

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. 30-025-55664
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: NENE / 494 FNL / 959 FEL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019505 / LONG: -103.67446 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 730 FEL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020588 / LONG: -103.673718 (TVD: 12066 feet, MD: 12495 feet)

BHL: LOT 1 / 50 FSL / 730 FEL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.000363 / LONG: -103.673752 (TVD: 12066 feet, MD: 19773 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- 55664	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 338328	Property Name ZIA HILLS UNIT 2832 WC	Well Number 711H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,140.50'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL A	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 494' FNL	Ft. from E/W 959' FEL	Latitude 32.019505°	Longitude -103.674460°	County LEA
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Bottom Hole Location

UL LOT 1	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 730' FEL	Latitude 32.000363°	Longitude -103.673752°	County LEA
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Dedicated Acres 898.92	Infill or Defining Well Infill	Defining Well API Pending 710H	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 P	Section 21	Township 26S	Range 32E	Lot	Ft. from N/S 370' FSL	Ft. from E/W 728' FEL	Latitude 32.021879°	Longitude -103.673714°	County LEA
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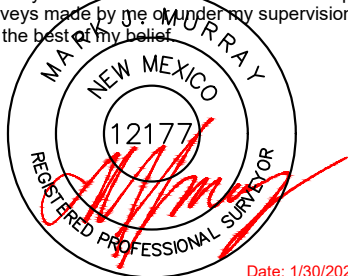
First Take Point (FTP)

UL A	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 730' FEL	Latitude 32.020588°	Longitude -103.673718°	County LEA
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Last Take Point (LTP)

UL LOT 1	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 730' FEL	Latitude 32.000501°	Longitude -103.673752°	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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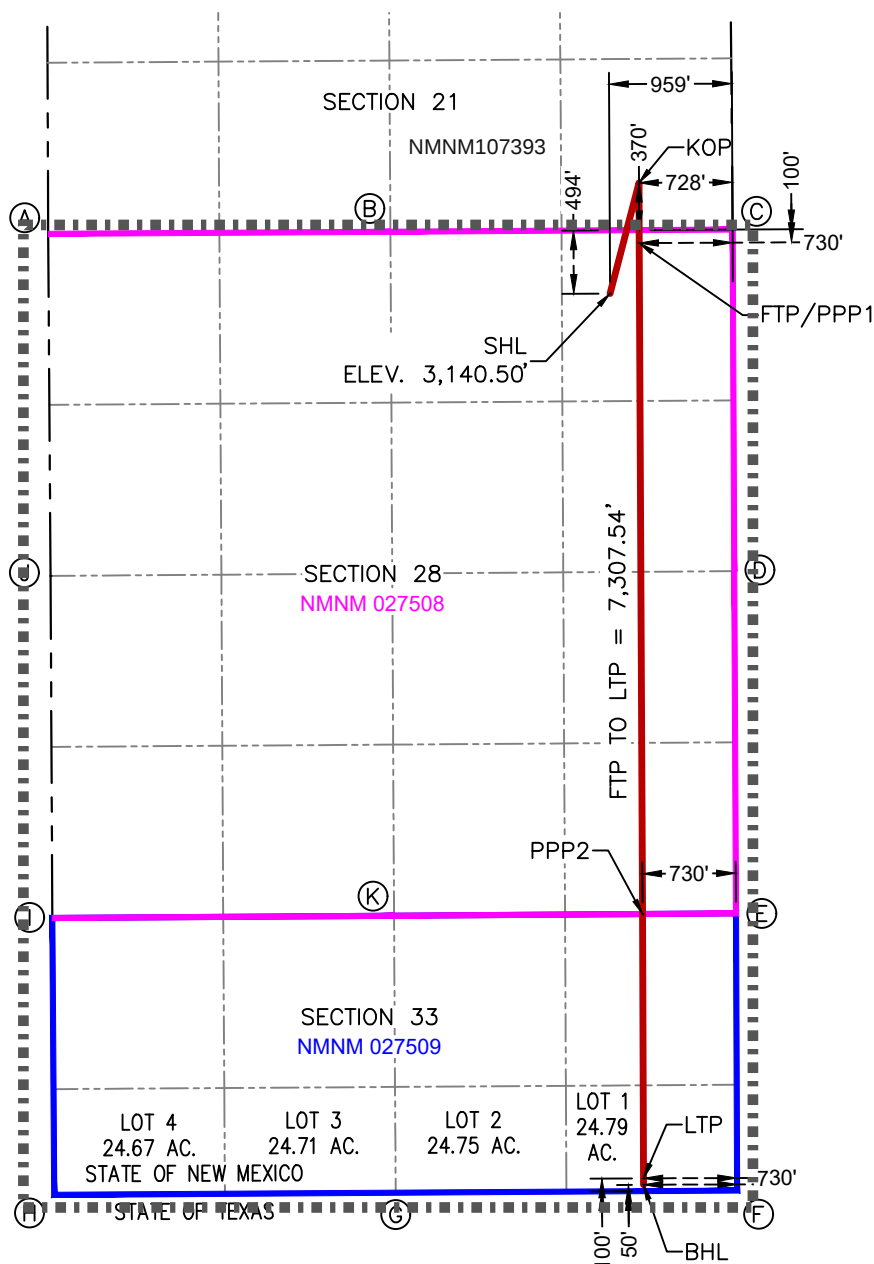
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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 5/12/25	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner	Email Address	Certificate Number 12177	Date of Survey 1/30/2025

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

ACREAGE DEDICATION PLATS

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

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



SURFACE HOLE LOCATION
494' FNL & 959' FEL
ELEV.=3,140.50'

NAD 83 X = 745,539.18'
NAD 83 Y = 371,457.49'
NAD 83 LAT = 32.019505°
NAD 83 LONG = -103.674460°

KICK-OFF POINT
370' FSL & 728' FEL
NAD 83 X = 745,765.12'
NAD 83 Y = 372,322.48'
NAD 83 LAT = 32.021879°
NAD 83 LONG = -103.673714°

FIRST TAKE POINT & PENETRATION POINT 1
100' FNL & 730' FEL
NAD 83 X = 745,766.73'
NAD 83 Y = 371,852.76'
NAD 83 LAT = 32.020588°
NAD 83 LONG = -103.673718°

PENETRATION POINT 2
0' FNL & 730' FEL
NAD 83 X = 745,793.30'
NAD 83 Y = 366,610.39'
NAD 83 LAT = 32.006177°
NAD 83 LONG = -103.673735°

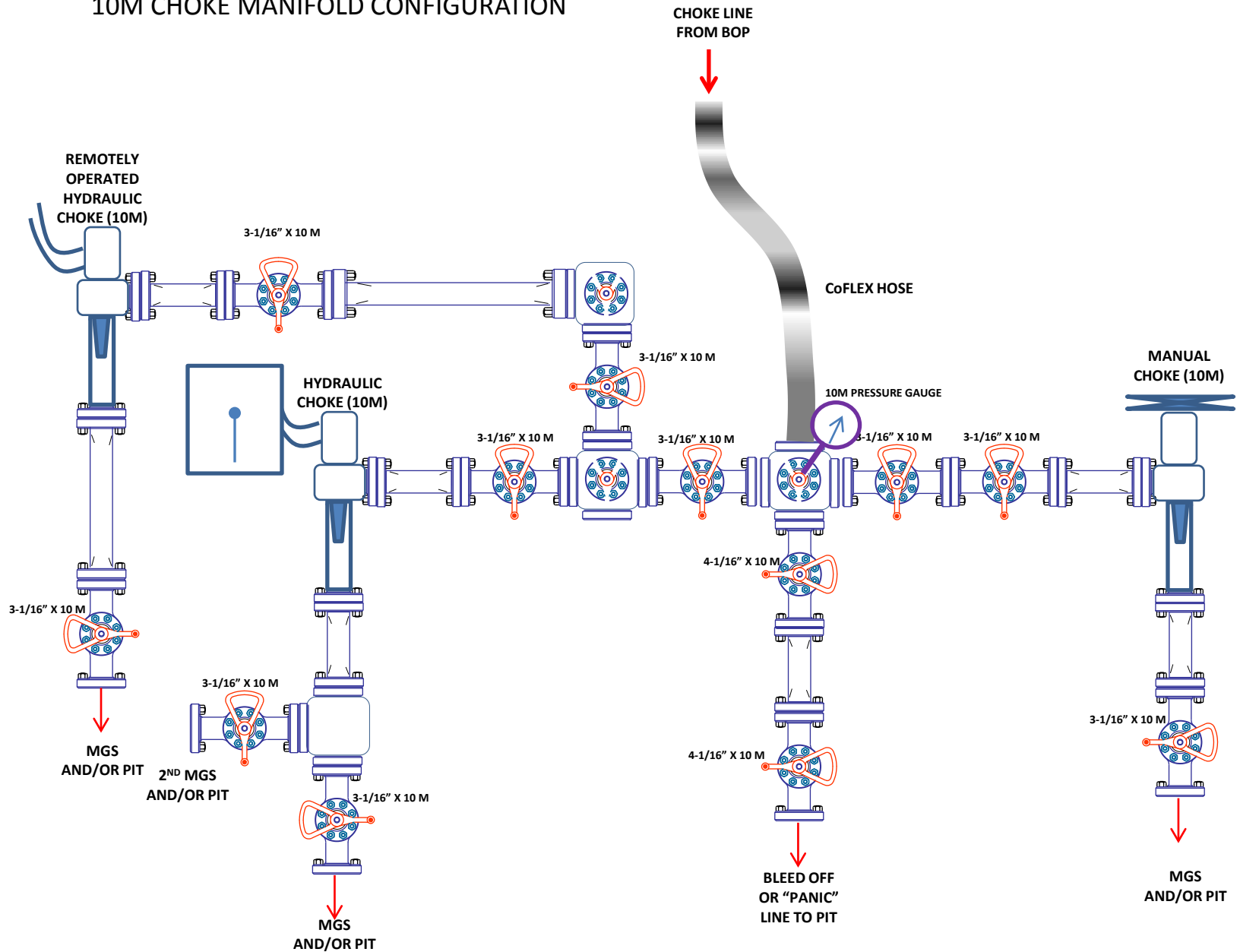
LAST TAKE POINT
100' FSL & 730' FEL
NAD 83 X = 745,800.81'
NAD 83 Y = 364,545.30'
NAD 83 LAT = 32.000501°
NAD 83 LONG = -103.673752°

BOTTOM HOLE LOCATION
50' FSL & 730' FEL
NAD 83 X = 745,800.99'
NAD 83 Y = 364,495.30'
NAD 83 LAT = 32.000363°
NAD 83 LONG = -103.673752°

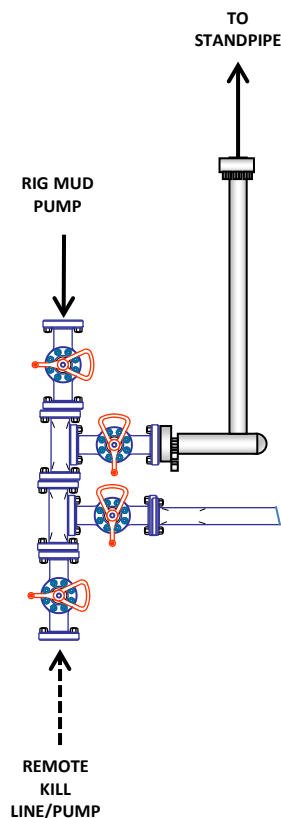
**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

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'		

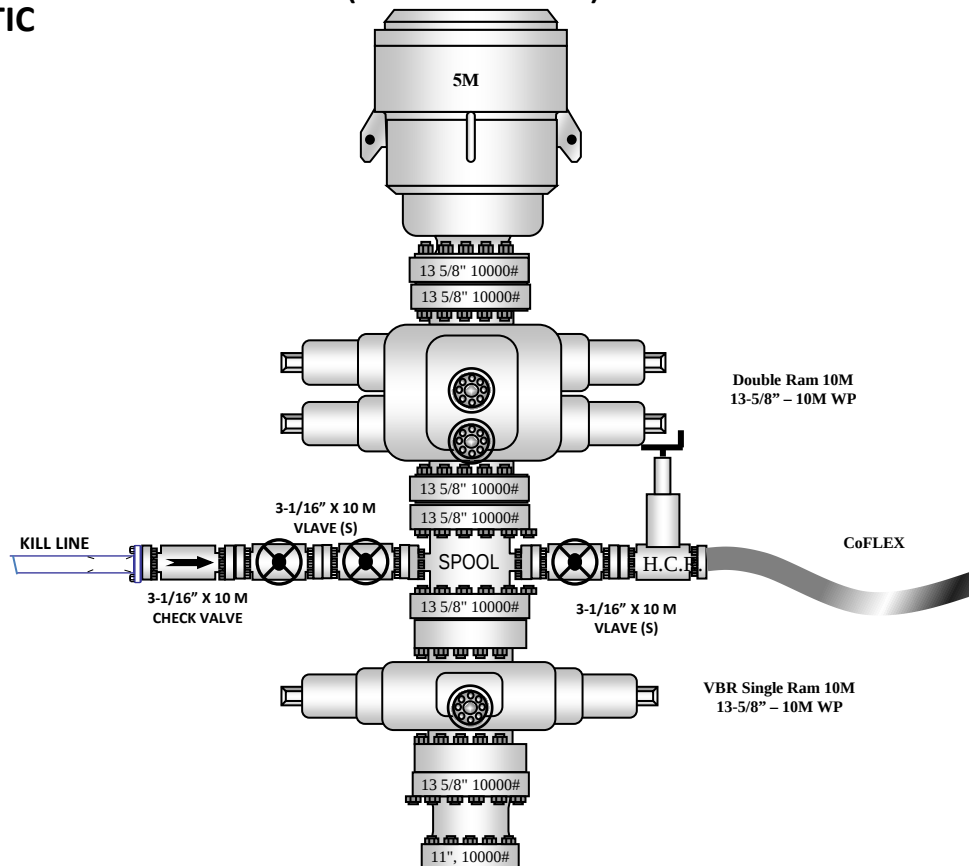
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



ConocoPhillips Company - Zia Hills Unit 2832 WC 711H

1. Geologic Formations

TVD of target	11,837' EOL	Pilot hole depth	NA
MD at TD:	19,565'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	689	Water	
Top of Salt	962	Salt	
Base of Salt	4203	Salt	
Lamar	4423	Salt Water	
Bell Canyon	4443	Salt Water	
Cherry Canyon	5368	Oil/Gas	
Brushy Canyon	6848	Oil/Gas	
Bone Spring	8520	Oil/Gas	
1st Bone Spring Sand	9486	Oil/Gas	
2nd Bone Spring Sand	10161	Oil/Gas	
3rd Bone Spring Sand	11272	Oil/Gas	
Wolfcamp	11649	Target	
Wolfcamp A	11858	Not Penetrated	
Wolfcamp B	12185	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	820	13.375"	54.5	J55	BTC	3.01	1.50	19.09	20.34
12.25"	0	4330	9.625"	40	L80-IC	BTC	1.72	1.30	5.29	5.47
8.75"	4130	11300	7.625"	29.7	P110-ICY	W513	1.25	1.55	3.18	1.91
6.75"	0	11100	5.5"	23	P110-CY	BTC	1.87	2.17	2.86	2.86
6.75"	11100	19,565	5.5"	23	P110-CY	W441	1.75	2.04	2.68	2.43
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 711H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 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 711H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	490	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)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	810	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	640	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	4,130'	20%
Production	10,800'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 711H

4. Pressure Control Equipment

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

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

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

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

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

ConocoPhillips Company - Zia Hills Unit 2832 WC 711H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	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 711H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8310 psi at 11837' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

x	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

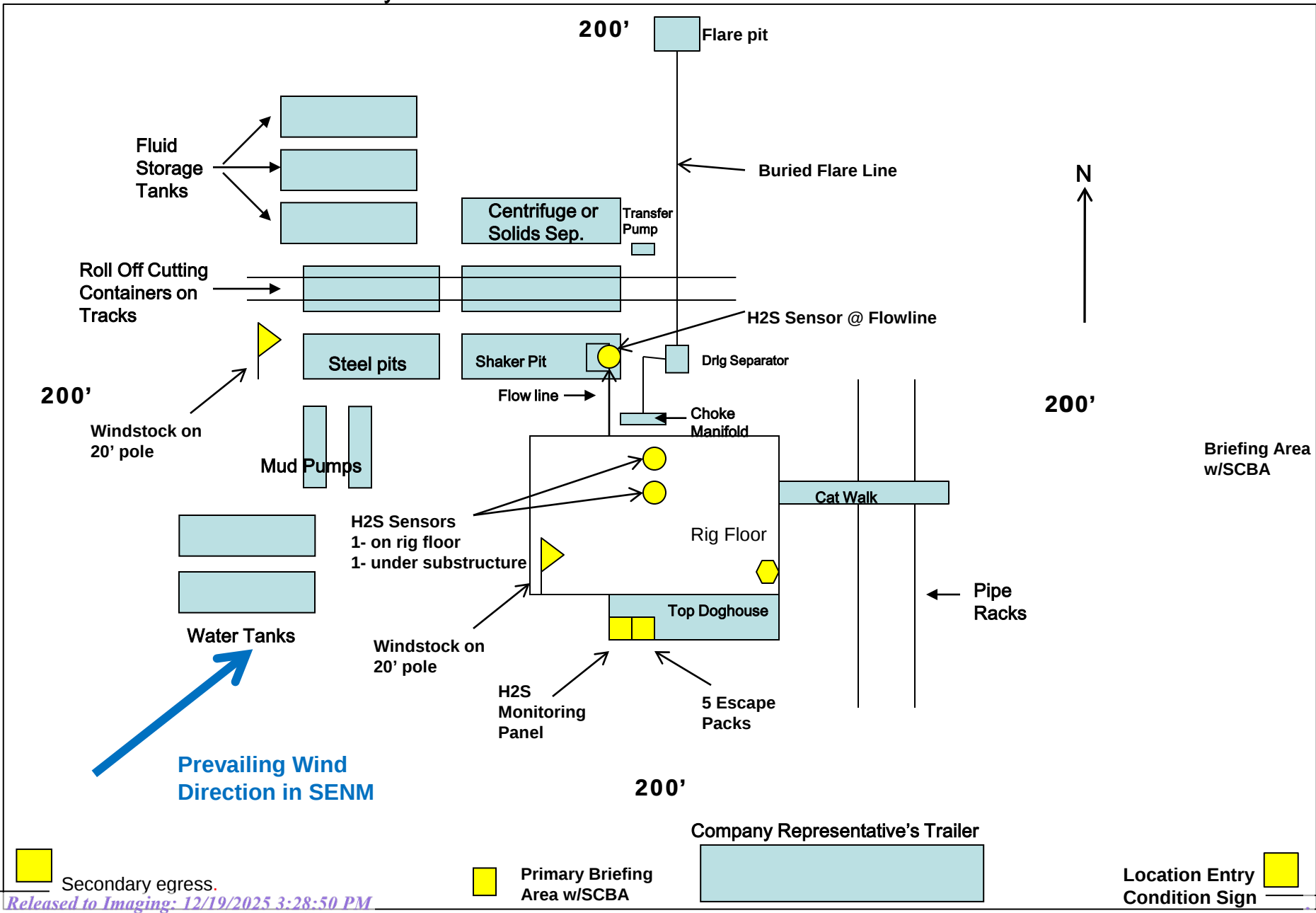
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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

COC Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

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



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 711H

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 711H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3170.5usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3170.5usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	10/16/2024	6.26	59.51	47,132.13991809

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	177.74

Plan Survey Tool Program		Date	2/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,565.2	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	
2,333.3	5.00	30.00	2,332.9	12.6	7.3	1.50	1.50	0.00	30.00	
2,863.2	15.32	13.98	2,853.9	100.8	35.8	2.00	1.95	-3.02	-23.36	
5,074.5	15.32	13.98	4,986.6	667.5	176.9	0.00	0.00	0.00	0.00	
6,606.1	0.00	0.00	6,500.0	865.0	226.0	1.00	-1.00	0.00	180.00	
11,465.6	0.00	0.00	11,359.5	865.0	226.0	0.00	0.00	0.00	0.00	
12,215.6	90.00	179.64	11,837.0	387.5	229.0	12.00	12.00	23.95	179.64	
19,565.2	90.00	179.64	11,837.0	-6,961.9	274.7	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 711H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3170.5usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3170.5usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.50	30.00	2,100.0	1.1	0.7	-1.1	1.50	1.50	0.00
2,200.0	3.00	30.00	2,199.9	4.5	2.6	-4.4	1.50	1.50	0.00
2,300.0	4.50	30.00	2,299.7	10.2	5.9	-10.0	1.50	1.50	0.00
2,333.3	5.00	30.00	2,332.9	12.6	7.3	-12.3	1.50	1.50	0.00
2,400.0	6.25	25.14	2,399.3	18.4	10.3	-18.0	2.00	1.87	-7.30
2,500.0	8.17	20.66	2,498.5	30.0	15.1	-29.3	2.00	1.92	-4.47
2,600.0	10.12	17.89	2,597.2	45.0	20.3	-44.1	2.00	1.95	-2.77
2,700.0	12.09	16.01	2,695.3	63.4	25.9	-62.3	2.00	1.97	-1.88
2,800.0	14.06	14.66	2,792.7	85.2	31.8	-83.9	2.00	1.98	-1.36
2,863.2	15.32	13.98	2,853.9	100.8	35.8	-99.3	2.00	1.98	-1.08
2,900.0	15.32	13.98	2,889.3	110.2	38.1	-108.6	0.00	0.00	0.00
3,000.0	15.32	13.98	2,985.8	135.8	44.5	-133.9	0.00	0.00	0.00
3,100.0	15.32	13.98	3,082.2	161.4	50.9	-159.3	0.00	0.00	0.00
3,200.0	15.32	13.98	3,178.7	187.1	57.3	-184.7	0.00	0.00	0.00
3,300.0	15.32	13.98	3,275.1	212.7	63.7	-210.0	0.00	0.00	0.00
3,400.0	15.32	13.98	3,371.6	238.3	70.0	-235.4	0.00	0.00	0.00
3,500.0	15.32	13.98	3,468.0	264.0	76.4	-260.7	0.00	0.00	0.00
3,600.0	15.32	13.98	3,564.5	289.6	82.8	-286.1	0.00	0.00	0.00
3,700.0	15.32	13.98	3,660.9	315.2	89.2	-311.5	0.00	0.00	0.00
3,800.0	15.32	13.98	3,757.4	340.9	95.6	-336.8	0.00	0.00	0.00
3,900.0	15.32	13.98	3,853.8	366.5	101.9	-362.2	0.00	0.00	0.00
4,000.0	15.32	13.98	3,950.3	392.1	108.3	-387.5	0.00	0.00	0.00
4,100.0	15.32	13.98	4,046.7	417.8	114.7	-412.9	0.00	0.00	0.00
4,200.0	15.32	13.98	4,143.2	443.4	121.1	-438.3	0.00	0.00	0.00
4,300.0	15.32	13.98	4,239.6	469.0	127.5	-463.6	0.00	0.00	0.00
4,400.0	15.32	13.98	4,336.1	494.7	133.8	-489.0	0.00	0.00	0.00
4,500.0	15.32	13.98	4,432.5	520.3	140.2	-514.4	0.00	0.00	0.00
4,600.0	15.32	13.98	4,529.0	545.9	146.6	-539.7	0.00	0.00	0.00
4,700.0	15.32	13.98	4,625.4	571.5	153.0	-565.1	0.00	0.00	0.00
4,800.0	15.32	13.98	4,721.9	597.2	159.3	-590.4	0.00	0.00	0.00
4,900.0	15.32	13.98	4,818.3	622.8	165.7	-615.8	0.00	0.00	0.00
5,000.0	15.32	13.98	4,914.8	648.4	172.1	-641.2	0.00	0.00	0.00
5,074.5	15.32	13.98	4,986.6	667.5	176.9	-660.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 711H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3170.5usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3170.5usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	15.06	13.98	5,011.2	674.0	178.5	-666.5	1.00	-1.00	0.00	
5,200.0	14.06	13.98	5,108.0	698.4	184.5	-690.6	1.00	-1.00	0.00	
5,300.0	13.06	13.98	5,205.2	721.2	190.2	-713.1	1.00	-1.00	0.00	
5,400.0	12.06	13.98	5,302.8	742.3	195.5	-734.0	1.00	-1.00	0.00	
5,500.0	11.06	13.98	5,400.8	761.7	200.3	-753.2	1.00	-1.00	0.00	
5,600.0	10.06	13.98	5,499.1	779.5	204.7	-770.8	1.00	-1.00	0.00	
5,700.0	9.06	13.98	5,597.7	795.6	208.7	-786.8	1.00	-1.00	0.00	
5,800.0	8.06	13.98	5,696.6	810.1	212.3	-801.1	1.00	-1.00	0.00	
5,900.0	7.06	13.98	5,795.7	822.8	215.5	-813.7	1.00	-1.00	0.00	
6,000.0	6.06	13.98	5,895.1	833.9	218.3	-824.7	1.00	-1.00	0.00	
6,100.0	5.06	13.98	5,994.6	843.3	220.6	-834.0	1.00	-1.00	0.00	
6,200.0	4.06	13.98	6,094.3	851.0	222.5	-841.6	1.00	-1.00	0.00	
6,300.0	3.06	13.98	6,194.1	857.1	224.0	-847.6	1.00	-1.00	0.00	
6,400.0	2.06	13.98	6,294.0	861.4	225.1	-851.9	1.00	-1.00	0.00	
6,500.0	1.06	13.98	6,393.9	864.0	225.8	-854.5	1.00	-1.00	0.00	
6,600.0	0.06	13.98	6,493.9	865.0	226.0	-855.4	1.00	-1.00	0.00	
6,606.1	0.00	0.00	6,500.0	865.0	226.0	-855.4	1.00	-1.00	0.00	
6,700.0	0.00	0.00	6,593.9	865.0	226.0	-855.4	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,693.9	865.0	226.0	-855.4	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,793.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,893.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,993.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,093.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,193.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,293.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,393.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,493.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,593.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,693.9	865.0	226.0	-855.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,793.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,893.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,993.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,093.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,193.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,293.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,393.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,493.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,593.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,693.9	865.0	226.0	-855.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,793.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,893.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,993.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,093.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,193.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,293.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,393.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,493.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,593.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,693.9	865.0	226.0	-855.4	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,793.9	865.0	226.0	-855.4	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,893.9	865.0	226.0	-855.4	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,993.9	865.0	226.0	-855.4	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,093.9	865.0	226.0	-855.4	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,193.9	865.0	226.0	-855.4	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 711H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3170.5usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3170.5usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,400.0	0.00	0.00	10,293.9	865.0	226.0	-855.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,393.9	865.0	226.0	-855.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,493.9	865.0	226.0	-855.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,593.9	865.0	226.0	-855.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,693.9	865.0	226.0	-855.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,793.9	865.0	226.0	-855.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,893.9	865.0	226.0	-855.4	0.00	0.00	0.00
11,100.0	0.00	0.00	10,993.9	865.0	226.0	-855.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,093.9	865.0	226.0	-855.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,193.9	865.0	226.0	-855.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,293.9	865.0	226.0	-855.4	0.00	0.00	0.00
11,465.6	0.00	0.00	11,359.5	865.0	226.0	-855.4	0.00	0.00	0.00
11,500.0	4.13	179.64	11,393.9	863.8	226.0	-854.2	12.00	12.00	0.00
11,600.0	16.13	179.64	11,492.2	846.2	226.1	-836.6	12.00	12.00	0.00
11,700.0	28.13	179.64	11,584.6	808.6	226.4	-799.0	12.00	12.00	0.00
11,800.0	40.13	179.64	11,667.3	752.6	226.7	-743.1	12.00	12.00	0.00
11,900.0	52.13	179.64	11,736.4	680.6	227.1	-671.1	12.00	12.00	0.00
12,000.0	64.13	179.64	11,789.1	595.9	227.7	-586.4	12.00	12.00	0.00
12,100.0	76.13	179.64	11,823.0	502.0	228.3	-492.6	12.00	12.00	0.00
12,200.0	88.13	179.64	11,836.7	403.1	228.9	-393.8	12.00	12.00	0.00
12,215.6	90.00	179.64	11,837.0	387.5	229.0	-378.2	12.00	12.00	0.00
12,300.0	90.00	179.64	11,837.0	303.1	229.5	-293.8	0.00	0.00	0.00
12,400.0	90.00	179.64	11,837.0	203.1	230.1	-193.9	0.00	0.00	0.00
12,500.0	90.00	179.64	11,837.0	103.1	230.7	-93.9	0.00	0.00	0.00
12,600.0	90.00	179.64	11,837.0	3.1	231.4	6.0	0.00	0.00	0.00
12,700.0	90.00	179.64	11,837.0	-96.9	232.0	106.0	0.00	0.00	0.00
12,800.0	90.00	179.64	11,837.0	-196.9	232.6	205.9	0.00	0.00	0.00
12,900.0	90.00	179.64	11,837.0	-296.9	233.2	305.8	0.00	0.00	0.00
13,000.0	90.00	179.64	11,837.0	-396.9	233.9	405.8	0.00	0.00	0.00
13,100.0	90.00	179.64	11,837.0	-496.9	234.5	505.7	0.00	0.00	0.00
13,200.0	90.00	179.64	11,837.0	-596.9	235.1	605.7	0.00	0.00	0.00
13,300.0	90.00	179.64	11,837.0	-696.9	235.7	705.6	0.00	0.00	0.00
13,400.0	90.00	179.64	11,837.0	-796.9	236.3	805.6	0.00	0.00	0.00
13,500.0	90.00	179.64	11,837.0	-896.9	237.0	905.5	0.00	0.00	0.00
13,600.0	90.00	179.64	11,837.0	-996.9	237.6	1,005.5	0.00	0.00	0.00
13,700.0	90.00	179.64	11,837.0	-1,096.9	238.2	1,105.4	0.00	0.00	0.00
13,800.0	90.00	179.64	11,837.0	-1,196.9	238.8	1,205.3	0.00	0.00	0.00
13,900.0	90.00	179.64	11,837.0	-1,296.9	239.5	1,305.3	0.00	0.00	0.00
14,000.0	90.00	179.64	11,837.0	-1,396.9	240.1	1,405.2	0.00	0.00	0.00
14,100.0	90.00	179.64	11,837.0	-1,496.9	240.7	1,505.2	0.00	0.00	0.00
14,200.0	90.00	179.64	11,837.0	-1,596.9	241.3	1,605.1	0.00	0.00	0.00
14,300.0	90.00	179.64	11,837.0	-1,696.9	241.9	1,705.1	0.00	0.00	0.00
14,400.0	90.00	179.64	11,837.0	-1,796.9	242.6	1,805.0	0.00	0.00	0.00
14,500.0	90.00	179.64	11,837.0	-1,896.8	243.2	1,905.0	0.00	0.00	0.00
14,600.0	90.00	179.64	11,837.0	-1,996.8	243.8	2,004.9	0.00	0.00	0.00
14,700.0	90.00	179.64	11,837.0	-2,096.8	244.4	2,104.9	0.00	0.00	0.00
14,800.0	90.00	179.64	11,837.0	-2,196.8	245.1	2,204.8	0.00	0.00	0.00
14,900.0	90.00	179.64	11,837.0	-2,296.8	245.7	2,304.7	0.00	0.00	0.00
15,000.0	90.00	179.64	11,837.0	-2,396.8	246.3	2,404.7	0.00	0.00	0.00
15,100.0	90.00	179.64	11,837.0	-2,496.8	246.9	2,504.6	0.00	0.00	0.00
15,200.0	90.00	179.64	11,837.0	-2,596.8	247.5	2,604.6	0.00	0.00	0.00
15,300.0	90.00	179.64	11,837.0	-2,696.8	248.2	2,704.5	0.00	0.00	0.00
15,400.0	90.00	179.64	11,837.0	-2,796.8	248.8	2,804.5	0.00	0.00	0.00
15,500.0	90.00	179.64	11,837.0	-2,896.8	249.4	2,904.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 711H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3170.5usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3170.5usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,600.0	90.00	179.64	11,837.0	-2,996.8	250.0	3,004.4	0.00	0.00	0.00	
15,700.0	90.00	179.64	11,837.0	-3,096.8	250.7	3,104.3	0.00	0.00	0.00	
15,800.0	90.00	179.64	11,837.0	-3,196.8	251.3	3,204.2	0.00	0.00	0.00	
15,900.0	90.00	179.64	11,837.0	-3,296.8	251.9	3,304.2	0.00	0.00	0.00	
16,000.0	90.00	179.64	11,837.0	-3,396.8	252.5	3,404.1	0.00	0.00	0.00	
16,100.0	90.00	179.64	11,837.0	-3,496.8	253.1	3,504.1	0.00	0.00	0.00	
16,200.0	90.00	179.64	11,837.0	-3,596.8	253.8	3,604.0	0.00	0.00	0.00	
16,300.0	90.00	179.64	11,837.0	-3,696.8	254.4	3,704.0	0.00	0.00	0.00	
16,400.0	90.00	179.64	11,837.0	-3,796.8	255.0	3,803.9	0.00	0.00	0.00	
16,500.0	90.00	179.64	11,837.0	-3,896.8	255.6	3,903.9	0.00	0.00	0.00	
16,600.0	90.00	179.64	11,837.0	-3,996.8	256.3	4,003.8	0.00	0.00	0.00	
16,700.0	90.00	179.64	11,837.0	-4,096.8	256.9	4,103.7	0.00	0.00	0.00	
16,800.0	90.00	179.64	11,837.0	-4,196.8	257.5	4,203.7	0.00	0.00	0.00	
16,900.0	90.00	179.64	11,837.0	-4,296.8	258.1	4,303.6	0.00	0.00	0.00	
17,000.0	90.00	179.64	11,837.0	-4,396.8	258.7	4,403.6	0.00	0.00	0.00	
17,100.0	90.00	179.64	11,837.0	-4,496.8	259.4	4,503.5	0.00	0.00	0.00	
17,200.0	90.00	179.64	11,837.0	-4,596.8	260.0	4,603.5	0.00	0.00	0.00	
17,300.0	90.00	179.64	11,837.0	-4,696.8	260.6	4,703.4	0.00	0.00	0.00	
17,400.0	90.00	179.64	11,837.0	-4,796.8	261.2	4,803.4	0.00	0.00	0.00	
17,500.0	90.00	179.64	11,837.0	-4,896.8	261.9	4,903.3	0.00	0.00	0.00	
17,600.0	90.00	179.64	11,837.0	-4,996.8	262.5	5,003.3	0.00	0.00	0.00	
17,700.0	90.00	179.64	11,837.0	-5,096.8	263.1	5,103.2	0.00	0.00	0.00	
17,800.0	90.00	179.64	11,837.0	-5,196.8	263.7	5,203.1	0.00	0.00	0.00	
17,900.0	90.00	179.64	11,837.0	-5,296.8	264.3	5,303.1	0.00	0.00	0.00	
18,000.0	90.00	179.64	11,837.0	-5,396.8	265.0	5,403.0	0.00	0.00	0.00	
18,100.0	90.00	179.64	11,837.0	-5,496.8	265.6	5,503.0	0.00	0.00	0.00	
18,200.0	90.00	179.64	11,837.0	-5,596.8	266.2	5,602.9	0.00	0.00	0.00	
18,300.0	90.00	179.64	11,837.0	-5,696.8	266.8	5,702.9	0.00	0.00	0.00	
18,400.0	90.00	179.64	11,837.0	-5,796.8	267.5	5,802.8	0.00	0.00	0.00	
18,500.0	90.00	179.64	11,837.0	-5,896.8	268.1	5,902.8	0.00	0.00	0.00	
18,600.0	90.00	179.64	11,837.0	-5,996.8	268.7	6,002.7	0.00	0.00	0.00	
18,700.0	90.00	179.64	11,837.0	-6,096.8	269.3	6,102.6	0.00	0.00	0.00	
18,800.0	90.00	179.64	11,837.0	-6,196.8	269.9	6,202.6	0.00	0.00	0.00	
18,900.0	90.00	179.64	11,837.0	-6,296.8	270.6	6,302.5	0.00	0.00	0.00	
19,000.0	90.00	179.64	11,837.0	-6,396.8	271.2	6,402.5	0.00	0.00	0.00	
19,100.0	90.00	179.64	11,837.0	-6,496.8	271.8	6,502.4	0.00	0.00	0.00	
19,200.0	90.00	179.64	11,837.0	-6,596.8	272.4	6,602.4	0.00	0.00	0.00	
19,300.0	90.00	179.64	11,837.0	-6,696.8	273.1	6,702.3	0.00	0.00	0.00	
19,400.0	90.00	179.64	11,837.0	-6,796.8	273.7	6,802.3	0.00	0.00	0.00	
19,500.0	90.00	179.64	11,837.0	-6,896.8	274.3	6,902.2	0.00	0.00	0.00	
19,565.2	90.00	179.64	11,837.0	-6,961.9	274.7	6,967.3	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 711H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3170.5usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3170.5usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

