891.7	3,848.2	12.0	8.4	88.84	200.4	266.9	169.9	153.0	16.90	10.049	
4,000.0	3,974.0	3,990.4	3,943.4	12.3	8.6	87.84	213.2	289.4	185.9	168.7	17.22	10.798	
4,100.0	4,072.5	4,089.0	4,038.6	12.7	8.8	87.00	226.0	311.9	202.1	184.5	17.54	11.519	
4,200.0	4,170.9	4,187.7	4,133.7	13.1	9.0	86.29	238.9	334.4	218.2	200.3	17.87	12.212	
4,300.0	4,269.3	4,286.3	4,228.9	13.5	9.2	85.67	251.7	357.0	234.4	216.2	18.20	12.879	
4,400.0	4,367.8	4,385.0	4,324.1	13.9	9.3	85.13	264.5	379.5	250.6	232.0	18.53	13.520	
4,500.0	4,466.2	4,483.6	4,419.3	14.3	9.5	84.66	277.4	402.0	266.8	247.9	18.87	14.138	
4,600.0	4,564.7	4,582.3	4,514.5	14.7	9.7	84.24	290.2	424.6	283.0	263.8	19.21	14.731	
4,700.0	4,663.1	4,680.9	4,609.7	15.1	9.9	83.87	303.0	447.1	299.3	279.7	19.56	15.303	
4,800.0	4,761.5	4,779.6	4,704.9	15.5	10.1	83.54	315.8	469.6	315.5	295.6	19.90	15.853	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,860.0	4,878.2	4,800.0	16.0	10.3	83.24	328.7	492.1	331.8	311.5	20.25	16.382	
5,000.0	4,958.4	4,976.9	4,895.2	16.4	10.5	82.96	341.5	514.7	348.1	327.5	20.61	16.892	
5,100.0	5,056.9	5,075.6	4,990.4	16.8	10.7	82.71	354.3	537.2	364.4	343.4	20.96	17.384	
5,200.0	5,155.3	5,174.2	5,085.6	17.2	10.9	82.49	367.2	559.7	380.6	359.3	21.32	17.858	
5,300.0	5,253.7	5,272.9	5,180.8	17.6	11.1	82.28	380.0	582.3	396.9	375.3	21.67	18.314	
5,400.0	5,352.2	5,371.5	5,276.0	18.1	11.3	82.09	392.8	604.8	413.2	391.2	22.03	18.755	
5,500.0	5,450.6	5,470.2	5,371.2	18.5	11.5	81.91	405.7	627.3	429.5	407.1	22.40	19.180	
5,600.0	5,549.0	5,568.8	5,466.3	18.9	11.7	81.74	418.5	649.8	445.8	423.1	22.76	19.590	
5,700.0	5,647.5	5,667.5	5,561.5	19.4	12.0	81.59	431.3	672.4	462.2	439.0	23.12	19.986	
5,800.0	5,745.9	5,766.1	5,656.7	19.8	12.2	81.45	444.1	694.9	478.5	455.0	23.49	20.368	
5,900.0	5,844.4	5,864.8	5,751.9	20.2	12.4	81.31	457.0	717.4	494.8	470.9	23.86	20.738	
6,000.0	5,942.8	5,963.4	5,847.1	20.6	12.6	81.19	469.8	740.0	511.1	486.9	24.23	21.096	
6,100.0	6,041.2	6,062.1	5,942.3	21.1	12.8	81.07	482.6	762.5	527.4	502.8	24.60	21.441	
6,200.0	6,139.7	6,160.7	6,037.5	21.5	13.0	80.96	495.5	785.0	543.7	518.8	24.97	21.775	
6,300.0	6,238.1	6,259.4	6,132.7	22.0	13.2	80.86	508.3	807.5	560.1	534.7	25.34	22.099	
6,400.0	6,336.5	6,358.1	6,227.8	22.4	13.4	80.76	521.1	830.1	576.4	550.7	25.72	22.412	
6,500.0	6,435.0	6,456.7	6,323.0	22.8	13.6	80.67	533.9	852.6	592.7	566.6	26.09	22.716	
6,600.0	6,533.4	6,555.4	6,418.2	23.3	13.9	80.58	546.8	875.1	609.0	582.6	26.47	23.010	
6,700.0	6,631.9	6,654.0	6,513.4	23.7	14.1	80.50	559.6	897.7	625.4	598.5	26.85	23.295	
6,800.0	6,730.3	6,752.7	6,608.6	24.1	14.3	80.42	572.4	920.2	641.7	614.5	27.22	23.571	
6,900.0	6,828.7	6,851.3	6,703.8	24.6	14.5	80.34	585.3	942.7	658.0	630.4	27.60	23.839	
7,000.0	6,927.2	6,950.0	6,799.0	25.0	14.7	80.27	598.1	965.2	674.4	646.4	27.98	24.099	
7,100.0	7,025.6	7,048.6	6,894.1	25.5	14.9	80.21	610.9	987.8	690.7	662.3	28.36	24.351	
7,200.0	7,124.1	7,147.3	6,989.3	25.9	15.2	80.14	623.8	1,010.3	707.0	678.3	28.75	24.596	
7,300.0	7,222.5	7,245.9	7,084.5	26.4	15.4	80.08	636.6	1,032.8	723.4	694.3	29.13	24.834	
7,400.0	7,320.9	7,344.6	7,179.7	26.8	15.6	80.02	649.4	1,055.4	739.7	710.2	29.50	25.074	
7,500.0	7,419.4	7,452.0	7,283.5	27.2	15.8	80.00	663.0	1,079.3	755.6	725.7	29.89	25.277	
7,573.0	7,491.3	7,532.0	7,361.1	27.6	16.0	80.05	672.6	1,096.0	766.3	736.1	30.17	25.402	
7,600.0	7,517.8	7,561.5	7,389.9	27.7	16.1	80.11	675.9	1,101.9	770.1	739.8	30.26	25.448	
7,700.0	7,616.5	7,671.5	7,497.1	28.1	16.3	80.33	687.9	1,122.9	783.5	752.8	30.64	25.570	
7,800.0	7,715.4	7,781.7	7,605.2	28.5	16.5	80.49	698.8	1,142.1	795.7	764.7	31.00	25.669	
7,900.0	7,814.6	7,892.3	7,713.9	29.0	16.7	80.61	708.8	1,159.6	806.9	775.5	31.34	25.742	
8,000.0	7,914.0	8,003.2	7,823.3	29.4	17.0	80.69	717.7	1,175.3	816.9	785.3	31.67	25.793	
8,100.0	8,013.5	8,114.3	7,933.3	29.8	17.2	80.73	725.6	1,189.1	825.9	793.9	31.99	25.821	
8,200.0	8,113.2	8,225.7	8,043.8	30.1	17.4	80.73	732.4	1,201.2	833.7	801.4	32.28	25.828	
8,300.0	8,213.1	8,337.3	8,154.8	30.5	17.6	80.68	738.2	1,211.3	840.4	807.8	32.56	25.813	
8,400.0	8,313.0	8,449.1	8,266.2	30.8	17.8	80.60	743.0	1,219.7	846.0	813.1	32.82	25.778	
8,500.0	8,412.9	8,561.1	8,377.9	31.1	18.0	80.48	746.6	1,226.1	850.4	817.3	33.06	25.724	
8,587.1	8,500.0	8,658.7	8,475.4	31.2	18.1	103.29	749.0	1,230.1	853.3	820.1	33.24	25.671	
8,600.0	8,512.9	8,673.2	8,489.9	31.2	18.1	103.26	749.2	1,230.6	853.7	820.4	33.26	25.665	
8,700.0	8,612.9	8,785.5	8,602.1	31.3	18.3	103.12	750.7	1,233.3	855.7	822.2	33.47	25.568	
8,800.0	8,712.9	8,896.3	8,712.9	31.3	18.4	103.09	751.1	1,234.0	856.2	822.6	33.59	25.491	
8,900.0	8,812.9	8,996.3	8,812.9	31.3	18.4	103.09	751.1	1,234.0	856.2	822.5	33.72	25.389	
9,000.0	8,912.9	9,096.3	8,912.9	31.4	18.5	103.09	751.1	1,234.0	856.2	822.4	33.85	25.296	
9,100.0	9,012.9	9,196.3	9,012.9	31.4	18.6	103.09	751.1	1,234.0	856.2	822.3	33.97	25.204	
9,200.0	9,112.9	9,296.3	9,112.9	31.5	18.6	103.09	751.1	1,234.0	856.2	822.1	34.10	25.112	
9,300.0	9,212.9	9,396.3	9,212.9	31.5	18.7	103.09	751.1	1,234.0	856.2	822.0	34.22	25.021	
9,400.0	9,312.9	9,496.3	9,312.9	31.5	18.7	103.09	751.1	1,234.0	856.2	821.9	34.35	24.930	
9,500.0	9,412.9	9,596.3	9,412.9	31.6	18.8	103.09	751.1	1,234.0	856.2	821.8	34.47	24.840	
9,600.0	9,512.9	9,696.3	9,512.9	31.6	18.8	103.09	751.1	1,234.0	856.2	821.6	34.60	24.750	
9,700.0	9,612.9	9,796.3	9,612.9	31.7	18.9	103.09	751.1	1,234.0	856.2	821.5	34.72	24.660	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,800.0	9,712.9	9,896.3	9,712.9	31.7	18.9	103.09	751.1	1,234.0	856.2	821.4	34.85	24.571	
9,900.0	9,812.9	9,996.3	9,812.9	31.8	19.0	103.09	751.1	1,234.0	856.2	821.3	34.97	24.482	
10,000.0	9,912.9	10,096.3	9,912.9	31.8	19.1	103.09	751.1	1,234.0	856.2	821.1	35.10	24.394	
10,100.0	10,012.9	10,196.3	10,012.9	31.8	19.1	103.09	751.1	1,234.0	856.2	821.0	35.23	24.306	
10,200.0	10,112.9	10,296.3	10,112.9	31.9	19.2	103.09	751.1	1,234.0	856.2	820.9	35.35	24.219	
10,300.0	10,212.9	10,396.3	10,212.9	31.9	19.2	103.09	751.1	1,234.0	856.2	820.8	35.48	24.132	
10,400.0	10,312.9	10,496.3	10,312.9	32.0	19.3	103.09	751.1	1,234.0	856.2	820.6	35.61	24.045	
10,500.0	10,412.9	10,596.3	10,412.9	32.0	19.3	103.09	751.1	1,234.0	856.2	820.5	35.74	23.959	
10,600.0	10,512.9	10,696.3	10,512.9	32.1	19.4	103.09	751.1	1,234.0	856.2	820.4	35.87	23.874	
10,700.0	10,612.9	10,796.3	10,612.9	32.1	19.5	103.09	751.1	1,234.0	856.2	820.2	35.99	23.788	
10,800.0	10,712.9	10,896.3	10,712.9	32.1	19.5	103.09	751.1	1,234.0	856.2	820.1	36.12	23.704	
10,900.0	10,812.9	10,996.3	10,812.9	32.2	19.6	103.09	751.1	1,234.0	856.2	820.0	36.25	23.619	
11,000.0	10,912.9	11,096.3	10,912.9	32.2	19.6	103.09	751.1	1,234.0	856.2	819.9	36.38	23.535	
11,100.0	11,012.9	11,196.3	11,012.9	32.3	19.7	103.09	751.1	1,234.0	856.2	819.7	36.51	23.452	
11,200.0	11,112.9	11,296.3	11,112.9	32.3	19.8	103.09	751.1	1,234.0	856.2	819.6	36.64	23.369	
11,300.0	11,212.9	11,396.3	11,212.9	32.4	19.8	103.09	751.1	1,234.0	856.2	819.5	36.77	23.286	
11,366.1	11,279.0	11,462.4	11,279.0	32.4	19.8	103.09	751.1	1,234.0	856.2	819.4	36.85	23.233	
11,400.0	11,312.9	11,495.8	11,312.5	32.4	19.9	103.09	751.1	1,234.0	856.2	819.3	36.90	23.206	
11,500.0	11,412.9	11,565.8	11,382.2	32.5	19.8	103.43	745.9	1,234.0	858.0	821.1	36.96	23.214	
11,600.0	11,512.9	11,633.0	11,447.7	32.5	19.8	104.37	731.3	1,234.1	863.5	826.6	36.97	23.357	
11,700.0	11,612.9	11,694.9	11,505.7	32.5	19.7	105.75	709.8	1,234.3	873.4	836.4	37.00	23.605	
11,800.0	11,712.9	11,750.0	11,554.7	32.6	19.7	107.34	684.5	1,234.4	888.4	851.2	37.14	23.921	
11,900.0	11,812.9	11,800.0	11,596.3	32.6	19.6	109.05	656.8	1,234.6	909.1	871.7	37.43	24.290	
12,000.0	11,912.9	11,841.7	11,628.6	32.7	19.6	110.65	630.5	1,234.8	936.3	898.3	37.95	24.673	
12,059.6	11,972.5	11,864.2	11,645.0	32.7	19.6	111.56	615.2	1,234.9	955.5	917.2	38.34	24.922	
12,075.0	11,987.9	11,875.0	11,652.7	32.7	19.6	-72.36	607.5	1,234.9	960.8	922.5	38.39	25.030	
12,100.0	12,012.9	11,875.0	11,652.7	32.6	19.6	-71.31	607.5	1,234.9	969.4	930.8	38.67	25.069	
12,125.0	12,037.7	11,888.2	11,661.8	32.5	19.6	-69.79	597.9	1,235.0	978.0	939.2	38.81	25.201	
12,150.0	12,062.4	11,900.0	11,669.7	32.4	19.6	-68.37	589.2	1,235.0	986.6	947.6	38.97	25.314	
12,175.0	12,086.8	11,907.0	11,674.3	32.3	19.6	-67.14	583.9	1,235.0	995.0	955.8	39.20	25.381	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.2	3.0	3.0	-90.34	-0.1	-20.0	20.0				
100.0	100.0	99.8	100.0	3.1	3.1	-90.34	-0.1	-20.0	20.0	13.4	6.62	3.021	
200.0	200.0	199.8	200.0	3.3	3.3	-90.34	-0.1	-20.0	20.0	12.9	7.07	2.829	Normal Operations
300.0	300.0	299.8	300.0	3.6	3.6	-90.34	-0.1	-20.0	20.0	12.5	7.50	2.668	Normal Operations
400.0	400.0	399.8	400.0	3.8	3.8	-90.34	-0.1	-20.0	20.0	12.1	7.90	2.531	Normal Operations
500.0	500.0	499.8	500.0	4.0	4.0	-90.34	-0.1	-20.0	20.0	11.7	8.29	2.413	Caution - Monitor Closely
600.0	600.0	599.8	600.0	4.1	4.1	-90.34	-0.1	-20.0	20.0	11.3	8.66	2.310	Caution - Monitor Closely
700.0	700.0	699.8	700.0	4.3	4.3	-90.34	-0.1	-20.0	20.0	11.0	9.02	2.218	Caution - Monitor Closely
800.0	800.0	799.8	800.0	4.5	4.5	-90.34	-0.1	-20.0	20.0	10.6	9.37	2.135	Caution - Monitor Closely
900.0	900.0	899.8	900.0	4.7	4.7	-90.34	-0.1	-20.0	20.0	10.3	9.70	2.061	Caution - Monitor Closely
1,000.0	1,000.0	999.8	1,000.0	4.8	4.8	-90.34	-0.1	-20.0	20.0	10.0	10.03	1.994	Caution - Monitor Closely
1,100.0	1,100.0	1,099.8	1,100.0	5.0	5.0	-90.34	-0.1	-20.0	20.0	9.7	10.35	1.932	Caution - Monitor Closely
1,200.0	1,200.0	1,199.8	1,200.0	5.2	5.2	-90.34	-0.1	-20.0	20.0	9.3	10.66	1.876	Caution - Monitor Closely
1,300.0	1,300.0	1,299.8	1,300.0	5.3	5.3	-90.34	-0.1	-20.0	20.0	9.0	10.97	1.824	Caution - Monitor Closely
1,400.0	1,400.0	1,399.8	1,400.0	5.5	5.5	-90.34	-0.1	-20.0	20.0	8.7	11.27	1.775	Caution - Monitor Closely
1,500.0	1,500.0	1,499.8	1,500.0	5.6	5.6	-90.34	-0.1	-20.0	20.0	8.4	11.56	1.730	Caution - Monitor Closely
1,600.0	1,600.0	1,599.8	1,600.0	5.8	5.8	-90.34	-0.1	-20.0	20.0	8.2	11.85	1.688	Caution - Monitor Closely
1,700.0	1,700.0	1,699.8	1,700.0	5.9	5.9	-90.34	-0.1	-20.0	20.0	7.9	12.13	1.649	Caution - Monitor Closely
1,800.0	1,800.0	1,799.8	1,800.0	6.0	6.0	-90.34	-0.1	-20.0	20.0	7.6	12.41	1.612	Caution - Monitor Closely
1,900.0	1,900.0	1,899.8	1,900.0	6.2	6.2	-90.34	-0.1	-20.0	20.0	7.3	12.68	1.577	Caution - Monitor Closely
2,000.0	2,000.0	1,999.8	2,000.0	6.3	6.3	-90.34	-0.1	-20.0	20.0	7.0	12.95	1.544	Caution - Monitor Closely, CC, ES, SF
2,100.0	2,100.0	2,099.8	2,100.0	6.5	6.5	-121.30	-1.4	-19.8	20.7	7.5	13.22	1.564	Caution - Monitor Closely
2,200.0	2,199.8	2,199.3	2,199.4	6.8	6.6	-140.97	-5.2	-19.1	24.7	11.2	13.52	1.830	Caution - Monitor Closely
2,300.0	2,299.5	2,297.9	2,297.8	7.0	6.8	-159.92	-11.6	-18.0	35.5	21.6	13.92	2.551	Normal Operations
2,400.0	2,398.7	2,396.8	2,396.3	7.2	6.8	-172.05	-19.4	-16.0	52.5	38.2	14.29	3.676	
2,500.0	2,497.5	2,496.7	2,495.9	7.5	7.0	-179.46	-25.4	-11.5	71.4	56.6	14.81	4.823	
2,507.0	2,504.4	2,503.7	2,502.9	7.6	7.0	-179.88	-25.8	-11.1	72.8	57.9	14.84	4.904	
2,600.0	2,595.9	2,597.2	2,596.1	7.8	7.2	175.20	-29.1	-4.3	89.9	74.7	15.23	5.907	
2,700.0	2,694.3	2,698.5	2,696.9	8.0	7.4	170.61	-30.6	5.6	106.1	90.5	15.61	6.794	
2,800.0	2,792.8	2,800.3	2,798.0	8.3	7.6	166.17	-29.6	18.3	120.0	104.0	15.98	7.509	
2,900.0	2,891.2	2,902.5	2,898.9	8.5	7.7	161.60	-26.3	33.8	131.9	115.5	16.33	8.076	
3,000.0	2,989.7	3,004.7	2,999.3	8.8	7.9	156.73	-20.6	51.9	142.0	125.4	16.67	8.522	
3,100.0	3,088.1	3,106.7	3,098.8	9.1	8.2	151.47	-12.5	72.7	150.9	133.9	16.99	8.885	
3,200.0	3,186.5	3,207.0	3,196.0	9.5	8.4	145.93	-2.5	95.5	159.2	142.0	17.24	9.235	
3,300.0	3,285.0	3,305.5	3,291.3	9.8	8.7	140.89	7.7	118.2	168.7	151.1	17.54	9.614	
3,400.0	3,383.4	3,404.0	3,386.5	10.1	8.9	136.41	17.9	140.9	179.2	161.4	17.84	10.049	
3,500.0	3,481.8	3,502.5	3,481.8	10.5	9.2	132.44	28.1	163.7	190.8	172.7	18.13	10.521	
3,600.0	3,580.3	3,601.0	3,577.1	10.8	9.5	128.94	38.3	186.4	203.2	184.7	18.44	11.019	
3,700.0	3,678.7	3,699.4	3,672.4	11.2	9.9	125.84	48.5	209.2	216.2	197.4	18.75	11.529	
3,800.0	3,777.2	3,797.9	3,767.7	11.6	10.2	123.09	58.7	231.9	229.8	210.7	19.08	12.044	
3,900.0	3,875.6	3,896.4	3,863.0	12.0	10.5	120.65	68.9	254.6	243.9	224.4	19.42	12.557	
4,000.0	3,974.0	3,994.9	3,958.3	12.3	10.9	118.48	79.1	277.4	258.3	238.5	19.77	13.063	
4,100.0	4,072.5	4,093.4	4,053.6	12.7	11.3	116.54	89.3	300.1	273.1	252.9	20.14	13.559	
4,200.0	4,170.9	4,191.9	4,148.9	13.1	11.6	114.80	99.5	322.9	288.1	267.6	20.52	14.042	
4,300.0	4,269.3	4,290.4	4,244.2	13.5	12.0	113.24	109.7	345.6	303.4	282.5	20.91	14.510	
4,400.0	4,367.8	4,388.9	4,339.5	13.9	12.4	111.82	119.9	368.3	318.9	297.6	21.32	14.962	
4,500.0	4,466.2	4,487.4	4,434.8	14.3	12.8	110.53	130.1	391.1	334.6	312.9	21.73	15.397	
4,600.0	4,564.7	4,585.9	4,530.1	14.7	13.2	109.36	140.3	413.8	350.4	328.3	22.16	15.815	
4,700.0	4,663.1	4,684.4	4,625.4	15.1	13.6	108.29	150.5	436.6	366.4	343.8	22.59	16.217	
4,800.0	4,761.5	4,782.9	4,720.7	15.5	14.0	107.31	160.7	459.3	382.4	359.4	23.03	16.602	
4,900.0	4,860.0	4,881.4	4,815.9	16.0	14.4	106.41	170.9	482.0	398.6	375.1	23.49	16.970	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,958.4	4,979.9	4,911.2	16.4	14.9	105.58	181.1	504.8	414.8	390.9	23.95	17.322	
5,100.0	5,056.9	5,078.4	5,006.5	16.8	15.3	104.81	191.3	527.5	431.2	406.7	24.42	17.659	
5,200.0	5,155.3	5,176.9	5,101.8	17.2	15.7	104.10	201.5	550.2	447.6	422.7	24.89	17.982	
5,300.0	5,253.7	5,275.4	5,197.1	17.6	16.2	103.44	211.7	573.0	464.0	438.7	25.37	18.289	
5,400.0	5,352.2	5,373.9	5,292.4	18.1	16.6	102.82	221.9	595.7	480.5	454.7	25.86	18.584	
5,500.0	5,450.6	5,472.4	5,387.7	18.5	17.0	102.25	232.1	618.5	497.1	470.8	26.35	18.865	
5,600.0	5,549.0	5,570.9	5,483.0	18.9	17.5	101.71	242.3	641.2	513.7	486.9	26.85	19.134	
5,700.0	5,647.5	5,669.4	5,578.3	19.4	17.9	101.20	252.5	663.9	530.4	503.0	27.35	19.391	
5,800.0	5,745.9	5,767.9	5,673.6	19.8	18.4	100.73	262.7	686.7	547.1	519.2	27.86	19.637	
5,900.0	5,844.4	5,866.4	5,768.9	20.2	18.8	100.28	272.9	709.4	563.8	535.4	28.37	19.872	
6,000.0	5,942.8	5,964.9	5,864.2	20.6	19.3	99.86	283.1	732.2	580.6	551.7	28.89	20.097	
6,100.0	6,041.2	6,063.4	5,959.5	21.1	19.7	99.46	293.3	754.9	597.4	568.0	29.41	20.312	
6,200.0	6,139.7	6,161.9	6,054.8	21.5	20.2	99.09	303.5	777.6	614.2	584.3	29.93	20.518	
6,300.0	6,238.1	6,260.4	6,150.1	22.0	20.6	98.73	313.7	800.4	631.0	600.6	30.46	20.716	
6,400.0	6,336.5	6,358.9	6,245.3	22.4	21.1	98.40	323.9	823.1	647.9	616.9	30.99	20.905	
6,500.0	6,435.0	6,457.4	6,340.6	22.8	21.5	98.08	334.1	845.9	664.8	633.3	31.53	21.087	
6,600.0	6,533.4	6,555.9	6,435.9	23.3	22.0	97.77	344.3	868.6	681.7	649.6	32.06	21.261	
6,700.0	6,631.9	6,654.4	6,531.2	23.7	22.5	97.48	354.5	891.3	698.6	666.0	32.60	21.428	
6,800.0	6,730.3	6,752.9	6,626.5	24.1	22.9	97.21	364.7	914.1	715.5	682.4	33.14	21.589	
6,900.0	6,828.7	6,851.4	6,721.8	24.6	23.4	96.94	374.9	936.8	732.5	698.8	33.69	21.743	
7,000.0	6,927.2	6,949.9	6,817.1	25.0	23.8	96.69	385.1	959.5	749.5	715.2	34.24	21.892	
7,100.0	7,025.6	7,048.4	6,912.4	25.5	24.3	96.45	395.3	982.3	766.4	731.7	34.78	22.034	
7,200.0	7,124.1	7,146.9	7,007.7	25.9	24.8	96.22	405.5	1,005.0	783.4	748.1	35.34	22.171	
7,300.0	7,222.5	7,245.4	7,103.0	26.4	25.2	96.00	415.7	1,027.8	800.4	764.5	35.89	22.303	
7,400.0	7,320.9	7,343.9	7,198.3	26.8	25.7	95.79	425.9	1,050.5	817.5	781.0	36.44	22.430	
7,500.0	7,419.4	7,442.4	7,293.6	27.2	26.2	95.59	436.1	1,073.2	834.5	797.5	37.00	22.553	
7,573.0	7,491.3	7,514.3	7,363.2	27.6	26.5	95.45	443.5	1,089.8	846.9	809.5	37.40	22.645	
7,600.0	7,517.8	7,540.9	7,388.9	27.7	26.7	95.44	446.3	1,096.0	851.5	814.0	37.54	22.681	
7,700.0	7,616.5	7,639.3	7,484.1	28.1	27.1	95.34	456.5	1,118.7	868.4	830.3	38.12	22.784	
7,800.0	7,715.4	7,737.8	7,579.3	28.5	27.6	95.13	466.6	1,141.4	885.2	846.5	38.70	22.873	
7,900.0	7,814.6	7,836.1	7,674.5	29.0	28.1	94.82	476.8	1,164.1	901.9	862.6	39.30	22.947	
8,000.0	7,914.0	7,934.3	7,769.5	29.4	28.5	94.42	487.0	1,186.8	918.5	878.6	39.92	23.007	
8,100.0	8,013.5	8,032.3	7,864.3	29.8	29.0	93.94	497.1	1,209.4	935.1	894.6	40.56	23.053	
8,200.0	8,113.2	8,130.2	7,959.0	30.1	29.5	93.37	507.3	1,232.0	951.7	910.5	41.23	23.085	
8,300.0	8,213.1	8,227.9	8,053.5	30.5	30.0	92.73	517.4	1,254.6	968.4	926.5	41.91	23.105	
8,400.0	8,313.0	8,325.3	8,147.8	30.8	30.4	92.02	527.5	1,277.1	985.2	942.6	42.62	23.114	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST '21' DM FEDERAL COM 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		No-Go Distance (usft)	Separation Factor
8,700.0	8,612.9	13,492.0	9,281.5	31.3	79.1	-90.73	935.8	-320.3	982.8	883.9		98.89	9.939
8,800.0	8,712.9	13,491.7	9,281.5	31.3	79.1	-90.71	936.1	-320.3	917.7	815.3		102.47	8.956
8,900.0	8,812.9	13,491.3	9,281.5	31.3	79.1	-90.68	936.5	-320.3	859.4	753.3		106.06	8.103
9,000.0	8,912.9	13,490.9	9,281.5	31.4	79.1	-90.64	936.9	-320.3	809.2	699.8		109.43	7.394
9,100.0	9,012.9	13,490.4	9,281.5	31.4	79.1	-90.60	937.4	-320.3	768.8	656.6		112.24	6.850
9,200.0	9,112.9	13,489.9	9,281.5	31.5	79.1	-90.56	937.9	-320.4	739.8	625.8		114.06	6.486
9,300.0	9,212.9	13,489.2	9,281.5	31.5	79.1	-90.51	938.6	-320.4	723.6	609.1		114.53	6.318 SF
9,368.6	9,281.5	13,488.8	9,281.5	31.5	79.1	-90.47	939.0	-320.4	720.4	606.4		113.95	6.322 CC, ES
9,400.0	9,312.9	13,488.5	9,281.5	31.5	79.1	-90.46	939.3	-320.4	721.1	607.6		113.43	6.357
9,500.0	9,412.9	13,487.7	9,281.5	31.6	79.1	-90.39	940.1	-320.4	732.3	621.5		110.81	6.608
9,600.0	9,512.9	13,486.7	9,281.5	31.6	79.0	-90.31	941.1	-320.4	756.6	649.6		106.99	7.072
9,700.0	9,612.9	13,485.5	9,281.5	31.7	79.0	-90.22	942.3	-320.4	793.0	690.5		102.45	7.740
9,800.0	9,712.9	13,484.1	9,281.5	31.7	79.0	-90.10	943.7	-320.4	839.7	742.0		97.64	8.600
9,900.0	9,812.9	13,483.2	9,281.6	31.8	79.0	-90.03	944.6	-320.4	895.2	802.2		92.96	9.630
10,000.0	9,912.9	13,482.4	9,281.6	31.8	79.0	-89.97	945.4	-320.4	957.9	869.3		88.63	10.808