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)		
FTP_ZHU 2832 711H	0.00	0.00	11,837.0	395.1	229.1	371,795.58	704,580.95	32° 1' 13.665 N	103° 40' 23.676 W
- plan misses target center by 0.2usft at 12208.0usft MD (11836.9 TVD, 395.1 N, 228.9 E)									
- Circle (radius 50.0)									
PBHL_ZHU 2832 711H	0.00	359.64	11,837.0	-6,961.9	274.7	364,438.50	704,626.53	32° 0' 0.856 N	103° 40' 23.668 W
- plan hits target center									
- Rectangle (sides W100.0 H7,357.7 D20.0)									
LTP_ZHU 2832 711H	90.00	0.00	11,837.0	-6,911.9	274.7	364,488.50	704,626.53	32° 0' 1.351 N	103° 40' 23.665 W
- plan misses target center by 15.2usft at 19500.0usft MD (11837.0 TVD, -6896.8 N, 274.3 E)									
- Circle (radius 50.0)									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	19,565.2	11,837.0	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 711H

OWB

PWP0

Anticollision Report

22 April, 2025

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

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

Survey Tool Program	Date	4/22/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,565.2	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary						
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Site Name Offset Well - Wellbore - Design						
BATTLE AXE 27 FEDERAL COM 16H - JC						
BATTLE AXE 27 FEDERAL COM 16H - JC - Original Hol						Out of range
BATTLE AXE 27 FEDERAL COM 17H - JC						
BATTLE AXE 27 FEDERAL COM 17H - JC - Original Hol	19,529.3	19,108.2	932.6	525.9	2.293	Caution - Monitor Closely, CC
BATTLE AXE 27 FEDERAL COM 17H - JC - Original Hol	19,565.2	19,108.2	933.3	525.7	2.290	Caution - Monitor Closely, ES, SF
BATTLE AXE 27 FEDERAL COM 18H - JC						
BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hol	12,352.4	11,895.1	712.4	647.9	11.043	CC
BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hol	19,528.5	19,184.8	750.0	596.1	4.872	ES, SF
Mewbourne - Red Hills West 22 Fed Com 001H						
Red Hills West 22 Fed Com 001H - Original Hole - Origin						Out of range
Mewbourne - Red Hills West 22 W0DM Com 004H						
Red Hills West 22 W0DM Com 004H - Original Hole - Or						Out of range
Mewbourne - Red Hills West 22 W1DM Fed Com 003H						
Red Hills West 22 W1DM Fed Com 003H - Original Hole						Out of range
Mewbourne - Red Hills West 22 W1DM Fed Com 004C						
Red Hills West 22 W1DM Fed Com 004C - Original Hole						Out of range

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	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 705H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0	2,000.0	1,998.5	79.9	67.7	6.541 CC, ES	
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0	2,100.0	2,096.6	81.0	68.5	6.470 SF	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	1,966.5	1,967.0	59.9	47.8	4.945 CC	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	2,000.0	2,000.5	59.9	47.7	4.906 ES	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	2,200.0	2,199.4	61.3	48.5	4.794 SF	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	1,966.6	1,966.9	40.0	27.9	3.300 CC	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	2,100.0	2,100.1	40.1	27.6	3.209 ES	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	2,300.0	2,299.7	41.0	28.0	3.145 SF	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,119.8	2,119.8	19.9	7.4	1.586 Caution - Monitor Closely, CC, ES	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,200.0	2,199.9	20.2	7.4	1.580 Caution - Monitor Closely, SF	
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	1,866.5	1,867.0	20.0	8.2	1.690 Caution - Monitor Closely, CC	
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	1,900.0	1,900.5	20.0	8.1	1.676 Caution - Monitor Closely, ES	
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	2,000.0	2,000.4	20.3	8.1	1.661 Caution - Monitor Closely, SF	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	1,965.8	1,968.3	100.0	87.8	8.245 CC	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	2,000.0	2,002.4	100.0	87.7	8.178 ES	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	2,100.0	2,100.0	101.6	89.0	8.080 SF	
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0	2,000.0	2,000.1	40.0	27.8	3.274 CC	
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0	8,400.0	8,412.9	46.4	16.3	1.541 Caution - Monitor Closely, ES	
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0	8,500.0	8,509.9	55.2	18.7	1.512 Caution - Monitor Closely, SF	
PAYNE FEDERAL 1_PA - OWB - AWP	4,700.0	4,544.0	642.8	479.8	3.943 SF	
PAYNE FEDERAL 1_PA - OWB - AWP	4,800.0	4,544.0	632.2	473.1	3.972 ES	
PAYNE FEDERAL 1_PA - OWB - AWP	4,817.5	4,544.0	632.0	473.9	3.997 CC	
RED HILLS WEST '21' FEDERAL COM 1H - OWB - AW	9,461.3	13,758.0	198.1	86.2	1.770 Caution - Monitor Closely, CC, ES, SF	
RED HILLS WEST 21 'BO' FEDERAL COM 1H - OWB -					Out of range	
RED HILLS WEST 21 W0AP FEDERAL COM 003H - OW	12,016.3	16,820.0	268.9	142.4	2.125 Caution - Monitor Closely, CC	
RED HILLS WEST 21 W0AP FEDERAL COM 003H - OW	12,025.0	16,820.0	269.1	142.3	2.122 Caution - Monitor Closely, ES, SF	
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW					Out of range	
RED HILLS WEST 21 W1AP FEDERAL COM 002H - OW	12,084.0	17,035.0	490.8	384.2	4.605 CC, ES, SF	
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW					Out of range	
WILDER FEDERAL 28 1H - OWB - AWP	852.7	843.5	158.5	107.0	3.079 CC, ES, SF	
WILDER FEDERAL 28 1H - ST01 - AWP	852.7	843.5	158.5	107.0	3.079 CC, ES, SF	
WILDER FEDERAL 28 2H - OWB - AWP					Out of range	

Offset Design:	BATTLE AXE 27 FEDERAL COM 17H - JC - BATTLE AXE 27 FEDERAL COM 17H - JC - Original Hole - Staking Design 1												Offset Site Error:	0.0 usft
Survey Program:	0-MWD+IFR1												Offset Well Error:	0.0 usft
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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
11,875.0	11,720.6	11,650.0	11,616.9	24.1	41.5	-72.21	366.5	1,161.1	997.5	935.1	62.39	15.988		
11,900.0	11,736.4	11,650.0	11,616.9	24.1	41.5	-72.74	366.5	1,161.1	992.9	930.6	62.27	15.944		
11,925.0	11,751.2	11,670.2	11,635.9	24.0	41.5	-73.91	359.6	1,161.1	988.2	925.8	62.37	15.845		
11,950.0	11,765.0	11,683.4	11,648.1	23.9	41.6	-74.89	354.8	1,161.1	983.5	921.1	62.40	15.762		
11,975.0	11,777.6	11,700.0	11,663.4	23.9	41.6	-76.02	348.3	1,161.1	978.9	916.4	62.48	15.668		
12,000.0	11,789.1	11,709.5	11,672.1	23.8	41.6	-76.91	344.4	1,161.2	974.2	911.7	62.50	15.589		
12,025.0	11,799.4	11,722.4	11,683.8	23.8	41.7	-77.94	338.9	1,161.2	969.7	907.1	62.56	15.500		
12,050.0	11,808.5	11,735.3	11,695.3	23.7	41.7	-78.98	333.1	1,161.2	965.2	902.6	62.64	15.410		
12,075.0	11,816.4	11,750.0	11,708.3	23.7	41.7	-80.10	326.2	1,161.2	960.9	898.2	62.74	15.316		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: BATTLE AXE 27 FEDERAL COM 17H - JC - BATTLE AXE 27 FEDERAL COM 17H - JC - Original Hole - Staking Design 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1											Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
12,100.0	11,823.0	11,760.7	11,717.6	23.6	41.8	-81.06	321.0	1,161.2	956.8	894.0	62.82	15.230
12,125.0	11,828.4	11,773.2	11,728.4	23.6	41.8	-82.08	314.6	1,161.2	952.9	889.9	62.93	15.142
12,150.0	11,832.5	11,785.7	11,739.0	23.6	41.8	-83.09	308.1	1,161.3	949.2	886.1	63.05	15.055
12,175.0	11,835.2	11,800.0	11,751.0	23.6	41.9	-84.18	300.3	1,161.3	945.8	882.6	63.18	14.968
12,200.0	11,836.7	11,810.1	11,759.3	23.6	41.9	-85.04	294.6	1,161.3	942.7	879.4	63.30	14.892
12,215.6	11,837.0	11,817.6	11,765.5	23.6	41.9	-85.62	290.3	1,161.3	940.9	877.5	63.39	14.845
12,300.0	11,837.0	11,862.3	11,800.8	23.6	42.0	-87.78	262.9	1,161.4	934.4	870.6	63.86	14.632
12,378.9	11,837.0	11,913.2	11,838.3	23.6	42.1	-90.08	228.4	1,161.5	932.6	868.3	64.30	14.505
12,400.0	11,837.0	11,928.6	11,849.0	23.6	42.1	-90.74	217.4	1,161.5	932.7	868.3	64.40	14.483
12,500.0	11,837.0	12,013.4	11,902.5	23.7	42.2	-94.02	151.7	1,161.7	935.9	871.0	64.84	14.432
12,600.0	11,837.0	12,120.0	11,955.0	23.7	42.4	-97.22	59.1	1,162.0	941.2	876.1	65.16	14.446
12,700.0	11,837.0	12,247.7	11,994.1	23.7	42.6	-99.57	-62.1	1,162.4	945.8	880.4	65.42	14.458
12,800.0	11,837.0	12,381.0	12,005.4	23.8	42.8	-100.25	-194.8	1,162.8	947.1	881.3	65.76	14.402
12,900.0	11,837.0	12,481.0	12,005.0	23.9	42.9	-100.22	-294.8	1,163.1	946.9	880.7	66.17	14.310
13,000.0	11,837.0	12,581.0	12,004.5	23.9	43.0	-100.20	-394.8	1,163.4	946.7	880.0	66.63	14.208
13,100.0	11,837.0	12,681.0	12,004.1	24.1	43.2	-100.17	-494.8	1,163.7	946.4	879.3	67.14	14.097
13,200.0	11,837.0	12,781.0	12,003.6	24.2	43.4	-100.15	-594.8	1,164.1	946.2	878.5	67.70	13.977
13,300.0	11,837.0	12,881.0	12,003.2	24.3	43.6	-100.12	-694.7	1,164.4	946.0	877.7	68.31	13.848
13,400.0	11,837.0	12,981.0	12,002.8	24.6	43.9	-100.10	-794.7	1,164.7	945.8	876.8	68.97	13.713
13,500.0	11,837.0	13,081.0	12,002.3	24.8	44.1	-100.07	-894.7	1,165.0	945.6	875.9	69.68	13.570
13,600.0	11,837.0	13,181.0	12,001.9	25.1	44.4	-100.05	-994.7	1,165.3	945.3	874.9	70.43	13.422
13,700.0	11,837.0	13,281.0	12,001.4	25.5	44.7	-100.02	-1,094.7	1,165.6	945.1	873.9	71.23	13.269
13,800.0	11,837.0	13,381.0	12,001.0	26.0	45.0	-100.00	-1,194.7	1,165.9	944.9	872.8	72.07	13.112
13,900.0	11,837.0	13,481.0	12,000.5	26.5	45.3	-99.97	-1,294.7	1,166.2	944.7	871.7	72.94	12.950
14,000.0	11,837.0	13,581.0	12,000.1	27.0	45.7	-99.94	-1,394.7	1,166.5	944.5	870.6	73.86	12.786
14,100.0	11,837.0	13,681.0	11,999.6	27.7	46.1	-99.92	-1,494.7	1,166.8	944.2	869.4	74.82	12.620
14,200.0	11,837.0	13,781.0	11,999.2	28.3	46.5	-99.89	-1,594.7	1,167.1	944.0	868.2	75.82	12.451
14,300.0	11,837.0	13,881.0	11,998.7	29.0	46.9	-99.87	-1,694.7	1,167.4	943.8	866.9	76.85	12.282
14,400.0	11,837.0	13,981.0	11,998.3	29.7	47.3	-99.84	-1,794.7	1,167.8	943.6	865.7	77.91	12.111
14,500.0	11,837.0	14,081.0	11,997.9	30.4	47.7	-99.82	-1,894.7	1,168.1	943.4	864.4	79.00	11.941
14,600.0	11,837.0	14,181.0	11,997.4	31.2	48.2	-99.79	-1,994.7	1,168.4	943.1	863.0	80.13	11.770
14,700.0	11,837.0	14,281.0	11,997.0	31.9	48.7	-99.77	-2,094.7	1,168.7	942.9	861.6	81.29	11.600
14,800.0	11,837.0	14,381.0	11,996.5	32.7	49.1	-99.74	-2,194.7	1,169.0	942.7	860.2	82.47	11.430
14,900.0	11,837.0	14,481.0	11,996.1	33.5	49.6	-99.72	-2,294.7	1,169.3	942.5	858.8	83.69	11.262
15,000.0	11,837.0	14,581.0	11,995.6	34.3	50.2	-99.69	-2,394.7	1,169.6	942.3	857.3	84.92	11.095
15,100.0	11,837.0	14,681.0	11,995.2	35.1	50.7	-99.67	-2,494.7	1,169.9	942.0	855.9	86.19	10.930
15,200.0	11,837.0	14,781.0	11,994.7	36.0	51.2	-99.64	-2,594.7	1,170.2	941.8	854.4	87.48	10.767
15,300.0	11,837.0	14,881.0	11,994.3	36.8	51.8	-99.62	-2,694.7	1,170.5	941.6	852.8	88.79	10.605
15,400.0	11,837.0	14,981.0	11,993.9	37.6	52.4	-99.59	-2,794.7	1,170.8	941.4	851.3	90.12	10.446
15,500.0	11,837.0	15,081.0	11,993.4	38.5	53.0	-99.57	-2,894.7	1,171.2	941.2	849.7	91.47	10.289
15,600.0	11,837.0	15,181.0	11,993.0	39.3	53.6	-99.54	-2,994.7	1,171.5	941.0	848.1	92.85	10.135
15,700.0	11,837.0	15,281.0	11,992.5	40.2	54.2	-99.52	-3,094.7	1,171.8	940.7	846.5	94.24	9.983
15,800.0	11,837.0	15,381.0	11,992.1	41.0	54.8	-99.49	-3,194.7	1,172.1	940.5	844.9	95.65	9.833
15,900.0	11,837.0	15,481.0	11,991.6	41.9	55.4	-99.47	-3,294.7	1,172.4	940.3	843.2	97.08	9.686
16,000.0	11,837.0	15,581.0	11,991.2	42.8	56.0	-99.44	-3,394.7	1,172.7	940.1	841.6	98.52	9.542
16,100.0	11,837.0	15,681.0	11,990.7	43.7	56.7	-99.42	-3,494.7	1,173.0	939.9	839.9	99.99	9.400
16,200.0	11,837.0	15,781.0	11,990.3	44.5	57.4	-99.39	-3,594.7	1,173.3	939.7	838.2	101.46	9.261
16,300.0	11,837.0	15,881.0	11,989.9	45.4	58.0	-99.36	-3,694.7	1,173.6	939.4	836.5	102.95	9.125
16,400.0	11,837.0	15,981.0	11,989.4	46.3	58.7	-99.34	-3,794.7	1,173.9	939.2	834.8	104.46	8.991
16,500.0	11,837.0	16,081.0	11,989.0	47.2	59.4	-99.31	-3,894.7	1,174.2	939.0	833.0	105.98	8.860
16,600.0	11,837.0	16,181.0	11,988.5	48.1	60.1	-99.29	-3,994.7	1,174.6	938.8	831.3	107.51	8.732

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: BATTLE AXE 27 FEDERAL COM 17H - JC - BATTLE AXE 27 FEDERAL COM 17H - JC - Original Hole - Staking Design 1													Offset Site Error:	0.0 usft	
Survey Program:		0-MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
16,700.0	11,837.0	16,281.0	11,988.1	49.0	60.8	-99.26	-4,094.7	1,174.9	938.6	829.5	109.05	8.607			
16,800.0	11,837.0	16,381.0	11,987.6	49.9	61.5	-99.24	-4,194.7	1,175.2	938.4	827.8	110.61	8.484			
16,900.0	11,837.0	16,481.0	11,987.2	50.8	62.2	-99.21	-4,294.7	1,175.5	938.2	826.0	112.18	8.363			
17,000.0	11,837.0	16,581.0	11,986.7	51.7	62.9	-99.19	-4,394.7	1,175.8	937.9	824.2	113.76	8.245			
17,100.0	11,837.0	16,681.0	11,986.3	52.6	63.7	-99.16	-4,494.7	1,176.1	937.7	822.4	115.35	8.130			
17,200.0	11,837.0	16,781.0	11,985.9	53.5	64.4	-99.14	-4,594.6	1,176.4	937.5	820.6	116.94	8.017			
17,300.0	11,837.0	16,881.0	11,985.4	54.4	65.1	-99.11	-4,694.6	1,176.7	937.3	818.7	118.55	7.906			
17,400.0	11,837.0	16,981.0	11,985.0	55.3	65.9	-99.09	-4,794.6	1,177.0	937.1	816.9	120.17	7.798			
17,500.0	11,837.0	17,081.0	11,984.5	56.2	66.7	-99.06	-4,894.6	1,177.3	936.9	815.1	121.80	7.692			
17,600.0	11,837.0	17,181.0	11,984.1	57.1	67.4	-99.03	-4,994.6	1,177.6	936.7	813.2	123.43	7.589			
17,700.0	11,837.0	17,281.0	11,983.6	58.1	68.2	-99.01	-5,094.6	1,178.0	936.4	811.4	125.07	7.487			
17,800.0	11,837.0	17,381.0	11,983.2	59.0	69.0	-98.98	-5,194.6	1,178.3	936.2	809.5	126.72	7.388			
17,900.0	11,837.0	17,481.0	11,982.7	59.9	69.7	-98.96	-5,294.6	1,178.6	936.0	807.6	128.38	7.291			
18,000.0	11,837.0	17,581.0	11,982.3	60.8	70.5	-98.93	-5,394.6	1,178.9	935.8	805.8	130.05	7.196			
18,100.0	11,837.0	17,681.0	11,981.8	61.7	71.3	-98.91	-5,494.6	1,179.2	935.6	803.9	131.72	7.103			
18,200.0	11,837.0	17,781.0	11,981.4	62.7	72.1	-98.88	-5,594.6	1,179.5	935.4	802.0	133.40	7.012			
18,300.0	11,837.0	17,881.0	11,981.0	63.6	72.9	-98.86	-5,694.6	1,179.8	935.2	800.1	135.09	6.923			
18,400.0	11,837.0	17,981.0	11,980.5	64.5	73.7	-98.83	-5,794.6	1,180.1	935.0	798.2	136.78	6.836			
18,500.0	11,837.0	18,081.0	11,980.1	65.4	74.5	-98.80	-5,894.6	1,180.4	934.8	796.3	138.48	6.750			
18,600.0	11,837.0	18,181.0	11,979.6	66.4	75.3	-98.78	-5,994.6	1,180.7	934.5	794.4	140.18	6.667			
18,700.0	11,837.0	18,281.0	11,979.2	67.3	76.2	-98.75	-6,094.6	1,181.0	934.3	792.4	141.89	6.585			
18,800.0	11,837.0	18,381.0	11,978.7	68.2	77.0	-98.73	-6,194.6	1,181.3	934.1	790.5	143.61	6.505			
18,900.0	11,837.0	18,481.0	11,978.3	69.2	77.8	-98.70	-6,294.6	1,181.7	933.9	788.6	145.33	6.426			
19,000.0	11,837.0	18,581.0	11,977.8	70.1	78.6	-98.68	-6,394.6	1,182.0	933.7	786.6	147.05	6.349			
19,100.0	11,837.0	18,681.0	11,977.4	71.0	79.5	-98.65	-6,494.6	1,182.3	933.5	784.7	148.78	6.274			
19,200.0	11,837.0	18,781.0	11,977.0	72.0	80.3	-98.62	-6,594.6	1,182.6	933.3	782.8	150.52	6.200			
19,300.0	11,837.0	18,881.0	11,976.5	72.9	81.2	-98.60	-6,694.6	1,182.9	933.1	780.8	152.26	6.128			
19,400.0	11,837.0	18,981.0	11,976.1	73.8	82.0	-98.57	-6,794.6	1,183.2	932.9	778.9	154.00	6.057			
19,500.0	11,837.0	19,081.0	11,975.6	74.8	233.3	-98.55	-6,894.6	1,183.5	932.6	593.4	339.23	2.749 Normal Operations			
19,529.3	11,837.0	19,108.2	11,975.5	75.0	284.2	-98.54	-6,921.8	1,183.6	932.6	525.9	406.67	2.293 Caution - Monitor Closely, CC			
19,565.2	11,837.0	19,108.2	11,975.5	75.4	284.2	-98.54	-6,921.8	1,183.6	933.3	525.7	407.59	2.290 Caution - Monitor Closely, ES, SF			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: BATTLE AXE 27 FEDERAL COM 18H - JC - BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hole - Staking Design 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1											Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
10,000.0	9,893.9	10,028.4	9,986.9	24.7	36.0	124.41	307.5	1,039.7	990.8	934.7	56.10	17.661
10,100.0	9,993.9	10,127.8	10,085.8	24.8	36.3	124.69	309.0	1,029.5	981.4	924.8	56.63	17.331
10,200.0	10,093.9	10,227.3	10,184.7	24.9	36.7	124.96	310.4	1,019.2	972.1	914.9	57.15	17.008
10,300.0	10,193.9	10,326.8	10,283.6	24.9	37.1	125.24	311.9	1,008.9	962.7	905.0	57.68	16.691
10,400.0	10,293.9	10,426.2	10,382.5	25.0	37.4	125.53	313.4	998.6	953.4	895.2	58.21	16.380
10,500.0	10,393.9	10,525.7	10,481.4	25.0	37.8	125.82	314.8	988.3	944.2	885.4	58.74	16.075
10,600.0	10,493.9	10,625.1	10,580.3	25.1	38.2	126.12	316.3	978.0	934.9	875.6	59.27	15.775
10,700.0	10,593.9	10,724.6	10,679.2	25.1	38.5	126.42	317.7	967.7	925.7	865.9	59.80	15.481
10,800.0	10,693.9	10,816.8	10,770.9	25.2	38.9	126.70	319.1	958.3	916.6	856.4	60.29	15.204
10,900.0	10,793.9	10,900.0	10,853.9	25.2	39.2	126.92	320.1	951.3	909.2	848.5	60.72	14.974
11,000.0	10,893.9	10,981.8	10,935.5	25.3	39.5	127.08	320.8	946.2	903.7	842.5	61.12	14.784
11,100.0	10,993.9	11,064.6	11,018.2	25.4	39.8	127.18	321.3	942.8	900.0	838.5	61.51	14.632
11,200.0	11,093.9	11,147.5	11,101.1	25.4	40.1	127.23	321.5	941.1	898.3	836.4	61.87	14.518
11,257.6	11,151.5	11,197.9	11,151.5	25.5	40.2	127.24	321.5	941.0	898.1	836.0	62.10	14.463
11,300.0	11,193.9	11,240.3	11,193.9	25.5	40.4	127.24	321.5	941.0	898.1	835.8	62.30	14.416
11,400.0	11,293.9	11,340.3	11,293.9	25.5	40.7	127.24	321.5	941.0	898.1	835.3	62.78	14.305
11,465.6	11,359.5	11,405.9	11,359.5	25.6	41.0	127.24	321.5	941.0	898.1	835.0	63.09	14.235
11,475.0	11,368.9	11,415.3	11,368.9	25.6	41.0	-52.51	321.5	941.0	898.0	834.9	63.13	14.225
11,500.0	11,393.9	11,440.3	11,393.9	25.5	41.1	-52.64	321.5	941.0	897.3	834.1	63.22	14.193
11,525.0	11,418.8	11,465.2	11,418.8	25.4	41.2	-52.90	321.5	941.0	895.8	832.5	63.30	14.152
11,550.0	11,443.5	11,489.9	11,443.5	25.3	41.3	-53.31	321.5	941.0	893.6	830.2	63.38	14.099
11,575.0	11,468.0	11,514.4	11,468.0	25.2	41.3	-53.86	321.5	941.0	890.5	827.1	63.45	14.036
11,600.0	11,492.2	11,538.6	11,492.2	25.2	41.4	-54.56	321.5	941.0	886.8	823.3	63.51	13.963
11,625.0	11,516.0	11,562.4	11,516.0	25.1	41.5	-55.40	321.5	941.0	882.3	818.7	63.56	13.880
11,650.0	11,539.4	11,585.8	11,539.4	25.0	41.6	-56.38	321.5	941.0	877.1	813.5	63.61	13.788
11,675.0	11,562.3	11,608.7	11,562.3	24.9	41.7	-57.49	321.5	941.0	871.3	807.7	63.66	13.688
11,700.0	11,584.6	11,623.1	11,576.7	24.8	41.7	-58.53	321.5	941.0	865.0	801.4	63.63	13.595
11,725.0	11,606.4	11,635.1	11,588.7	24.7	41.8	-59.57	321.1	941.0	858.4	794.8	63.57	13.503
11,750.0	11,627.4	11,650.0	11,603.6	24.6	41.8	-60.77	320.4	941.0	851.5	787.9	63.54	13.401
11,775.0	11,647.7	11,650.0	11,603.6	24.5	41.8	-61.54	320.4	941.0	844.4	781.1	63.36	13.328
11,800.0	11,667.3	11,670.5	11,624.0	24.4	41.9	-63.06	318.7	941.0	837.0	773.6	63.39	13.205
11,825.0	11,685.9	11,682.2	11,635.6	24.3	41.9	-64.35	317.5	941.0	829.5	766.2	63.32	13.099
11,850.0	11,703.7	11,700.0	11,653.3	24.2	42.0	-65.94	315.1	941.0	821.9	758.6	63.34	12.977
11,875.0	11,720.6	11,700.0	11,653.3	24.1	42.0	-66.84	315.1	941.0	814.1	751.0	63.15	12.892
11,900.0	11,736.4	11,716.4	11,669.4	24.1	42.0	-68.48	312.4	941.0	806.3	743.1	63.16	12.766
11,925.0	11,751.2	11,727.6	11,680.4	24.0	42.1	-69.94	310.3	941.0	798.5	735.4	63.12	12.650
11,950.0	11,765.0	11,738.6	11,691.2	23.9	42.1	-71.42	308.0	941.0	790.7	727.6	63.09	12.532
11,975.0	11,777.6	11,750.0	11,702.3	23.9	42.1	-72.96	305.4	941.0	783.0	719.9	63.08	12.412
12,000.0	11,789.1	11,760.1	11,712.1	23.8	42.2	-74.44	303.0	941.0	775.4	712.3	63.07	12.294
12,025.0	11,799.4	11,770.6	11,722.3	23.8	42.2	-75.94	300.2	941.1	768.0	704.9	63.08	12.175
12,050.0	11,808.5	11,780.9	11,732.1	23.7	42.2	-77.44	297.4	941.1	760.8	697.7	63.11	12.056
12,075.0	11,816.4	11,791.0	11,741.8	23.7	42.2	-78.91	294.4	941.1	753.9	690.8	63.15	11.939
12,100.0	11,823.0	11,800.0	11,750.3	23.6	42.3	-80.30	291.6	941.1	747.4	684.2	63.20	11.825
12,125.0	11,828.4	11,810.3	11,760.1	23.6	42.3	-81.74	288.2	941.1	741.2	677.9	63.28	11.713
12,150.0	11,832.5	11,819.5	11,768.7	23.6	42.3	-83.07	285.0	941.1	735.5	672.1	63.37	11.606
12,175.0	11,835.2	11,828.3	11,777.0	23.6	42.4	-84.33	281.9	941.1	730.3	666.8	63.48	11.505
12,200.0	11,836.7	11,836.8	11,784.8	23.6	42.4	-85.50	278.7	941.1	725.7	662.1	63.60	11.410
12,215.6	11,837.0	11,841.9	11,789.5	23.6	42.4	-86.19	276.8	941.1	723.1	659.4	63.68	11.355
12,300.0	11,837.0	11,872.2	11,817.1	23.6	42.5	-88.40	264.3	941.2	714.0	649.8	64.17	11.125
12,352.4	11,837.0	11,895.1	11,837.5	23.6	42.5	-90.04	253.9	941.2	712.4	647.9	64.51	11.043 CC
12,400.0	11,837.0	11,919.3	11,858.6	23.6	42.6	-91.74	242.1	941.2	713.6	648.8	64.81	11.012