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W0CN FEDERAL COM 001H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		104-r.5 MWD												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
11,100.0	11,012.9	16,275.6	11,806.6	32.3	77.9	85.26	991.1	956.3	970.4	880.8	89.52	10.839			
11,200.0	11,112.9	16,277.2	11,806.7	32.3	78.0	85.43	989.5	956.4	890.4	798.1	92.28	9.649			
11,300.0	11,212.9	16,279.0	11,806.7	32.4	78.0	85.60	987.8	956.5	814.9	719.4	95.48	8.535			
11,400.0	11,312.9	16,280.7	11,806.7	32.4	78.0	85.79	986.0	956.6	745.2	646.1	99.11	7.519			
11,500.0	11,412.9	16,282.5	11,806.8	32.5	78.0	85.97	984.2	956.7	683.1	580.0	103.07	6.628			
11,600.0	11,512.9	16,284.4	11,806.8	32.5	78.1	86.17	982.3	956.8	630.7	523.7	107.06	5.892			
11,700.0	11,612.9	16,286.4	11,806.9	32.5	78.1	86.37	980.3	956.9	590.8	480.2	110.56	5.344			
11,800.0	11,712.9	16,288.5	11,806.9	32.6	78.1	86.58	978.3	957.0	565.9	453.0	112.86	5.014			
11,894.0	11,806.9	16,290.5	11,806.9	32.6	78.2	86.79	976.3	957.2	558.0	444.7	113.36	4.923 CC, ES, SF			
11,900.0	11,812.9	16,290.6	11,806.9	32.6	78.2	86.80	976.2	957.2	558.1	444.7	113.33	4.924			
12,000.0	11,912.9	16,292.8	11,807.0	32.7	78.2	87.03	974.0	957.3	568.0	456.2	111.78	5.081			
12,059.6	11,972.5	16,294.2	11,807.0	32.7	78.2	87.17	972.6	957.4	582.1	472.0	110.05	5.289			
12,075.0	11,987.9	16,294.8	11,807.0	32.7	78.2	-97.20	972.0	957.4	586.7	477.1	109.53	5.356			
12,100.0	12,012.9	16,296.8	11,807.1	32.6	78.3	-95.93	970.0	957.5	595.0	486.4	108.66	5.476			
12,125.0	12,037.7	16,300.1	11,807.2	32.5	78.3	-94.38	966.6	957.7	604.4	496.6	107.77	5.608			
12,150.0	12,062.4	16,304.8	11,807.3	32.4	78.4	-92.55	962.0	958.0	614.7	507.9	106.88	5.752			
12,175.0	12,086.8	16,310.8	11,807.4	32.3	78.5	-90.46	956.0	958.3	625.9	519.9	106.01	5.904			
12,200.0	12,110.9	16,318.2	11,807.6	32.2	78.6	-88.12	948.6	958.7	637.8	532.6	105.16	6.065			
12,225.0	12,134.6	16,326.8	11,807.9	32.1	78.7	-85.58	940.0	959.2	650.3	545.9	104.35	6.231			
12,250.0	12,157.9	16,334.0	11,808.1	32.0	78.9	-83.11	932.8	959.7	663.2	559.7	103.56	6.404			
12,275.0	12,180.7	16,345.4	11,808.4	31.9	79.0	-80.23	921.5	960.3	676.6	573.8	102.87	6.578			
12,300.0	12,202.9	16,355.2	11,808.6	31.8	79.2	-77.49	911.7	960.9	690.3	588.1	102.20	6.755			
12,325.0	12,224.5	16,365.7	11,808.8	31.7	79.4	-74.73	901.2	961.5	704.2	602.6	101.59	6.932			
12,350.0	12,245.4	16,376.9	11,808.9	31.6	79.6	-71.97	890.0	962.1	718.3	617.2	101.04	7.109			
12,375.0	12,265.5	16,388.7	11,808.9	31.5	79.7	-69.25	878.3	962.8	732.3	631.8	100.55	7.283			
12,400.0	12,284.8	16,401.0	11,808.8	31.4	79.9	-66.61	865.9	963.5	746.3	646.2	100.12	7.454			
12,425.0	12,303.3	16,413.9	11,808.6	31.3	80.1	-64.06	853.1	964.2	760.2	660.5	99.75	7.621			
12,450.0	12,320.9	16,429.0	11,808.2	31.2	80.4	-61.55	838.0	965.0	773.9	674.4	99.46	7.781			
12,475.0	12,337.5	16,452.9	11,807.7	31.1	80.8	-58.85	814.2	966.2	787.2	687.9	99.31	7.927			
12,500.0	12,353.1	16,482.2	11,807.6	31.0	81.2	-56.27	784.9	967.9	799.9	700.6	99.27	8.058			
12,525.0	12,367.6	16,513.7	11,808.3	30.9	81.8	-53.99	753.4	969.7	811.7	712.4	99.31	8.174			
12,550.0	12,381.1	16,535.3	11,809.0	30.9	82.1	-52.27	731.9	970.9	822.7	723.4	99.34	8.282			
12,575.0	12,393.5	16,552.0	11,809.5	30.8	82.4	-50.84	715.3	971.9	833.2	733.9	99.38	8.384			
12,600.0	12,404.7	16,568.9	11,809.8	30.7	82.6	-49.54	698.3	972.9	843.1	743.7	99.47	8.476			
12,625.0	12,414.7	16,586.2	11,810.0	30.7	82.9	-48.39	681.1	974.0	852.4	752.8	99.61	8.558			
12,650.0	12,423.6	16,603.7	11,810.0	30.6	83.2	-47.37	663.7	975.0	861.1	761.3	99.79	8.629			
12,675.0	12,431.1	16,622.0	11,809.8	30.6	83.5	-46.47	645.4	976.1	869.1	769.1	100.02	8.689			
12,700.0	12,437.4	16,644.7	11,809.5	30.6	83.9	-45.68	622.7	977.4	876.3	776.0	100.33	8.735			
12,725.0	12,442.5	16,667.8	11,809.1	30.5	84.2	-45.04	599.7	978.8	882.7	782.0	100.68	8.767			
12,750.0	12,446.3	16,691.1	11,808.7	30.5	84.6	-44.53	576.4	980.1	888.2	787.1	101.07	8.788			
12,775.0	12,448.7	16,737.1	11,808.4	30.5	85.4	-44.26	530.5	982.8	892.7	791.0	101.68	8.779			
12,800.0	12,449.9	16,761.8	11,808.9	30.5	85.8	-44.15	505.9	984.4	895.8	793.6	102.22	8.763			
12,809.6	12,450.0	16,771.2	11,809.1	30.5	85.9	-44.14	496.4	985.0	896.7	794.3	102.44	8.754			
12,900.0	12,450.0	16,790.0	11,809.5	30.5	86.2	-44.43	477.7	986.2	906.8	803.1	103.74	8.741			
13,000.0	12,450.0	16,790.0	11,809.5	30.5	86.2	-44.70	477.7	986.2	925.6	821.6	104.07	8.895			
13,077.4	12,450.0	16,790.0	11,809.5	30.6	86.2	-44.99	477.7	986.2	945.7	842.0	103.67	9.122			
13,100.0	12,450.0	16,790.0	11,809.5	30.6	86.2	-44.99	477.7	986.2	952.4	848.9	103.46	9.205			
13,200.0	12,450.0	16,790.0	11,809.5	30.6	86.2	-44.99	477.7	986.2	987.9	885.7	102.17	9.669			