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: BATTLE AXE 27 FEDERAL COM 18H - JC - BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hole - Staking Design 1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre			Rule Assigned: 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		
12,500.0	11,837.0	11,984.5	11,912.8	23.7	42.8	-96.08	205.8	941.4	723.3	657.9	65.31	11.075		
12,600.0	11,837.0	12,077.7	11,982.3	23.7	42.9	-101.53	143.8	941.5	739.8	674.4	65.47	11.301		
12,700.0	11,837.0	12,212.0	12,062.8	23.7	43.1	-107.59	36.7	941.9	758.3	693.1	65.21	11.630		
12,800.0	11,837.0	12,394.9	12,128.2	23.8	43.3	-112.25	-133.3	942.4	771.5	706.5	64.97	11.875		
12,900.0	11,837.0	12,559.0	12,140.2	23.9	43.5	-113.08	-296.5	942.9	773.6	708.2	65.40	11.828		
13,000.0	11,837.0	12,659.0	12,139.6	23.9	43.6	-113.05	-396.5	943.2	773.2	707.3	65.87	11.739		
13,100.0	11,837.0	12,759.0	12,139.0	24.1	43.8	-113.01	-496.5	943.5	772.8	706.5	66.38	11.642		
13,200.0	11,837.0	12,859.0	12,138.4	24.2	44.0	-112.97	-596.5	943.9	772.5	705.5	66.95	11.538		
13,300.0	11,837.0	12,959.0	12,137.8	24.3	44.2	-112.93	-696.5	944.2	772.1	704.6	67.56	11.429		
13,400.0	11,837.0	13,059.0	12,137.2	24.6	44.4	-112.90	-796.5	944.5	771.7	703.5	68.22	11.313		
13,500.0	11,837.0	13,159.0	12,136.6	24.8	44.6	-112.86	-896.5	944.8	771.4	702.5	68.92	11.192		
13,600.0	11,837.0	13,259.0	12,136.0	25.1	44.9	-112.82	-996.5	945.1	771.0	701.4	69.67	11.067		
13,700.0	11,837.0	13,359.0	12,135.4	25.5	45.2	-112.79	-1,096.5	945.4	770.7	700.2	70.46	10.938		
13,800.0	11,837.0	13,459.0	12,134.8	26.0	45.5	-112.75	-1,196.5	945.7	770.3	699.0	71.29	10.806		
13,900.0	11,837.0	13,559.0	12,134.2	26.5	45.8	-112.71	-1,296.4	946.0	769.9	697.8	72.16	10.670		
14,000.0	11,837.0	13,659.0	12,133.6	27.0	46.1	-112.68	-1,396.4	946.3	769.6	696.5	73.06	10.533		
14,100.0	11,837.0	13,759.0	12,133.0	27.7	46.5	-112.64	-1,496.4	946.7	769.2	695.2	74.01	10.393		
14,200.0	11,837.0	13,859.0	12,132.4	28.3	46.9	-112.60	-1,596.4	947.0	768.8	693.9	74.99	10.253		
14,300.0	11,837.0	13,959.0	12,131.8	29.0	47.3	-112.56	-1,696.4	947.3	768.5	692.5	76.00	10.111		
14,400.0	11,837.0	14,059.0	12,131.2	29.7	47.7	-112.53	-1,796.4	947.6	768.1	691.1	77.05	9.969		
14,500.0	11,837.0	14,159.0	12,130.6	30.4	48.1	-112.49	-1,896.4	947.9	767.8	689.6	78.13	9.827		
14,600.0	11,837.0	14,259.0	12,130.0	31.2	48.5	-112.45	-1,996.4	948.2	767.4	688.2	79.24	9.685		
14,700.0	11,837.0	14,359.0	12,129.4	31.9	49.0	-112.41	-2,096.4	948.5	767.0	686.7	80.37	9.544		
14,800.0	11,837.0	14,459.0	12,128.8	32.7	49.5	-112.38	-2,196.4	948.8	766.7	685.1	81.54	9.403		
14,900.0	11,837.0	14,559.0	12,128.2	33.5	50.0	-112.34	-2,296.4	949.2	766.3	683.6	82.73	9.263		
15,000.0	11,837.0	14,659.0	12,127.6	34.3	50.5	-112.30	-2,396.4	949.5	766.0	682.0	83.95	9.124		
15,100.0	11,837.0	14,759.0	12,127.0	35.1	51.0	-112.26	-2,496.4	949.8	765.6	680.4	85.19	8.987		
15,200.0	11,837.0	14,859.0	12,126.4	36.0	51.5	-112.23	-2,596.4	950.1	765.2	678.8	86.45	8.852		
15,300.0	11,837.0	14,959.0	12,125.8	36.8	52.1	-112.19	-2,696.4	950.4	764.9	677.1	87.74	8.718		
15,400.0	11,837.0	15,059.0	12,125.2	37.6	52.6	-112.15	-2,796.4	950.7	764.5	675.5	89.05	8.586		
15,500.0	11,837.0	15,158.9	12,124.6	38.5	53.2	-112.11	-2,896.4	951.0	764.2	673.8	90.37	8.456		
15,600.0	11,837.0	15,258.9	12,124.0	39.3	53.8	-112.08	-2,996.4	951.3	763.8	672.1	91.72	8.327		
15,700.0	11,837.0	15,358.9	12,123.4	40.2	54.4	-112.04	-3,096.4	951.6	763.5	670.4	93.09	8.201		
15,800.0	11,837.0	15,458.9	12,122.8	41.0	55.0	-112.00	-3,196.4	952.0	763.1	668.6	94.47	8.077		
15,900.0	11,837.0	15,558.9	12,122.2	41.9	55.6	-111.96	-3,296.4	952.3	762.7	666.9	95.88	7.955		
16,000.0	11,837.0	15,658.9	12,121.6	42.8	56.2	-111.92	-3,396.4	952.6	762.4	665.1	97.29	7.836		
16,100.0	11,837.0	15,758.9	12,121.0	43.7	56.9	-111.89	-3,496.4	952.9	762.0	663.3	98.73	7.718		
16,200.0	11,837.0	15,858.9	12,120.4	44.5	57.5	-111.85	-3,596.4	953.2	761.7	661.5	100.18	7.603		
16,300.0	11,837.0	15,958.9	12,119.8	45.4	58.2	-111.81	-3,696.3	953.5	761.3	659.7	101.64	7.490		
16,400.0	11,837.0	16,058.9	12,119.2	46.3	58.8	-111.77	-3,796.3	953.8	761.0	657.8	103.12	7.379		
16,500.0	11,837.0	16,158.9	12,118.6	47.2	59.5	-111.74	-3,896.3	954.1	760.6	656.0	104.61	7.271		
16,600.0	11,837.0	16,258.9	12,118.0	48.1	60.2	-111.70	-3,996.3	954.5	760.3	654.1	106.11	7.165		
16,700.0	11,837.0	16,358.9	12,117.4	49.0	60.9	-111.66	-4,096.3	954.8	759.9	652.3	107.63	7.060		
16,800.0	11,837.0	16,458.9	12,116.8	49.9	61.6	-111.62	-4,196.3	955.1	759.5	650.4	109.16	6.958		
16,900.0	11,837.0	16,558.9	12,116.3	50.8	62.3	-111.58	-4,296.3	955.4	759.2	648.5	110.69	6.858		
17,000.0	11,837.0	16,658.9	12,115.7	51.7	63.0	-111.54	-4,396.3	955.7	758.8	646.6	112.24	6.761		
17,100.0	11,837.0	16,758.9	12,115.1	52.6	63.7	-111.51	-4,496.3	956.0	758.5	644.7	113.80	6.665		
17,200.0	11,837.0	16,858.9	12,114.5	53.5	64.5	-111.47	-4,596.3	956.3	758.1	642.8	115.37	6.571		
17,300.0	11,837.0	16,958.9	12,113.9	54.4	65.2	-111.43	-4,696.3	956.6	757.8	640.8	116.95	6.479		
17,400.0	11,837.0	17,058.9	12,113.3	55.3	65.9	-111.39	-4,796.3	956.9	757.4	638.9	118.54	6.390		
17,500.0	11,837.0	17,158.9	12,112.7	56.2	66.7	-111.35	-4,896.3	957.3	757.1	636.9	120.14	6.302		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: BATTLE AXE 27 FEDERAL COM 18H - JC - BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hole - Staking Design 1											Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1											Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	
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
17,600.0	11,837.0	17,258.9	12,112.1	57.1	67.5	-111.31	-4,996.3	957.6	756.7	635.0	121.75	6.216
17,700.0	11,837.0	17,358.9	12,111.5	58.1	68.2	-111.28	-5,096.3	957.9	756.4	633.0	123.36	6.132
17,800.0	11,837.0	17,458.9	12,110.9	59.0	69.0	-111.24	-5,196.3	958.2	756.0	631.1	124.98	6.049
17,900.0	11,837.0	17,558.9	12,110.3	59.9	69.8	-111.20	-5,296.3	958.5	755.7	629.1	126.61	5.969
18,000.0	11,837.0	17,658.9	12,109.7	60.8	70.5	-111.16	-5,396.3	958.8	755.3	627.1	128.25	5.890
18,100.0	11,837.0	17,758.9	12,109.1	61.7	71.3	-111.12	-5,496.3	959.1	755.0	625.1	129.89	5.812
18,200.0	11,837.0	17,858.9	12,108.5	62.7	72.1	-111.08	-5,596.3	959.4	754.6	623.1	131.54	5.737
18,300.0	11,837.0	17,958.9	12,107.9	63.6	72.9	-111.04	-5,696.3	959.8	754.3	621.1	133.20	5.663
18,400.0	11,837.0	18,058.9	12,107.3	64.5	73.7	-111.01	-5,796.3	960.1	753.9	619.1	134.86	5.590
18,500.0	11,837.0	18,158.9	12,106.7	65.4	74.5	-110.97	-5,896.3	960.4	753.6	617.1	136.53	5.519
18,600.0	11,837.0	18,258.9	12,106.1	66.4	75.3	-110.93	-5,996.3	960.7	753.2	615.0	138.21	5.450
18,700.0	11,837.0	18,358.9	12,105.5	67.3	76.1	-110.89	-6,096.2	961.0	752.9	613.0	139.89	5.382
18,800.0	11,837.0	18,458.9	12,104.9	68.2	76.9	-110.85	-6,196.2	961.3	752.6	611.0	141.58	5.316
18,900.0	11,837.0	18,558.9	12,104.3	69.2	77.8	-110.81	-6,296.2	961.6	752.2	608.9	143.27	5.250
19,000.0	11,837.0	18,658.9	12,103.7	70.1	78.6	-110.77	-6,396.2	961.9	751.9	606.9	144.97	5.186
19,100.0	11,837.0	18,758.9	12,103.1	71.0	79.4	-110.73	-6,496.2	962.3	751.5	604.8	146.67	5.124
19,200.0	11,837.0	18,858.9	12,102.5	72.0	80.2	-110.70	-6,596.2	962.6	751.2	602.8	148.38	5.063
19,300.0	11,837.0	18,958.9	12,101.9	72.9	81.1	-110.66	-6,696.2	962.9	750.8	600.7	150.09	5.003
19,400.0	11,837.0	19,058.9	12,101.3	73.8	81.9	-110.62	-6,796.2	963.2	750.5	598.7	151.80	4.944
19,500.0	11,837.0	19,158.9	12,100.7	74.8	82.8	-110.58	-6,896.2	963.5	750.1	596.6	153.52	4.886
19,528.5	11,837.0	19,184.8	12,100.5	75.0	83.0	-110.57	-6,922.1	963.6	750.0	596.1	153.96	4.872 ES, SF
19,565.2	11,837.0	19,184.8	12,100.5	75.4	83.0	-110.57	-6,922.1	963.6	750.9	597.2	153.70	4.886