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W1DM FEDERAL COM 002H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,200.0	11,112.9	16,593.3	12,061.2	32.3	82.8	-90.72	942.6	210.1	967.1	886.5	80.56	12.005	
11,300.0	11,212.9	16,593.0	12,061.2	32.4	82.8	-90.61	943.0	210.1	869.3	787.5	81.74	10.635	
11,400.0	11,312.9	16,592.6	12,061.2	32.4	82.8	-90.49	943.4	210.1	772.0	688.8	83.20	9.279	
11,500.0	11,412.9	16,592.1	12,061.2	32.5	82.8	-90.36	943.8	210.1	675.5	590.5	85.06	7.941	
11,600.0	11,512.9	16,591.7	12,061.2	32.5	82.8	-90.22	944.3	210.1	580.2	492.7	87.54	6.628	
11,700.0	11,612.9	16,591.2	12,061.2	32.5	82.7	-90.07	944.8	210.2	486.8	395.9	90.98	5.351	
11,800.0	11,712.9	16,590.6	12,061.2	32.6	82.7	-89.90	945.3	210.2	396.7	300.7	95.95	4.134	
11,900.0	11,812.9	16,590.0	12,061.2	32.6	82.7	-89.73	945.9	210.2	312.6	209.2	103.31	3.025	
12,000.0	11,912.9	16,589.4	12,061.2	32.7	82.7	-89.53	946.5	210.2	240.9	127.5	113.34	2.125 Caution - Monitor Closely	
12,059.6	11,972.5	16,589.0	12,061.2	32.7	82.7	-89.41	947.0	210.2	209.5	90.6	118.94	1.762 Caution - Monitor Closely	
12,075.0	11,987.9	16,589.1	12,061.2	32.7	82.7	86.34	946.8	210.2	203.5	83.6	119.92	1.697 Caution - Monitor Closely	
12,100.0	12,012.9	16,590.4	12,061.2	32.6	82.7	86.94	945.6	210.2	195.8	75.0	120.77	1.621 Caution - Monitor Closely	
12,125.0	12,037.7	16,592.9	12,061.2	32.5	82.8	86.77	943.1	210.1	190.9	70.4	120.51	1.584 Caution - Monitor Closely, SF	
12,150.0	12,062.4	16,596.7	12,061.2	32.4	82.8	85.83	939.2	210.1	189.2	70.2	119.01	1.590 Caution - Monitor Closely, ES	
12,151.5	12,063.9	16,597.0	12,061.2	32.4	82.8	85.75	938.9	210.1	189.2	70.3	118.88	1.592 Caution - Monitor Closely, CC	
12,175.0	12,086.8	16,602.0	12,061.2	32.3	82.9	84.12	934.0	210.0	190.5	74.2	116.34	1.638 Caution - Monitor Closely	
12,200.0	12,110.9	16,608.6	12,061.2	32.2	83.0	81.67	927.3	209.9	194.8	82.0	112.78	1.727 Caution - Monitor Closely	
12,225.0	12,134.6	16,616.7	12,061.2	32.1	83.1	78.54	919.3	209.8	201.6	92.9	108.72	1.854 Caution - Monitor Closely	
12,250.0	12,157.9	16,626.2	12,061.3	32.0	83.3	74.82	909.8	209.6	210.6	106.1	104.54	2.015 Caution - Monitor Closely	
12,275.0	12,180.7	16,637.2	12,061.4	31.9	83.4	70.61	898.8	209.4	221.3	120.8	100.53	2.201 Caution - Monitor Closely	
12,300.0	12,202.9	16,649.7	12,061.7	31.8	83.6	66.08	886.3	209.2	233.2	136.4	96.89	2.407 Caution - Monitor Closely	
12,325.0	12,224.5	16,663.6	12,062.0	31.7	83.8	61.41	872.3	209.0	246.0	152.3	93.70	2.626 Normal Operations	
12,350.0	12,245.4	16,677.8	12,062.4	31.6	84.1	56.99	858.2	208.7	259.4	168.4	90.93	2.852 Normal Operations	
12,375.0	12,265.5	16,693.0	12,062.8	31.5	84.3	52.74	843.0	208.4	273.0	184.4	88.60	3.081	
12,400.0	12,284.8	16,709.2	12,063.3	31.4	84.5	48.75	826.8	208.1	286.6	199.9	86.66	3.307	
12,425.0	12,303.3	16,726.4	12,063.7	31.3	84.8	45.08	809.6	207.7	300.1	215.0	85.07	3.527	
12,450.0	12,320.9	16,744.4	12,064.2	31.2	85.1	41.75	791.6	207.3	313.2	229.4	83.77	3.739	
12,475.0	12,337.5	16,762.1	12,064.7	31.1	85.3	38.89	773.9	207.0	325.9	243.2	82.71	3.940	
12,500.0	12,353.1	16,779.0	12,064.9	31.0	85.6	36.45	757.0	206.6	338.2	256.3	81.85	4.132	
12,525.0	12,367.6	16,796.7	12,065.0	30.9	85.9	34.25	739.4	206.1	349.9	268.8	81.17	4.311	
12,550.0	12,381.1	16,817.8	12,065.1	30.9	86.2	32.14	718.3	205.6	360.9	280.3	80.66	4.475	
12,575.0	12,393.5	16,830.0	12,065.2	30.8	86.4	30.78	706.0	205.2	371.2	291.0	80.23	4.627	
12,600.0	12,404.7	16,830.0	12,065.2	30.7	86.4	30.08	706.0	205.2	381.7	301.9	79.76	4.785	
12,625.0	12,414.7	16,830.0	12,065.2	30.7	86.4	29.37	706.0	205.2	392.4	313.1	79.28	4.950	
12,650.0	12,423.6	16,830.0	12,065.2	30.6	86.4	28.65	706.0	205.2	403.4	324.6	78.80	5.120	
12,675.0	12,431.1	16,830.0	12,065.2	30.6	86.4	27.94	706.0	205.2	414.7	336.4	78.30	5.296	
12,700.0	12,437.4	16,830.0	12,065.2	30.6	86.4	27.23	706.0	205.2	426.1	348.3	77.78	5.478	
12,725.0	12,442.5	16,830.0	12,065.2	30.5	86.4	26.52	706.0	205.2	437.6	360.4	77.22	5.667	
12,750.0	12,446.3	16,830.0	12,065.2	30.5	86.4	25.83	706.0	205.2	449.2	372.6	76.62	5.863	
12,775.0	12,448.7	16,830.0	12,065.2	30.5	86.4	25.15	706.0	205.2	460.9	384.9	75.99	6.065	
12,800.0	12,449.9	16,830.0	12,065.2	30.5	86.4	24.48	706.0	205.2	472.6	397.2	75.31	6.275	
12,809.6	12,450.0	16,830.0	12,065.2	30.5	86.4	24.23	706.0	205.2	477.0	402.0	75.04	6.357	
12,900.0	12,450.0	16,830.0	12,065.2	30.5	86.4	23.17	706.0	205.2	525.8	453.4	72.40	7.262	
13,000.0	12,450.0	16,830.0	12,065.2	30.5	86.4	21.52	706.0	205.2	592.2	522.6	69.61	8.507	
13,077.4	12,450.0	16,830.0	12,065.2	30.6	86.4	19.88	706.0	205.2	650.1	582.4	67.68	9.605	
13,100.0	12,450.0	16,830.0	12,065.2	30.6	86.4	19.88	706.0	205.2	667.8	600.6	67.16	9.942	
13,200.0	12,450.0	16,830.0	12,065.2	30.6	86.4	19.88	706.0	205.2	749.3	684.2	65.13	11.505	
13,300.0	12,450.0	16,830.0	12,065.2	30.6	86.4	19.88	706.0	205.2	834.8	771.4	63.47	13.154	
13,400.0	12,450.0	16,830.0	12,065.2	30.7	86.4	19.88	706.0	205.2	923.3	861.2	62.12	14.864	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W1DM FEDERAL COM 003H - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 134-r.5 MWD												Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
11,300.0	11,212.9	16,330.4	11,758.9	32.4	78.3	-90.45	938.9	-374.3	947.5	848.7	98.71	9.598	
11,400.0	11,312.9	16,331.5	11,758.9	32.4	78.3	-90.54	937.7	-374.3	893.6	791.4	102.18	8.745	
11,500.0	11,412.9	16,332.7	11,759.0	32.5	78.4	-90.62	936.6	-374.3	848.1	742.5	105.62	8.029	
11,600.0	11,512.9	16,333.8	11,759.0	32.5	78.4	-90.71	935.4	-374.2	812.4	703.6	108.80	7.467	
11,700.0	11,612.9	16,334.9	11,759.0	32.5	78.4	-90.79	934.4	-374.2	787.9	676.5	111.41	7.072	
11,800.0	11,712.9	16,336.0	11,759.0	32.6	78.4	-90.87	933.3	-374.2	775.7	662.5	113.16	6.854	
11,846.1	11,759.0	16,336.4	11,759.0	32.6	78.4	-90.90	932.8	-374.2	774.3	660.7	113.62	6.815 CC, ES, SF	
11,900.0	11,812.9	16,337.0	11,759.0	32.6	78.4	-90.94	932.3	-374.2	776.2	662.3	113.86	6.817	
12,000.0	11,912.9	16,338.0	11,759.0	32.7	78.4	-91.02	931.3	-374.2	789.4	676.0	113.48	6.957	
12,059.6	11,972.5	16,338.6	11,759.0	32.7	78.4	-91.06	930.7	-374.2	803.2	690.4	112.78	7.122	
12,075.0	11,987.9	16,339.0	11,759.0	32.7	78.5	83.39	930.3	-374.2	807.4	694.8	112.56	7.173	
12,100.0	12,012.9	16,340.5	11,759.0	32.6	78.5	82.37	928.7	-374.1	814.7	702.5	112.17	7.263	
12,125.0	12,037.7	16,343.3	11,759.1	32.5	78.5	81.19	926.0	-374.1	822.5	710.7	111.76	7.359	
12,150.0	12,062.4	16,347.2	11,759.1	32.4	78.6	79.87	922.0	-374.0	830.8	719.4	111.34	7.461	
12,175.0	12,086.8	16,352.3	11,759.2	32.3	78.7	78.42	917.0	-374.0	839.5	728.5	110.92	7.568	
12,200.0	12,110.9	16,358.4	11,759.2	32.2	78.8	76.85	910.8	-373.9	848.5	738.0	110.49	7.680	
12,225.0	12,134.6	16,365.7	11,759.3	32.1	78.9	75.18	903.6	-373.8	857.9	747.8	110.06	7.794	
12,250.0	12,157.9	16,374.0	11,759.3	32.0	79.0	73.43	895.2	-373.7	867.5	757.9	109.65	7.912	
12,275.0	12,180.7	16,383.4	11,759.4	31.9	79.2	71.62	885.9	-373.5	877.3	768.0	109.24	8.031	
12,300.0	12,202.9	16,393.7	11,759.4	31.8	79.3	69.77	875.5	-373.4	887.1	778.3	108.85	8.150	
12,325.0	12,224.5	16,408.0	11,759.4	31.7	79.6	67.73	861.3	-373.3	897.0	788.5	108.51	8.267	
12,350.0	12,245.4	16,417.1	11,759.5	31.6	79.7	66.05	852.2	-373.2	906.9	798.8	108.13	8.387	
12,375.0	12,265.5	16,429.9	11,759.4	31.5	79.9	64.22	839.4	-373.0	916.7	808.9	107.80	8.504	
12,400.0	12,284.8	16,443.4	11,759.4	31.4	80.1	62.44	825.8	-372.9	926.3	818.8	107.50	8.617	
12,425.0	12,303.3	16,457.8	11,759.3	31.3	80.4	60.71	811.5	-372.8	935.6	828.4	107.22	8.726	
12,450.0	12,320.9	16,472.8	11,759.1	31.2	80.6	59.05	796.4	-372.7	944.7	837.7	106.98	8.830	
12,475.0	12,337.5	16,488.5	11,758.9	31.1	80.9	57.47	780.7	-372.6	953.5	846.7	106.77	8.930	
12,500.0	12,353.1	16,505.3	11,758.6	31.0	81.1	55.96	764.0	-372.5	961.8	855.2	106.60	9.022	
12,525.0	12,367.6	16,525.7	11,758.1	30.9	81.5	54.45	743.6	-372.3	969.6	863.2	106.49	9.105	
12,550.0	12,381.1	16,546.3	11,757.7	30.9	81.8	53.07	723.0	-372.2	976.9	870.5	106.41	9.181	
12,575.0	12,393.5	16,567.7	11,757.2	30.8	82.1	51.81	701.6	-372.0	983.6	877.2	106.36	9.247	
12,600.0	12,404.7	16,570.0	11,757.1	30.7	82.2	51.15	699.3	-372.0	989.8	883.6	106.18	9.322	
12,625.0	12,414.7	16,570.0	11,757.1	30.7	82.2	50.58	699.3	-372.0	995.8	889.8	105.97	9.396	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	5.7	0.3	3.0	0.0	79.90	147.3	826.6	839.6					
100.0	100.0	111.2	105.8	3.1	0.1	79.83	148.1	826.0	839.2	834.1	5.15	162.842		
200.0	200.0	216.1	210.7	3.3	0.4	79.71	149.8	824.7	838.2	832.7	5.50	152.327		
300.0	300.0	317.5	312.1	3.6	0.7	79.58	151.3	822.9	836.8	830.9	5.86	142.863		