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 3.0 usft
Reference		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	1.5	0.0	3.0	-54.21	46.7	-64.8	80.0				
100.0	100.0	98.5	100.0	0.8	3.1	-54.21	46.7	-64.8	79.9	75.0	4.96	16.132	
200.0	200.0	198.5	200.0	1.4	3.3	-54.21	46.7	-64.8	79.9	74.4	5.55	14.392	
300.0	300.0	298.5	300.0	1.9	3.6	-54.21	46.7	-64.8	79.9	73.8	6.10	13.113	
400.0	400.0	398.5	400.0	2.3	3.8	-54.21	46.7	-64.8	79.9	73.3	6.59	12.122	
500.0	500.0	498.5	500.0	2.6	4.0	-54.21	46.7	-64.8	79.9	72.9	7.06	11.325	
600.0	600.0	598.5	600.0	2.9	4.1	-54.21	46.7	-64.8	79.9	72.4	7.50	10.665	
700.0	700.0	698.5	700.0	3.1	4.3	-54.21	46.7	-64.8	79.9	72.0	7.91	10.105	
800.0	800.0	798.5	800.0	3.4	4.5	-54.21	46.7	-64.8	79.9	71.6	8.31	9.623	
900.0	900.0	898.5	900.0	3.6	4.7	-54.21	46.7	-64.8	79.9	71.3	8.69	9.202	
1,000.0	1,000.0	998.5	1,000.0	3.8	4.8	-54.21	46.7	-64.8	79.9	70.9	9.05	8.829	
1,100.0	1,100.0	1,098.5	1,100.0	4.0	5.0	-54.21	46.7	-64.8	79.9	70.5	9.41	8.497	
1,200.0	1,200.0	1,198.5	1,200.0	4.2	5.2	-54.21	46.7	-64.8	79.9	70.2	9.75	8.197	
1,300.0	1,300.0	1,298.5	1,300.0	4.4	5.3	-54.21	46.7	-64.8	79.9	69.9	10.09	7.926	
1,400.0	1,400.0	1,398.5	1,400.0	4.6	5.5	-54.21	46.7	-64.8	79.9	69.5	10.41	7.678	
1,500.0	1,500.0	1,498.5	1,500.0	4.7	5.6	-54.21	46.7	-64.8	79.9	69.2	10.73	7.451	
1,600.0	1,600.0	1,598.5	1,600.0	4.9	5.8	-54.21	46.7	-64.8	79.9	68.9	11.04	7.241	
1,700.0	1,700.0	1,698.5	1,700.0	5.1	5.9	-54.21	46.7	-64.8	79.9	68.6	11.34	7.047	
1,800.0	1,800.0	1,798.5	1,800.0	5.2	6.0	-54.21	46.7	-64.8	79.9	68.3	11.64	6.867	
1,900.0	1,900.0	1,898.5	1,900.0	5.4	6.2	-54.21	46.7	-64.8	79.9	68.0	11.93	6.698	
2,000.0	2,000.0	1,998.5	2,000.0	5.6	6.3	-54.21	46.7	-64.8	79.9	67.7	12.22	6.541 CC, ES	
2,100.0	2,100.0	2,096.6	2,098.1	5.7	6.5	-85.41	47.1	-66.0	81.0	68.5	12.52	6.470 SF	
2,200.0	2,199.9	2,194.4	2,195.8	5.9	6.6	-88.80	48.0	-69.6	84.4	71.6	12.80	6.597	
2,300.0	2,299.7	2,291.7	2,292.9	6.2	6.8	-93.83	49.6	-75.6	90.8	77.7	13.07	6.945	
2,333.3	2,332.9	2,324.0	2,325.1	6.2	6.8	-95.73	50.3	-78.1	93.7	80.6	13.11	7.145	
2,400.0	2,399.3	2,387.9	2,388.7	6.3	6.9	-94.78	52.0	-83.9	100.6	87.3	13.21	7.611	
2,500.0	2,498.5	2,482.9	2,483.0	6.6	7.0	-96.09	56.1	-94.7	113.9	100.4	13.50	8.435	
2,600.0	2,597.2	2,577.0	2,576.0	6.9	7.2	-98.60	61.9	-107.9	131.0	117.2	13.80	9.492	
2,700.0	2,695.3	2,670.0	2,667.4	7.2	7.4	-101.27	69.3	-123.4	152.0	137.9	14.10	10.774	
2,800.0	2,792.7	2,761.7	2,757.0	7.6	7.6	-103.69	78.2	-141.1	176.7	162.3	14.41	12.258	
2,863.2	2,853.9	2,819.0	2,812.6	7.8	7.7	-105.03	84.6	-153.3	194.2	179.6	14.59	13.314	
2,900.0	2,889.3	2,852.1	2,844.6	7.9	7.8	-106.23	88.6	-160.8	205.0	190.4	14.68	13.965	
3,000.0	2,985.8	2,942.0	2,930.9	8.2	7.9	-108.63	100.5	-182.6	236.3	221.3	14.96	15.795	
3,100.0	3,082.2	3,036.3	3,021.2	8.5	8.0	-110.39	113.7	-206.5	268.8	253.5	15.28	17.586	
3,200.0	3,178.7	3,130.6	3,111.5	8.9	8.1	-111.77	126.8	-230.3	301.4	285.8	15.64	19.273	
3,300.0	3,275.1	3,224.9	3,201.8	9.3	8.3	-112.88	140.0	-254.1	334.1	318.1	16.00	20.879	
3,400.0	3,371.6	3,319.2	3,292.1	9.6	8.4	-113.79	153.1	-278.0	367.0	350.6	16.38	22.405	
3,500.0	3,468.0	3,413.5	3,382.4	10.0	8.6	-114.55	166.3	-301.8	399.9	383.2	16.77	23.853	
3,600.0	3,564.5	3,507.8	3,472.7	10.4	8.7	-115.20	179.4	-325.7	432.9	415.7	17.16	25.225	
3,700.0	3,660.9	3,602.2	3,563.0	10.9	8.9	-115.76	192.6	-349.5	465.9	448.3	17.57	26.525	
3,800.0	3,757.4	3,696.5	3,653.3	11.3	9.0	-116.24	205.7	-373.3	499.0	481.0	17.98	27.755	
3,900.0	3,853.8	3,790.8	3,743.5	11.7	9.2	-116.66	218.9	-397.2	532.0	513.6	18.40	28.920	
4,000.0	3,950.3	3,885.1	3,833.8	12.1	9.3	-117.03	232.0	-421.0	565.1	546.3	18.82	30.023	
4,100.0	4,046.7	3,979.4	3,924.1	12.6	9.5	-117.37	245.2	-444.9	598.3	579.0	19.26	31.066	
4,200.0	4,143.2	4,073.7	4,014.4	13.0	9.7	-117.66	258.3	-468.7	631.4	611.7	19.70	32.055	
4,300.0	4,239.6	4,168.0	4,104.7	13.4	9.9	-117.93	271.5	-492.5	664.5	644.4	20.14	32.991	
4,400.0	4,336.1	4,262.3	4,195.0	13.9	10.0	-118.17	284.6	-516.4	697.7	677.1	20.59	33.879	
4,500.0	4,432.5	4,356.6	4,285.3	14.3	10.2	-118.39	297.8	-540.2	730.9	709.8	21.05	34.720	
4,600.0	4,529.0	4,450.9	4,375.6	14.8	10.4	-118.59	310.9	-564.0	764.0	742.5	21.51	35.518	
4,700.0	4,625.4	4,545.2	4,465.8	15.3	10.6	-118.78	324.1	-587.9	797.2	775.3	21.98	36.275	
4,800.0	4,721.9	4,639.5	4,556.1	15.7	10.7	-118.95	337.2	-611.7	830.4	808.0	22.45	36.994	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
4,900.0	4,818.3	4,733.8	4,646.4	16.2	10.9	-119.10	350.4	-635.6	863.6	840.7	22.92	37.677	
5,000.0	4,914.8	4,828.1	4,736.7	16.6	11.1	-119.25	363.5	-659.4	896.8	873.4	23.40	38.326	
5,074.5	4,986.6	4,898.3	4,804.0	17.0	11.3	-119.35	373.3	-677.2	921.6	897.8	23.74	38.811	
5,100.0	5,011.2	4,922.4	4,827.0	17.1	11.3	-119.46	376.7	-683.2	930.0	906.1	23.86	38.982	
5,200.0	5,108.0	5,016.9	4,917.5	17.6	11.5	-119.81	389.9	-707.1	962.6	938.3	24.33	39.558	
5,300.0	5,205.2	5,111.7	5,008.3	18.0	11.7	-120.06	403.1	-731.1	994.4	969.6	24.79	40.106	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth	Reference	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	0.5	0.0	0.0	3.0	-54.30	35.0	-48.7	59.9					
100.0	100.0	100.5	100.0	0.8	3.1	-54.30	35.0	-48.7	59.9	55.0	4.95	12.116		
200.0	200.0	200.5	200.0	1.4	3.3	-54.30	35.0	-48.7	59.9	54.4	5.55	10.802		
300.0	300.0	300.5	300.0	1.9	3.5	-54.30	35.0	-48.7	59.9	53.9	6.09	9.841		
400.0	400.0	400.5	400.0	2.3	3.8	-54.30	35.0	-48.7	59.9	53.4	6.59	9.097		
500.0	500.0	500.5	500.0	2.6	4.0	-54.30	35.0	-48.7	59.9	52.9	7.05	8.498		
600.0	600.0	600.5	600.0	2.9	4.1	-54.30	35.0	-48.7	59.9	52.5	7.49	8.002		
700.0	700.0	700.5	700.0	3.1	4.3	-54.30	35.0	-48.7	59.9	52.0	7.91	7.581		
800.0	800.0	800.5	800.0	3.4	4.5	-54.30	35.0	-48.7	59.9	51.6	8.30	7.219		
900.0	900.0	900.5	900.0	3.6	4.7	-54.30	35.0	-48.7	59.9	51.3	8.68	6.903		
1,000.0	1,000.0	1,000.5	1,000.0	3.8	4.8	-54.30	35.0	-48.7	59.9	50.9	9.05	6.623		
1,100.0	1,100.0	1,100.5	1,100.0	4.0	5.0	-54.30	35.0	-48.7	59.9	50.5	9.41	6.374		
1,200.0	1,200.0	1,200.5	1,200.0	4.2	5.2	-54.30	35.0	-48.7	59.9	50.2	9.75	6.149		
1,300.0	1,300.0	1,300.5	1,300.0	4.4	5.3	-54.30	35.0	-48.7	59.9	49.9	10.08	5.945		
1,400.0	1,400.0	1,400.5	1,400.0	4.6	5.5	-54.30	35.0	-48.7	59.9	49.5	10.41	5.759		
1,500.0	1,500.0	1,500.5	1,500.0	4.7	5.6	-54.30	35.0	-48.7	59.9	49.2	10.73	5.589		
1,600.0	1,600.0	1,600.5	1,600.0	4.9	5.8	-54.30	35.0	-48.7	59.9	48.9	11.04	5.431		
1,700.0	1,700.0	1,700.5	1,700.0	5.1	5.9	-54.30	35.0	-48.7	59.9	48.6	11.34	5.286		
1,800.0	1,800.0	1,800.5	1,800.0	5.2	6.0	-54.30	35.0	-48.7	59.9	48.3	11.64	5.150		
1,900.0	1,900.0	1,900.5	1,900.0	5.4	6.2	-54.30	35.0	-48.7	59.9	48.0	11.93	5.024		
1,966.5	1,966.5	1,967.0	1,966.5	5.5	6.3	-54.30	35.0	-48.7	59.9	47.8	12.12	4.945 CC		
2,000.0	2,000.0	2,000.5	2,000.0	5.6	6.3	-54.30	35.0	-48.7	59.9	47.7	12.22	4.906 ES		
2,100.0	2,100.0	2,100.0	2,099.5	5.7	6.5	-84.36	36.2	-48.3	60.3	47.8	12.50	4.821		
2,200.0	2,199.9	2,199.4	2,198.8	5.9	6.7	-84.57	40.0	-47.3	61.3	48.5	12.78	4.794 SF		
2,300.0	2,299.7	2,298.8	2,298.0	6.2	6.9	-84.91	46.3	-45.7	62.9	49.9	13.05	4.821		
2,333.3	2,332.9	2,331.9	2,331.0	6.2	6.9	-85.05	48.9	-44.9	63.6	50.5	13.09	4.862		
2,400.0	2,399.3	2,397.2	2,396.0	6.3	7.0	-81.20	54.6	-44.1	65.5	52.3	13.21	4.956		
2,500.0	2,498.5	2,494.7	2,493.0	6.6	7.2	-80.66	64.2	-45.5	69.8	56.3	13.49	5.177		
2,600.0	2,597.2	2,591.7	2,589.3	6.9	7.4	-83.90	74.9	-50.0	76.8	63.0	13.76	5.577		
2,700.0	2,695.3	2,687.8	2,684.5	7.2	7.6	-88.97	86.5	-57.4	87.1	73.1	14.05	6.202		
2,800.0	2,792.7	2,783.0	2,778.2	7.6	7.9	-94.47	99.2	-67.7	101.6	87.3	14.35	7.082		
2,863.2	2,853.9	2,842.5	2,836.6	7.8	8.0	-97.75	107.6	-75.7	113.0	98.5	14.53	7.781		
2,900.0	2,889.3	2,876.9	2,870.2	7.9	8.1	-99.91	112.7	-80.8	120.5	105.9	14.63	8.240		
3,000.0	2,985.8	2,969.6	2,960.5	8.2	8.4	-104.30	127.1	-96.5	143.5	128.6	14.97	9.591		
3,100.0	3,082.2	3,062.4	3,050.1	8.5	8.6	-107.06	142.4	-114.9	169.9	154.7	15.27	11.130		
3,200.0	3,178.7	3,158.3	3,142.6	8.9	8.9	-109.04	158.5	-134.7	197.4	181.8	15.64	12.622		
3,300.0	3,275.1	3,254.3	3,235.0	9.3	9.2	-110.54	174.6	-154.5	225.0	209.0	16.04	14.029		
3,400.0	3,371.6	3,350.2	3,327.5	9.6	9.5	-111.71	190.8	-174.3	252.8	236.3	16.46	15.361		
3,500.0	3,468.0	3,446.2	3,420.0	10.0	9.8	-112.64	206.9	-194.1	280.6	263.7	16.89	16.619		
3,600.0	3,564.5	3,542.1	3,512.5	10.4	10.2	-113.41	223.0	-213.9	308.5	291.2	17.33	17.804		
3,700.0	3,660.9	3,638.1	3,605.0	10.9	10.5	-114.05	239.1	-233.7	336.4	318.6	17.78	18.919		
3,800.0	3,757.4	3,734.1	3,697.5	11.3	10.9	-114.60	255.3	-253.5	364.4	346.1	18.25	19.967		
3,900.0	3,853.8	3,830.0	3,790.0	11.7	11.2	-115.06	271.4	-273.4	392.4	373.6	18.73	20.952		
4,000.0	3,950.3	3,926.0	3,882.5	12.1	11.6	-115.47	287.5	-293.2	420.4	401.2	19.22	21.877		
4,100.0	4,046.7	4,021.9	3,975.0	12.6	12.0	-115.82	303.7	-313.0	448.4	428.7	19.71	22.746		
4,200.0	4,143.2	4,117.9	4,067.5	13.0	12.4	-116.13	319.8	-332.8	476.4	456.2	20.22	23.562		
4,300.0	4,239.6	4,213.9	4,160.0	13.4	12.8	-116.41	335.9	-352.6	504.5	483.8	20.74	24.329		
4,400.0	4,336.1	4,309.8	4,252.5	13.9	13.2	-116.66	352.0	-372.4	532.6	511.3	21.26	25.050		
4,500.0	4,432.5	4,405.8	4,345.0	14.3	13.6	-116.88	368.2	-392.2	560.6	538.8	21.79	25.728		
4,600.0	4,529.0	4,501.7	4,437.5	14.8	14.0	-117.08	384.3	-412.0	588.7	566.4	22.33	26.366		
4,700.0	4,625.4	4,597.7	4,530.0	15.3	14.4	-117.26	400.4	-431.9	616.8	593.9	22.87	26.967		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
4,800.0	4,721.9	4,693.6	4,622.5	15.7	14.8	-117.43	416.6	-451.7	644.9	621.4	23.42	27.532	
4,900.0	4,818.3	4,789.6	4,715.0	16.2	15.2	-117.59	432.7	-471.5	673.0	649.0	23.98	28.066	
5,000.0	4,914.8	4,885.6	4,807.5	16.6	15.7	-117.73	448.8	-491.3	701.1	676.5	24.54	28.570	
5,074.5	4,986.6	4,957.0	4,876.4	17.0	16.0	-117.82	460.8	-506.1	722.0	697.0	24.95	28.942	
5,100.0	5,011.2	4,981.5	4,900.0	17.1	16.1	-117.92	464.9	-511.1	729.1	704.0	25.08	29.072	
5,200.0	5,108.0	5,077.7	4,992.6	17.6	16.5	-118.20	481.1	-531.0	756.6	731.0	25.65	29.502	
5,300.0	5,205.2	5,174.0	5,085.5	18.0	17.0	-118.35	497.3	-550.9	783.3	757.1	26.20	29.894	
5,400.0	5,302.8	5,270.6	5,178.6	18.5	17.4	-118.39	513.5	-570.8	809.3	782.5	26.76	30.245	
5,500.0	5,400.8	5,367.3	5,271.8	18.9	17.8	-118.33	529.8	-590.8	834.4	807.1	27.30	30.560	
5,600.0	5,499.1	5,464.1	5,365.1	19.4	18.3	-118.17	546.1	-610.8	858.8	830.9	27.85	30.840	
5,700.0	5,597.7	5,561.0	5,458.6	19.8	18.7	-117.92	562.3	-630.8	882.4	854.0	28.38	31.089	
5,800.0	5,696.6	5,658.0	5,552.1	20.2	19.2	-117.59	578.7	-650.8	905.2	876.3	28.91	31.308	
5,900.0	5,795.7	5,755.1	5,645.6	20.6	19.6	-117.18	595.0	-670.8	927.4	898.0	29.44	31.501	
6,000.0	5,895.1	5,852.1	5,739.1	21.0	20.1	-116.70	611.3	-690.9	948.9	918.9	29.96	31.668	
6,100.0	5,994.6	5,949.2	5,832.7	21.4	20.5	-116.16	627.6	-710.9	969.8	939.3	30.49	31.812	
6,200.0	6,094.3	6,046.1	5,926.2	21.8	21.0	-115.55	643.9	-730.9	990.1	959.1	31.00	31.933	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth	Reference	Offset	Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance			Separation Factor	Warning		
Depth (usft)	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)	
0.0	0.0	0.3	0.0	0.0	3.0	-54.31	23.3	-32.5	40.0					
100.0	100.0	100.3	100.0	0.8	3.1	-54.31	23.3	-32.5	40.0	35.1	4.95	8.086		
200.0	200.0	200.3	200.0	1.4	3.3	-54.31	23.3	-32.5	40.0	34.5	5.55	7.210		
300.0	300.0	300.3	300.0	1.9	3.5	-54.31	23.3	-32.5	40.0	33.9	6.09	6.568		
400.0	400.0	400.3	400.0	2.3	3.8	-54.31	23.3	-32.5	40.0	33.4	6.59	6.071		
500.0	500.0	500.3	500.0	2.6	4.0	-54.31	23.3	-32.5	40.0	33.0	7.05	5.671		
600.0	600.0	600.3	600.0	2.9	4.1	-54.31	23.3	-32.5	40.0	32.5	7.49	5.340		
700.0	700.0	700.3	700.0	3.1	4.3	-54.31	23.3	-32.5	40.0	32.1	7.91	5.060		
800.0	800.0	800.3	800.0	3.4	4.5	-54.31	23.3	-32.5	40.0	31.7	8.30	4.818		
900.0	900.0	900.3	900.0	3.6	4.7	-54.31	23.3	-32.5	40.0	31.3	8.68	4.607		
1,000.0	1,000.0	1,000.3	1,000.0	3.8	4.8	-54.31	23.3	-32.5	40.0	31.0	9.05	4.420		
1,100.0	1,100.0	1,100.3	1,100.0	4.0	5.0	-54.31	23.3	-32.5	40.0	30.6	9.40	4.254		
1,200.0	1,200.0	1,200.3	1,200.0	4.2	5.2	-54.31	23.3	-32.5	40.0	30.3	9.75	4.104		
1,300.0	1,300.0	1,300.3	1,300.0	4.4	5.3	-54.31	23.3	-32.5	40.0	29.9	10.08	3.968		
1,400.0	1,400.0	1,400.3	1,400.0	4.6	5.5	-54.31	23.3	-32.5	40.0	29.6	10.41	3.844		
1,500.0	1,500.0	1,500.3	1,500.0	4.7	5.6	-54.31	23.3	-32.5	40.0	29.3	10.73	3.730		
1,600.0	1,600.0	1,600.3	1,600.0	4.9	5.8	-54.31	23.3	-32.5	40.0	29.0	11.04	3.625		
1,700.0	1,700.0	1,700.3	1,700.0	5.1	5.9	-54.31	23.3	-32.5	40.0	28.7	11.34	3.527		
1,800.0	1,800.0	1,800.3	1,800.0	5.2	6.0	-54.31	23.3	-32.5	40.0	28.4	11.64	3.437		
1,900.0	1,900.0	1,900.3	1,900.0	5.4	6.2	-54.31	23.3	-32.5	40.0	28.1	11.93	3.353		
1,966.6	1,966.6	1,966.9	1,966.6	5.5	6.3	-54.31	23.3	-32.5	40.0	27.9	12.12	3.300 CC		
2,000.0	2,000.0	2,000.3	2,000.0	5.6	6.3	-54.31	23.3	-32.5	40.0	27.8	12.22	3.274		
2,100.0	2,100.0	2,100.1	2,099.8	5.7	6.5	-84.32	24.5	-31.9	40.1	27.6	12.50	3.209 ES		
2,200.0	2,199.9	2,200.0	2,199.6	5.9	6.7	-84.39	28.1	-30.3	40.5	27.7	12.77	3.167		
2,300.0	2,299.7	2,299.7	2,299.1	6.2	6.8	-84.50	34.0	-27.5	41.0	28.0	13.04	3.145 SF		
2,333.3	2,332.9	2,333.0	2,332.3	6.2	6.9	-84.54	36.5	-26.4	41.3	28.2	13.08	3.155		
2,400.0	2,399.3	2,398.7	2,397.7	6.3	7.0	-80.78	42.1	-24.6	42.1	29.0	13.20	3.194		
2,500.0	2,498.5	2,497.1	2,495.6	6.6	7.2	-81.26	51.8	-24.4	45.2	31.7	13.49	3.349		
2,600.0	2,597.2	2,595.1	2,592.9	6.9	7.4	-86.05	63.2	-27.0	50.9	37.1	13.77	3.695		
2,700.0	2,695.3	2,692.5	2,689.3	7.2	7.6	-92.43	76.1	-32.6	60.1	46.1	14.07	4.273		
2,800.0	2,792.7	2,789.1	2,784.4	7.6	7.9	-98.56	90.6	-40.9	73.4	59.0	14.39	5.098		
2,863.2	2,853.9	2,850.3	2,844.5	7.8	8.0	-101.99	100.5	-47.5	83.8	69.3	14.56	5.759		
2,900.0	2,889.3	2,886.3	2,879.8	7.9	8.1	-104.26	106.4	-51.5	90.3	75.6	14.66	6.155		
3,000.0	2,985.8	2,984.3	2,975.9	8.2	8.3	-109.07	122.5	-62.4	108.3	93.2	15.05	7.195		
3,100.0	3,082.2	3,082.4	3,071.9	8.5	8.6	-112.49	138.5	-73.4	126.8	111.3	15.44	8.213		
3,200.0	3,178.7	3,180.4	3,168.0	8.9	8.9	-115.04	154.6	-84.3	145.6	129.8	15.84	9.196		
3,300.0	3,275.1	3,278.4	3,264.1	9.3	9.2	-117.01	170.7	-95.2	164.7	148.5	16.25	10.138		
3,400.0	3,371.6	3,376.4	3,360.2	9.6	9.5	-118.56	186.8	-106.1	183.9	167.3	16.66	11.038		
3,500.0	3,468.0	3,474.5	3,456.3	10.0	9.8	-119.82	202.8	-117.1	203.3	186.2	17.09	11.894		
3,600.0	3,564.5	3,572.5	3,552.3	10.4	10.2	-120.87	218.9	-128.0	222.7	205.1	17.52	12.706		
3,700.0	3,660.9	3,670.5	3,648.4	10.9	10.5	-121.74	235.0	-138.9	242.1	224.2	17.97	13.476		
3,800.0	3,757.4	3,768.6	3,744.5	11.3	10.9	-122.49	251.0	-149.8	261.6	243.2	18.42	14.206		
3,900.0	3,853.8	3,866.6	3,840.6	11.7	11.2	-123.13	267.1	-160.8	281.2	262.3	18.88	14.896		
4,000.0	3,950.3	3,964.6	3,936.7	12.1	11.6	-123.69	283.2	-171.7	300.8	281.4	19.34	15.550		
4,100.0	4,046.7	4,062.6	4,032.7	12.6	12.0	-124.18	299.3	-182.6	320.4	300.6	19.81	16.169		
4,200.0	4,143.2	4,160.7	4,128.8	13.0	12.4	-124.61	315.3	-193.6	340.0	319.7	20.29	16.754		
4,300.0	4,239.6	4,258.7	4,224.9	13.4	12.8	-125.00	331.4	-204.5	359.6	338.9	20.78	17.309		
4,400.0	4,336.1	4,356.7	4,321.0	13.9	13.2	-125.34	347.5	-215.4	379.3	358.0	21.27	17.834		
4,500.0	4,432.5	4,454.7	4,417.1	14.3	13.5	-125.65	363.5	-226.3	398.9	377.2	21.76	18.332		
4,600.0	4,529.0	4,552.8	4,513.1	14.8	13.9	-125.94	379.6	-237.3	418.6	396.4	22.26	18.804		
4,700.0	4,625.4	4,650.8	4,609.2	15.3	14.4	-126.19	395.7	-248.2	438.3	415.5	22.77	19.252		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
4,800.0	4,721.9	4,748.8	4,705.3	15.7	14.8	-126.43	411.7	-259.1	458.0	434.7	23.28	19.677	
4,900.0	4,818.3	4,846.8	4,801.4	16.2	15.2	-126.65	427.8	-270.0	477.7	453.9	23.79	20.081	
5,000.0	4,914.8	4,944.9	4,897.5	16.6	15.6	-126.84	443.9	-281.0	497.4	473.1	24.31	20.464	
5,074.5	4,986.6	5,017.9	4,969.0	17.0	15.9	-126.98	455.9	-289.1	512.1	487.4	24.68	20.749	
5,100.0	5,011.2	5,042.9	4,993.5	17.1	16.0	-127.06	460.0	-291.9	517.1	492.3	24.80	20.849	
5,200.0	5,108.0	5,141.1	5,089.8	17.6	16.4	-127.27	476.1	-302.8	536.0	510.7	25.31	21.178	
5,300.0	5,205.2	5,239.5	5,186.2	18.0	16.8	-127.32	492.2	-313.8	553.9	528.1	25.79	21.475	
5,400.0	5,302.8	5,338.0	5,282.8	18.5	17.3	-127.23	508.3	-324.8	570.8	544.5	26.25	21.741	
5,500.0	5,400.8	5,436.7	5,379.5	18.9	17.7	-127.00	524.5	-335.8	586.6	559.9	26.69	21.978	
5,600.0	5,499.1	5,535.5	5,476.3	19.4	18.1	-126.65	540.7	-346.8	601.4	574.3	27.10	22.191	
5,700.0	5,597.7	5,634.3	5,573.2	19.8	18.6	-126.19	556.9	-357.8	615.3	587.8	27.49	22.381	
5,800.0	5,696.6	5,733.2	5,670.1	20.2	19.0	-125.61	573.1	-368.8	628.1	600.3	27.85	22.551	
5,900.0	5,795.7	5,832.1	5,767.1	20.6	19.4	-124.93	589.3	-379.8	640.1	611.9	28.19	22.705	
6,000.0	5,895.1	5,931.0	5,864.0	21.0	19.9	-124.14	605.6	-390.9	651.3	622.8	28.51	22.843	
6,100.0	5,994.6	6,029.8	5,960.9	21.4	20.3	-123.25	621.8	-401.9	661.6	632.8	28.80	22.969	
6,200.0	6,094.3	6,128.6	6,057.7	21.8	20.7	-122.26	638.0	-412.9	671.2	642.1	29.08	23.082	
6,300.0	6,194.1	6,227.2	6,154.4	22.2	21.2	-121.18	654.1	-423.9	680.1	650.8	29.34	23.184	
6,400.0	6,294.0	6,325.7	6,250.9	22.5	21.6	-120.00	670.3	-434.9	688.4	658.9	29.58	23.276	
6,500.0	6,393.9	6,424.1	6,347.3	22.8	22.1	-118.73	686.4	-445.8	696.2	666.4	29.81	23.359	
6,600.0	6,493.9	6,522.2	6,443.5	23.0	22.5	-117.36	702.5	-456.8	703.6	673.6	30.01	23.451	
6,606.1	6,500.0	6,528.1	6,449.3	23.0	22.5	-103.30	703.5	-457.4	704.1	674.1	30.02	23.455	
6,700.0	6,593.9	6,620.2	6,539.6	23.0	22.9	-101.92	718.6	-467.7	711.1	680.9	30.19	23.550	
6,800.0	6,693.9	6,718.2	6,635.6	23.1	23.4	-100.48	734.6	-478.6	718.9	688.5	30.43	23.627	
6,900.0	6,793.9	6,816.2	6,731.7	23.1	23.8	-99.08	750.7	-489.5	727.3	696.6	30.71	23.683	
7,000.0	6,893.9	6,914.3	6,827.8	23.2	24.3	-97.70	766.8	-500.5	736.0	705.0	31.03	23.723	
7,100.0	6,993.9	7,016.3	6,927.8	23.2	24.7	-96.33	783.2	-511.6	745.1	713.7	31.38	23.742	
7,200.0	7,093.9	7,121.3	7,031.2	23.3	25.2	-95.07	798.7	-522.1	753.7	721.9	31.80	23.704	
7,300.0	7,193.9	7,227.0	7,135.6	23.3	25.6	-93.95	812.6	-531.6	761.7	729.5	32.22	23.639	
7,400.0	7,293.9	7,333.3	7,240.8	23.4	26.1	-92.98	825.1	-540.1	769.0	736.3	32.65	23.553	
7,500.0	7,393.9	7,440.2	7,346.8	23.4	26.5	-92.15	836.0	-547.5	775.5	742.4	33.07	23.450	
7,600.0	7,493.9	7,547.5	7,453.5	23.5	26.9	-91.45	845.3	-553.8	781.1	747.6	33.48	23.333	
7,700.0	7,593.9	7,655.2	7,560.8	23.5	27.3	-90.88	852.9	-559.0	785.8	752.0	33.86	23.205	
7,800.0	7,693.9	7,763.2	7,668.5	23.6	27.7	-90.44	858.9	-563.1	789.5	755.3	34.22	23.071	
7,900.0	7,793.9	7,871.4	7,776.6	23.6	28.1	-90.13	863.2	-566.0	792.2	757.7	34.55	22.932	
8,000.0	7,893.9	7,979.8	7,885.0	23.7	28.4	-89.94	865.9	-567.8	793.9	759.1	34.83	22.793	
8,100.0	7,993.9	8,088.2	7,993.4	23.7	28.6	-89.87	866.8	-568.5	794.5	759.5	35.03	22.683	
8,200.0	8,093.9	8,188.7	8,093.9	23.8	28.7	-89.87	866.8	-568.5	794.5	759.3	35.20	22.569	
8,300.0	8,193.9	8,288.7	8,193.9	23.8	28.7	-89.87	866.8	-568.5	794.5	759.2	35.34	22.484	
8,400.0	8,293.9	8,388.7	8,293.9	23.9	28.8	-89.87	866.8	-568.5	794.5	759.0	35.47	22.402	
8,500.0	8,393.9	8,488.7	8,393.9	23.9	28.8	-89.87	866.8	-568.5	794.5	758.9	35.59	22.321	
8,600.0	8,493.9	8,588.7	8,493.9	24.0	28.9	-89.87	866.8	-568.5	794.5	758.8	35.72	22.240	
8,700.0	8,593.9	8,688.7	8,593.9	24.0	28.9	-89.87	866.8	-568.5	794.5	758.6	35.85	22.160	
8,800.0	8,693.9	8,788.7	8,693.9	24.1	28.9	-89.87	866.8	-568.5	794.5	758.5	35.98	22.080	
8,900.0	8,793.9	8,888.7	8,793.9	24.1	29.0	-89.87	866.8	-568.5	794.5	758.4	36.11	22.001	
9,000.0	8,893.9	8,988.7	8,893.9	24.2	29.0	-89.87	866.8	-568.5	794.5	758.3	36.24	21.922	
9,100.0	8,993.9	9,088.7	8,993.9	24.3	29.1	-89.87	866.8	-568.5	794.5	758.1	36.37	21.844	
9,200.0	9,093.9	9,188.7	9,093.9	24.3	29.1	-89.87	866.8	-568.5	794.5	758.0	36.50	21.765	
9,300.0	9,193.9	9,288.7	9,193.9	24.4	29.2	-89.87	866.8	-568.5	794.5	757.9	36.63	21.688	
9,400.0	9,293.9	9,388.7	9,293.9	24.4	29.2	-89.87	866.8	-568.5	794.5	757.7	36.76	21.610	
9,500.0	9,393.9	9,488.7	9,393.9	24.5	29.3	-89.87	866.8	-568.5	794.5	757.6	36.90	21.533	
9,600.0	9,493.9	9,588.7	9,493.9	24.5	29.3	-89.87	866.8	-568.5	794.5	757.5	37.03	21.457	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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	9,593.9	9,688.7	9,593.9	24.6	29.3	-89.87	866.8	-568.5	794.5	757.3	37.16	21.381	
9,800.0	9,693.9	9,788.7	9,693.9	24.6	29.4	-89.87	866.8	-568.5	794.5	757.2	37.29	21.305	
9,900.0	9,793.9	9,888.7	9,793.9	24.7	29.4	-89.87	866.8	-568.5	794.5	757.1	37.42	21.230	
10,000.0	9,893.9	9,988.7	9,893.9	24.7	29.5	-89.87	866.8	-568.5	794.5	756.9	37.56	21.155	
10,100.0	9,993.9	10,088.7	9,993.9	24.8	29.5	-89.87	866.8	-568.5	794.5	756.8	37.69	21.081	
10,200.0	10,093.9	10,188.7	10,093.9	24.9	29.6	-89.87	866.8	-568.5	794.5	756.7	37.82	21.007	
10,300.0	10,193.9	10,288.7	10,193.9	24.9	29.6	-89.87	866.8	-568.5	794.5	756.5	37.95	20.933	
10,400.0	10,293.9	10,388.7	10,293.9	25.0	29.7	-89.87	866.8	-568.5	794.5	756.4	38.09	20.860	
10,500.0	10,393.9	10,488.7	10,393.9	25.0	29.7	-89.87	866.8	-568.5	794.5	756.3	38.22	20.787	
10,600.0	10,493.9	10,588.7	10,493.9	25.1	29.7	-89.87	866.8	-568.5	794.5	756.1	38.35	20.714	
10,700.0	10,593.9	10,688.7	10,593.9	25.1	29.8	-89.87	866.8	-568.5	794.5	756.0	38.49	20.642	
10,800.0	10,693.9	10,788.7	10,693.9	25.2	29.8	-89.87	866.8	-568.5	794.5	755.9	38.62	20.570	
10,900.0	10,793.9	10,888.7	10,793.9	25.2	29.9	-89.87	866.8	-568.5	794.5	755.7	38.76	20.499	
11,000.0	10,893.9	10,988.7	10,893.9	25.3	29.9	-89.87	866.8	-568.5	794.5	755.6	38.89	20.428	
11,100.0	10,993.9	11,088.7	10,993.9	25.4	30.0	-89.87	866.8	-568.5	794.5	755.5	39.03	20.358	
11,200.0	11,093.9	11,188.7	11,093.9	25.4	30.0	-89.87	866.8	-568.5	794.5	755.3	39.16	20.287	
11,300.0	11,193.9	11,288.7	11,193.9	25.5	30.1	-89.87	866.8	-568.5	794.5	755.2	39.30	20.218	
11,400.0	11,293.9	11,388.7	11,293.9	25.5	30.1	-89.87	866.8	-568.5	794.5	755.1	39.43	20.148	
11,406.6	11,300.5	11,395.3	11,300.5	25.5	30.1	-89.87	866.8	-568.5	794.5	755.1	39.44	20.144	
11,465.6	11,359.5	11,450.0	11,355.2	25.6	30.1	-89.89	866.5	-568.5	794.6	755.1	39.49	20.118	
11,475.0	11,368.9	11,457.4	11,362.6	25.6	30.1	90.34	866.1	-568.6	794.6	755.1	39.50	20.119	
11,500.0	11,393.9	11,477.6	11,382.7	25.5	30.0	90.26	864.6	-568.8	794.9	755.4	39.50	20.125	
11,525.0	11,418.8	11,500.0	11,405.0	25.4	30.0	90.18	861.9	-569.2	795.3	755.9	39.49	20.139	
11,550.0	11,443.5	11,517.9	11,422.6	25.3	29.9	90.10	859.0	-569.6	795.9	756.4	39.51	20.146	
11,575.0	11,468.0	11,538.0	11,442.3	25.2	29.9	90.01	855.0	-570.2	796.7	757.2	39.52	20.159	
11,600.0	11,492.2	11,558.2	11,461.9	25.2	29.8	89.92	850.2	-570.9	797.6	758.1	39.54	20.174	
11,625.0	11,516.0	11,578.3	11,481.2	25.1	29.7	89.83	844.5	-571.7	798.6	759.1	39.56	20.190	
11,650.0	11,539.4	11,600.0	11,501.7	25.0	29.7	89.74	837.6	-572.8	799.8	760.3	39.57	20.214	
11,675.0	11,562.3	11,618.6	11,519.0	24.9	29.6	89.63	830.9	-573.7	801.2	761.6	39.61	20.229	
11,700.0	11,584.6	11,638.7	11,537.4	24.8	29.5	89.54	822.8	-574.9	802.7	763.0	39.64	20.251	
11,725.0	11,606.4	11,658.9	11,555.5	24.7	29.5	89.43	814.0	-576.2	804.3	764.6	39.67	20.275	
11,750.0	11,627.4	11,679.1	11,573.3	24.6	29.4	89.33	804.5	-577.6	806.1	766.4	39.71	20.300	
11,775.0	11,647.7	11,700.0	11,591.2	24.5	29.3	89.23	793.8	-579.1	808.0	768.2	39.74	20.330	
11,800.0	11,667.3	11,719.7	11,607.6	24.4	29.2	89.13	783.1	-580.7	810.0	770.2	39.79	20.355	
11,825.0	11,685.9	11,740.0	11,624.1	24.3	29.2	89.02	771.3	-582.4	812.1	772.3	39.84	20.384	
11,850.0	11,703.7	11,760.4	11,640.1	24.2	29.1	88.92	758.8	-584.3	814.4	774.5	39.89	20.416	
11,875.0	11,720.6	11,780.9	11,655.6	24.1	29.0	88.81	745.6	-586.2	816.8	776.9	39.94	20.449	
11,900.0	11,736.4	11,800.0	11,669.6	24.1	29.0	88.69	732.6	-588.1	819.3	779.3	40.01	20.475	
11,925.0	11,751.2	11,822.0	11,684.9	24.0	28.9	88.60	717.1	-590.3	821.9	781.8	40.05	20.520	
11,950.0	11,765.0	11,842.7	11,698.8	23.9	28.9	88.50	701.8	-592.6	824.6	784.5	40.11	20.558	
11,975.0	11,777.6	11,863.5	11,711.9	23.9	28.8	88.40	685.9	-594.9	827.4	787.2	40.17	20.598	
12,000.0	11,789.1	11,884.4	11,724.5	23.8	28.8	88.30	669.4	-597.3	830.3	790.1	40.23	20.640	
12,025.0	11,799.4	11,905.4	11,736.3	23.8	28.7	88.20	652.2	-599.8	833.3	793.0	40.29	20.684	
12,050.0	11,808.5	11,925.0	11,746.7	23.7	28.7	88.09	635.7	-602.2	836.4	796.0	40.36	20.720	
12,075.0	11,816.4	11,947.8	11,757.8	23.7	28.6	88.01	616.1	-605.1	839.5	799.1	40.40	20.779	
12,100.0	11,823.0	11,969.2	11,767.4	23.6	28.6	87.92	597.2	-607.8	842.7	802.3	40.46	20.830	
12,125.0	11,828.4	11,990.7	11,776.3	23.6	28.6	87.84	577.7	-610.7	846.0	805.5	40.51	20.883	
12,150.0	11,832.5	12,012.5	11,784.2	23.6	28.5	87.76	557.7	-613.6	849.3	808.8	40.56	20.938	
12,175.0	11,835.2	12,034.4	11,791.3	23.6	28.5	87.68	537.2	-616.6	852.7	812.1	40.61	20.996	
12,200.0	11,836.7	12,056.5	11,797.5	23.6	28.5	87.61	516.2	-619.6	856.1	815.5	40.66	21.056	
12,215.6	11,837.0	12,070.3	11,800.9	23.6	28.5	87.57	502.9	-621.6	858.3	817.6	40.69	21.094	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
12,300.0	11,837.0	12,148.0	11,812.5	23.6	28.5	88.37	427.0	-632.7	870.4	829.5	40.87	21.299	
12,400.0	11,837.0	12,273.9	11,813.7	23.6	28.5	88.48	302.3	-649.3	884.2	843.3	40.91	21.613	
12,500.0	11,837.0	12,418.2	11,813.7	23.7	28.7	88.50	158.5	-661.9	893.4	852.4	40.97	21.807	
12,600.0	11,837.0	12,563.6	11,813.7	23.7	28.8	88.51	13.3	-667.2	897.5	856.3	41.20	21.785	
12,700.0	11,837.0	12,679.4	11,813.7	23.7	28.9	88.51	-102.6	-667.0	897.6	855.9	41.72	21.517	
12,800.0	11,837.0	12,779.4	11,813.7	23.8	29.0	88.51	-202.6	-666.3	897.5	855.0	42.41	21.161	
12,900.0	11,837.0	12,879.4	11,813.7	23.9	29.2	88.51	-302.6	-665.7	897.3	854.1	43.18	20.781	
13,000.0	11,837.0	12,979.4	11,813.7	23.9	29.3	88.51	-402.6	-665.0	897.1	853.1	44.01	20.383	
13,100.0	11,837.0	13,079.4	11,813.7	24.1	29.5	88.51	-502.6	-664.4	896.9	852.0	44.91	19.969	
13,200.0	11,837.0	13,179.4	11,813.7	24.2	29.7	88.51	-602.6	-663.8	896.7	850.9	45.88	19.546	
13,300.0	11,837.0	13,279.4	11,813.7	24.3	29.9	88.51	-702.6	-663.1	896.6	849.7	46.90	19.117	
13,400.0	11,837.0	13,379.4	11,813.7	24.6	30.2	88.51	-802.6	-662.5	896.4	848.4	47.97	18.685	
13,500.0	11,837.0	13,479.4	11,813.7	24.8	30.4	88.51	-902.6	-661.9	896.2	847.1	49.10	18.253	
13,600.0	11,837.0	13,579.4	11,813.7	25.1	30.7	88.51	-1,002.6	-661.2	896.0	845.7	50.27	17.823	
13,700.0	11,837.0	13,679.4	11,813.7	25.5	31.0	88.51	-1,102.6	-660.6	895.8	844.3	51.49	17.398	
13,800.0	11,837.0	13,779.4	11,813.7	26.0	31.4	88.51	-1,202.6	-660.0	895.7	842.9	52.75	16.980	
13,900.0	11,837.0	13,879.4	11,813.7	26.5	31.7	88.51	-1,302.6	-659.3	895.5	841.4	54.04	16.570	
14,000.0	11,837.0	13,979.4	11,813.7	27.0	32.1	88.51	-1,402.6	-658.7	895.3	839.9	55.37	16.169	
14,100.0	11,837.0	14,079.4	11,813.7	27.7	32.6	88.51	-1,502.5	-658.1	895.1	838.4	56.74	15.777	
14,200.0	11,837.0	14,179.4	11,813.7	28.3	33.0	88.51	-1,602.5	-657.4	894.9	836.8	58.13	15.396	
14,300.0	11,837.0	14,279.4	11,813.7	29.0	33.5	88.51	-1,702.5	-656.8	894.8	835.2	59.55	15.025	
14,400.0	11,837.0	14,379.4	11,813.7	29.7	34.1	88.51	-1,802.5	-656.2	894.6	833.6	61.00	14.665	
14,500.0	11,837.0	14,479.4	11,813.7	30.4	34.6	88.51	-1,902.5	-655.5	894.4	831.9	62.47	14.317	
14,600.0	11,837.0	14,579.4	11,813.7	31.2	35.2	88.51	-2,002.5	-654.9	894.2	830.3	63.97	13.979	
14,700.0	11,837.0	14,679.4	11,813.7	31.9	35.8	88.51	-2,102.5	-654.3	894.0	828.6	65.48	13.653	
14,800.0	11,837.0	14,779.4	11,813.7	32.7	36.4	88.51	-2,202.5	-653.6	893.9	826.8	67.02	13.337	
14,900.0	11,837.0	14,879.4	11,813.7	33.5	37.0	88.51	-2,302.5	-653.0	893.7	825.1	68.58	13.032	
15,000.0	11,837.0	14,979.4	11,813.7	34.3	37.7	88.51	-2,402.5	-652.4	893.5	823.4	70.15	12.738	
15,100.0	11,837.0	15,079.4	11,813.7	35.1	38.4	88.51	-2,502.5	-651.7	893.3	821.6	71.73	12.453	
15,200.0	11,837.0	15,179.4	11,813.7	36.0	39.1	88.51	-2,602.5	-651.1	893.1	819.8	73.34	12.179	
15,300.0	11,837.0	15,279.4	11,813.7	36.8	39.8	88.50	-2,702.5	-650.5	893.0	818.0	74.95	11.913	
15,400.0	11,837.0	15,379.4	11,813.7	37.6	40.5	88.50	-2,802.5	-649.8	892.8	816.2	76.58	11.658	
15,500.0	11,837.0	15,479.4	11,813.7	38.5	41.3	88.50	-2,902.5	-649.2	892.6	814.4	78.23	11.411	
15,600.0	11,837.0	15,579.4	11,813.7	39.3	42.0	88.50	-3,002.5	-648.6	892.4	812.5	79.88	11.172	
15,700.0	11,837.0	15,679.4	11,813.7	40.2	42.8	88.50	-3,102.5	-647.9	892.2	810.7	81.54	10.942	
15,800.0	11,837.0	15,779.4	11,813.7	41.0	43.6	88.50	-3,202.5	-647.3	892.1	808.8	83.22	10.720	
15,900.0	11,837.0	15,879.4	11,813.7	41.9	44.3	88.50	-3,302.5	-646.7	891.9	807.0	84.90	10.505	
16,000.0	11,837.0	15,979.4	11,813.7	42.8	45.1	88.50	-3,402.5	-646.0	891.7	805.1	86.60	10.297	
16,100.0	11,837.0	16,079.4	11,813.7	43.7	45.9	88.50	-3,502.5	-645.4	891.5	803.2	88.30	10.097	
16,200.0	11,837.0	16,179.4	11,813.7	44.5	46.8	88.50	-3,602.5	-644.8	891.3	801.3	90.01	9.903	
16,300.0	11,837.0	16,279.4	11,813.7	45.4	47.6	88.50	-3,702.5	-644.1	891.2	799.4	91.72	9.716	
16,400.0	11,837.0	16,379.4	11,813.7	46.3	48.4	88.50	-3,802.5	-643.5	891.0	797.5	93.45	9.535	
16,500.0	11,837.0	16,479.4	11,813.7	47.2	49.2	88.50	-3,902.5	-642.9	890.8	795.6	95.18	9.359	
16,600.0	11,837.0	16,579.4	11,813.7	48.1	50.1	88.50	-4,002.5	-642.2	890.6	793.7	96.92	9.190	
16,700.0	11,837.0	16,679.4	11,813.7	49.0	50.9	88.50	-4,102.5	-641.6	890.4	791.8	98.66	9.025	
16,800.0	11,837.0	16,779.4	11,813.7	49.9	51.8	88.50	-4,202.5	-641.0	890.3	789.9	100.41	8.866	
16,900.0	11,837.0	16,879.4	11,813.7	50.8	52.6	88.50	-4,302.5	-640.3	890.1	787.9	102.16	8.712	
17,000.0	11,837.0	16,979.4	11,813.7	51.7	53.5	88.50	-4,402.5	-639.7	889.9	786.0	103.92	8.563	
17,100.0	11,837.0	17,079.4	11,813.7	52.6	54.3	88.50	-4,502.5	-639.1	889.7	784.0	105.69	8.418	
17,200.0	11,837.0	17,179.4	11,813.7	53.5	55.2	88.50	-4,602.5	-638.4	889.5	782.1	107.46	8.278	
17,300.0	11,837.0	17,279.4	11,813.7	54.4	56.1	88.50	-4,702.5	-637.8	889.4	780.1	109.23	8.142	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
17,400.0	11,837.0	17,379.4	11,813.7	55.3	56.9	88.50	-4,802.5	-637.2	889.2	778.2	111.01	8.010	
17,500.0	11,837.0	17,479.4	11,813.7	56.2	57.8	88.50	-4,902.5	-636.5	889.0	776.2	112.79	7.882	
17,600.0	11,837.0	17,579.4	11,813.7	57.1	58.7	88.50	-5,002.5	-635.9	888.8	774.3	114.58	7.758	
17,700.0	11,837.0	17,679.4	11,813.7	58.1	59.6	88.50	-5,102.5	-635.3	888.6	772.3	116.36	7.637	
17,800.0	11,837.0	17,779.4	11,813.7	59.0	60.5	88.50	-5,202.5	-634.6	888.5	770.3	118.16	7.519	
17,900.0	11,837.0	17,879.4	11,813.7	59.9	61.4	88.50	-5,302.5	-634.0	888.3	768.3	119.95	7.405	
18,000.0	11,837.0	17,979.4	11,813.7	60.8	62.3	88.50	-5,402.5	-633.4	888.1	766.4	121.75	7.294	
18,100.0	11,837.0	18,079.4	11,813.7	61.7	63.1	88.50	-5,502.5	-632.7	887.9	764.4	123.55	7.187	
18,200.0	11,837.0	18,179.4	11,813.7	62.7	64.0	88.50	-5,602.5	-632.1	887.7	762.4	125.36	7.082	
18,300.0	11,837.0	18,279.4	11,813.7	63.6	64.9	88.50	-5,702.5	-631.5	887.6	760.4	127.17	6.980	
18,400.0	11,837.0	18,379.4	11,813.7	64.5	65.8	88.50	-5,802.5	-630.8	887.4	758.4	128.98	6.880	
18,500.0	11,837.0	18,479.4	11,813.7	65.4	66.7	88.50	-5,902.5	-630.2	887.2	756.4	130.79	6.783	
18,600.0	11,837.0	18,579.4	11,813.7	66.4	67.6	88.49	-6,002.5	-629.6	887.0	754.4	132.61	6.689	
18,700.0	11,837.0	18,679.4	11,813.7	67.3	68.6	88.49	-6,102.4	-628.9	886.8	752.4	134.43	6.597	
18,800.0	11,837.0	18,779.4	11,813.7	68.2	69.5	88.49	-6,202.4	-628.3	886.7	750.4	136.25	6.508	
18,900.0	11,837.0	18,879.4	11,813.7	69.2	70.4	88.49	-6,302.4	-627.7	886.5	748.4	138.07	6.421	
19,000.0	11,837.0	18,979.4	11,813.7	70.1	71.3	88.49	-6,402.4	-627.0	886.3	746.4	139.89	6.336	
19,100.0	11,837.0	19,079.4	11,813.7	71.0	72.2	88.49	-6,502.4	-626.4	886.1	744.4	141.72	6.253	
19,200.0	11,837.0	19,179.4	11,813.7	72.0	73.1	88.49	-6,602.4	-625.8	886.0	742.4	143.55	6.172	
19,300.0	11,837.0	19,279.4	11,813.7	72.9	74.0	88.49	-6,702.4	-625.1	885.8	740.4	145.38	6.093	
19,400.0	11,837.0	19,379.4	11,813.7	73.8	74.9	88.49	-6,802.4	-624.5	885.6	738.4	147.21	6.016	
19,500.0	11,837.0	19,479.4	11,813.7	74.8	75.9	88.49	-6,902.4	-623.9	885.4	736.4	149.04	5.941	
19,565.2	11,837.0	19,544.6	11,813.7	75.4	76.5	88.49	-6,967.6	-623.5	885.3	735.1	150.24	5.893	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	3.0	-54.61	11.6	-16.3	20.0					
100.0	100.0	100.0	100.0	0.8	3.1	-54.61	11.6	-16.3	20.0	15.0	4.95	4.042		
200.0	200.0	200.0	200.0	1.4	3.3	-54.61	11.6	-16.3	20.0	14.4	5.55	3.604		
300.0	300.0	300.0	300.0	1.9	3.5	-54.61	11.6	-16.3	20.0	13.9	6.09	3.283		
400.0	400.0	400.0	400.0	2.3	3.8	-54.61	11.6	-16.3	20.0	13.4	6.59	3.035		
500.0	500.0	500.0	500.0	2.6	4.0	-54.61	11.6	-16.3	20.0	12.9	7.05	2.835 Normal Operations		
600.0	600.0	600.0	600.0	2.9	4.1	-54.61	11.6	-16.3	20.0	12.5	7.49	2.669 Normal Operations		
700.0	700.0	700.0	700.0	3.1	4.3	-54.61	11.6	-16.3	20.0	12.1	7.91	2.529 Normal Operations		
800.0	800.0	800.0	800.0	3.4	4.5	-54.61	11.6	-16.3	20.0	11.7	8.30	2.408 Caution - Monitor Closely		
900.0	900.0	900.0	900.0	3.6	4.7	-54.61	11.6	-16.3	20.0	11.3	8.68	2.303 Caution - Monitor Closely		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	4.8	-54.61	11.6	-16.3	20.0	10.9	9.05	2.209 Caution - Monitor Closely		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	5.0	-54.61	11.6	-16.3	20.0	10.6	9.40	2.126 Caution - Monitor Closely		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	5.2	-54.61	11.6	-16.3	20.0	10.2	9.75	2.051 Caution - Monitor Closely		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	5.3	-54.61	11.6	-16.3	20.0	9.9	10.08	1.983 Caution - Monitor Closely		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	5.5	-54.61	11.6	-16.3	20.0	9.6	10.41	1.921 Caution - Monitor Closely		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	5.6	-54.61	11.6	-16.3	20.0	9.3	10.73	1.864 Caution - Monitor Closely		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	5.8	-54.61	11.6	-16.3	20.0	9.0	11.04	1.812 Caution - Monitor Closely		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.9	-54.61	11.6	-16.3	20.0	8.7	11.34	1.763 Caution - Monitor Closely		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	6.0	-54.61	11.6	-16.3	20.0	8.4	11.64	1.718 Caution - Monitor Closely		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	6.2	-54.61	11.6	-16.3	20.0	8.1	11.93	1.676 Caution - Monitor Closely		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	6.3	-54.61	11.6	-16.3	20.0	7.8	12.22	1.636 Caution - Monitor Closely		
2,100.0	2,100.0	2,100.0	2,100.0	5.7	6.5	-88.36	11.6	-16.3	19.9	7.4	12.50	1.593 Caution - Monitor Closely		
2,119.8	2,119.8	2,119.8	2,119.8	5.8	6.5	-90.00	11.6	-16.3	19.9	7.4	12.55	1.586 Caution - Monitor Closely, CC, ES		
2,200.0	2,199.9	2,199.9	2,199.9	5.9	6.6	-99.56	11.6	-16.3	20.2	7.4	12.78	1.580 Caution - Monitor Closely, SF		
2,300.0	2,299.7	2,299.7	2,299.7	6.2	6.7	-116.36	11.6	-16.3	22.2	9.2	13.07	1.701 Caution - Monitor Closely		
2,333.3	2,332.9	2,332.9	2,332.9	6.2	6.8	-122.35	11.6	-16.3	23.6	10.4	13.15	1.794 Caution - Monitor Closely		
2,400.0	2,399.3	2,399.3	2,399.3	6.3	6.8	-129.34	11.6	-16.3	27.4	14.1	13.35	2.053 Caution - Monitor Closely		
2,500.0	2,498.5	2,498.5	2,498.5	6.6	7.0	-140.74	11.6	-16.3	36.4	22.6	13.77	2.642 Normal Operations		
2,600.0	2,597.2	2,598.8	2,598.8	6.9	7.2	-149.61	13.0	-15.3	47.9	33.6	14.28	3.353		
2,700.0	2,695.3	2,699.6	2,699.5	7.2	7.4	-156.26	17.3	-12.3	60.0	45.2	14.83	4.048		
2,800.0	2,792.7	2,799.9	2,799.4	7.6	7.5	-161.42	24.4	-7.8	72.9	57.6	15.29	4.771		
2,863.2	2,853.9	2,862.9	2,862.0	7.8	7.6	-163.27	30.2	-5.9	82.3	66.7	15.58	5.283		
2,900.0	2,889.3	2,899.5	2,898.5	7.9	7.7	-164.22	34.1	-5.2	88.0	72.3	15.74	5.591		
3,000.0	2,985.8	2,999.5	2,997.7	8.2	7.9	-165.04	46.4	-4.8	102.8	86.5	16.27	6.317		
3,100.0	3,082.2	3,099.8	3,096.9	8.5	8.1	-164.02	61.4	-6.7	116.4	99.6	16.81	6.923		
3,200.0	3,178.7	3,199.9	3,195.3	8.9	8.3	-161.75	78.8	-11.0	129.0	111.7	17.31	7.454		
3,300.0	3,275.1	3,299.0	3,292.6	9.3	8.5	-159.48	96.9	-15.9	141.6	123.7	17.85	7.930		
3,400.0	3,371.6	3,398.1	3,389.9	9.6	8.8	-157.58	115.0	-20.8	154.3	135.9	18.39	8.392		
3,500.0	3,468.0	3,497.1	3,487.2	10.0	9.0	-155.96	133.0	-25.7	167.2	148.2	18.92	8.834		
3,600.0	3,564.5	3,596.2	3,584.5	10.4	9.3	-154.58	151.1	-30.7	180.1	160.7	19.46	9.255		
3,700.0	3,660.9	3,695.3	3,681.7	10.9	9.6	-153.39	169.2	-35.6	193.2	173.2	20.01	9.655		
3,800.0	3,757.4	3,794.3	3,779.0	11.3	9.9	-152.35	187.3	-40.5	206.3	185.8	20.56	10.034		
3,900.0	3,853.8	3,893.4	3,876.3	11.7	10.2	-151.43	205.3	-45.4	219.5	198.4	21.12	10.395		
4,000.0	3,950.3	3,992.5	3,973.6	12.1	10.6	-150.61	223.4	-50.3	232.8	211.1	21.68	10.738		
4,100.0	4,046.7	4,091.5	4,070.9	12.6	10.9	-149.89	241.5	-55.3	246.0	223.8	22.24	11.062		
4,200.0	4,143.2	4,190.6	4,168.2	13.0	11.3	-149.24	259.6	-60.2	259.4	236.5	22.81	11.370		
4,300.0	4,239.6	4,289.7	4,265.4	13.4	11.6	-148.65	277.6	-65.1	272.7	249.3	23.38	11.663		
4,400.0	4,336.1	4,388.7	4,362.7	13.9	12.0	-148.11	295.7	-70.0	286.1	262.1	23.96	11.941		
4,500.0	4,432.5	4,487.8	4,460.0	14.3	12.4	-147.63	313.8	-74.9	299.5	274.9	24.54	12.204		
4,600.0	4,529.0	4,586.9	4,557.3	14.8	12.7	-147.18	331.8	-79.8	312.9	287.8	25.12	12.455		
4,700.0	4,625.4	4,685.9	4,654.6	15.3	13.1	-146.78	349.9	-84.8	326.3	300.6	25.71	12.693		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		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	
4,800.0	4,721.9	4,785.0	4,751.8	15.7	13.5	-146.40	368.0	-89.7	339.8	313.5	26.30	12.920		
4,900.0	4,818.3	4,884.1	4,849.1	16.2	13.9	-146.05	386.1	-94.6	353.2	326.3	26.89	13.136		
5,000.0	4,914.8	4,983.1	4,946.4	16.6	14.3	-145.73	404.1	-99.5	366.7	339.2	27.48	13.342		
5,074.5	4,986.6	5,056.9	5,018.9	17.0	14.6	-145.51	417.6	-103.2	376.7	348.8	27.92	13.495		
5,100.0	5,011.2	5,082.2	5,043.7	17.1	14.7	-145.45	422.2	-104.4	380.1	352.1	28.06	13.548		
5,200.0	5,108.0	5,181.4	5,141.1	17.6	15.1	-145.13	440.3	-109.4	392.6	363.9	28.64	13.708		
5,300.0	5,205.2	5,280.7	5,238.6	18.0	15.5	-144.69	458.4	-114.3	403.6	374.4	29.18	13.831		
5,400.0	5,302.8	5,380.2	5,336.3	18.5	15.9	-144.12	476.6	-119.2	413.2	383.5	29.69	13.919		
5,500.0	5,400.8	5,479.7	5,434.0	18.9	16.3	-143.43	494.7	-124.2	421.5	391.4	30.15	13.978		
5,600.0	5,499.1	5,579.2	5,531.8	19.4	16.7	-142.63	512.9	-129.1	428.5	397.9	30.58	14.013		
5,700.0	5,597.7	5,678.8	5,629.5	19.8	17.2	-141.70	531.0	-134.1	434.2	403.2	30.95	14.027		
5,800.0	5,696.6	5,778.4	5,727.3	20.2	17.6	-140.65	549.2	-139.0	438.7	407.4	31.28	14.026		
5,900.0	5,795.7	5,877.9	5,825.0	20.6	18.0	-139.47	567.4	-144.0	442.0	410.4	31.54	14.014		
6,000.0	5,895.1	5,977.3	5,922.7	21.0	18.4	-138.15	585.5	-148.9	444.2	412.4	31.74	13.996		
6,100.0	5,994.6	6,076.6	6,020.2	21.4	18.8	-136.69	603.6	-153.8	445.3	413.5	31.86	13.976		
6,200.0	6,094.3	6,175.8	6,117.6	21.8	19.3	-135.08	621.7	-158.7	445.5	413.6	31.91	13.961		
6,300.0	6,194.1	6,274.9	6,214.8	22.2	19.7	-133.31	639.8	-163.7	444.9	413.0	31.88	13.954		
6,400.0	6,294.0	6,373.7	6,311.9	22.5	20.1	-131.37	657.8	-168.6	443.6	411.8	31.77	13.964		
6,500.0	6,393.9	6,472.3	6,408.7	22.8	20.6	-129.24	675.8	-173.5	441.6	410.1	31.56	13.995		
6,600.0	6,493.9	6,570.7	6,505.3	23.0	21.0	-126.93	693.7	-178.4	439.3	408.1	31.21	14.073		
6,606.1	6,500.0	6,576.6	6,511.2	23.0	21.0	-112.81	694.8	-178.7	439.1	407.9	31.19	14.079		
6,700.0	6,593.9	6,668.9	6,601.7	23.0	21.4	-110.54	711.7	-183.2	437.1	406.3	30.79	14.198		
6,800.0	6,693.9	6,767.1	6,698.2	23.1	21.9	-108.11	729.6	-188.1	435.7	405.3	30.39	14.339		
6,900.0	6,793.9	6,865.3	6,794.6	23.1	22.3	-105.67	747.5	-193.0	435.2	405.1	30.03	14.489		
6,918.1	6,812.0	6,883.0	6,812.0	23.1	22.4	-105.23	750.7	-193.9	435.1	405.2	29.98	14.517		
7,000.0	6,893.9	6,963.5	6,891.0	23.2	22.7	-103.22	765.4	-197.9	435.4	405.7	29.73	14.644		
7,100.0	6,993.9	7,062.1	6,987.9	23.2	23.2	-100.84	783.0	-202.6	436.5	406.9	29.53	14.780		
7,200.0	7,093.9	7,161.4	7,085.8	23.3	23.6	-98.66	799.1	-207.0	438.1	408.7	29.43	14.885		
7,300.0	7,193.9	7,261.3	7,184.6	23.3	24.0	-96.71	813.6	-211.0	440.1	410.7	29.41	14.962		
7,400.0	7,293.9	7,361.6	7,284.0	23.4	24.4	-94.99	826.5	-214.5	442.3	412.8	29.47	15.007		
7,500.0	7,393.9	7,462.5	7,384.2	23.4	24.8	-93.50	837.9	-217.6	444.5	414.9	29.59	15.023		
7,600.0	7,493.9	7,563.7	7,484.9	23.5	25.2	-92.25	847.5	-220.2	446.6	416.9	29.75	15.013		
7,700.0	7,593.9	7,665.2	7,586.1	23.5	25.6	-91.22	855.4	-222.4	448.5	418.6	29.94	14.984		
7,800.0	7,693.9	7,767.0	7,687.7	23.6	26.0	-90.43	861.7	-224.1	450.1	420.0	30.13	14.937		
7,900.0	7,793.9	7,869.0	7,789.5	23.6	26.3	-89.85	866.1	-225.3	451.3	421.0	30.34	14.877		
8,000.0	7,893.9	7,971.1	7,891.6	23.7	26.6	-89.51	868.9	-226.0	452.1	421.5	30.53	14.807		
8,100.0	7,993.9	8,073.3	7,993.8	23.7	26.8	-89.38	869.9	-226.3	452.3	421.6	30.69	14.737		
8,200.0	8,093.9	8,173.4	8,093.9	23.8	26.8	-89.38	869.9	-226.3	452.3	421.5	30.84	14.667		
8,300.0	8,193.9	8,273.4	8,193.9	23.8	26.9	-89.38	869.9	-226.3	452.3	421.3	30.99	14.596		
8,400.0	8,293.9	8,373.4	8,293.9	23.9	26.9	-89.38	869.9	-226.3	452.3	421.2	31.14	14.526		
8,500.0	8,393.9	8,473.4	8,393.9	23.9	27.0	-89.38	869.9	-226.3	452.3	421.0	31.29	14.457		
8,600.0	8,493.9	8,573.4	8,493.9	24.0	27.0	-89.38	869.9	-226.3	452.3	420.9	31.44	14.389		
8,700.0	8,593.9	8,673.4	8,593.9	24.0	27.1	-89.38	869.9	-226.3	452.3	420.7	31.59	14.321		
8,800.0	8,693.9	8,773.4	8,693.9	24.1	27.1	-89.38	869.9	-226.3	452.3	420.6	31.73	14.253		
8,900.0	8,793.9	8,873.4	8,793.9	24.1	27.2	-89.38	869.9	-226.3	452.3	420.4	31.88	14.187		
9,000.0	8,893.9	8,973.4	8,893.9	24.2	27.2	-89.38	869.9	-226.3	452.3	420.3	32.03	14.121		
9,100.0	8,993.9	9,073.4	8,993.9	24.3	27.3	-89.38	869.9	-226.3	452.3	420.1	32.18	14.055		
9,200.0	9,093.9	9,173.4	9,093.9	24.3	27.3	-89.38	869.9	-226.3	452.3	420.0	32.33	13.990		
9,300.0	9,193.9	9,273.4	9,193.9	24.4	27.4	-89.38	869.9	-226.3	452.3	419.8	32.48	13.925		
9,400.0	9,293.9	9,373.4	9,293.9	24.4	27.4	-89.38	869.9	-226.3	452.3	419.7	32.63	13.861		
9,500.0	9,393.9	9,473.4	9,393.9	24.5	27.4	-89.38	869.9	-226.3	452.3	419.5	32.78	13.798		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
9,600.0	9,493.9	9,573.4	9,493.9	24.5	27.5	-89.38	869.9	-226.3	452.3	419.4	32.93	13.735	
9,700.0	9,593.9	9,673.4	9,593.9	24.6	27.5	-89.38	869.9	-226.3	452.3	419.2	33.08	13.673	
9,800.0	9,693.9	9,773.4	9,693.9	24.6	27.6	-89.38	869.9	-226.3	452.3	419.1	33.23	13.611	
9,900.0	9,793.9	9,873.4	9,793.9	24.7	27.6	-89.38	869.9	-226.3	452.3	418.9	33.38	13.550	
10,000.0	9,893.9	9,973.4	9,893.9	24.7	27.7	-89.38	869.9	-226.3	452.3	418.8	33.53	13.489	
10,100.0	9,993.9	10,073.4	9,993.9	24.8	27.7	-89.38	869.9	-226.3	452.3	418.6	33.68	13.428	
10,200.0	10,093.9	10,173.4	10,093.9	24.9	27.8	-89.38	869.9	-226.3	452.3	418.5	33.84	13.369	
10,300.0	10,193.9	10,273.4	10,193.9	24.9	27.8	-89.38	869.9	-226.3	452.3	418.3	33.99	13.309	
10,400.0	10,293.9	10,373.4	10,293.9	25.0	27.9	-89.38	869.9	-226.3	452.3	418.2	34.14	13.250	
10,500.0	10,393.9	10,473.4	10,393.9	25.0	27.9	-89.38	869.9	-226.3	452.3	418.0	34.29	13.192	
10,600.0	10,493.9	10,573.4	10,493.9	25.1	28.0	-89.38	869.9	-226.3	452.3	417.9	34.44	13.134	
10,700.0	10,593.9	10,673.4	10,593.9	25.1	28.0	-89.38	869.9	-226.3	452.3	417.7	34.59	13.077	
10,800.0	10,693.9	10,773.4	10,693.9	25.2	28.1	-89.38	869.9	-226.3	452.3	417.6	34.74	13.020	
10,900.0	10,793.9	10,873.4	10,793.9	25.2	28.1	-89.38	869.9	-226.3	452.3	417.4	34.89	12.963	
11,000.0	10,893.9	10,973.4	10,893.9	25.3	28.2	-89.38	869.9	-226.3	452.3	417.3	35.04	12.907	
11,100.0	10,993.9	11,073.4	10,993.9	25.4	28.2	-89.38	869.9	-226.3	452.3	417.1	35.20	12.852	
11,200.0	11,093.9	11,173.4	11,093.9	25.4	28.3	-89.38	869.9	-226.3	452.3	417.0	35.35	12.797	
11,300.0	11,193.9	11,273.4	11,193.9	25.5	28.3	-89.38	869.9	-226.3	452.3	416.8	35.50	12.742	
11,400.0	11,293.9	11,373.4	11,293.9	25.5	28.4	-89.38	869.9	-226.3	452.3	416.7	35.65	12.688	
11,465.6	11,359.5	11,439.0	11,359.5	25.6	28.4	-89.38	869.9	-226.3	452.3	416.6	35.74	12.657	
11,475.0	11,368.9	11,448.4	11,368.9	25.6	28.4	90.89	869.9	-226.3	452.3	416.6	35.75	12.654	
11,500.0	11,393.9	11,473.4	11,393.9	25.5	28.5	91.03	869.9	-226.3	452.3	416.6	35.76	12.649	
11,525.0	11,418.8	11,498.3	11,418.8	25.4	28.5	91.34	869.9	-226.3	452.4	416.6	35.78	12.644	
11,550.0	11,443.5	11,523.0	11,443.5	25.3	28.5	91.79	869.9	-226.3	452.5	416.7	35.80	12.639	
11,575.0	11,468.0	11,547.5	11,468.0	25.2	28.5	92.39	869.9	-226.3	452.7	416.9	35.83	12.633	
11,600.0	11,492.2	11,571.7	11,492.2	25.2	28.5	93.13	869.9	-226.3	453.0	417.1	35.88	12.627	
11,625.0	11,516.0	11,595.5	11,516.0	25.1	28.5	93.98	869.9	-226.3	453.5	417.6	35.94	12.619	
11,650.0	11,539.4	11,618.9	11,539.4	25.0	28.5	94.93	869.9	-226.3	454.2	418.2	36.01	12.612	
11,675.0	11,562.3	11,642.6	11,563.1	24.9	28.5	96.00	869.8	-226.3	455.3	419.1	36.11	12.607	
11,700.0	11,584.6	11,668.6	11,589.1	24.8	28.5	97.17	868.7	-226.3	456.5	420.3	36.21	12.608	
11,725.0	11,606.4	11,695.3	11,615.7	24.7	28.4	98.35	866.1	-226.3	458.0	421.7	36.31	12.615	
11,750.0	11,627.4	11,722.7	11,642.8	24.6	28.3	99.51	861.8	-226.2	459.7	423.3	36.41	12.627	
11,775.0	11,647.7	11,750.9	11,670.3	24.5	28.2	100.67	855.9	-226.2	461.6	425.1	36.51	12.644	
11,800.0	11,667.3	11,780.0	11,698.3	24.4	28.1	101.81	848.0	-226.1	463.6	427.0	36.60	12.668	
11,825.0	11,685.9	11,809.9	11,726.5	24.3	27.9	102.93	838.2	-226.1	465.8	429.1	36.68	12.698	
11,850.0	11,703.7	11,840.7	11,754.9	24.2	27.8	104.04	826.2	-226.0	468.1	431.3	36.76	12.734	
11,875.0	11,720.6	11,872.5	11,783.4	24.1	27.7	105.12	812.0	-225.8	470.5	433.6	36.83	12.774	
11,900.0	11,736.4	11,905.3	11,811.6	24.1	27.5	106.17	795.4	-225.7	472.9	436.0	36.89	12.818	
11,925.0	11,751.2	11,939.2	11,839.5	24.0	27.4	107.18	776.2	-225.6	475.3	438.4	36.95	12.862	
11,950.0	11,765.0	11,974.1	11,866.8	23.9	27.3	108.15	754.5	-225.4	477.7	440.7	37.02	12.905	
11,975.0	11,777.6	12,010.0	11,893.2	23.9	27.1	109.07	730.0	-225.2	480.1	443.0	37.10	12.942	
12,000.0	11,789.1	12,047.1	11,918.3	23.8	27.0	109.93	702.8	-225.0	482.3	445.1	37.19	12.969	
12,025.0	11,799.4	12,085.1	11,941.9	23.8	26.9	110.72	672.9	-224.8	484.4	447.1	37.30	12.985	
12,050.0	11,808.5	12,124.2	11,963.5	23.7	26.8	111.43	640.4	-224.5	486.3	448.8	37.45	12.985	
12,075.0	11,816.4	12,164.1	11,982.8	23.7	26.7	112.05	605.5	-224.2	487.9	450.3	37.63	12.966	
12,100.0	11,823.0	12,204.9	11,999.4	23.6	26.6	112.57	568.3	-223.9	489.3	451.5	37.84	12.930	
12,125.0	11,828.4	12,246.3	12,013.0	23.6	26.5	112.99	529.2	-223.6	490.4	452.3	38.09	12.874	
12,150.0	11,832.5	12,288.2	12,023.2	23.6	26.4	113.28	488.6	-223.3	491.1	452.8	38.36	12.803	
12,175.0	11,835.2	12,330.5	12,029.9	23.6	26.4	113.46	446.8	-223.0	491.5	452.9	38.65	12.718	
12,200.0	11,836.7	12,372.9	12,032.8	23.6	26.4	113.51	404.5	-222.6	491.6	452.6	38.94	12.625	
12,215.6	11,837.0	12,393.4	12,033.0	23.6	26.4	113.50	384.0	-222.5	491.4	452.4	39.04	12.589	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
12,300.0	11,837.0	12,477.8	12,033.0	23.6	26.4	113.52	299.6	-221.8	491.2	451.8	39.34	12.485	
12,400.0	11,837.0	12,577.7	12,033.0	23.6	26.4	113.53	199.7	-221.1	490.9	451.1	39.78	12.340	
12,500.0	11,837.0	12,677.7	12,033.0	23.7	26.4	113.55	99.7	-220.3	490.6	450.3	40.30	12.175	
12,600.0	11,837.0	12,777.6	12,033.0	23.7	26.4	113.56	-0.2	-219.6	490.4	449.5	40.90	11.990	
12,700.0	11,837.0	12,877.6	12,033.0	23.7	26.5	113.57	-100.2	-218.8	490.1	448.5	41.57	11.791	
12,800.0	11,837.0	12,977.5	12,033.0	23.8	26.5	113.59	-200.1	-218.1	489.8	447.5	42.31	11.578	
12,900.0	11,837.0	13,077.5	12,033.0	23.9	26.5	113.60	-300.1	-217.4	489.6	446.5	43.12	11.355	
13,000.0	11,837.0	13,177.4	12,033.0	23.9	26.6	113.61	-400.0	-216.7	489.4	445.4	43.99	11.125	
13,100.0	11,837.0	13,277.4	12,033.0	24.1	26.6	113.62	-499.9	-216.0	489.2	444.3	44.92	10.889	
13,200.0	11,837.0	13,377.3	12,033.0	24.2	26.7	113.63	-599.9	-215.3	489.0	443.1	45.91	10.651	
13,300.0	11,837.0	13,477.3	12,033.0	24.3	26.8	113.64	-699.8	-214.7	488.8	441.8	46.95	10.411	
13,400.0	11,837.0	13,577.2	12,033.0	24.6	26.8	113.65	-799.8	-214.0	488.6	440.6	48.04	10.171	
13,500.0	11,837.0	13,677.2	12,033.0	24.8	27.0	113.66	-899.7	-213.4	488.4	439.2	49.17	9.933	
13,600.0	11,837.0	13,777.1	12,033.0	25.1	27.1	113.67	-999.7	-212.7	488.3	437.9	50.35	9.697	
13,700.0	11,837.0	13,877.1	12,033.0	25.5	27.3	113.67	-1,099.6	-212.1	488.1	436.5	51.57	9.465	
13,800.0	11,837.0	13,977.0	12,033.0	26.0	27.5	113.68	-1,199.6	-211.5	488.0	435.1	52.82	9.238	
13,900.0	11,837.0	14,077.0	12,033.0	26.5	27.8	113.69	-1,299.5	-210.9	487.8	433.7	54.11	9.016	
14,000.0	11,837.0	14,176.9	12,033.0	27.0	28.2	113.69	-1,399.5	-210.3	487.7	432.3	55.43	8.799	
14,100.0	11,837.0	14,276.9	12,033.0	27.7	28.6	113.70	-1,499.4	-209.8	487.6	430.8	56.78	8.588	
14,200.0	11,837.0	14,376.8	12,033.0	28.3	29.1	113.71	-1,599.4	-209.2	487.5	429.4	58.15	8.383	
14,300.0	11,837.0	14,476.8	12,033.0	29.0	29.7	113.71	-1,699.3	-208.6	487.4	427.9	59.55	8.184	
14,400.0	11,837.0	14,576.7	12,033.0	29.7	30.3	113.71	-1,799.2	-208.1	487.3	426.4	60.98	7.992	
14,500.0	11,837.0	14,676.7	12,033.0	30.4	31.0	113.72	-1,899.2	-207.6	487.3	424.8	62.43	7.805	
14,600.0	11,837.0	14,776.6	12,033.0	31.2	31.7	113.72	-1,999.1	-207.1	487.2	423.3	63.90	7.625	
14,700.0	11,837.0	14,876.6	12,033.0	31.9	32.5	113.72	-2,099.1	-206.6	487.2	421.8	65.38	7.451	
14,800.0	11,837.0	14,976.5	12,033.0	32.7	33.2	113.72	-2,199.0	-206.1	487.1	420.3	66.89	7.283	
14,900.0	11,837.0	15,076.5	12,033.0	33.5	34.0	113.73	-2,299.0	-205.6	487.1	418.7	68.41	7.120	
15,000.0	11,837.0	15,176.4	12,033.0	34.3	34.8	113.73	-2,398.9	-205.1	487.1	417.2	69.95	6.964	
15,080.6	11,837.0	15,257.0	12,033.0	35.0	35.4	113.73	-2,479.5	-204.8	487.1	415.9	71.20	6.841	
15,100.0	11,837.0	15,276.3	12,033.0	35.1	35.6	113.73	-2,498.9	-204.7	487.1	415.6	71.50	6.812	
15,200.0	11,837.0	15,376.3	12,033.0	36.0	36.4	113.73	-2,598.8	-204.2	487.1	414.0	73.07	6.667	
15,300.0	11,837.0	15,476.2	12,033.0	36.8	37.2	113.73	-2,698.8	-203.8	487.1	412.5	74.65	6.526	
15,400.0	11,837.0	15,576.2	12,033.0	37.6	38.0	113.72	-2,798.7	-203.4	487.2	410.9	76.24	6.390	
15,500.0	11,837.0	15,676.1	12,033.0	38.5	38.9	113.72	-2,898.7	-203.0	487.2	409.4	77.84	6.259	
15,600.0	11,837.0	15,776.1	12,033.0	39.3	39.7	113.72	-2,998.6	-202.6	487.2	407.8	79.45	6.133	
15,700.0	11,837.0	15,876.0	12,033.0	40.2	40.6	113.72	-3,098.6	-202.2	487.3	406.2	81.07	6.011	
15,800.0	11,837.0	15,976.0	12,033.0	41.0	41.4	113.71	-3,198.5	-201.8	487.4	404.7	82.71	5.893	
15,900.0	11,837.0	16,075.9	12,033.0	41.9	42.3	113.71	-3,298.5	-201.4	487.5	403.1	84.35	5.779	
16,000.0	11,837.0	16,175.9	12,033.0	42.8	43.2	113.70	-3,398.4	-201.1	487.5	401.6	85.99	5.670	
16,100.0	11,837.0	16,275.9	12,033.0	43.7	44.0	113.70	-3,498.4	-200.7	487.6	400.0	87.65	5.563	
16,200.0	11,837.0	16,375.9	12,033.0	44.5	44.9	113.69	-3,598.4	-200.4	487.7	398.4	89.32	5.461	
16,300.0	11,837.0	16,475.9	12,033.0	45.4	45.8	113.69	-3,698.4	-200.0	487.8	396.8	90.99	5.361	
16,400.0	11,837.0	16,575.9	12,033.0	46.3	46.7	113.68	-3,798.4	-199.7	487.9	395.2	92.67	5.265	
16,500.0	11,837.0	16,675.9	12,033.0	47.2	47.6	113.68	-3,898.4	-199.3	488.0	393.6	94.36	5.172	
16,600.0	11,837.0	16,775.9	12,033.0	48.1	48.4	113.68	-3,998.4	-198.9	488.1	392.0	96.05	5.082	
16,700.0	11,837.0	16,875.9	12,033.0	49.0	49.3	113.67	-4,098.4	-198.6	488.2	390.4	97.75	4.994	
16,800.0	11,837.0	16,975.9	12,033.0	49.9	50.2	113.67	-4,198.4	-198.2	488.3	388.8	99.46	4.910	
16,900.0	11,837.0	17,075.9	12,033.0	50.8	51.1	113.66	-4,298.4	-197.9	488.4	387.2	101.16	4.827	
17,000.0	11,837.0	17,175.9	12,033.0	51.7	52.0	113.66	-4,398.4	-197.5	488.5	385.6	102.88	4.748	
17,100.0	11,837.0	17,275.9	12,033.0	52.6	52.9	113.65	-4,498.4	-197.2	488.6	384.0	104.60	4.671	
17,200.0	11,837.0	17,375.9	12,033.0	53.5	53.8	113.65	-4,598.4	-196.8	488.6	382.3	106.32	4.596	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
17,300.0	11,837.0	17,475.9	12,033.0	54.4	54.7	113.64	-4,698.4	-196.5	488.7	380.7	108.05	4.523	
17,400.0	11,837.0	17,575.9	12,033.0	55.3	55.7	113.64	-4,798.4	-196.1	488.8	379.1	109.78	4.453	
17,500.0	11,837.0	17,675.9	12,033.0	56.2	56.6	113.63	-4,898.4	-195.8	488.9	377.4	111.51	4.384	
17,600.0	11,837.0	17,775.9	12,033.0	57.1	57.5	113.63	-4,998.4	-195.4	489.0	375.8	113.25	4.318	
17,700.0	11,837.0	17,875.9	12,033.0	58.1	58.4	113.62	-5,098.4	-195.1	489.1	374.1	115.00	4.253	
17,800.0	11,837.0	17,975.9	12,033.0	59.0	59.3	113.62	-5,198.4	-194.7	489.2	372.5	116.74	4.190	
17,900.0	11,837.0	18,075.9	12,033.0	59.9	60.2	113.61	-5,298.4	-194.4	489.3	370.8	118.49	4.129	
18,000.0	11,837.0	18,175.9	12,033.0	60.8	61.1	113.61	-5,398.4	-194.0	489.4	369.1	120.24	4.070	
18,100.0	11,837.0	18,275.9	12,033.0	61.7	62.1	113.60	-5,498.4	-193.6	489.5	367.5	122.00	4.012	
18,200.0	11,837.0	18,375.9	12,033.0	62.7	63.0	113.60	-5,598.4	-193.3	489.6	365.8	123.75	3.956	
18,300.0	11,837.0	18,475.9	12,033.0	63.6	63.9	113.60	-5,698.4	-192.9	489.7	364.1	125.51	3.901	
18,400.0	11,837.0	18,575.9	12,033.0	64.5	64.8	113.59	-5,798.4	-192.6	489.7	362.5	127.28	3.848	
18,500.0	11,837.0	18,675.9	12,033.0	65.4	65.8	113.59	-5,898.4	-192.2	489.8	360.8	129.04	3.796	
18,600.0	11,837.0	18,775.9	12,033.0	66.4	66.7	113.58	-5,998.4	-191.9	489.9	359.1	130.81	3.745	
18,700.0	11,837.0	18,875.9	12,033.0	67.3	67.6	113.58	-6,098.4	-191.5	490.0	357.4	132.58	3.696	
18,800.0	11,837.0	18,975.9	12,033.0	68.2	68.5	113.57	-6,198.4	-191.2	490.1	355.8	134.35	3.648	
18,900.0	11,837.0	19,075.9	12,033.0	69.2	69.5	113.57	-6,298.4	-190.8	490.2	354.1	136.13	3.601	
19,000.0	11,837.0	19,175.9	12,033.0	70.1	70.4	113.56	-6,398.4	-190.5	490.3	352.4	137.90	3.555	
19,100.0	11,837.0	19,275.9	12,033.0	71.0	71.3	113.56	-6,498.4	-190.1	490.4	350.7	139.68	3.511	
19,200.0	11,837.0	19,375.9	12,033.0	72.0	72.3	113.55	-6,598.4	-189.8	490.5	349.0	141.46	3.467	
19,300.0	11,837.0	19,475.9	12,033.0	72.9	73.2	113.55	-6,698.4	-189.4	490.6	347.3	143.24	3.425	
19,400.0	11,837.0	19,575.9	12,033.0	73.8	74.1	113.54	-6,798.4	-189.0	490.7	345.6	145.03	3.383	
19,500.0	11,837.0	19,675.9	12,033.0	74.8	75.1	113.54	-6,898.4	-188.7	490.8	343.9	146.81	3.343	
19,565.2	11,837.0	19,741.1	12,033.0	75.4	75.7	113.54	-6,963.6	-188.5	490.8	342.8	147.97	3.317	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	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	0.5	0.0	0.0	3.0	125.66	-11.7	16.2	20.0					
100.0	100.0	100.5	100.0	0.8	3.1	125.66	-11.7	16.2	20.0	15.1	4.95	4.043		
200.0	200.0	200.5	200.0	1.4	3.3	125.66	-11.7	16.2	20.0	14.5	5.55	3.604		
300.0	300.0	300.5	300.0	1.9	3.5	125.66	-11.7	16.2	20.0	13.9	6.09	3.283		
400.0	400.0	400.5	400.0	2.3	3.8	125.66	-11.7	16.2	20.0	13.4	6.59	3.035		
500.0	500.0	500.5	500.0	2.6	4.0	125.66	-11.7	16.2	20.0	12.9	7.05	2.835 Normal Operations		
600.0	600.0	600.5	600.0	2.9	4.1	125.66	-11.7	16.2	20.0	12.5	7.49	2.670 Normal Operations		
700.0	700.0	700.5	700.0	3.1	4.3	125.66	-11.7	16.2	20.0	12.1	7.91	2.530 Normal Operations		
800.0	800.0	800.5	800.0	3.4	4.5	125.66	-11.7	16.2	20.0	11.7	8.30	2.409 Caution - Monitor Closely		
900.0	900.0	900.5	900.0	3.6	4.7	125.66	-11.7	16.2	20.0	11.3	8.68	2.303 Caution - Monitor Closely		
1,000.0	1,000.0	1,000.5	1,000.0	3.8	4.8	125.66	-11.7	16.2	20.0	10.9	9.05	2.210 Caution - Monitor Closely		
1,100.0	1,100.0	1,100.5	1,100.0	4.0	5.0	125.66	-11.7	16.2	20.0	10.6	9.41	2.127 Caution - Monitor Closely		
1,200.0	1,200.0	1,200.5	1,200.0	4.2	5.2	125.66	-11.7	16.2	20.0	10.3	9.75	2.052 Caution - Monitor Closely		
1,300.0	1,300.0	1,300.5	1,300.0	4.4	5.3	125.66	-11.7	16.2	20.0	9.9	10.08	1.984 Caution - Monitor Closely		
1,400.0	1,400.0	1,400.5	1,400.0	4.6	5.5	125.66	-11.7	16.2	20.0	9.6	10.41	1.922 Caution - Monitor Closely		
1,500.0	1,500.0	1,500.5	1,500.0	4.7	5.6	125.66	-11.7	16.2	20.0	9.3	10.73	1.865 Caution - Monitor Closely		
1,600.0	1,600.0	1,600.5	1,600.0	4.9	5.8	125.66	-11.7	16.2	20.0	9.0	11.04	1.812 Caution - Monitor Closely		
1,700.0	1,700.0	1,700.5	1,700.0	5.1	5.9	125.66	-11.7	16.2	20.0	8.7	11.34	1.764 Caution - Monitor Closely		
1,800.0	1,800.0	1,800.5	1,800.0	5.2	6.0	125.66	-11.7	16.2	20.0	8.4	11.64	1.718 Caution - Monitor Closely		
1,866.5	1,866.5	1,867.0	1,866.5	5.3	6.1	125.66	-11.7	16.2	20.0	8.2	11.83	1.690 Caution - Monitor Closely, CC		
1,900.0	1,900.0	1,900.5	1,900.0	5.4	6.2	125.66	-11.7	16.3	20.0	8.1	11.93	1.676 Caution - Monitor Closely, ES		
2,000.0	2,000.0	2,000.4	1,999.9	5.6	6.4	120.73	-10.4	17.4	20.3	8.1	12.22	1.661 Caution - Monitor Closely, SF		
2,100.0	2,100.0	2,100.0	2,099.3	5.7	6.6	80.62	-6.5	21.0	21.7	9.2	12.51	1.737 Caution - Monitor Closely		
2,200.0	2,199.9	2,199.6	2,198.5	5.9	6.9	70.82	-0.2	26.9	24.7	11.9	12.83	1.928 Caution - Monitor Closely		
2,300.0	2,299.7	2,298.9	2,297.1	6.2	7.1	62.64	8.7	35.1	29.3	16.1	13.19	2.223 Caution - Monitor Closely		
2,333.3	2,332.9	2,331.9	2,329.8	6.2	7.2	60.34	12.2	38.3	31.2	17.9	13.29	2.347 Caution - Monitor Closely		
2,400.0	2,399.3	2,397.8	2,394.8	6.3	7.4	61.63	20.0	45.5	35.6	22.1	13.51	2.633 Normal Operations		
2,500.0	2,498.5	2,496.5	2,491.7	6.6	7.7	63.34	33.8	58.2	43.8	29.9	13.90	3.155		
2,600.0	2,597.2	2,595.1	2,587.8	6.9	7.9	65.48	49.9	73.1	53.8	39.6	14.21	3.790		
2,700.0	2,695.3	2,694.6	2,684.6	7.2	8.1	69.41	66.7	88.6	63.8	49.2	14.54	4.385		
2,800.0	2,792.7	2,794.0	2,781.4	7.6	8.4	74.91	83.6	104.2	73.3	58.4	14.81	4.946		
2,863.2	2,853.9	2,856.8	2,842.5	7.8	8.6	78.95	94.2	114.0	79.3	64.4	14.92	5.316		
2,900.0	2,889.3	2,893.2	2,877.9	7.9	8.7	81.03	100.4	119.7	82.9	68.0	14.96	5.542		
3,000.0	2,985.8	2,992.4	2,974.5	8.2	9.1	85.85	117.2	135.2	93.3	78.1	15.18	6.145		
3,100.0	3,082.2	3,091.6	3,071.0	8.5	9.4	89.69	134.0	150.7	104.1	88.7	15.42	6.755		
3,200.0	3,178.7	3,190.8	3,167.5	8.9	9.7	92.80	150.8	166.2	115.4	99.7	15.68	7.360		
3,300.0	3,275.1	3,290.0	3,264.0	9.3	10.1	95.35	167.6	181.8	126.9	110.9	15.96	7.954		
3,400.0	3,371.6	3,389.2	3,360.5	9.6	10.5	97.48	184.4	197.3	138.6	122.4	16.25	8.530		
3,500.0	3,468.0	3,488.4	3,457.0	10.0	10.8	99.27	201.2	212.8	150.5	133.9	16.56	9.088		
3,600.0	3,564.5	3,587.6	3,553.6	10.4	11.2	100.80	218.0	228.3	162.5	145.6	16.89	9.624		
3,700.0	3,660.9	3,686.7	3,650.1	10.9	11.6	102.11	234.8	243.8	174.6	157.4	17.22	10.138		
3,800.0	3,757.4	3,785.9	3,746.6	11.3	12.0	103.26	251.6	259.3	186.8	169.2	17.57	10.631		
3,900.0	3,853.8	3,885.1	3,843.1	11.7	12.4	104.27	268.4	274.8	199.1	181.1	17.93	11.102		
4,000.0	3,950.3	3,984.3	3,939.6	12.1	12.8	105.16	285.2	290.3	211.4	193.1	18.30	11.551		
4,100.0	4,046.7	4,083.5	4,036.1	12.6	13.2	105.95	302.0	305.9	223.7	205.0	18.67	11.980		
4,200.0	4,143.2	4,182.7	4,132.7	13.0	13.7	106.66	318.8	321.4	236.1	217.0	19.06	12.388		
4,300.0	4,239.6	4,281.9	4,229.2	13.4	14.1	107.29	335.6	336.9	248.5	229.1	19.45	12.778		
4,400.0	4,336.1	4,381.1	4,325.7	13.9	14.5	107.87	352.4	352.4	261.0	241.1	19.85	13.149		
4,500.0	4,432.5	4,480.3	4,422.2	14.3	14.9	108.40	369.2	367.9	273.4	253.2	20.25	13.502		
4,600.0	4,529.0	4,579.5	4,518.7	14.8	15.4	108.87	386.0	383.4	285.9	265.3	20.66	13.839		
4,700.0	4,625.4	4,678.6	4,615.3	15.3	15.8	109.31	402.8	398.9	298.4	277.4	21.08	14.160		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												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)			
4,800.0	4,721.9	4,777.8	4,711.8	15.7	16.2	109.72	419.6	414.4	311.0	289.5	21.50	14.466	
4,900.0	4,818.3	4,877.0	4,808.3	16.2	16.7	110.09	436.4	430.0	323.5	301.6	21.92	14.758	
5,000.0	4,914.8	4,976.2	4,904.8	16.6	17.1	110.43	453.2	445.5	336.0	313.7	22.35	15.036	
5,074.5	4,986.6	5,050.1	4,976.7	17.0	17.5	110.67	465.8	457.0	345.4	322.7	22.66	15.245	
5,100.0	5,011.2	5,075.4	5,001.3	17.1	17.6	110.77	470.0	461.0	348.6	325.8	22.75	15.320	
5,200.0	5,108.0	5,174.7	5,097.9	17.6	18.0	110.99	486.9	476.5	360.7	337.5	23.18	15.562	
5,300.0	5,205.2	5,274.0	5,194.6	18.0	18.5	110.94	503.7	492.0	372.2	348.6	23.58	15.785	
5,400.0	5,302.8	5,373.4	5,291.3	18.5	18.9	110.65	520.5	507.6	383.1	359.1	23.96	15.989	
5,500.0	5,400.8	5,472.8	5,388.0	18.9	19.4	110.13	537.4	523.1	393.3	369.0	24.32	16.175	
5,600.0	5,499.1	5,572.1	5,484.7	19.4	19.8	109.41	554.2	538.7	403.1	378.4	24.66	16.345	
5,700.0	5,597.7	5,671.4	5,581.3	19.8	20.3	108.49	571.0	554.2	412.4	387.4	25.00	16.498	
5,800.0	5,696.6	5,770.7	5,677.8	20.2	20.7	107.39	587.8	569.7	421.3	395.9	25.33	16.633	
5,900.0	5,795.7	5,869.8	5,774.3	20.6	21.2	106.12	604.6	585.2	429.8	404.2	25.66	16.750	
6,000.0	5,895.1	5,968.8	5,870.6	21.0	21.7	104.68	621.4	600.7	438.2	412.2	26.01	16.844	
6,100.0	5,994.6	6,067.6	5,966.7	21.4	22.1	103.09	638.1	616.1	446.5	420.1	26.40	16.913	
6,200.0	6,094.3	6,166.2	6,062.7	21.8	22.6	101.35	654.8	631.6	454.8	427.9	26.82	16.953	
6,300.0	6,194.1	6,264.5	6,158.4	22.2	23.0	99.47	671.5	647.0	463.2	435.9	27.31	16.960	
6,400.0	6,294.0	6,362.6	6,253.9	22.5	23.5	97.47	688.1	662.3	472.0	444.1	27.88	16.931	
6,500.0	6,393.9	6,460.5	6,349.1	22.8	23.9	95.35	704.7	677.6	481.2	452.7	28.53	16.865	
6,600.0	6,493.9	6,558.0	6,443.9	23.0	24.4	93.14	721.2	692.8	491.0	461.7	29.30	16.761	
6,606.1	6,500.0	6,563.9	6,449.7	23.0	24.4	106.98	722.2	693.8	491.7	462.3	29.35	16.754	
6,700.0	6,593.9	6,655.3	6,538.6	23.0	24.9	104.80	737.7	708.1	501.6	471.5	30.15	16.640	
6,800.0	6,693.9	6,752.6	6,633.3	23.1	25.3	102.57	754.2	723.3	513.1	482.0	31.07	16.516	
6,900.0	6,793.9	6,852.6	6,730.6	23.1	25.8	100.40	770.9	738.7	525.1	493.1	32.04	16.390	
7,000.0	6,893.9	6,955.6	6,831.3	23.2	26.3	98.41	787.0	753.6	537.0	504.0	33.01	16.267	
7,100.0	6,993.9	7,059.4	6,933.2	23.2	26.7	96.65	801.9	767.3	548.4	514.4	33.95	16.153	
7,200.0	7,093.9	7,164.0	7,036.0	23.3	27.2	95.11	815.5	779.9	559.1	524.3	34.84	16.049	
7,300.0	7,193.9	7,269.2	7,139.9	23.3	27.7	93.77	827.8	791.3	569.1	533.4	35.67	15.953	
7,400.0	7,293.9	7,374.9	7,244.6	23.4	28.1	92.61	838.7	801.4	578.1	541.6	36.44	15.862	
7,500.0	7,393.9	7,481.2	7,350.1	23.4	28.6	91.64	848.3	810.2	586.1	548.9	37.15	15.775	
7,600.0	7,493.9	7,588.0	7,456.3	23.5	29.0	90.83	856.5	817.7	593.0	555.2	37.79	15.690	
7,700.0	7,593.9	7,695.1	7,563.0	23.5	29.4	90.17	863.2	824.0	598.8	560.4	38.36	15.607	
7,800.0	7,693.9	7,802.6	7,670.3	23.6	29.8	89.67	868.5	828.8	603.3	564.4	38.86	15.525	
7,900.0	7,793.9	7,910.3	7,777.8	23.6	30.1	89.31	872.3	832.3	606.6	567.3	39.27	15.445	
8,000.0	7,893.9	8,018.1	7,885.6	23.7	30.5	89.10	874.6	834.5	608.6	569.0	39.60	15.369	
8,100.0	7,993.9	8,126.0	7,993.5	23.7	30.7	89.02	875.4	835.2	609.3	569.5	39.80	15.311	
8,200.0	8,093.9	8,226.4	8,093.9	23.8	30.7	89.02	875.4	835.2	609.3	569.4	39.90	15.273	
8,300.0	8,193.9	8,326.4	8,193.9	23.8	30.8	89.02	875.4	835.2	609.3	569.3	40.01	15.231	
8,400.0	8,293.9	8,426.4	8,293.9	23.9	30.8	89.02	875.4	835.2	609.3	569.2	40.12	15.189	
8,500.0	8,393.9	8,526.4	8,393.9	23.9	30.8	89.02	875.4	835.2	609.3	569.1	40.23	15.147	
8,600.0	8,493.9	8,626.4	8,493.9	24.0	30.9	89.02	875.4	835.2	609.3	569.0	40.34	15.105	
8,700.0	8,593.9	8,726.4	8,593.9	24.0	30.9	89.02	875.4	835.2	609.3	568.9	40.45	15.063	
8,800.0	8,693.9	8,826.4	8,693.9	24.1	30.9	89.02	875.4	835.2	609.3	568.8	40.57	15.021	
8,900.0	8,793.9	8,926.4	8,793.9	24.1	31.0	89.02	875.4	835.2	609.3	568.7	40.68	14.980	
9,000.0	8,893.9	9,026.4	8,893.9	24.2	31.0	89.02	875.4	835.2	609.3	568.5	40.79	14.938	
9,100.0	8,993.9	9,126.4	8,993.9	24.3	31.1	89.02	875.4	835.2	609.3	568.4	40.90	14.897	
9,200.0	9,093.9	9,226.4	9,093.9	24.3	31.1	89.02	875.4	835.2	609.3	568.3	41.02	14.855	
9,300.0	9,193.9	9,326.4	9,193.9	24.4	31.1	89.02	875.4	835.2	609.3	568.2	41.13	14.814	
9,400.0	9,293.9	9,426.4	9,293.9	24.4	31.2	89.02	875.4	835.2	609.3	568.1	41.25	14.773	
9,500.0	9,393.9	9,526.4	9,393.9	24.5	31.2	89.02	875.4	835.2	609.3	568.0	41.36	14.732	
9,600.0	9,493.9	9,626.4	9,493.9	24.5	31.3	89.02	875.4	835.2	609.3	567.9	41.48	14.692	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													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	9,593.9	9,726.4	9,593.9	24.6	31.3	89.02	875.4	835.2	609.3	567.7	41.59	14.651	
9,800.0	9,693.9	9,826.4	9,693.9	24.6	31.3	89.02	875.4	835.2	609.3	567.6	41.71	14.610	
9,900.0	9,793.9	9,926.4	9,793.9	24.7	31.4	89.02	875.4	835.2	609.3	567.5	41.82	14.570	
10,000.0	9,893.9	10,026.4	9,893.9	24.7	31.4	89.02	875.4	835.2	609.3	567.4	41.94	14.530	
10,100.0	9,993.9	10,126.4	9,993.9	24.8	31.5	89.02	875.4	835.2	609.3	567.3	42.05	14.489	
10,200.0	10,093.9	10,226.4	10,093.9	24.9	31.5	89.02	875.4	835.2	609.3	567.2	42.17	14.449	
10,300.0	10,193.9	10,326.4	10,193.9	24.9	31.5	89.02	875.4	835.2	609.3	567.1	42.29	14.409	
10,400.0	10,293.9	10,426.4	10,293.9	25.0	31.6	89.02	875.4	835.2	609.3	566.9	42.41	14.369	
10,500.0	10,393.9	10,526.4	10,393.9	25.0	31.6	89.02	875.4	835.2	609.3	566.8	42.52	14.330	
10,600.0	10,493.9	10,626.4	10,493.9	25.1	31.7	89.02	875.4	835.2	609.3	566.7	42.64	14.290	
10,700.0	10,593.9	10,726.4	10,593.9	25.1	31.7	89.02	875.4	835.2	609.3	566.6	42.76	14.251	
10,800.0	10,693.9	10,826.4	10,693.9	25.2	31.8	89.02	875.4	835.2	609.3	566.5	42.88	14.211	
10,900.0	10,793.9	10,926.4	10,793.9	25.2	31.8	89.02	875.4	835.2	609.3	566.3	43.00	14.172	
11,000.0	10,893.9	11,026.4	10,893.9	25.3	31.8	89.02	875.4	835.2	609.3	566.2	43.11	14.133	
11,100.0	10,993.9	11,126.4	10,993.9	25.4	31.9	89.02	875.4	835.2	609.3	566.1	43.23	14.094	
11,200.0	11,093.9	11,226.4	11,093.9	25.4	31.9	89.02	875.4	835.2	609.3	566.0	43.35	14.055	
11,300.0	11,193.9	11,326.4	11,193.9	25.5	32.0	89.02	875.4	835.2	609.3	565.9	43.47	14.016	
11,400.0	11,293.9	11,426.4	11,293.9	25.5	32.0	89.02	875.4	835.2	609.3	565.7	43.59	13.978	
11,465.6	11,359.5	11,492.0	11,359.5	25.6	32.0	89.02	875.4	835.2	609.3	565.7	43.66	13.956	
11,475.0	11,368.9	11,501.4	11,368.9	25.6	32.0	-90.73	875.4	835.2	609.3	565.7	43.67	13.953	
11,500.0	11,393.9	11,526.4	11,393.9	25.5	32.0	-90.84	875.4	835.2	609.4	565.6	43.72	13.938	
11,525.0	11,418.8	11,551.3	11,418.8	25.4	32.1	-91.06	875.4	835.2	609.4	565.6	43.81	13.911	
11,550.0	11,443.5	11,576.0	11,443.5	25.3	32.1	-91.40	875.4	835.2	609.5	565.5	43.94	13.872	
11,575.0	11,468.0	11,600.5	11,468.0	25.2	32.1	-91.85	875.4	835.2	609.6	565.5	44.11	13.821	
11,600.0	11,492.2	11,624.7	11,492.2	25.2	32.1	-92.39	875.4	835.2	609.9	565.5	44.32	13.760	
11,625.0	11,516.0	11,648.5	11,516.0	25.1	32.1	-93.02	875.4	835.2	610.2	565.7	44.57	13.691	
11,650.0	11,539.4	11,671.9	11,539.4	25.0	32.1	-93.73	875.4	835.2	610.8	565.9	44.86	13.614	
11,675.0	11,562.3	11,694.8	11,562.3	24.9	32.1	-94.49	875.4	835.2	611.6	566.4	45.19	13.533	
11,700.0	11,584.6	11,717.1	11,584.6	24.8	32.1	-95.30	875.4	835.2	612.7	567.1	45.55	13.449	
11,725.0	11,606.4	11,752.7	11,606.4	24.7	32.1	-96.71	874.4	835.0	613.9	568.1	45.76	13.416	
11,750.0	11,627.4	11,792.7	11,659.9	24.6	31.9	-98.26	870.1	834.1	614.8	569.0	45.81	13.421	
11,775.0	11,647.7	11,834.9	11,701.3	24.5	31.8	-99.83	862.1	832.4	615.5	569.8	45.74	13.456	
11,800.0	11,667.3	11,879.4	11,744.0	24.4	31.6	-101.40	849.8	829.7	615.8	570.3	45.55	13.519	
11,825.0	11,685.9	11,926.3	11,787.4	24.3	31.4	-102.96	832.8	826.1	615.7	570.4	45.23	13.611	
11,850.0	11,703.7	11,975.3	11,830.9	24.2	31.2	-104.48	810.5	821.3	615.0	570.2	44.80	13.727	