400.0	400.0	409.9	404.4	3.8	0.9	79.43	153.3	821.6	835.8	829.6	6.21	134.634		
441.8	441.8	447.3	441.8	3.8	1.0	79.35	154.4	821.3	835.7	829.3	6.35	131.645		
500.0	500.0	500.0	494.5	4.0	1.1	79.23	156.2	821.1	835.9	829.3	6.55	127.569		
600.0	600.0	596.1	590.4	4.1	1.4	78.95	160.4	821.2	836.8	829.9	6.90	121.279		
700.0	700.0	687.1	681.3	4.3	1.6	78.60	165.6	821.8	838.5	831.2	7.24	115.783		
800.0	800.0	780.5	774.4	4.5	1.8	78.18	172.2	822.9	841.1	833.6	7.59	110.878		
900.0	900.0	868.2	861.9	4.7	2.1	77.73	179.3	824.7	844.8	837.1	7.77	108.736		
1,000.0	1,000.0	963.1	956.3	4.8	2.4	77.19	188.1	827.6	849.8	841.7	8.15	104.278		
1,100.0	1,100.0	1,063.5	1,056.3	5.0	2.8	76.64	197.3	830.7	855.0	846.4	8.55	99.998		
1,200.0	1,200.0	1,162.5	1,154.9	5.2	3.1	76.14	205.7	833.9	860.1	851.2	8.95	96.147		
1,300.0	1,300.0	1,255.7	1,247.7	5.3	3.5	75.72	213.1	837.5	865.7	856.4	9.33	92.804		
1,400.0	1,400.0	1,352.4	1,344.0	5.5	3.8	75.31	220.6	841.8	872.0	862.3	9.73	89.651		
1,500.0	1,500.0	1,467.7	1,459.0	5.6	4.3	74.93	228.0	846.6	877.7	867.5	10.22	85.887		
1,600.0	1,600.0	1,572.4	1,563.5	5.8	4.7	74.72	232.2	850.2	882.1	871.5	10.63	82.960		
1,700.0	1,700.0	1,677.5	1,668.4	5.9	5.0	74.56	235.7	853.5	886.0	875.0	11.05	80.170		
1,800.0	1,800.0	1,785.9	1,776.8	6.0	5.4	74.40	239.1	856.0	889.0	877.6	11.47	77.534		
1,900.0	1,900.0	1,894.9	1,885.8	6.2	5.7	74.25	241.8	857.7	891.2	879.4	11.87	75.101		
2,000.0	2,000.0	2,002.3	1,993.1	6.3	5.8	74.31	241.3	859.1	892.3	880.1	12.22	73.026		
2,100.0	2,100.0	2,107.0	2,097.8	6.5	5.9	51.58	239.8	860.0	891.8	879.2	12.54	71.115		
2,200.0	2,199.8	2,209.9	2,200.8	6.8	6.0	51.93	239.4	860.2	888.6	875.7	12.82	69.314		
2,300.0	2,299.5	2,314.5	2,305.3	7.0	6.1	52.47	239.6	859.7	882.8	869.8	13.04	67.678		
2,400.0	2,398.7	2,412.6	2,403.4	7.2	6.1	53.21	239.5	859.2	874.8	861.6	13.24	66.080		
2,500.0	2,497.5	2,512.8	2,503.6	7.5	6.1	54.22	239.3	858.6	864.9	851.4	13.46	64.258		
2,507.0	2,504.4	2,519.9	2,510.8	7.6	6.1	54.30	239.2	858.5	864.1	850.6	13.48	64.127		
2,600.0	2,595.9	2,614.0	2,604.8	7.8	6.2	55.20	239.2	857.7	853.7	840.1	13.64	62.597		
2,700.0	2,694.3	2,712.5	2,703.4	8.0	6.3	56.15	239.3	856.5	842.6	828.7	13.84	60.887		
2,800.0	2,792.8	2,808.4	2,799.2	8.3	6.3	57.09	239.5	855.6	831.9	817.8	14.06	59.185		
2,900.0	2,891.2	2,906.8	2,897.6	8.5	6.5	58.07	240.0	854.8	821.6	807.3	14.29	57.487		
3,000.0	2,989.7	3,002.3	2,993.1	8.8	6.6	59.04	240.4	854.1	811.6	797.1	14.54	55.819		
3,100.0	3,088.1	3,095.5	3,086.3	9.1	6.8	60.02	240.9	853.9	802.5	787.7	14.81	54.198		
3,200.0	3,186.5	3,190.8	3,181.6	9.5	6.9	61.06	241.0	854.3	794.2	779.1	15.09	52.628		
3,300.0	3,285.0	3,286.2	3,277.0	9.8	7.0	62.13	241.2	855.1	786.5	771.1	15.38	51.142		
3,400.0	3,383.4	3,382.4	3,373.2	10.1	7.2	63.22	241.5	856.3	779.6	763.9	15.67	49.752		
3,500.0	3,481.8	3,484.9	3,475.7	10.5	7.4	64.39	241.9	857.4	772.8	756.9	15.96	48.425		
3,600.0	3,580.3	3,589.1	3,579.9	10.8	7.6	65.60	242.4	857.7	765.7	749.4	16.22	47.193		
3,700.0	3,678.7	3,686.4	3,677.1	11.2	7.7	66.76	242.7	857.7	758.5	742.0	16.47	46.061		
3,800.0	3,777.2	3,781.5	3,772.3	11.6	7.8	67.93	242.7	858.2	752.1	735.4	16.71	44.996		
3,900.0	3,875.6	3,878.8	3,869.6	12.0	7.9	69.18	242.4	858.9	746.3	729.3	16.96	43.996		
4,000.0	3,974.0	3,977.7	3,968.4	12.3	8.0	70.46	242.0	859.7	741.0	723.8	17.20	43.071		
4,100.0	4,072.5	4,072.9	4,063.6	12.7	8.1	71.76	241.1	860.5	736.1	718.6	17.43	42.228		
4,200.0	4,170.9	4,165.8	4,156.6	13.1	8.1	73.08	239.7	861.8	732.3	714.6	17.65	41.480		
4,300.0	4,269.3	4,265.4	4,256.1	13.5	8.2	74.52	238.0	863.7	729.4	711.5	17.88	40.790		
4,400.0	4,367.8	4,368.2	4,358.8	13.9	8.3	75.98	236.6	865.0	726.3	708.2	18.11	40.110		
4,500.0	4,466.2	4,467.6	4,458.3	14.3	8.3	77.39	235.7	866.0	723.4	705.0	18.33	39.457		
4,600.0	4,564.7	4,565.3	4,556.0	14.7	8.4	78.78	234.8	867.0	720.8	702.4	18.43	39.120		
4,699.3	4,662.4	4,649.7	4,640.3	15.1	8.5	79.97	234.0	868.5	719.6	700.9	18.66	38.555 CC		
4,700.0	4,663.1	4,650.3	4,640.9	15.1	8.5	79.98	234.0	868.5	719.6	700.9	18.67	38.551 ES		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design:		ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP											Offset Site Error:		0.0 usft
Survey Program:		100-GYD-CT-CMS, 891-r.5 MWD											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor			
4,800.0	4,761.5	4,729.5	4,720.0	15.5	8.7	81.06	233.4	871.9	721.0	702.1	18.94	38.076			
4,900.0	4,860.0	4,813.6	4,804.0	16.0	8.9	82.13	233.0	877.9	725.5	706.3	19.22	37.747			
5,000.0	4,958.4	4,909.0	4,899.0	16.4	9.1	83.28	232.9	885.9	731.4	711.9	19.52	37.476			
5,100.0	5,056.9	5,008.7	4,998.4	16.8	9.4	84.46	232.8	894.2	737.7	717.8	19.83	37.192			
5,200.0	5,155.3	5,104.5	5,093.8	17.2	9.6	85.59	232.6	902.2	744.2	724.1	20.15	36.937			
5,300.0	5,253.7	5,202.4	5,191.4	17.6	9.9	86.72	232.2	910.9	751.6	731.1	20.48	36.700			
5,400.0	5,352.2	5,300.6	5,289.1	18.1	10.2	87.83	231.9	919.3	759.1	738.2	20.82	36.457			
5,500.0	5,450.6	5,398.2	5,386.4	18.5	10.5	88.82	232.6	928.5	767.1	745.9	21.17	36.234			
5,600.0	5,549.0	5,497.8	5,485.5	18.9	10.8	89.80	233.6	937.9	775.3	753.8	21.53	36.003			
5,700.0	5,647.5	5,601.0	5,588.2	19.4	11.1	90.80	234.6	947.3	783.5	761.5	21.91	35.751			
5,800.0	5,745.9	5,702.4	5,689.3	19.8	11.4	91.78	235.5	955.9	791.3	769.0	22.29	35.495			
5,900.0	5,844.4	5,801.6	5,788.2	20.2	11.7	92.71	236.6	964.2	799.2	776.5	22.67	35.253			
6,000.0	5,942.8	5,901.8	5,888.0	20.6	12.0	93.66	237.5	972.4	807.2	784.1	23.06	35.009			
6,100.0	6,041.2	6,010.5	5,996.5	21.1	12.4	94.77	237.5	980.0	814.7	791.3	23.48	34.696			
6,200.0	6,139.7	6,112.3	6,098.0	21.5	12.7	95.92	236.2	985.4	821.8	797.9	23.89	34.400			
6,300.0	6,238.1	6,216.3	6,201.9	22.0	12.9	97.11	234.6	990.3	828.7	804.4	24.31	34.088			
6,400.0	6,336.5	6,325.0	6,310.6	22.4	13.1	98.43	232.5	993.5	834.7	810.0	24.75	33.731			
6,500.0	6,435.0	6,426.1	6,411.6	22.8	13.3	99.68	230.3	995.7	840.5	815.3	25.17	33.398			
6,600.0	6,533.4	6,526.9	6,512.4	23.3	13.5	100.93	228.2	997.4	846.4	820.8	25.60	33.068			
6,700.0	6,631.9	6,626.8	6,612.2	23.7	13.6	102.14	226.2	998.9	852.4	826.3	26.04	32.737			
6,800.0	6,730.3	6,725.2	6,710.6	24.1	13.8	103.33	224.2	1,000.3	858.6	832.1	26.49	32.414			
6,900.0	6,828.7	6,830.4	6,815.8	24.6	13.9	104.58	222.2	1,001.5	865.0	838.0	26.97	32.070			
7,000.0	6,927.2	6,932.1	6,917.5	25.0	14.0	105.77	220.9	1,002.0	870.9	843.5	27.44	31.735			
7,100.0	7,025.6	7,031.0	7,016.4	25.5	14.1	106.93	219.5	1,002.2	877.0	849.1	27.91	31.425			
7,200.0	7,124.1	7,130.4	7,115.8	25.9	14.1	108.09	218.0	1,002.2	883.4	855.0	28.39	31.116			
7,300.0	7,222.5	7,228.4	7,213.7	26.4	14.2	109.20	216.8	1,002.4	890.1	861.2	28.89	30.811			
7,400.0	7,320.9	7,326.7	7,312.1	26.8	14.2	110.32	215.3	1,002.3	897.1	867.7	29.40	30.517			
7,500.0	7,419.4	7,426.3	7,411.6	27.2	14.3	111.45	213.7	1,002.0	904.4	874.5	29.92	30.224			
7,573.0	7,491.3	7,499.6	7,485.0	27.6	14.2	112.28	212.4	1,001.6	909.8	879.5	30.30	30.030			
7,600.0	7,517.8	7,526.7	7,512.0	27.7	14.2	112.61	212.0	1,001.4	911.8	881.4	30.43	29.963			
7,700.0	7,616.5	7,626.7	7,612.0	28.1	14.2	113.71	210.5	1,000.6	918.9	887.9	30.95	29.689			
7,800.0	7,715.4	7,725.0	7,710.2	28.5	14.2	114.69	209.0	999.7	925.4	894.0	31.45	29.429			
7,900.0	7,814.6	7,823.0	7,808.3	29.0	14.2	115.56	207.3	998.7	931.5	899.5	31.93	29.174			
8,000.0	7,914.0	7,919.0	7,904.3	29.4	14.2	116.30	205.5	997.9	937.2	904.8	32.40	28.929			
8,100.0	8,013.5	8,017.4	8,002.6	29.8	14.2	116.97	203.5	997.2	942.6	909.7	32.86	28.682			
8,200.0	8,113.2	8,119.1	8,104.3	30.1	14.2	117.55	201.3	996.3	947.1	913.8	33.31	28.432			
8,300.0	8,213.1	8,219.8	8,205.0	30.5	14.2	118.04	199.2	995.1	950.7	917.0	33.72	28.197			
8,400.0	8,313.0	8,321.3	8,306.5	30.8	14.2	118.43	197.0	993.7	953.5	919.4	34.09	27.973			
8,500.0	8,412.9	8,424.7	8,409.8	31.1	14.1	118.73	195.0	992.0	955.1	920.7	34.41	27.761			
8,587.1	8,500.0	8,516.6	8,501.6	31.2	14.1	141.87	193.3	990.0	955.6	921.0	34.60	27.615			
8,600.0	8,512.9	8,530.5	8,515.5	31.2	14.1	141.90	193.0	989.6	955.6	920.9	34.62	27.599			
8,700.0	8,612.9	8,634.1	8,619.1	31.3	14.0	142.16	190.8	985.9	955.0	920.2	34.81	27.439			
8,742.0	8,655.0	8,670.0	8,655.0	31.3	14.0	142.26	189.9	984.4	954.8	920.0	34.86	27.394			
8,800.0	8,712.9	8,711.2	8,696.1	31.3	14.0	142.39	188.3	982.9	955.3	920.4	34.90	27.374 SF			
8,900.0	8,812.9	8,758.0	8,742.7	31.3	14.0	142.57	184.8	981.8	959.8	925.0	34.88	27.516			
9,000.0	8,912.9	8,790.0	8,774.3	31.4	14.0	142.76	179.8	981.7	971.1	936.3	34.81	27.898			
9,100.0	9,012.9	8,821.0	8,804.6	31.4	14.1	142.97	173.1	982.2	989.0	954.2	34.74	28.472			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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 @ 3187.6usft