11,875.0	11,720.6	12,026.4	11,873.4	24.1	31.0	-105.93	782.9	815.3	613.7	569.4	44.27	13.863	
11,900.0	11,736.4	12,079.2	11,913.9	24.1	30.8	-107.28	749.8	808.2	611.8	568.1	43.66	14.011	
11,925.0	11,751.2	12,133.2	11,951.2	24.0	30.7	-108.50	711.7	800.0	609.1	566.1	43.02	14.159	
11,950.0	11,765.0	12,188.1	11,984.3	23.9	30.5	-109.57	669.0	790.8	605.6	563.3	42.36	14.297	
11,975.0	11,777.6	12,243.1	12,012.3	23.9	30.3	-110.46	622.7	780.8	601.4	559.7	41.72	14.415	
12,000.0	11,789.1	12,297.7	12,034.5	23.8	30.2	-111.16	574.0	770.3	596.4	555.3	41.12	14.503	
12,025.0	11,799.4	12,351.3	12,050.7	23.8	30.1	-111.68	524.0	759.6	590.6	550.0	40.57	14.558	
12,050.0	11,808.5	12,403.4	12,060.8	23.7	30.1	-112.01	474.0	748.8	584.1	544.1	40.07	14.579	
12,075.0	11,816.4	12,453.7	12,065.2	23.7	30.1	-112.18	425.1	738.3	577.0	537.4	39.60	14.570	
12,100.0	11,823.0	12,483.7	12,065.5	23.6	30.1	-112.56	395.8	732.0	569.6	530.2	39.42	14.448	
12,125.0	11,828.4	12,500.0	12,065.5	23.6	30.1	-113.15	379.8	728.7	562.8	523.3	39.46	14.263	
12,150.0	11,832.5	12,524.4	12,065.5	23.6	30.1	-113.67	355.8	723.9	556.6	517.1	39.41	14.122	
12,175.0	11,835.2	12,545.2	12,065.5	23.6	30.1	-114.24	335.5	720.0	551.0	511.6	39.44	13.972	
12,200.0	11,836.7	12,566.1	12,065.5	23.6	30.1	-114.83	314.9	716.2	546.2	506.7	39.49	13.833	
12,215.6	11,837.0	12,579.1	12,065.5	23.6	30.1	-115.21	302.1	713.9	543.6	504.0	39.53	13.752	
12,300.0	11,837.0	12,650.3	12,065.5	23.6	30.1	-115.76	231.8	702.5	530.9	491.1	39.79	13.343	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												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)			
12,400.0	11,837.0	12,735.3	12,065.5	23.6	30.2	-116.33	147.6	691.1	518.4	478.3	40.12	12.922	
12,500.0	11,837.0	12,821.0	12,065.5	23.7	30.2	-116.79	62.4	682.1	508.7	468.2	40.47	12.568	
12,600.0	11,837.0	12,907.1	12,065.5	23.7	30.2	-117.15	-23.5	675.7	501.6	460.8	40.84	12.283	
12,700.0	11,837.0	13,000.0	12,065.5	23.7	30.3	-117.38	-116.3	671.6	497.3	456.2	41.15	12.087	
12,800.0	11,837.0	13,080.3	12,065.5	23.8	30.4	-117.46	-196.5	670.6	495.6	454.0	41.61	11.909	
12,838.1	11,837.0	13,116.7	12,065.5	23.8	30.4	-117.46	-233.0	670.7	495.6	453.8	41.73	11.875	
12,900.0	11,837.0	13,178.6	12,065.5	23.9	30.4	-117.46	-294.9	671.0	495.6	453.7	41.90	11.826	
13,000.0	11,837.0	13,278.6	12,065.5	23.9	30.5	-117.46	-394.9	671.5	495.6	453.3	42.24	11.732	
13,100.0	11,837.0	13,378.6	12,065.5	24.1	30.6	-117.46	-494.9	671.9	495.6	452.9	42.64	11.622	
13,200.0	11,837.0	13,478.6	12,065.5	24.2	30.7	-117.46	-594.9	672.4	495.6	452.5	43.10	11.497	
13,300.0	11,837.0	13,578.6	12,065.5	24.3	30.9	-117.46	-694.9	672.8	495.6	451.9	43.63	11.360	
13,400.0	11,837.0	13,678.6	12,065.5	24.6	31.0	-117.46	-794.9	673.3	495.6	451.4	44.21	11.210	
13,500.0	11,837.0	13,778.6	12,065.5	24.8	31.1	-117.46	-894.9	673.7	495.6	450.7	44.84	11.051	
13,600.0	11,837.0	13,878.6	12,065.5	25.1	31.3	-117.46	-994.9	674.2	495.6	450.0	45.53	10.883	
13,700.0	11,837.0	13,978.6	12,065.5	25.5	31.5	-117.46	-1,094.9	674.6	495.6	449.3	46.28	10.709	
13,800.0	11,837.0	14,078.6	12,065.5	26.0	31.7	-117.46	-1,194.9	675.1	495.6	448.5	47.07	10.529	
13,900.0	11,837.0	14,178.6	12,065.5	26.5	31.8	-117.46	-1,294.9	675.6	495.6	447.7	47.90	10.345	
14,000.0	11,837.0	14,278.6	12,065.5	27.0	32.1	-117.46	-1,394.9	676.0	495.6	446.8	48.78	10.158	
14,100.0	11,837.0	14,378.6	12,065.5	27.7	32.3	-117.46	-1,494.9	676.5	495.6	445.9	49.71	9.970	
14,200.0	11,837.0	14,478.6	12,065.5	28.3	32.5	-117.46	-1,594.9	676.9	495.6	444.9	50.67	9.781	
14,300.0	11,837.0	14,578.6	12,065.5	29.0	32.7	-117.46	-1,694.9	677.4	495.6	443.9	51.67	9.592	
14,400.0	11,837.0	14,678.6	12,065.5	29.7	33.0	-117.46	-1,794.9	677.8	495.6	442.9	52.70	9.403	
14,500.0	11,837.0	14,778.6	12,065.5	30.4	33.3	-117.46	-1,894.9	678.3	495.6	441.8	53.77	9.217	
14,600.0	11,837.0	14,878.6	12,065.5	31.2	33.5	-117.46	-1,994.9	678.7	495.6	440.7	54.86	9.033	
14,700.0	11,837.0	14,978.6	12,065.5	31.9	33.8	-117.46	-2,094.9	679.2	495.6	439.6	55.99	8.851	
14,800.0	11,837.0	15,078.6	12,065.5	32.7	34.2	-117.46	-2,194.9	679.6	495.6	438.4	57.14	8.672	
14,900.0	11,837.0	15,178.6	12,065.5	33.5	34.5	-117.46	-2,294.9	680.1	495.6	437.2	58.32	8.497	
15,000.0	11,837.0	15,278.6	12,065.5	34.3	34.8	-117.46	-2,394.9	680.5	495.6	436.0	59.53	8.325	
15,100.0	11,837.0	15,378.6	12,065.5	35.1	35.2	-117.46	-2,494.9	681.0	495.6	434.8	60.75	8.157	
15,200.0	11,837.0	15,478.6	12,065.5	36.0	35.5	-117.46	-2,594.9	681.4	495.6	433.6	62.00	7.993	
15,300.0	11,837.0	15,578.6	12,065.5	36.8	35.9	-117.46	-2,694.9	681.9	495.6	432.3	63.27	7.833	
15,400.0	11,837.0	15,678.6	12,065.5	37.6	36.3	-117.46	-2,794.9	682.4	495.6	431.0	64.56	7.676	
15,500.0	11,837.0	15,778.6	12,065.5	38.5	36.7	-117.46	-2,894.9	682.8	495.6	429.7	65.86	7.524	
15,600.0	11,837.0	15,878.6	12,065.5	39.3	37.1	-117.46	-2,994.9	683.3	495.6	428.4	67.18	7.376	
15,700.0	11,837.0	15,978.6	12,065.5	40.2	37.5	-117.46	-3,094.9	683.7	495.6	427.0	68.52	7.232	
15,800.0	11,837.0	16,078.6	12,065.5	41.0	38.0	-117.46	-3,194.9	684.2	495.6	425.7	69.87	7.092	
15,900.0	11,837.0	16,178.6	12,065.5	41.9	38.4	-117.46	-3,294.9	684.6	495.6	424.3	71.24	6.956	
16,000.0	11,837.0	16,278.6	12,065.5	42.8	38.9	-117.46	-3,394.9	685.1	495.6	422.9	72.62	6.824	
16,100.0	11,837.0	16,378.6	12,065.5	43.7	39.4	-117.46	-3,494.9	685.5	495.6	421.5	74.01	6.696	
16,200.0	11,837.0	16,478.6	12,065.5	44.5	39.8	-117.46	-3,594.9	686.0	495.6	420.1	75.41	6.571	
16,300.0	11,837.0	16,578.6	12,065.5	45.4	40.3	-117.46	-3,694.9	686.4	495.6	418.7	76.83	6.450	
16,400.0	11,837.0	16,678.6	12,065.5	46.3	40.8	-117.46	-3,794.9	686.9	495.6	417.3	78.25	6.333	
16,500.0	11,837.0	16,778.6	12,065.5	47.2	41.4	-117.46	-3,894.9	687.3	495.6	415.9	79.69	6.219	
16,600.0	11,837.0	16,878.6	12,065.5	48.1	41.9	-117.46	-3,994.9	687.8	495.6	414.4	81.13	6.108	
16,700.0	11,837.0	16,978.6	12,065.5	49.0	42.4	-117.46	-4,094.9	688.3	495.6	413.0	82.59	6.000	
16,800.0	11,837.0	17,078.6	12,065.5	49.9	43.0	-117.46	-4,194.9	688.7	495.6	411.5	84.05	5.896	
16,900.0	11,837.0	17,178.6	12,065.5	50.8	43.5	-117.46	-4,294.9	689.2	495.6	410.0	85.52	5.795	
17,000.0	11,837.0	17,278.6	12,065.5	51.7	44.1	-117.45	-4,394.9	689.6	495.6	408.6	87.00	5.696	
17,100.0	11,837.0	17,378.6	12,065.5	52.6	44.6	-117.45	-4,494.9	690.1	495.6	407.1	88.48	5.601	
17,200.0	11,837.0	17,478.6	12,065.5	53.5	45.2	-117.45	-4,594.9	690.5	495.6	405.6	89.97	5.508	
17,300.0	11,837.0	17,578.6	12,065.5	54.4	45.8	-117.45	-4,694.8	691.0	495.6	404.1	91.47	5.418	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												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)			
17,400.0	11,837.0	17,678.6	12,065.5	55.3	46.4	-117.45	-4,794.8	691.4	495.6	402.6	92.98	5.330	
17,500.0	11,837.0	17,778.6	12,065.5	56.2	47.0	-117.45	-4,894.8	691.9	495.6	401.1	94.49	5.245	
17,600.0	11,837.0	17,878.6	12,065.5	57.1	47.6	-117.45	-4,994.8	692.3	495.6	399.6	96.00	5.162	
17,700.0	11,837.0	17,978.6	12,065.5	58.1	48.2	-117.45	-5,094.8	692.8	495.6	398.0	97.52	5.081	
17,800.0	11,837.0	18,078.6	12,065.5	59.0	48.8	-117.45	-5,194.8	693.2	495.6	396.5	99.05	5.003	
17,900.0	11,837.0	18,178.6	12,065.5	59.9	49.4	-117.45	-5,294.8	693.7	495.6	395.0	100.58	4.927	
18,000.0	11,837.0	18,278.6	12,065.5	60.8	50.0	-117.45	-5,394.8	694.2	495.6	393.4	102.12	4.853	
18,100.0	11,837.0	18,378.6	12,065.5	61.7	50.6	-117.45	-5,494.8	694.6	495.6	391.9	103.66	4.781	
18,200.0	11,837.0	18,478.6	12,065.5	62.7	51.3	-117.45	-5,594.8	695.1	495.6	390.4	105.20	4.710	
18,300.0	11,837.0	18,578.6	12,065.5	63.6	51.9	-117.45	-5,694.8	695.5	495.6	388.8	106.75	4.642	
18,400.0	11,837.0	18,678.6	12,065.5	64.5	52.5	-117.45	-5,794.8	696.0	495.6	387.2	108.30	4.576	
18,500.0	11,837.0	18,778.6	12,065.5	65.4	53.2	-117.45	-5,894.8	696.4	495.6	385.7	109.86	4.511	
18,600.0	11,837.0	18,878.6	12,065.5	66.4	53.8	-117.45	-5,994.8	696.9	495.6	384.1	111.42	4.448	
18,700.0	11,837.0	18,978.6	12,065.5	67.3	54.5	-117.45	-6,094.8	697.3	495.6	382.6	112.98	4.386	
18,800.0	11,837.0	19,078.6	12,065.5	68.2	55.1	-117.45	-6,194.8	697.8	495.6	381.0	114.55	4.326	
18,900.0	11,837.0	19,178.6	12,065.5	69.2	55.8	-117.45	-6,294.8	698.2	495.6	379.4	116.12	4.268	
19,000.0	11,837.0	19,278.6	12,065.5	70.1	56.5	-117.45	-6,394.8	698.7	495.6	377.9	117.69	4.210	
19,100.0	11,837.0	19,378.6	12,065.5	71.0	57.1	-117.45	-6,494.8	699.1	495.6	376.3	119.27	4.155	
19,200.0	11,837.0	19,478.6	12,065.5	72.0	57.8	-117.45	-6,594.8	699.6	495.6	374.7	120.85	4.101	
19,300.0	11,837.0	19,578.6	12,065.5	72.9	58.5	-117.45	-6,694.8	700.1	495.6	373.1	122.43	4.048	
19,400.0	11,837.0	19,678.6	12,065.5	73.8	59.1	-117.45	-6,794.8	700.5	495.6	371.5	124.01	3.996	
19,485.4	11,837.0	19,764.0	12,065.5	74.6	59.7	-117.45	-6,880.2	700.9	495.6	370.2	125.37	3.953	
19,500.0	11,837.0	19,765.0	12,065.5	74.8	59.7	-117.45	-6,881.2	700.9	495.7	370.6	125.12	3.962	
19,565.2	11,837.0	19,765.0	12,065.5	75.4	59.7	-117.45	-6,881.2	700.9	501.8	378.9	122.84	4.085	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1							Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	2.5	0.0	0.0	3.0	-54.31	58.3	-81.2	100.0					
100.0	100.0	102.5	100.0	0.8	3.1	-54.31	58.3	-81.2	100.0	95.0	4.95	20.185		
200.0	200.0	202.5	200.0	1.4	3.3	-54.31	58.3	-81.2	100.0	94.4	5.55	17.997		
300.0	300.0	302.5	300.0	1.9	3.6	-54.31	58.3	-81.2	100.0	93.9	6.10	16.397		
400.0	400.0	402.5	400.0	2.3	3.8	-54.31	58.3	-81.2	100.0	93.4	6.59	15.159		
500.0	500.0	502.5	500.0	2.6	4.0	-54.31	58.3	-81.2	100.0	92.9	7.06	14.162		
600.0	600.0	602.5	600.0	2.9	4.1	-54.31	58.3	-81.2	100.0	92.5	7.50	13.335		
700.0	700.0	702.5	700.0	3.1	4.3	-54.31	58.3	-81.2	100.0	92.0	7.91	12.636		
800.0	800.0	802.5	800.0	3.4	4.5	-54.31	58.3	-81.2	100.0	91.6	8.31	12.033		
900.0	900.0	902.5	900.0	3.6	4.7	-54.31	58.3	-81.2	100.0	91.3	8.69	11.506		
1,000.0	1,000.0	1,002.5	1,000.0	3.8	4.8	-54.31	58.3	-81.2	100.0	90.9	9.05	11.040		
1,100.0	1,100.0	1,102.5	1,100.0	4.0	5.0	-54.31	58.3	-81.2	100.0	90.5	9.41	10.624		
1,200.0	1,200.0	1,202.5	1,200.0	4.2	5.2	-54.31	58.3	-81.2	100.0	90.2	9.75	10.250		
1,300.0	1,300.0	1,302.5	1,300.0	4.4	5.3	-54.31	58.3	-81.2	100.0	89.9	10.09	9.910		
1,400.0	1,400.0	1,402.5	1,400.0	4.6	5.5	-54.31	58.3	-81.2	100.0	89.5	10.41	9.600		
1,500.0	1,500.0	1,502.5	1,500.0	4.7	5.6	-54.31	58.3	-81.2	100.0	89.2	10.73	9.316		
1,600.0	1,600.0	1,602.5	1,600.0	4.9	5.8	-54.31	58.3	-81.2	100.0	88.9	11.04	9.054		
1,700.0	1,700.0	1,702.5	1,700.0	5.1	5.9	-54.31	58.3	-81.2	100.0	88.6	11.34	8.811		
1,800.0	1,800.0	1,802.5	1,800.0	5.2	6.0	-54.31	58.3	-81.2	100.0	88.3	11.64	8.586		
1,900.0	1,900.0	1,902.5	1,900.0	5.4	6.2	-54.31	58.3	-81.2	100.0	88.0	11.93	8.375		
1,965.8	1,965.8	1,968.3	1,965.8	5.5	6.3	-54.31	58.3	-81.2	100.0	87.8	12.12	8.245 CC		
2,000.0	2,000.0	2,002.4	1,999.9	5.6	6.3	-54.31	58.3	-81.2	100.0	87.7	12.22	8.178 ES		
2,100.0	2,100.0	2,100.0	2,097.5	5.7	6.5	-85.04	59.3	-82.6	101.6	89.0	12.57	8.080 SF		
2,200.0	2,199.9	2,195.3	2,192.7	5.9	6.7	-87.04	62.0	-86.7	106.5	93.6	12.90	8.251		
2,300.0	2,299.7	2,291.1	2,288.1	6.2	6.9	-90.00	66.5	-93.5	114.8	101.6	13.24	8.672		
2,333.3	2,332.9	2,322.8	2,319.7	6.2	7.0	-91.11	68.4	-96.3	118.4	105.1	13.32	8.886		
2,400.0	2,399.3	2,386.1	2,382.4	6.3	7.2	-88.63	72.7	-102.8	126.6	113.0	13.52	9.363		
2,500.0	2,498.5	2,480.2	2,475.5	6.6	7.4	-87.99	80.6	-114.6	141.1	127.2	13.86	10.183		
2,600.0	2,597.2	2,573.3	2,567.0	6.9	7.7	-89.10	90.0	-128.7	158.6	144.4	14.19	11.174		
2,700.0	2,695.3	2,665.2	2,656.7	7.2	8.0	-90.90	101.0	-145.1	179.3	164.8	14.53	12.336		
2,800.0	2,792.7	2,755.8	2,744.6	7.6	8.2	-92.89	113.3	-163.7	203.3	188.5	14.83	13.712		
2,863.2	2,853.9	2,816.1	2,802.8	7.8	8.4	-94.35	122.0	-176.8	219.7	204.6	15.02	14.628		
2,900.0	2,889.3	2,851.2	2,836.6	7.9	8.5	-95.72	127.1	-184.4	229.3	214.2	15.14	15.147		
3,000.0	2,985.8	2,946.6	2,928.8	8.2	8.7	-98.93	141.0	-205.2	256.2	240.6	15.55	16.472		
3,100.0	3,082.2	3,042.0	3,020.9	8.5	9.0	-101.53	154.8	-225.9	283.6	267.6	15.98	17.749		
3,200.0	3,178.7	3,137.5	3,113.0	8.9	9.3	-103.68	168.6	-246.7	311.5	295.1	16.42	18.967		
3,300.0	3,275.1	3,232.9	3,205.1	9.3	9.7	-105.47	182.5	-267.4	339.8	322.9	16.88	20.124		
3,400.0	3,371.6	3,328.3	3,297.2	9.6	10.0	-106.99	196.3	-288.2	368.3	350.9	17.36	21.217		
3,500.0	3,468.0	3,423.7	3,389.3	10.0	10.4	-108.29	210.2	-308.9	397.0	379.1	17.84	22.247		
3,600.0	3,564.5	3,519.2	3,481.4	10.4	10.7	-109.42	224.0	-329.7	425.9	407.5	18.34	23.217		
3,700.0	3,660.9	3,614.6	3,573.5	10.9	11.1	-110.41	237.8	-350.4	454.9	436.0	18.85	24.128		
3,800.0	3,757.4	3,710.0	3,665.6	11.3	11.5	-111.27	251.7	-371.2	484.0	464.6	19.37	24.983		
3,900.0	3,853.8	3,805.4	3,757.7	11.7	11.8	-112.04	265.5	-391.9	513.2	493.3	19.90	25.786		
4,000.0	3,950.3	3,900.9	3,849.8	12.1	12.2	-112.73	279.3	-412.7	542.5	522.0	20.44	26.540		
4,100.0	4,046.7	3,996.3	3,941.9	12.6	12.6	-113.35	293.2	-433.5	571.8	550.8	20.99	27.248		
4,200.0	4,143.2	4,091.7	4,034.0	13.0	13.0	-113.90	307.0	-454.2	601.2	579.7	21.54	27.912		
4,300.0	4,239.6	4,187.1	4,126.1	13.4	13.4	-114.41	320.8	-475.0	630.7	608.6	22.10	28.537		
4,400.0	4,336.1	4,282.6	4,218.2	13.9	13.9	-114.87	334.7	-495.7	660.2	637.5	22.67	29.124		
4,500.0	4,432.5	4,378.0	4,310.3	14.3	14.3	-115.29	348.5	-516.5	689.7	666.4	23.24	29.676		
4,600.0	4,529.0	4,473.4	4,402.5	14.8	14.7	-115.67	362.4	-537.2	719.2	695.4	23.82	30.196		
4,700.0	4,625.4	4,568.8	4,494.6	15.3	15.1	-116.03	376.2	-558.0	748.8	724.4	24.40	30.686		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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)			
4,800.0	4,721.9	4,664.3	4,586.7	15.7	15.5	-116.36	390.0	-578.7	778.4	753.4	24.99	31.148	
4,900.0	4,818.3	4,759.7	4,678.8	16.2	16.0	-116.66	403.9	-599.5	808.1	782.5	25.58	31.585	
5,000.0	4,914.8	4,855.1	4,770.9	16.6	16.4	-116.95	417.7	-620.2	837.7	811.5	26.18	31.997	
5,074.5	4,986.6	4,926.2	4,839.5	17.0	16.7	-117.14	428.0	-635.7	859.8	833.2	26.62	32.304	
5,100.0	5,011.2	4,950.5	4,863.0	17.1	16.8	-117.28	431.5	-641.0	867.4	840.6	26.76	32.412	
5,200.0	5,108.0	5,046.2	4,955.3	17.6	17.3	-117.71	445.4	-661.8	896.5	869.1	27.37	32.759	
5,300.0	5,205.2	5,142.1	5,047.9	18.0	17.7	-118.03	459.3	-682.7	924.8	896.8	27.97	33.069	
5,400.0	5,302.8	5,238.2	5,140.7	18.5	18.1	-118.24	473.2	-703.6	952.3	923.8	28.56	33.340	
5,500.0	5,400.8	5,334.5	5,233.6	18.9	18.6	-118.36	487.2	-724.5	979.1	949.9	29.16	33.575	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
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)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.1	0.0	0.0	3.0	125.82	-23.4	32.4	40.0				
100.0	100.0	100.1	100.0	0.8	3.1	125.82	-23.4	32.4	40.0	35.1	4.95	8.087	
200.0	200.0	200.1	200.0	1.4	3.3	125.82	-23.4	32.4	40.0	34.5	5.55	7.210	
300.0	300.0	300.1	300.0	1.9	3.5	125.82	-23.4	32.4	40.0	33.9	6.09	6.569	
400.0	400.0	400.1	400.0	2.3	3.8	125.82	-23.4	32.4	40.0	33.4	6.59	6.072	
500.0	500.0	500.1	500.0	2.6	4.0	125.82	-23.4	32.4	40.0	33.0	7.05	5.672	
600.0	600.0	600.1	600.0	2.9	4.1	125.82	-23.4	32.4	40.0	32.5	7.49	5.341	
700.0	700.0	700.1	700.0	3.1	4.3	125.82	-23.4	32.4	40.0	32.1	7.91	5.060	
800.0	800.0	800.1	800.0	3.4	4.5	125.82	-23.4	32.4	40.0	31.7	8.30	4.818	
900.0	900.0	900.1	900.0	3.6	4.7	125.82	-23.4	32.4	40.0	31.3	8.68	4.607	
1,000.0	1,000.0	1,000.1	1,000.0	3.8	4.8	125.82	-23.4	32.4	40.0	31.0	9.05	4.420	
1,100.0	1,100.0	1,100.1	1,100.0	4.0	5.0	125.82	-23.4	32.4	40.0	30.6	9.40	4.254	
1,200.0	1,200.0	1,200.1	1,200.0	4.2	5.2	125.82	-23.4	32.4	40.0	30.3	9.75	4.104	
1,300.0	1,300.0	1,300.1	1,300.0	4.4	5.3	125.82	-23.4	32.4	40.0	29.9	10.08	3.968	
1,400.0	1,400.0	1,400.1	1,400.0	4.6	5.5	125.82	-23.4	32.4	40.0	29.6	10.41	3.844	
1,500.0	1,500.0	1,500.1	1,500.0	4.7	5.6	125.82	-23.4	32.4	40.0	29.3	10.73	3.730	
1,600.0	1,600.0	1,600.1	1,600.0	4.9	5.8	125.82	-23.4	32.4	40.0	29.0	11.04	3.625	
1,700.0	1,700.0	1,700.1	1,700.0	5.1	5.9	125.82	-23.4	32.4	40.0	28.7	11.34	3.528	
1,800.0	1,800.0	1,800.1	1,800.0	5.2	6.0	125.82	-23.4	32.4	40.0	28.4	11.64	3.437	
1,900.0	1,900.0	1,900.1	1,900.0	5.4	6.2	125.82	-23.4	32.4	40.0	28.1	11.93	3.353	
2,000.0	2,000.0	2,000.1	2,000.0	5.6	6.3	125.82	-23.4	32.4	40.0	27.8	12.22	3.274 CC	
2,100.0	2,100.0	2,100.1	2,100.0	5.7	6.5	97.67	-23.4	32.4	40.2	27.7	12.50	3.213	
2,200.0	2,199.9	2,200.0	2,199.9	5.9	6.6	103.12	-23.4	32.4	40.9	28.1	12.78	3.198	
2,300.0	2,299.7	2,299.8	2,299.7	6.2	6.7	111.63	-23.4	32.4	42.8	29.8	13.07	3.278	
2,333.3	2,332.9	2,333.0	2,332.9	6.2	6.8	114.95	-23.4	32.4	43.9	30.8	13.14	3.344	
2,400.0	2,399.3	2,399.4	2,399.3	6.3	6.8	126.75	-23.4	32.4	47.3	34.0	13.32	3.553	
2,500.0	2,498.5	2,498.6	2,498.5	6.6	7.0	141.03	-23.4	32.4	56.1	42.4	13.70	4.096	
2,600.0	2,597.2	2,597.3	2,597.2	6.9	7.1	151.65	-23.4	32.4	69.4	55.3	14.14	4.912	
2,700.0	2,695.3	2,695.4	2,695.3	7.2	7.2	159.24	-23.4	32.4	87.1	72.4	14.61	5.959	
2,800.0	2,792.7	2,792.8	2,792.7	7.6	7.3	164.58	-23.4	32.4	108.6	93.5	15.10	7.195	
2,863.2	2,853.9	2,854.0	2,853.9	7.8	7.4	167.13	-23.4	32.4	124.2	108.8	15.36	8.085	
2,900.0	2,889.3	2,889.4	2,889.3	7.9	7.5	168.06	-23.4	32.4	133.7	118.2	15.51	8.622	
3,000.0	2,985.8	2,985.9	2,985.8	8.2	7.6	170.02	-23.4	32.4	159.7	143.7	15.97	10.001	
3,100.0	3,082.2	3,082.3	3,082.2	8.5	7.7	171.43	-23.4	32.4	185.8	169.3	16.44	11.301	
3,200.0	3,178.7	3,178.8	3,178.7	8.9	7.8	172.49	-23.4	32.4	211.9	195.0	16.93	12.521	
3,300.0	3,275.1	3,275.2	3,275.1	9.3	7.9	173.32	-23.4	32.4	238.2	220.7	17.43	13.666	
3,400.0	3,371.6	3,371.7	3,371.6	9.6	8.0	173.99	-23.4	32.4	264.4	246.5	17.94	14.737	
3,500.0	3,468.0	3,468.1	3,468.0	10.0	8.2	174.53	-23.4	32.4	290.7	272.2	18.47	15.739	
3,600.0	3,564.5	3,564.6	3,564.5	10.4	8.3	174.99	-23.4	32.4	317.0	298.0	19.01	16.677	
3,700.0	3,660.9	3,661.0	3,660.9	10.9	8.4	175.37	-23.4	32.4	343.4	323.8	19.56	17.554	
3,800.0	3,757.4	3,757.5	3,757.4	11.3	8.5	175.70	-23.4	32.4	369.7	349.6	20.12	18.375	
3,900.0	3,853.8	3,853.9	3,853.8	11.7	8.6	175.99	-23.4	32.4	396.0	375.4	20.69	19.143	
4,000.0	3,950.3	3,950.4	3,950.3	12.1	8.7	176.24	-23.4	32.4	422.4	401.1	21.27	19.863	
4,100.0	4,046.7	4,043.8	4,043.7	12.6	8.8	176.48	-23.5	32.2	448.9	427.1	21.83	20.566	
4,200.0	4,143.2	4,133.5	4,133.4	13.0	8.9	176.88	-24.4	30.3	476.6	454.2	22.37	21.306	
4,300.0	4,239.6	4,222.3	4,222.1	13.4	9.0	177.42	-26.1	26.6	505.6	482.7	22.90	22.077	
4,400.0	4,336.1	4,310.2	4,309.7	13.9	9.1	178.09	-28.7	21.0	536.0	512.6	23.43	22.874	
4,500.0	4,432.5	4,419.6	4,418.8	14.3	9.2	178.96	-31.5	13.0	566.5	542.4	24.10	23.502	
4,600.0	4,529.0	4,539.6	4,538.6	14.8	9.4	179.72	-30.4	6.0	593.3	568.4	24.88	23.849	
4,700.0	4,625.4	4,662.3	4,661.1	15.3	9.6	-179.67	-24.5	1.0	616.1	590.5	25.63	24.035	
4,800.0	4,721.9	4,787.4	4,785.6	15.7	9.7	-179.18	-13.5	-1.8	634.8	608.4	26.38	24.068	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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	4,818.3	4,914.3	4,911.5	16.2	9.9	-178.81	2.7	-2.4	649.2	622.1	27.12	23.941	
5,000.0	4,914.8	5,042.7	5,038.1	16.6	10.1	-178.53	24.2	-0.6	659.3	631.5	27.87	23.659	
5,074.5	4,986.6	5,139.0	5,132.3	17.0	10.3	-178.38	43.7	2.3	664.0	635.6	28.41	23.371	
5,100.0	5,011.2	5,172.1	5,164.5	17.1	10.3	-178.34	51.0	3.6	665.0	636.4	28.59	23.259	
5,200.0	5,108.0	5,293.3	5,281.8	17.6	10.6	-178.23	80.8	9.7	665.1	635.8	29.28	22.713	
5,300.0	5,205.2	5,393.2	5,378.3	18.0	10.8	-178.15	106.3	15.2	662.3	632.3	30.00	22.075	
5,400.0	5,302.8	5,493.1	5,474.7	18.5	11.0	-178.07	131.9	20.7	657.7	627.0	30.73	21.405	
5,500.0	5,400.8	5,592.9	5,571.0	18.9	11.3	-177.97	157.5	26.2	651.5	620.0	31.46	20.710	
5,600.0	5,499.1	5,692.6	5,667.2	19.4	11.5	-177.87	183.0	31.7	643.5	611.3	32.19	19.991	
5,700.0	5,597.7	5,792.1	5,763.3	19.8	11.8	-177.76	208.4	37.2	633.7	600.8	32.92	19.252	
5,800.0	5,696.6	5,891.4	5,859.1	20.2	12.1	-177.64	233.9	42.7	622.2	588.6	33.64	18.496	
5,900.0	5,795.7	5,990.5	5,954.8	20.6	12.4	-177.50	259.2	48.2	609.0	574.7	34.36	17.724	
6,000.0	5,895.1	6,089.4	6,050.2	21.0	12.7	-177.35	284.5	53.6	594.1	559.1	35.07	16.940	
6,100.0	5,994.6	6,188.0	6,145.3	21.4	13.0	-177.19	309.8	59.1	577.5	541.7	35.77	16.144	
6,200.0	6,094.3	6,286.3	6,240.2	21.8	13.4	-177.00	334.9	64.5	559.1	522.7	36.46	15.337	
6,300.0	6,194.1	6,384.2	6,334.7	22.2	13.7	-176.79	360.0	69.9	539.1	501.9	37.12	14.522	
6,400.0	6,294.0	6,481.8	6,428.9	22.5	14.0	-176.55	385.0	75.3	517.3	479.6	37.76	13.700	
6,500.0	6,393.9	6,579.0	6,522.7	22.8	14.4	-176.28	409.9	80.7	493.9	455.5	38.36	12.874	
6,600.0	6,493.9	6,675.7	6,616.1	23.0	14.8	-175.96	434.6	86.0	468.8	429.9	38.82	12.076	
6,606.1	6,500.0	6,681.6	6,621.7	23.0	14.8	-161.96	436.1	86.3	467.2	428.3	38.84	12.027	
6,700.0	6,593.9	6,772.3	6,709.2	23.0	15.1	-161.63	459.3	91.3	442.7	403.6	39.15	11.309	
6,800.0	6,693.9	6,868.8	6,802.4	23.1	15.5	-161.25	484.1	96.7	416.7	377.2	39.48	10.554	
6,900.0	6,793.9	6,965.3	6,895.5	23.1	15.9	-160.81	508.8	102.0	390.7	350.8	39.82	9.811	
7,000.0	6,893.9	7,061.8	6,988.7	23.2	16.2	-160.30	533.5	107.3	364.7	324.5	40.16	9.081	
7,100.0	6,993.9	7,158.3	7,081.8	23.2	16.6	-159.72	558.2	112.6	338.7	298.2	40.50	8.363	
7,200.0	7,093.9	7,254.8	7,174.9	23.3	17.0	-159.05	582.9	118.0	312.8	271.9	40.84	7.659	
7,300.0	7,193.9	7,351.3	7,268.1	23.3	17.4	-158.25	607.6	123.3	286.9	245.7	41.18	6.968	
7,400.0	7,293.9	7,447.8	7,361.2	23.4	17.8	-157.29	632.3	128.6	261.1	219.6	41.50	6.291	
7,500.0	7,393.9	7,544.3	7,454.4	23.4	18.2	-156.13	657.0	134.0	235.4	193.6	41.81	5.630	
7,600.0	7,493.9	7,640.9	7,547.5	23.5	18.6	-154.68	681.7	139.3	209.7	167.7	42.08	4.985	
7,700.0	7,593.9	7,737.4	7,640.7	23.5	19.1	-152.83	706.4	144.6	184.3	142.0	42.30	4.357	
7,800.0	7,693.9	7,833.9	7,733.8	23.6	19.5	-150.40	731.1	149.9	159.1	116.7	42.41	3.751	
7,900.0	7,793.9	7,930.4	7,826.9	23.6	19.9	-147.06	755.8	155.3	134.2	91.9	42.35	3.170	
8,000.0	7,893.9	8,026.9	7,920.1	23.7	20.3	-142.25	780.5	160.6	110.0	68.1	41.93	2.623 Normal Operations	
8,100.0	7,993.9	8,123.4	8,013.2	23.7	20.7	-134.86	805.2	165.9	86.9	46.2	40.78	2.132 Caution - Monitor Closely	
8,200.0	8,093.9	8,219.9	8,106.4	23.8	21.2	-122.65	829.9	171.2	66.2	28.2	38.00	1.743 Caution - Monitor Closely	
8,300.0	8,193.9	8,316.4	8,199.5	23.8	21.6	-101.86	854.6	176.6	50.8	18.3	32.53	1.562 Caution - Monitor Closely	
8,381.4	8,275.3	8,395.0	8,275.3	23.9	21.9	-77.83	874.7	180.9	46.1	16.5	29.68	1.554 Caution - Monitor Closely	
8,400.0	8,293.9	8,412.9	8,292.7	23.9	22.0	-72.00	879.3	181.9	46.4	16.3	30.10	1.541 Caution - Monitor Closely, ES	
8,500.0	8,393.9	8,509.9	8,386.4	23.9	22.4	-45.30	903.5	187.1	55.2	18.7	36.52	1.512 Caution - Monitor Closely, SF	
8,600.0	8,493.9	8,607.8	8,481.5	24.0	22.9	-29.00	926.3	192.0	71.2	29.5	41.64	1.709 Caution - Monitor Closely	
8,700.0	8,593.9	8,706.4	8,577.6	24.0	23.3	-19.55	947.7	196.6	89.2	44.8	44.41	2.009 Caution - Monitor Closely	
8,800.0	8,693.9	8,805.8	8,674.9	24.1	23.7	-13.74	967.6	200.9	107.3	61.2	46.05	2.330 Caution - Monitor Closely	
8,900.0	8,793.9	8,905.9	8,773.2	24.1	24.2	-9.90	985.9	204.9	124.5	77.3	47.16	2.640 Normal Operations	
9,000.0	8,893.9	9,006.6	8,872.5	24.2	24.6	-7.24	1,002.7	208.5	140.5	92.5	48.00	2.927 Normal Operations	
9,100.0	8,993.9	9,107.9	8,972.6	24.3	25.0	-5.31	1,017.9	211.8	155.0	106.4	48.68	3.185	
9,200.0	9,093.9	9,209.7	9,073.5	24.3	25.4	-3.89	1,031.4	214.7	168.0	118.8	49.27	3.411	
9,300.0	9,193.9	9,312.0	9,175.0	24.4	25.8	-2.82	1,043.2	217.2	179.4	129.6	49.78	3.604	
9,400.0	9,293.9	9,414.7	9,277.2	24.4	26.2	-2.01	1,053.2	219.4	189.1	138.9	50.23	3.764	
9,500.0	9,393.9	9,517.7	9,379.9	24.5	26.6	-1.40	1,061.5	221.2	197.1	146.4	50.64	3.892	
9,600.0	9,493.9	9,621.1	9,483.0	24.5	26.9	-0.96	1,068.0	222.6	203.3	152.3	51.00	3.987	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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	9,593.9	9,724.6	9,586.4	24.6	27.3	-0.66	1,072.7	223.6	207.9	156.5	51.32	4.050	
9,800.0	9,693.9	9,828.2	9,690.0	24.6	27.6	-0.48	1,075.6	224.2	210.6	159.0	51.58	4.083	
9,900.0	9,793.9	9,931.9	9,793.7	24.7	27.8	-0.42	1,076.6	224.4	211.6	159.9	51.73	4.090	
10,000.0	9,893.9	10,032.2	9,893.9	24.7	27.8	-0.42	1,076.6	224.4	211.6	159.8	51.83	4.083	
10,100.0	9,993.9	10,132.2	9,993.9	24.8	27.9	-0.42	1,076.6	224.4	211.6	159.7	51.93	4.075	
10,200.0	10,093.9	10,232.2	10,093.9	24.9	27.9	-0.42	1,076.6	224.4	211.6	159.6	52.03	4.067	
10,300.0	10,193.9	10,332.2	10,193.9	24.9	28.0	-0.42	1,076.6	224.4	211.6	159.5	52.13	4.059	
10,400.0	10,293.9	10,432.2	10,293.9	25.0	28.0	-0.42	1,076.6	224.4	211.6	159.4	52.24	4.051	
10,500.0	10,393.9	10,532.2	10,393.9	25.0	28.1	-0.42	1,076.6	224.4	211.6	159.3	52.34	4.043	
10,600.0	10,493.9	10,632.2	10,493.9	25.1	28.1	-0.42	1,076.6	224.4	211.6	159.2	52.45	4.035	
10,700.0	10,593.9	10,732.2	10,593.9	25.1	28.2	-0.42	1,076.6	224.4	211.6	159.0	52.55	4.027	
10,800.0	10,693.9	10,832.2	10,693.9	25.2	28.2	-0.42	1,076.6	224.4	211.6	158.9	52.65	4.019	
10,900.0	10,793.9	10,932.2	10,793.9	25.2	28.3	-0.42	1,076.6	224.4	211.6	158.8	52.76	4.011	
11,000.0	10,893.9	11,032.2	10,893.9	25.3	28.3	-0.42	1,076.6	224.4	211.6	158.7	52.86	4.003	
11,100.0	10,993.9	11,132.2	10,993.9	25.4	28.4	-0.42	1,076.6	224.4	211.6	158.6	52.97	3.995	
11,200.0	11,093.9	11,232.2	11,093.9	25.4	28.4	-0.42	1,076.6	224.4	211.6	158.5	53.08	3.987	
11,300.0	11,193.9	11,332.2	11,193.9	25.5	28.5	-0.42	1,076.6	224.4	211.6	158.4	53.18	3.979	
11,400.0	11,293.9	11,432.2	11,293.9	25.5	28.5	-0.42	1,076.6	224.4	211.6	158.3	53.29	3.971	
11,465.6	11,359.5	11,497.7	11,359.5	25.6	28.5	-0.42	1,076.6	224.4	211.6	158.2	53.35	3.966	
11,475.0	11,368.9	11,507.2	11,368.9	25.6	28.5	179.84	1,076.6	224.4	211.7	158.3	53.35	3.968	
11,500.0	11,393.9	11,532.1	11,393.9	25.5	28.6	179.84	1,076.6	224.4	212.8	159.5	53.30	3.993	
11,525.0	11,418.8	11,557.0	11,418.8	25.4	28.6	179.84	1,076.6	224.4	215.3	162.0	53.25	4.043	
11,550.0	11,443.5	11,581.7	11,443.5	25.3	28.6	179.84	1,076.6	224.4	219.0	165.9	53.18	4.119	
11,575.0	11,468.0	11,606.2	11,468.0	25.2	28.6	179.84	1,076.6	224.4	224.1	171.0	53.12	4.219	
11,600.0	11,492.2	11,630.4	11,492.2	25.2	28.6	179.84	1,076.6	224.4	230.4	177.4	53.04	4.344	
11,625.0	11,516.0	11,654.2	11,516.0	25.1	28.6	179.85	1,076.6	224.4	238.0	185.0	52.97	4.493	
11,650.0	11,539.4	11,677.6	11,539.4	25.0	28.6	179.85	1,076.6	224.4	246.8	193.9	52.89	4.666	
11,675.0	11,562.3	11,700.5	11,562.3	24.9	28.6	179.85	1,076.6	224.4	256.8	204.0	52.82	4.862	
11,700.0	11,584.6	11,722.9	11,584.6	24.8	28.7	179.85	1,076.6	224.4	268.0	215.3	52.74	5.082	
11,725.0	11,606.4	11,744.6	11,606.4	24.7	28.7	179.86	1,076.6	224.4	280.4	227.7	52.66	5.324	
11,750.0	11,627.4	11,765.6	11,627.4	24.6	28.7	179.86	1,076.6	224.4	293.8	241.3	52.59	5.588	
11,775.0	11,647.7	11,786.0	11,647.7	24.5	28.7	179.86	1,076.6	224.4	308.4	255.9	52.51	5.873	
11,800.0	11,667.3	11,805.5	11,667.3	24.4	28.7	179.86	1,076.6	224.4	324.0	271.6	52.44	6.179	
11,825.0	11,685.9	11,824.2	11,685.9	24.3	28.7	179.86	1,076.6	224.4	340.6	288.2	52.37	6.504	
11,850.0	11,703.7	11,842.0	11,703.7	24.2	28.7	179.86	1,076.6	224.4	358.2	305.9	52.30	6.848	
11,875.0	11,720.6	11,858.8	11,720.6	24.1	28.7	179.86	1,076.6	224.4	376.6	324.4	52.24	7.210	
11,900.0	11,736.4	11,874.7	11,736.4	24.1	28.7	179.86	1,076.6	224.4	396.0	343.8	52.18	7.588	
11,925.0	11,751.2	11,889.5	11,751.2	24.0	28.7	179.86	1,076.6	224.4	416.1	364.0	52.12	7.983	
11,950.0	11,765.0	11,903.2	11,765.0	23.9	28.7	179.85	1,076.6	224.4	437.0	384.9	52.07	8.392	
11,975.0	11,777.6	11,915.9	11,777.6	23.9	28.8	179.84	1,076.6	224.4	458.5	406.5	52.02	8.814	
12,000.0	11,789.1	11,927.4	11,789.1	23.8	28.8	179.84	1,076.6	224.4	480.7	428.8	51.98	9.249	
12,025.0	11,799.4	11,937.7	11,799.4	23.8	28.8	179.82	1,076.6	224.4	503.5	451.6	51.94	9.694	
12,050.0	11,808.5	11,946.8	11,808.5	23.7	28.8	179.81	1,076.6	224.4	526.8	474.9	51.91	10.149	
12,075.0	11,816.4	11,954.7	11,816.4	23.7	28.8	179.78	1,076.6	224.4	550.5	498.6	51.88	10.612	
12,100.0	11,823.0	11,961.3	11,823.0	23.6	28.8	179.75	1,076.6	224.4	574.6	522.8	51.85	11.082	
12,125.0	11,828.4	11,966.6	11,828.4	23.6	28.8	179.70	1,076.6	224.4	599.0	547.2	51.83	11.557	
12,150.0	11,832.5	11,970.7	11,832.5	23.6	28.8	179.60	1,076.6	224.4	623.7	571.9	51.82	12.037	
12,175.0	11,835.2	11,973.5	11,835.2	23.6	28.8	179.38	1,076.6	224.4	648.5	596.7	51.81	12.519	
12,200.0	11,836.7	13,101.7	12,494.9	23.6	26.6	179.95	403.1	227.5	658.2	602.5	55.63	11.831	
12,215.6	11,837.0	13,117.2	12,494.9	23.6	26.6	179.95	387.5	227.6	657.9	602.2	55.71	11.810	
12,300.0	11,837.0	13,201.7	12,494.9	23.6	26.6	179.95	303.1	228.0	657.9	601.8	56.15	11.717	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		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	
12,400.0	11,837.0	13,301.7	12,494.9	23.6	26.6	179.95	203.1	228.5	657.9	601.2	56.71	11.601		
12,500.0	11,837.0	13,401.7	12,494.9	23.7	26.6	179.95	103.1	228.9	657.9	600.6	57.31	11.480		
12,600.0	11,837.0	13,501.7	12,494.9	23.7	26.6	179.95	3.1	229.4	657.9	600.0	57.94	11.354		
12,700.0	11,837.0	13,601.7	12,494.9	23.7	26.6	179.96	-96.9	229.9	657.9	599.3	58.61	11.225		
12,800.0	11,837.0	13,701.7	12,494.9	23.8	26.7	179.96	-196.9	230.3	657.9	598.6	59.31	11.092		
12,900.0	11,837.0	13,801.7	12,494.9	23.9	26.7	179.96	-296.9	230.8	657.9	597.9	60.05	10.957		
13,000.0	11,837.0	13,901.7	12,494.9	23.9	26.7	179.96	-396.9	231.2	657.9	597.1	60.81	10.819		
13,100.0	11,837.0	14,001.7	12,494.9	24.1	26.7	179.96	-496.9	231.7	657.9	596.3	61.60	10.679		
13,200.0	11,837.0	14,101.7	12,494.9	24.2	26.8	179.96	-596.9	232.2	657.9	595.5	62.43	10.539		
13,300.0	11,837.0	14,201.7	12,494.9	24.3	26.8	179.96	-696.9	232.6	657.9	594.6	63.28	10.397		
13,400.0	11,837.0	14,301.7	12,494.9	24.6	26.9	179.96	-796.9	233.1	657.9	593.7	64.15	10.255		
13,500.0	11,837.0	14,401.7	12,494.9	24.8	27.0	179.96	-896.9	233.5	657.9	592.8	65.05	10.113		
13,600.0	11,837.0	14,501.7	12,494.9	25.1	27.1	179.96	-996.9	234.0	657.9	591.9	65.98	9.971		
13,700.0	11,837.0	14,601.7	12,494.9	25.5	27.3	179.96	-1,096.9	234.5	657.9	591.0	66.93	9.830		
13,800.0	11,837.0	14,701.7	12,494.9	26.0	27.6	179.96	-1,196.9	234.9	657.9	590.0	67.90	9.689		
13,900.0	11,837.0	14,801.7	12,494.9	26.5	28.1	179.96	-1,296.9	235.4	657.9	589.0	68.89	9.550		
14,000.0	11,837.0	14,901.7	12,494.9	27.0	28.6	179.96	-1,396.9	235.8	657.9	588.0	69.90	9.412		
14,100.0	11,837.0	15,001.7	12,494.9	27.7	29.3	179.96	-1,496.9	236.3	657.9	587.0	70.94	9.275		
14,200.0	11,837.0	15,101.7	12,494.9	28.3	30.0	179.97	-1,596.9	236.8	657.9	585.9	71.99	9.139		
14,300.0	11,837.0	15,201.7	12,494.9	29.0	30.7	179.97	-1,696.9	237.2	657.9	584.8	73.05	9.006		
14,400.0	11,837.0	15,301.7	12,494.9	29.7	31.4	179.97	-1,796.9	237.7	657.9	583.8	74.14	8.874		
14,500.0	11,837.0	15,401.7	12,494.9	30.4	32.2	179.97	-1,896.9	238.2	657.9	582.7	75.24	8.744		
14,600.0	11,837.0	15,501.7	12,494.9	31.2	33.0	179.97	-1,996.9	238.6	657.9	581.5	76.36	8.616		
14,700.0	11,837.0	15,601.7	12,494.9	31.9	33.8	179.97	-2,096.9	239.1	657.9	580.4	77.49	8.490		
14,800.0	11,837.0	15,701.7	12,494.9	32.7	34.6	179.97	-2,196.9	239.5	657.9	579.3	78.64	8.366		
14,900.0	11,837.0	15,801.7	12,494.9	33.5	35.4	179.97	-2,296.9	240.0	657.9	578.1	79.80	8.245		
15,000.0	11,837.0	15,901.7	12,494.9	34.3	36.2	179.97	-2,396.9	240.5	657.9	576.9	80.97	8.125		
15,100.0	11,837.0	16,001.7	12,494.9	35.1	37.0	179.97	-2,496.9	240.9	657.9	575.7	82.16	8.008		
15,200.0	11,837.0	16,101.7	12,494.9	36.0	37.9	179.97	-2,596.9	241.4	657.9	574.5	83.35	7.893		
15,300.0	11,837.0	16,201.7	12,494.9	36.8	38.7	179.97	-2,696.9	241.8	657.9	573.3	84.56	7.780		
15,400.0	11,837.0	16,301.7	12,494.9	37.6	39.5	179.97	-2,796.9	242.3	657.9	572.1	85.78	7.669		
15,500.0	11,837.0	16,401.7	12,494.9	38.5	40.4	179.97	-2,896.9	242.8	657.9	570.9	87.01	7.561		
15,600.0	11,837.0	16,501.7	12,494.9	39.3	41.3	179.97	-2,996.9	243.2	657.9	569.6	88.25	7.455		
15,700.0	11,837.0	16,601.7	12,494.9	40.2	42.1	179.97	-3,096.9	243.7	657.9	568.4	89.50	7.350		
15,800.0	11,837.0	16,701.7	12,494.9	41.0	43.0	179.98	-3,196.9	244.2	657.9	567.1	90.76	7.248		
15,900.0	11,837.0	16,801.7	12,494.9	41.9	43.9	179.98	-3,296.9	244.6	657.9	565.9	92.03	7.149		
16,000.0	11,837.0	16,901.7	12,494.9	42.8	44.7	179.98	-3,396.9	245.1	657.9	564.6	93.31	7.051		
16,100.0	11,837.0	17,001.7	12,494.9	43.7	45.6	179.98	-3,496.9	245.5	657.9	563.3	94.59	6.955		
16,200.0	11,837.0	17,101.7	12,494.9	44.5	46.5	179.98	-3,596.9	246.0	657.9	562.0	95.89	6.861		
16,300.0	11,837.0	17,201.7	12,494.9	45.4	47.4	179.98	-3,696.9	246.5	657.9	560.7	97.19	6.769		
16,400.0	11,837.0	17,301.7	12,494.9	46.3	48.3	179.98	-3,796.9	246.9	657.9	559.4	98.49	6.680		
16,500.0	11,837.0	17,401.7	12,494.9	47.2	49.2	179.98	-3,896.9	247.4	657.9	558.1	99.81	6.592		
16,600.0	11,837.0	17,501.7	12,494.9	48.1	50.1	179.98	-3,996.9	247.8	657.9	556.8	101.13	6.505		
16,700.0	11,837.0	17,601.7	12,494.9	49.0	51.0	179.98	-4,096.8	248.3	657.9	555.4	102.46	6.421		
16,800.0	11,837.0	17,701.7	12,494.9	49.9	51.9	179.98	-4,196.8	248.8	657.9	554.1	103.79	6.339		
16,900.0	11,837.0	17,801.7	12,494.9	50.8	52.8	179.98	-4,296.8	249.2	657.9	552.8	105.13	6.258		
17,000.0	11,837.0	17,901.7	12,494.9	51.7	53.7	179.98	-4,396.8	249.7	657.9	551.4	106.48	6.179		
17,100.0	11,837.0	18,001.7	12,494.9	52.6	54.6	179.98	-4,496.8	250.1	657.9	550.1	107.83	6.101		
17,200.0	11,837.0	18,101.7	12,494.9	53.5	55.5	179.98	-4,596.8	250.6	657.9	548.7	109.18	6.026		
17,300.0	11,837.0	18,201.7	12,494.9	54.4	56.4	179.99	-4,696.8	251.1	657.9	547.4	110.54	5.952		
17,400.0	11,837.0	18,301.7	12,494.9	55.3	57.3	179.99	-4,796.8	251.5	657.9	546.0	111.91	5.879		

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1					Rule Assigned:							Offset Well Error:	3.0 usft
Reference		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)					
17,500.0	11,837.0	18,401.7	12,494.9	56.2	58.2	179.99	-4,896.8	252.0	657.9	544.6	113.28	5.808			
17,600.0	11,837.0	18,501.7	12,494.9	57.1	59.1	179.99	-4,996.8	252.5	657.9	543.2	114.66	5.738			
17,700.0	11,837.0	18,601.7	12,494.9	58.1	60.0	179.99	-5,096.8	252.9	657.9	541.9	116.03	5.670			
17,800.0	11,837.0	18,701.7	12,494.9	59.0	61.0	179.99	-5,196.8	253.4	657.9	540.5	117.42	5.603			
17,900.0	11,837.0	18,801.7	12,494.9	59.9	61.9	179.99	-5,296.8	253.8	657.9	539.1	118.81	5.538			
18,000.0	11,837.0	18,901.7	12,494.9	60.8	62.8	179.99	-5,396.8	254.3	657.9	537.7	120.20	5.473			
18,100.0	11,837.0	19,001.7	12,494.9	61.7	63.7	179.99	-5,496.8	254.8	657.9	536.3	121.59	5.411			
18,200.0	11,837.0	19,101.7	12,494.9	62.7	64.6	179.99	-5,596.8	255.2	657.9	534.9	122.99	5.349			
18,300.0	11,837.0	19,201.7	12,494.9	63.6	65.6	179.99	-5,696.8	255.7	657.9	533.5	124.40	5.289			
18,400.0	11,837.0	19,301.7	12,494.9	64.5	66.5	179.99	-5,796.8	256.1	657.9	532.1	125.80	5.230			
18,500.0	11,837.0	19,401.7	12,494.9	65.4	67.4	179.99	-5,896.8	256.6	657.9	530.7	127.21	5.172			
18,600.0	11,837.0	19,501.7	12,494.9	66.4	68.3	179.99	-5,996.8	257.1	657.9	529.3	128.62	5.115			
18,700.0	11,837.0	19,601.7	12,494.9	67.3	69.3	179.99	-6,096.8	257.5	657.9	527.9	130.04	5.059			
18,800.0	11,837.0	19,701.7	12,494.9	68.2	70.2	180.00	-6,196.8	258.0	657.9	526.4	131.46	5.005			
18,900.0	11,837.0	19,801.7	12,494.9	69.2	71.1	180.00	-6,296.8	258.5	657.9	525.0	132.88	4.951			
19,000.0	11,837.0	19,901.7	12,494.9	70.1	72.1	180.00	-6,396.8	258.9	657.9	523.6	134.30	4.899			
19,100.0	11,837.0	20,001.7	12,494.9	71.0	73.0	180.00	-6,496.8	259.4	657.9	522.2	135.73	4.847			
19,200.0	11,837.0	20,101.7	12,494.9	72.0	73.9	180.00	-6,596.8	259.8	657.9	520.7	137.16	4.797			
19,300.0	11,837.0	20,201.7	12,494.9	72.9	74.9	180.00	-6,696.8	260.3	657.9	519.3	138.59	4.747			
19,400.0	11,837.0	20,301.7	12,494.9	73.8	75.8	180.00	-6,796.8	260.8	657.9	517.9	140.03	4.698			
19,500.0	11,837.0	20,401.7	12,494.9	74.8	76.7	180.00	-6,896.8	261.2	657.9	516.4	141.47	4.651			
19,565.2	11,837.0	20,466.9	12,494.9	75.4	77.3	180.00	-6,962.0	261.5	657.9	515.5	142.40	4.620			