Offset Depths are relative to Offset Datum

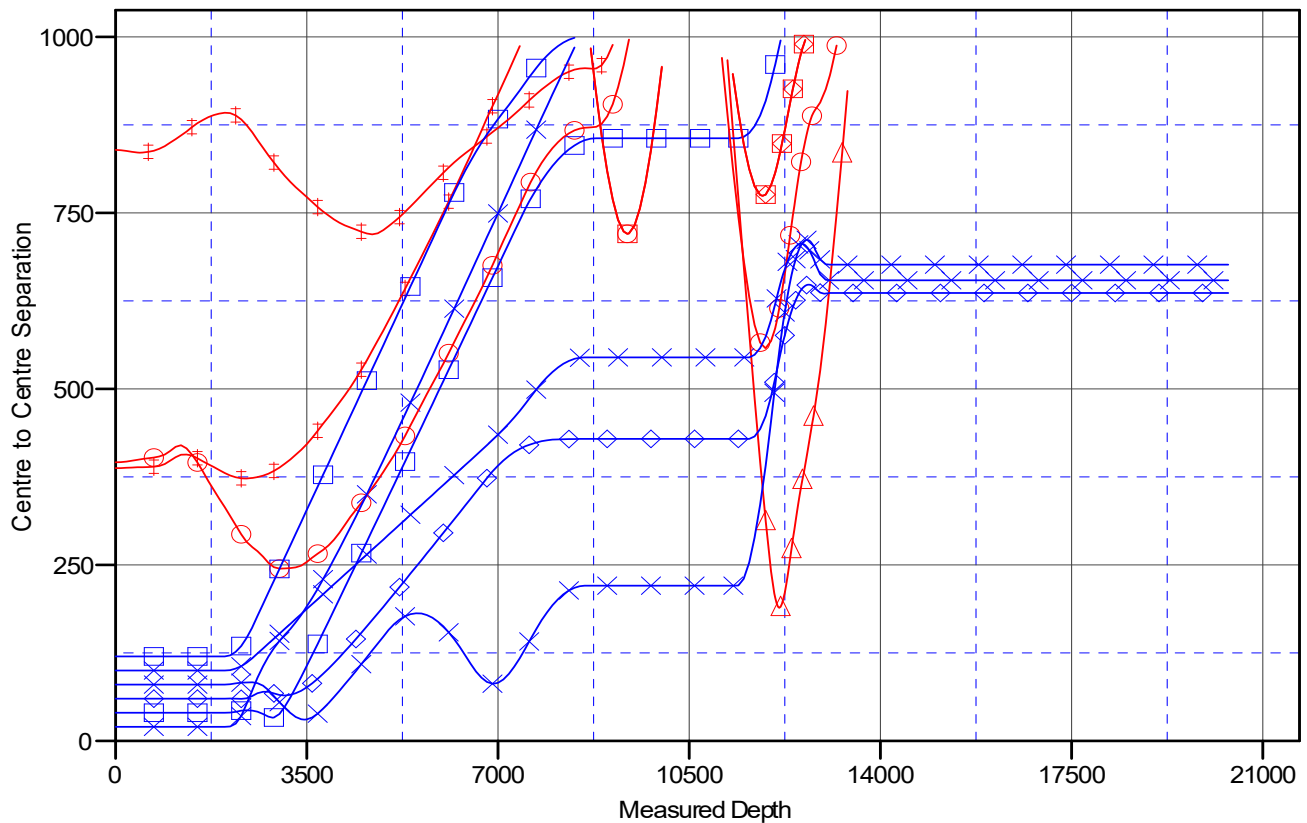
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 801H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

RED HILLS WEST 21 DM FEDERAL COM #1H, OWB, AWP V0	RED HILLS WEST 21 W1DM FEDERAL COM 002H, OWB, AWP V0	RED HILLS WEST 21 W0CN FEDERAL COM 001H, OWB, AWP V0
WILDER 28 AC FEDERAL COM #8H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 701H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 704H OWB, PWP0 V0
WILDER 28 AC FEDERAL COM #4H, OWB, AWP V0	RED HILLS WEST 21 DM FEDERAL COM 1H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 702H OWB, PWP0 V0
RED HILLS WEST 21 W0DM FEDERAL COM #3H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 703H OWB, PWP0 V0
WILDER FEDERAL AC COM #3H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0	RED HILLS WEST 21 W1DM FEDERAL COM 003H, OWB, AWP V0

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 801H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 801H	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 @ 3187.6usft

Offset Depths are relative to Offset Datum

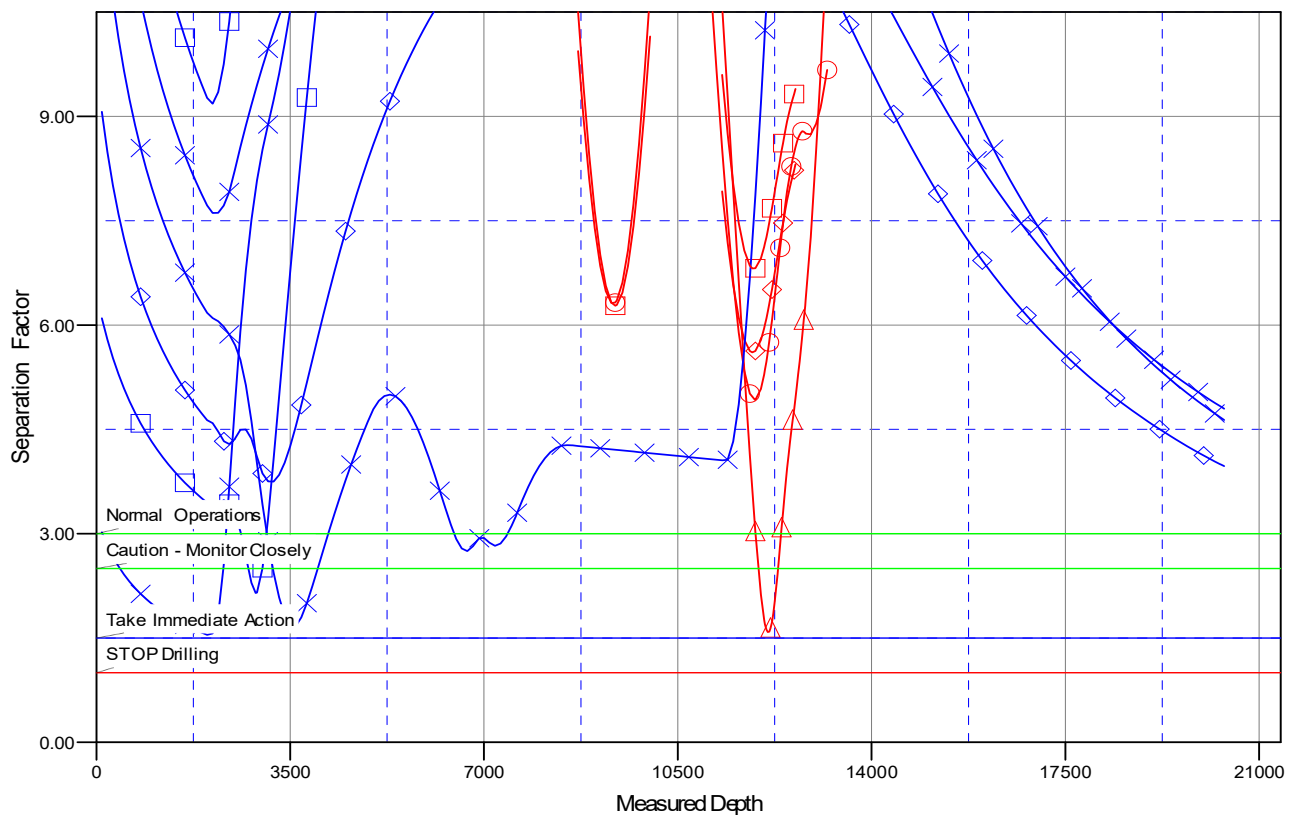
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 801H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

RED HILLS WEST 21 DM FEDERAL COM #1H, OWB, AWP V0	RED HILLS WEST 21 W1DM FEDERAL COM 002H, OWB, AWP V0	RED HILLS WEST 21 W0CN FEDERAL COM 001H, OWB, AWP V0
WILDER 28 AC FEDERAL COM #8H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 701H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 704H OWB, PWP0 V0
WILDER 28 AC FEDERAL COM #4H, OWB, AWP V0	RED HILLS WEST 21 DM FEDERAL COM 1H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 702H OWB, PWP0 V0
RED HILLS WEST 21 W0DM FEDERAL COM #3H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 706H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 703H OWB, PWP0 V0
WILDER FEDERAL AC COM 28 3H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0	RED HILLS WEST 21 W1DM FEDERAL COM 003H, OWB, AWP V0

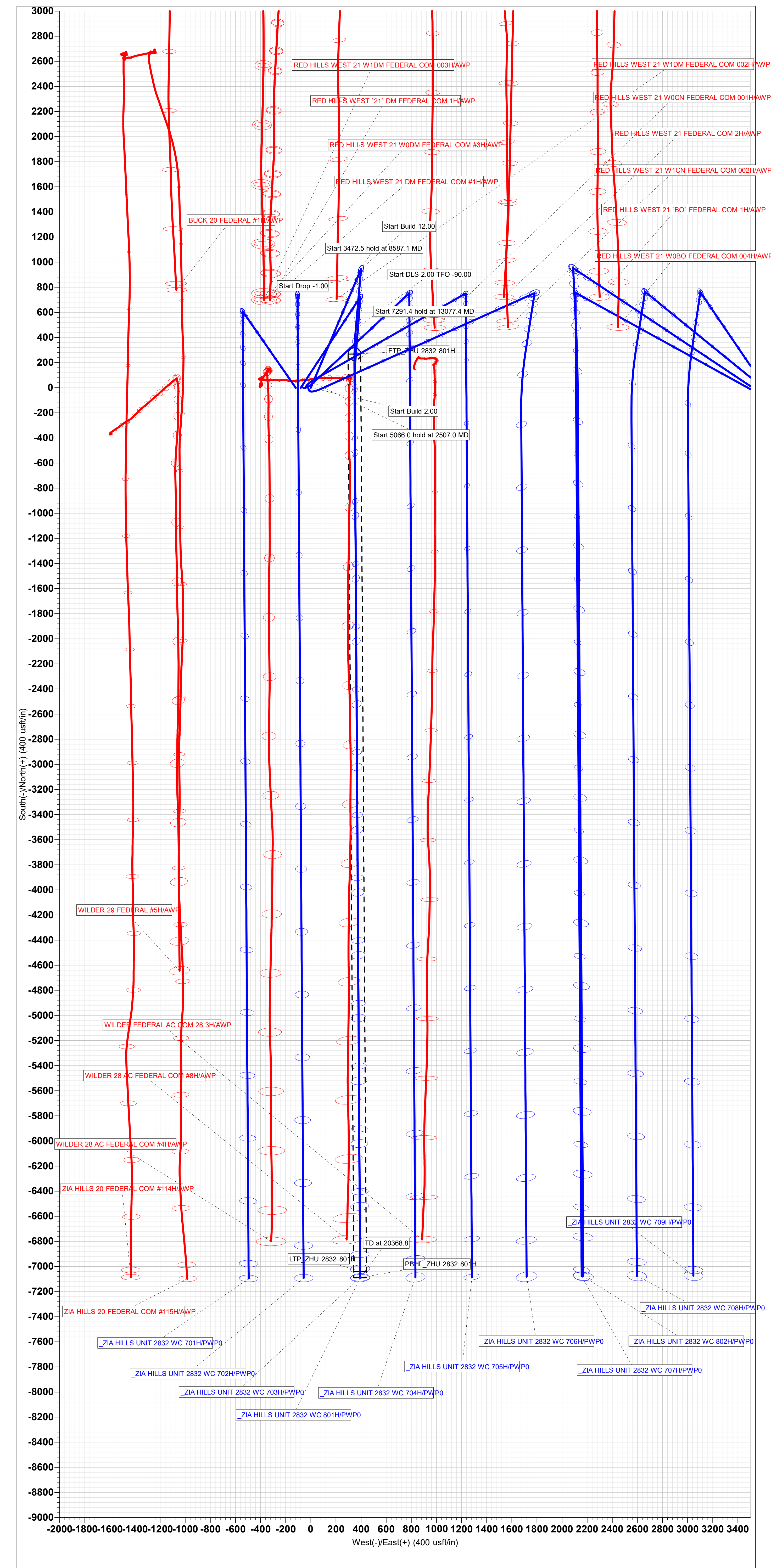
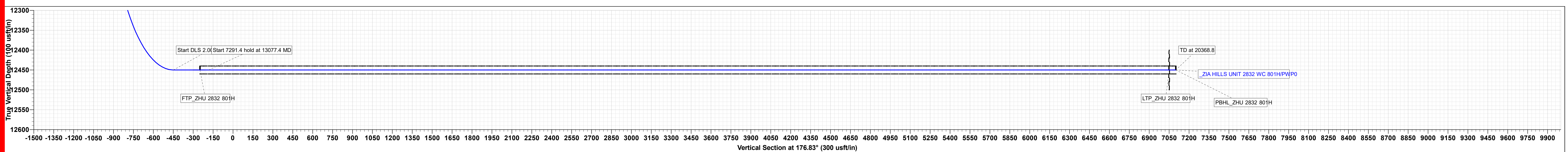
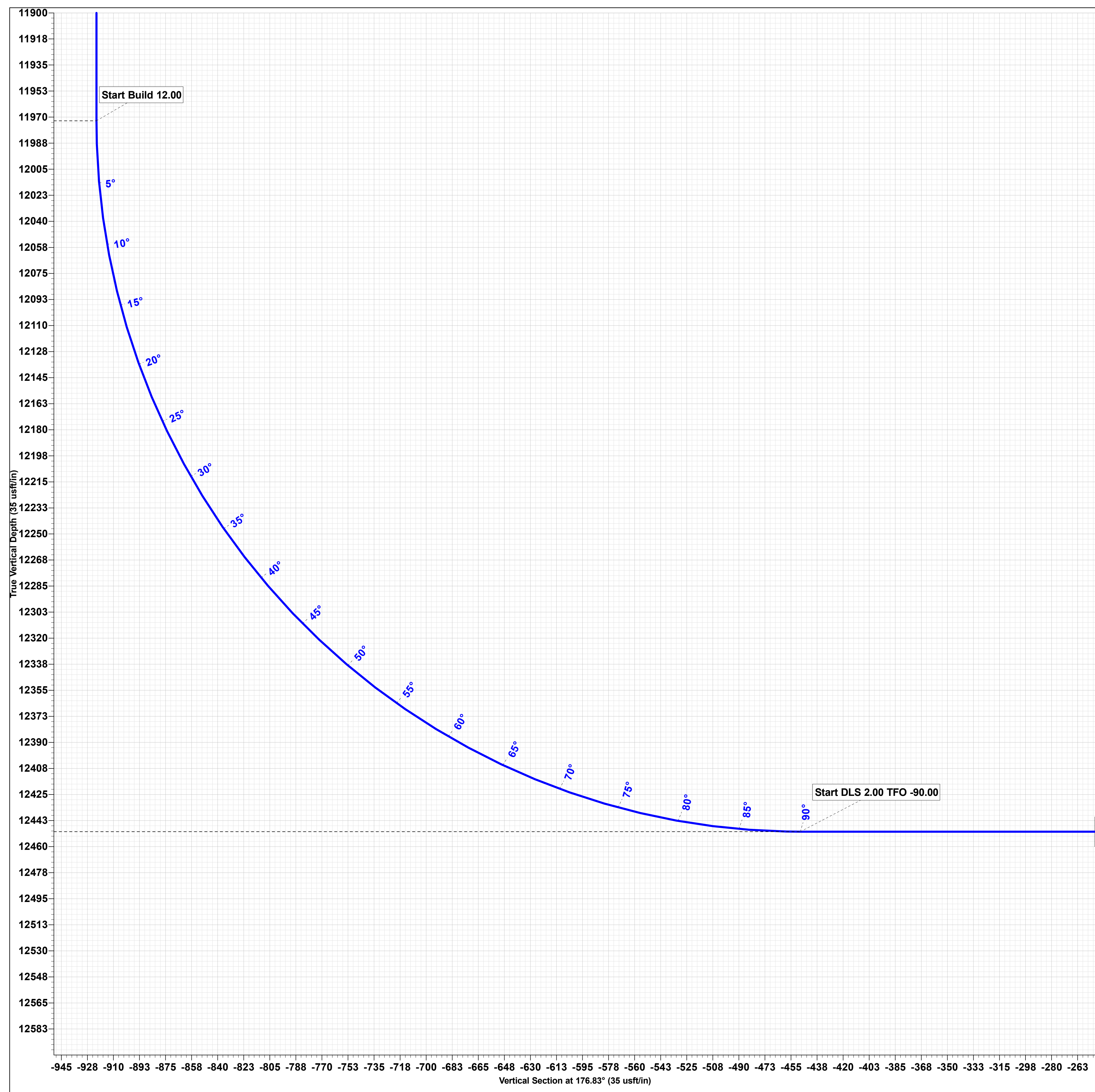
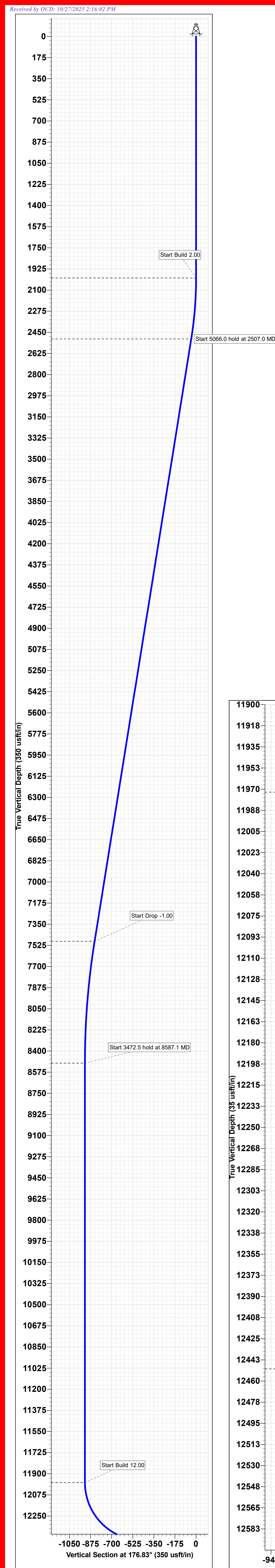
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2832 PROJECT
Well: ZIA HILLS UNIT 2832 WC 801H
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
2507.0	10.14	22.94	2504.4	41.2	17.4	2.00	22.94	-40.2
7573.0	10.14	22.94	7491.3	862.6	365.1	0.00	0.00	-841.0
8587.1	0.00	0.00	8500.0	945.0	400.0	1.00	180.00	-921.4
12059.6	0.00	0.00	11972.5	945.0	400.0	0.00	0.00	-921.4
12809.6	90.00	185.00	12450.0	469.4	358.4	12.00	185.00	-448.8
13077.4	90.00	179.64	12450.0	201.8	347.5	2.00	-90.00	-182.2
20368.8	90.00	179.64	12450.0	-7089.4	393.1	0.00	0.00	7100.3



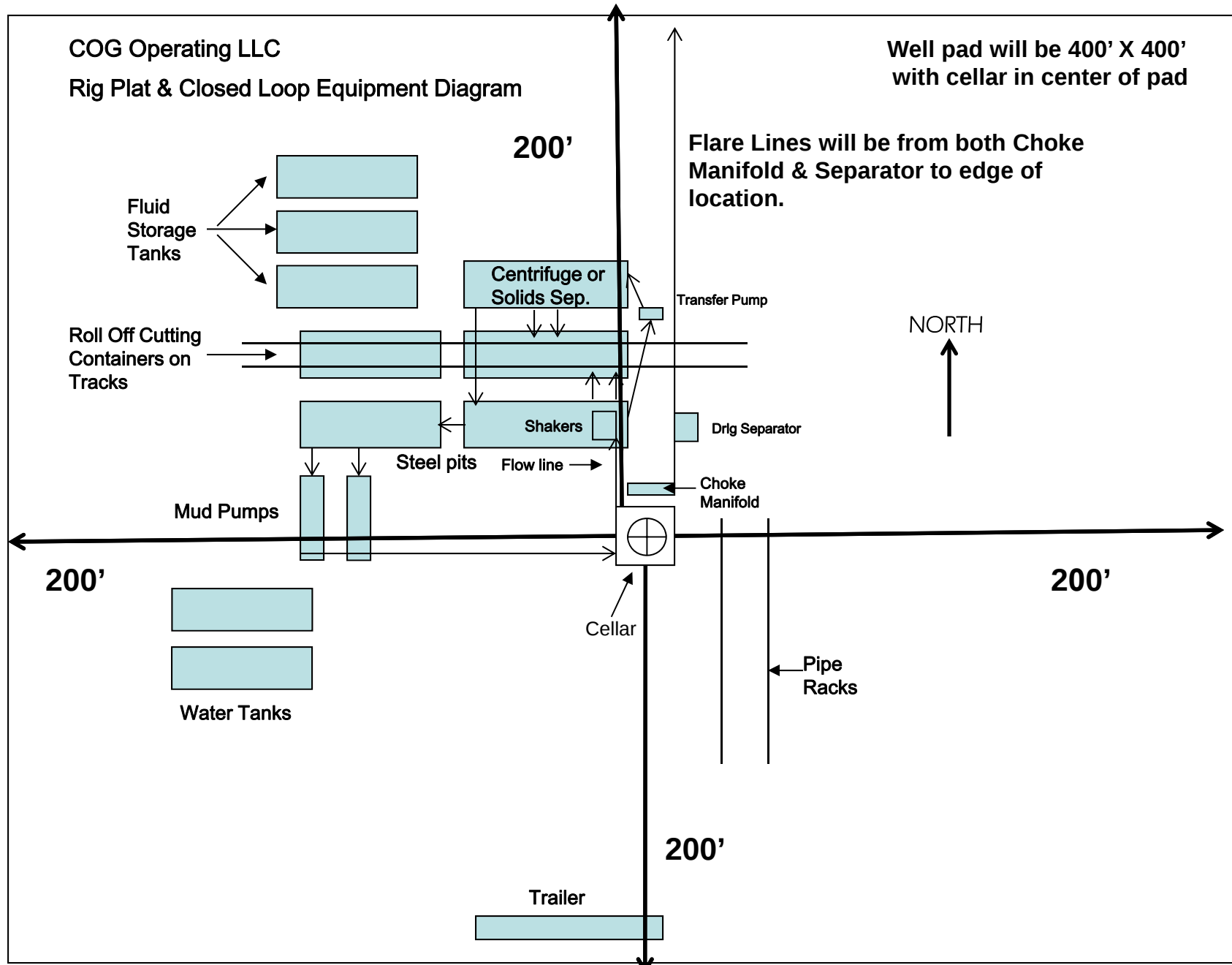


Exhibit 1

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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 01/28/2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2832 WC 701H	30-025-	D-28-26S-32E	366 FNL & 596 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 702H	30-025-	D-28-26S-32E	366 FNL & 616 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 703H	30-025-	D-28-26S-32E	366 FNL & 636 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 704H	30-025-	D-28-26S-32E	366 FNL & 656 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 705H	30-025-	D-28-26S-32E	366 FNL & 676 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 706H	30-025-	D-28-26S-32E	366 FNL & 696 FWL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 801H	30-025-	D-28-26S-32E	366 FNL & 716 FWL	± 742	± 1956	± 1707

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2832 WC	Pending	± 2/1/2026	± 25 days from spud	TBD	TBD	TBD
701H, 702H, 703H, 704H, 705H, 706H, 801H						

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

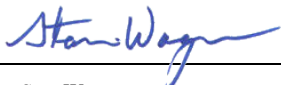
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 04/30/2025
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

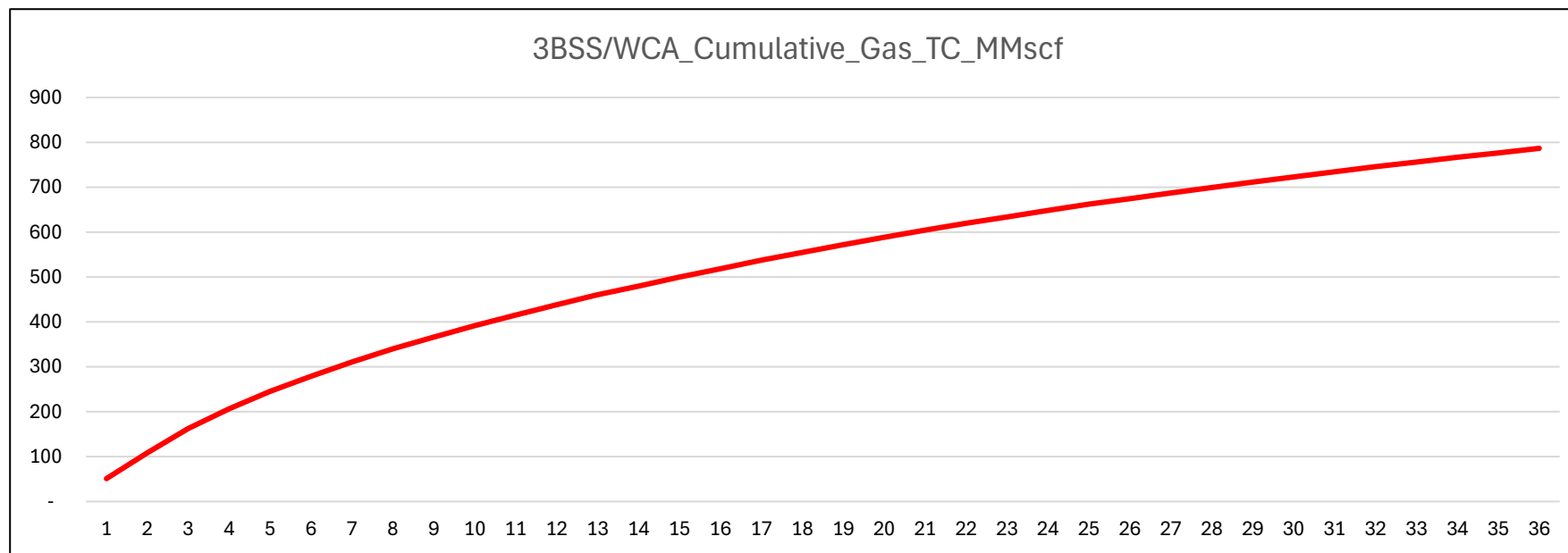
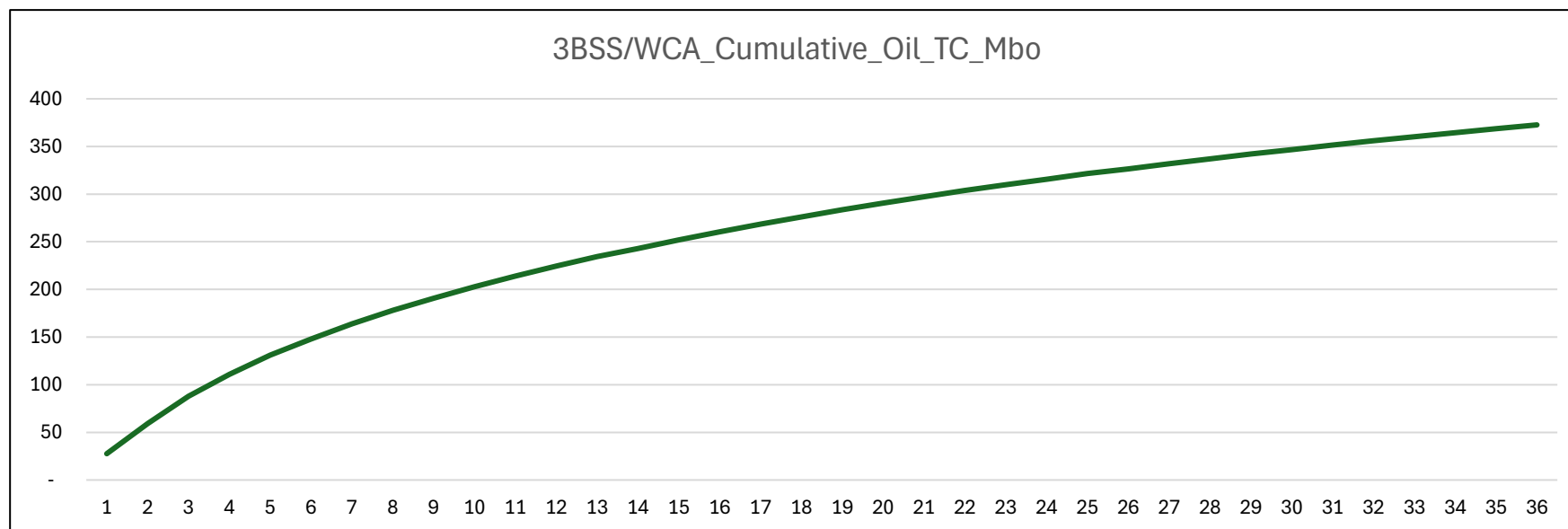
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

Waste Minimization Plan

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

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

Anticipated Production Decline Curve



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2832 WC 801H
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	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **1064 feet Per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2832 WC 801H
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	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **1064 feet Per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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/oed/contact-us>

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

ACKNOWLEDGMENTS

Action 520278

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520278
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

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

Action 520278

CONDITIONS

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