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - PAYNE FEDERAL 1_PA - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 200-r.5 INC-ONLY												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)			
3,400.0	3,371.6	3,347.2	3,375.5	9.6	85.7	-1.47	1,198.9	284.1	984.1	863.4	120.75	8.150	
3,500.0	3,468.0	3,439.7	3,468.0	10.0	88.0	-1.50	1,198.6	284.1	957.4	833.3	124.05	7.718	
3,600.0	3,564.5	3,543.0	3,571.3	10.4	90.6	-1.56	1,199.3	284.1	931.7	804.0	127.73	7.295	
3,700.0	3,660.9	3,632.7	3,660.9	10.9	92.9	-1.59	1,198.6	284.1	904.6	773.7	130.94	6.909	
3,800.0	3,757.4	3,731.5	3,759.7	11.3	95.4	-1.64	1,199.0	284.1	878.6	744.1	134.46	6.534	
3,900.0	3,853.8	3,825.6	3,853.8	11.7	97.8	-1.69	1,198.6	284.1	851.8	714.0	137.82	6.180	
4,000.0	3,950.3	3,925.7	3,953.9	12.1	100.3	-1.75	1,199.4	284.1	826.2	684.8	141.39	5.843	
4,100.0	4,046.7	4,018.6	4,046.7	12.6	102.6	-1.80	1,198.6	284.1	799.0	654.3	144.72	5.521	
4,200.0	4,143.2	4,116.1	4,144.2	13.0	105.1	-1.87	1,199.0	284.1	773.0	624.8	148.20	5.216	
4,300.0	4,239.6	4,211.6	4,239.6	13.4	107.5	-1.92	1,198.6	284.1	746.2	594.6	151.62	4.921	
4,400.0	4,336.1	4,309.2	4,337.2	13.9	110.0	-2.01	1,199.4	284.1	720.6	565.5	155.11	4.646	
4,500.0	4,432.5	4,404.5	4,432.5	14.3	112.4	-2.07	1,198.6	284.1	693.4	534.9	158.52	4.374	
4,600.0	4,529.0	4,501.0	4,529.0	14.8	114.8	-2.15	1,198.6	284.1	667.0	505.0	161.96	4.118	
4,700.0	4,625.4	4,544.0	4,571.9	15.3	115.9	-2.19	1,198.6	284.1	642.8	479.8	163.02	3.943 SF	
4,800.0	4,721.9	4,544.0	4,571.9	15.7	115.9	-2.19	1,198.6	284.1	632.2	473.1	159.18	3.972 ES	
4,817.5	4,738.7	4,544.0	4,571.9	15.8	115.9	-2.19	1,198.6	284.1	632.0	473.9	158.10	3.997 CC	
4,900.0	4,818.3	4,544.0	4,571.9	16.2	115.9	-2.19	1,198.6	284.1	637.4	485.9	151.48	4.207	
5,000.0	4,914.8	4,544.0	4,571.9	16.6	115.9	-2.19	1,198.6	284.1	657.8	517.1	140.67	4.676	
5,074.5	4,986.6	4,544.0	4,571.9	17.0	115.9	-2.19	1,198.6	284.1	682.2	550.9	131.33	5.195	
5,100.0	5,011.2	4,544.0	4,571.9	17.1	115.9	-2.20	1,198.6	284.1	692.3	564.3	128.00	5.409	
5,200.0	5,108.0	4,544.0	4,571.9	17.6	115.9	-2.22	1,198.6	284.1	739.9	625.0	114.87	6.441	
5,300.0	5,205.2	4,544.0	4,571.9	18.0	115.9	-2.24	1,198.6	284.1	798.6	696.2	102.37	7.801	
5,400.0	5,302.8	4,544.0	4,571.9	18.5	115.9	-2.28	1,198.6	284.1	866.2	775.1	91.10	9.508	
5,500.0	5,400.8	4,544.0	4,571.9	18.9	115.9	-2.33	1,198.6	284.1	940.7	859.4	81.30	11.571	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST '21' FEDERAL COM 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
8,500.0	8,393.9	13,758.0	9,355.2	23.9	78.2	-92.94	854.8	28.2	981.5	918.5	63.01	15.577	
8,600.0	8,493.9	13,758.0	9,355.2	24.0	78.2	-92.94	854.8	28.2	883.8	820.0	63.77	13.860	
8,700.0	8,593.9	13,758.0	9,355.2	24.0	78.2	-92.94	854.8	28.2	786.7	721.9	64.76	12.147	
8,800.0	8,693.9	13,758.0	9,355.2	24.1	78.2	-92.94	854.8	28.2	690.3	624.2	66.12	10.440	
8,900.0	8,793.9	13,758.0	9,355.2	24.1	78.2	-92.94	854.8	28.2	595.2	527.2	68.07	8.745	
9,000.0	8,893.9	13,758.0	9,355.2	24.2	78.2	-92.94	854.8	28.2	502.0	431.1	70.97	7.074	
9,100.0	8,993.9	13,758.0	9,355.2	24.3	78.2	-92.94	854.8	28.2	412.0	336.5	75.55	5.454	
9,200.0	9,093.9	13,758.0	9,355.2	24.3	78.2	-92.94	854.8	28.2	327.9	244.9	82.99	3.951	
9,300.0	9,193.9	13,758.0	9,355.2	24.4	78.2	-92.94	854.8	28.2	255.5	160.8	94.69	2.698	Normal Operations
9,400.0	9,293.9	13,758.0	9,355.2	24.4	78.2	-92.94	854.8	28.2	207.4	99.1	108.26	1.915	Caution - Monitor Closely
9,461.3	9,355.2	13,758.0	9,355.2	24.4	78.2	-92.94	854.8	28.2	198.1	86.2	111.91	1.770	Caution - Monitor Closely, CC, ES, SF
9,500.0	9,393.9	13,758.0	9,355.2	24.5	78.2	-92.94	854.8	28.2	201.8	91.2	110.59	1.825	Caution - Monitor Closely
9,600.0	9,493.9	13,756.9	9,355.3	24.5	78.2	-92.62	855.9	28.1	241.8	143.2	98.64	2.451	Caution - Monitor Closely
9,700.0	9,593.9	13,754.4	9,355.3	24.6	78.1	-91.91	858.4	27.9	310.2	223.8	86.32	3.593	
9,800.0	9,693.9	13,752.0	9,355.4	24.6	78.1	-91.21	860.8	27.8	392.3	314.0	78.27	5.012	
9,900.0	9,793.9	13,749.6	9,355.5	24.7	78.1	-90.50	863.3	27.6	481.3	407.8	73.42	6.555	
10,000.0	9,893.9	13,747.1	9,355.5	24.7	78.0	-89.80	865.7	27.5	573.9	503.4	70.46	8.144	
10,100.0	9,993.9	13,744.7	9,355.6	24.8	78.0	-89.10	868.1	27.3	668.6	600.0	68.60	9.746	
10,200.0	10,093.9	13,742.2	9,355.6	24.9	77.9	-88.40	870.6	27.2	764.6	697.2	67.39	11.346	
10,300.0	10,193.9	13,739.8	9,355.7	24.9	77.9	-87.70	873.0	27.0	861.6	795.0	66.60	12.937	
10,400.0	10,293.9	13,737.3	9,355.8	25.0	77.9	-87.00	875.4	26.9	959.1	893.1	66.07	14.516	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W0AP FEDERAL COM 003H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 99-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,000.0	10,893.9	16,565.7	11,835.3	25.3	87.1	-92.91	851.7	-36.2	977.3	904.6	72.66	13.451	
11,100.0	10,993.9	16,563.5	11,835.3	25.4	87.0	-92.43	853.9	-36.2	881.4	808.0	73.33	12.019	
11,200.0	11,093.9	16,561.5	11,835.4	25.4	87.0	-91.99	855.9	-36.2	786.5	712.2	74.30	10.585	
11,300.0	11,193.9	16,559.6	11,835.4	25.5	87.0	-91.58	857.8	-36.2	693.0	617.3	75.74	9.150	
11,400.0	11,293.9	16,557.8	11,835.4	25.5	86.9	-91.19	859.6	-36.1	601.6	523.7	77.94	7.720	
11,465.6	11,359.5	16,556.7	11,835.4	25.6	86.9	-90.95	860.6	-36.1	543.4	463.4	80.03	6.790	
11,475.0	11,368.9	16,556.7	11,835.4	25.6	86.9	91.35	860.7	-36.1	535.1	454.7	80.39	6.657	
11,500.0	11,393.9	16,557.6	11,835.4	25.5	86.9	96.32	859.8	-36.1	513.5	432.1	81.43	6.306	
11,525.0	11,418.8	16,559.3	11,835.4	25.4	87.0	100.73	858.1	-36.2	492.3	409.7	82.61	5.959	
11,550.0	11,443.5	16,562.8	11,835.4	25.3	87.0	104.38	854.6	-36.2	471.5	387.6	83.96	5.616	
11,575.0	11,468.0	16,567.5	11,835.3	25.2	87.1	107.37	849.9	-36.2	451.4	365.9	85.47	5.281	
11,600.0	11,492.2	16,573.6	11,835.2	25.2	87.2	109.74	843.8	-36.3	431.9	344.7	87.17	4.954	
11,625.0	11,516.0	16,580.9	11,835.1	25.1	87.3	111.56	836.5	-36.3	413.2	324.1	89.06	4.640	
11,650.0	11,539.4	16,589.5	11,835.0	25.0	87.4	112.86	827.8	-36.4	395.4	304.3	91.14	4.338	
11,675.0	11,562.3	16,599.4	11,834.9	24.9	87.6	113.69	818.0	-36.4	378.6	285.1	93.42	4.052	
11,700.0	11,584.6	16,610.5	11,834.8	24.8	87.7	114.09	806.9	-36.5	362.8	266.9	95.87	3.784	
11,725.0	11,606.4	16,622.8	11,834.7	24.7	87.9	114.11	794.6	-36.5	348.1	249.7	98.48	3.535	
11,750.0	11,627.4	16,636.3	11,834.6	24.6	88.1	113.78	781.1	-36.5	334.7	233.5	101.23	3.306	
11,775.0	11,647.7	16,650.7	11,834.4	24.5	88.3	113.15	766.6	-36.5	322.5	218.4	104.06	3.099	
11,800.0	11,667.3	16,665.5	11,834.3	24.4	88.6	112.34	751.9	-36.5	311.6	204.7	106.93	2.914 Normal Operations	
11,825.0	11,685.9	16,681.2	11,834.3	24.3	88.8	111.27	736.1	-36.5	302.1	192.3	109.80	2.751 Normal Operations	
11,850.0	11,703.7	16,698.0	11,834.3	24.2	89.1	109.96	719.3	-36.6	293.8	181.2	112.60	2.610 Normal Operations	
11,875.0	11,720.6	16,715.8	11,834.3	24.1	89.3	108.45	701.6	-36.6	286.9	171.6	115.28	2.489 Caution - Monitor Closely	
11,900.0	11,736.4	16,734.5	11,834.4	24.1	89.6	106.78	682.8	-36.7	281.2	163.4	117.80	2.387 Caution - Monitor Closely	
11,925.0	11,751.2	16,751.6	11,834.6	24.0	89.9	105.29	665.8	-36.9	276.7	156.6	120.09	2.304 Caution - Monitor Closely	
11,950.0	11,765.0	16,771.8	11,834.9	23.9	90.2	103.44	645.6	-37.3	273.4	151.2	122.19	2.238 Caution - Monitor Closely	
11,975.0	11,777.6	16,793.5	11,835.2	23.9	90.5	101.48	623.9	-37.7	271.0	147.0	124.08	2.184 Caution - Monitor Closely	
12,000.0	11,789.1	16,815.8	11,835.5	23.8	90.8	99.57	601.6	-38.1	269.4	143.7	125.74	2.143 Caution - Monitor Closely	
12,016.3	11,796.0	16,820.0	11,835.5	23.8	90.9	99.26	597.4	-38.2	268.9	142.4	126.53	2.125 Caution - Monitor Closely, CC	
12,025.0	11,799.4	16,820.0	11,835.5	23.8	90.9	99.24	597.4	-38.2	269.1	142.3	126.77	2.122 Caution - Monitor Closely, ES, SF	
12,050.0	11,808.5	16,820.0	11,835.5	23.7	90.9	98.98	597.4	-38.2	271.2	144.4	126.81	2.139 Caution - Monitor Closely	
12,075.0	11,816.4	16,820.0	11,835.5	23.7	90.9	98.43	597.4	-38.2	275.8	149.9	125.92	2.190 Caution - Monitor Closely	
12,100.0	11,823.0	16,820.0	11,835.5	23.6	90.9	97.57	597.4	-38.2	282.7	158.5	124.20	2.276 Caution - Monitor Closely	
12,125.0	11,828.4	16,820.0	11,835.5	23.6	90.9	96.41	597.4	-38.2	291.8	170.0	121.80	2.396 Caution - Monitor Closely	
12,150.0	11,832.5	16,820.0	11,835.5	23.6	90.9	94.95	597.4	-38.2	302.8	183.9	118.88	2.547 Normal Operations	
12,175.0	11,835.2	16,820.0	11,835.5	23.6	90.9	93.18	597.4	-38.2	315.5	199.9	115.63	2.728 Normal Operations	
12,200.0	11,836.7	16,820.0	11,835.5	23.6	90.9	91.12	597.4	-38.2	329.6	217.5	112.18	2.939 Normal Operations	
12,215.6	11,837.0	16,820.0	11,835.5	23.6	90.9	89.69	597.4	-38.2	339.1	229.1	109.99	3.083	
12,300.0	11,837.0	16,820.0	11,835.5	23.6	90.9	89.69	597.4	-38.2	397.2	298.4	98.76	4.022	
12,400.0	11,837.0	16,820.0	11,835.5	23.6	90.9	89.69	597.4	-38.2	476.3	388.2	88.08	5.408	
12,500.0	11,837.0	16,820.0	11,835.5	23.7	90.9	89.69	597.4	-38.2	562.1	481.9	80.19	7.010	
12,600.0	11,837.0	16,820.0	11,835.5	23.7	90.9	89.69	597.4	-38.2	652.0	577.6	74.41	8.762	
12,700.0	11,837.0	16,820.0	11,835.5	23.7	90.9	89.69	597.4	-38.2	744.4	674.3	70.14	10.614	
12,800.0	11,837.0	16,820.0	11,835.5	23.8	90.9	89.69	597.4	-38.2	838.6	771.7	66.91	12.533	
12,900.0	11,837.0	16,820.0	11,835.5	23.9	90.9	89.69	597.4	-38.2	934.0	869.6	64.44	14.494	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W1AP FEDERAL COM 002H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 648-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,400.0	11,293.9	16,812.3	12,118.4	25.5	89.7	95.62	826.9	613.4	911.7	830.8	80.96	11.261	
11,465.6	11,359.5	16,811.2	12,118.4	25.6	89.7	95.45	828.0	613.5	852.9	770.5	82.36	10.356	
11,475.0	11,368.9	16,811.1	12,118.4	25.6	89.7	-86.49	828.1	613.5	844.5	761.9	82.58	10.226	
11,500.0	11,393.9	16,811.7	12,118.4	25.5	89.7	-92.12	827.5	613.4	822.4	739.2	83.21	9.883	
11,525.0	11,418.8	16,813.5	12,118.4	25.4	89.8	-97.33	825.7	613.3	800.4	716.5	83.89	9.541	
11,550.0	11,443.5	16,816.6	12,118.3	25.3	89.8	-102.06	822.7	613.2	778.8	694.1	84.63	9.202	
11,575.0	11,468.0	16,820.8	12,118.2	25.2	89.9	-106.27	818.4	612.9	757.4	672.0	85.43	8.866	
11,600.0	11,492.2	16,826.3	12,118.1	25.2	89.9	-109.96	813.0	612.6	736.4	650.2	86.28	8.535	
11,625.0	11,516.0	16,833.0	12,118.0	25.1	90.0	-113.16	806.3	612.2	715.9	628.7	87.20	8.210	
11,650.0	11,539.4	16,839.0	12,117.9	25.0	90.1	-116.11	800.3	611.9	696.0	607.8	88.15	7.895	
11,675.0	11,562.3	16,839.0	12,117.9	24.9	90.1	-119.34	800.3	611.9	676.6	587.6	89.07	7.597	
11,700.0	11,584.6	16,839.0	12,117.9	24.8	90.1	-122.18	800.3	611.9	658.2	568.1	90.02	7.311	
11,725.0	11,606.4	16,862.5	12,117.7	24.7	90.5	-122.66	776.8	610.6	640.0	548.6	91.33	7.007	
11,750.0	11,627.4	16,871.7	12,117.7	24.6	90.6	-124.23	767.6	610.2	622.9	530.4	92.49	6.735	
11,775.0	11,647.7	16,881.8	12,117.8	24.5	90.8	-125.54	757.5	609.8	606.7	513.0	93.68	6.476	
11,800.0	11,667.3	16,892.8	12,117.9	24.4	90.9	-126.61	746.5	609.4	591.4	496.5	94.91	6.231	
11,825.0	11,685.9	16,904.7	12,118.1	24.3	91.1	-127.48	734.6	609.0	577.1	480.9	96.17	6.001	
11,850.0	11,703.7	16,917.4	12,118.4	24.2	91.3	-128.16	721.9	608.7	563.9	466.4	97.44	5.787	
11,875.0	11,720.6	16,933.0	12,119.0	24.1	91.5	-128.57	706.3	608.4	551.8	453.0	98.74	5.588	
11,900.0	11,736.4	16,969.7	12,119.9	24.1	92.1	-127.79	669.6	607.3	540.4	440.1	100.26	5.389	
11,925.0	11,751.2	16,989.7	12,120.3	24.0	92.3	-127.92	649.7	606.5	529.5	427.9	101.56	5.213	
11,950.0	11,765.0	17,010.7	12,120.6	23.9	92.7	-127.97	628.7	605.5	519.5	416.6	102.83	5.052	
11,975.0	11,777.6	17,032.5	12,120.9	23.9	93.0	-127.96	607.0	604.6	510.3	406.3	104.06	4.904	
12,000.0	11,789.1	17,035.0	12,121.0	23.8	93.0	-128.64	604.5	604.5	502.5	397.5	105.03	4.784	
12,025.0	11,799.4	17,035.0	12,121.0	23.8	93.0	-129.21	604.5	604.5	496.6	390.8	105.78	4.694	
12,050.0	11,808.5	17,035.0	12,121.0	23.7	93.0	-129.57	604.5	604.5	492.7	386.4	106.30	4.635	
12,075.0	11,816.4	17,035.0	12,121.0	23.7	93.0	-129.74	604.5	604.5	490.9	384.3	106.54	4.607	
12,084.0	11,819.0	17,035.0	12,121.0	23.7	93.0	-129.76	604.5	604.5	490.8	384.2	106.56	4.605 CC, ES, SF	
12,100.0	11,823.0	17,035.0	12,121.0	23.6	93.0	-129.72	604.5	604.5	491.2	384.7	106.50	4.612	
12,125.0	11,828.4	17,035.0	12,121.0	23.6	93.0	-129.49	604.5	604.5	493.6	387.4	106.17	4.649	
12,150.0	11,832.5	17,035.0	12,121.0	23.6	93.0	-129.07	604.5	604.5	498.0	392.5	105.56	4.718	
12,175.0	11,835.2	17,035.0	12,121.0	23.6	93.0	-128.45	604.5	604.5	504.5	399.8	104.69	4.819	
12,200.0	11,836.7	17,035.0	12,121.0	23.6	93.0	-127.61	604.5	604.5	512.8	409.3	103.58	4.951	
12,215.6	11,837.0	17,035.0	12,121.0	23.6	93.0	-126.97	604.5	604.5	519.0	416.2	102.79	5.048	
12,300.0	11,837.0	17,035.0	12,121.0	23.6	93.0	-126.97	604.5	604.5	559.3	461.2	98.06	5.704	
12,400.0	11,837.0	17,035.0	12,121.0	23.6	93.0	-126.97	604.5	604.5	618.6	526.3	92.34	6.699	
12,500.0	11,837.0	17,035.0	12,121.0	23.7	93.0	-126.97	604.5	604.5	687.5	600.3	87.15	7.889	
12,600.0	11,837.0	17,035.0	12,121.0	23.7	93.0	-126.97	604.5	604.5	763.3	680.6	82.71	9.228	
12,700.0	11,837.0	17,035.0	12,121.0	23.7	93.0	-126.97	604.5	604.5	844.1	765.1	79.04	10.679	
12,800.0	11,837.0	17,035.0	12,121.0	23.8	93.0	-126.97	604.5	604.5	928.7	852.6	76.05	12.212	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 28 1H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 797-r.5 MWD													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	9.5	0.0	0.0	132.90	-115.7	124.6	170.3				
100.0	100.0	91.1	100.6	0.8	4.1	132.83	-115.5	124.6	169.9	163.2	6.69	25.398	
200.0	200.0	191.7	201.2	1.4	8.7	132.59	-114.6	124.7	169.4	156.2	13.14	12.894	
300.0	300.0	292.3	301.8	1.9	13.3	132.18	-113.1	124.8	168.5	148.9	19.54	8.622	
400.0	400.0	392.9	402.4	2.3	17.9	131.60	-111.0	125.0	167.2	141.3	25.93	6.449	
500.0	500.0	493.5	502.9	2.6	22.4	130.84	-108.3	125.3	165.7	133.3	32.32	5.126	
600.0	600.0	594.0	603.3	2.9	27.0	129.88	-105.0	125.7	163.8	125.1	38.71	4.231	
700.0	700.0	694.5	703.7	3.1	31.6	128.71	-101.0	126.1	161.6	116.5	45.08	3.584	
800.0	800.0	794.9	804.1	3.4	36.1	127.32	-96.5	126.5	159.2	107.9	51.30	3.102	
852.7	852.7	843.5	852.7	3.5	36.3	126.62	-94.5	127.2	158.5	107.0	51.46	3.079 CC, ES, SF	
900.0	900.0	888.0	897.1	3.6	36.3	126.04	-93.5	128.6	159.0	107.6	51.47	3.090	
1,000.0	1,000.0	985.8	994.8	3.8	36.3	125.09	-93.0	132.4	161.9	110.4	51.49	3.144	
1,100.0	1,100.0	1,086.0	1,095.0	4.0	36.3	124.44	-93.3	136.0	165.0	113.4	51.55	3.201	
1,200.0	1,200.0	1,186.6	1,195.6	4.2	36.3	124.06	-94.0	139.0	167.8	116.2	51.61	3.252	
1,300.0	1,300.0	1,287.2	1,296.1	4.4	36.4	123.90	-95.0	141.3	170.3	118.6	51.68	3.296	
1,400.0	1,400.0	1,387.9	1,396.8	4.6	36.4	123.93	-96.2	143.0	172.4	120.6	51.76	3.331	
1,500.0	1,500.0	1,488.2	1,497.1	4.7	36.4	124.11	-97.7	144.2	174.2	122.4	51.83	3.361	
1,600.0	1,600.0	1,589.0	1,597.9	4.9	36.4	124.37	-99.1	144.9	175.6	123.7	51.90	3.384	
1,700.0	1,700.0	1,690.0	1,698.9	5.1	36.5	124.75	-100.7	145.1	176.6	124.7	51.97	3.398	
1,800.0	1,800.0	1,791.3	1,800.1	5.2	36.5	125.28	-102.1	144.4	176.9	124.8	52.04	3.399	
1,900.0	1,900.0	1,892.1	1,900.9	5.4	36.5	126.03	-103.9	142.8	176.5	124.4	52.10	3.389	
2,000.0	2,000.0	1,992.7	2,001.4	5.6	36.5	127.00	-105.9	140.5	175.9	123.7	52.16	3.373	
2,100.0	2,100.0	2,092.6	2,101.3	5.7	36.5	98.35	-107.6	138.1	175.3	123.0	52.21	3.357	
2,184.8	2,184.8	2,177.6	2,186.3	5.9	36.5	100.10	-108.9	136.2	175.1	122.9	52.25	3.352	
2,200.0	2,199.9	2,192.8	2,201.5	5.9	36.5	100.47	-109.1	135.9	175.1	122.9	52.26	3.351	
2,300.0	2,299.7	2,293.0	2,301.6	6.2	36.5	103.29	-110.1	133.6	175.5	123.2	52.32	3.354	
2,333.3	2,332.9	2,326.3	2,334.9	6.2	36.5	104.39	-110.4	132.9	175.8	123.5	52.33	3.359	
2,400.0	2,399.3	2,392.6	2,401.2	6.3	36.6	111.74	-111.0	131.2	177.1	124.7	52.36	3.382	
2,500.0	2,498.5	2,491.9	2,500.5	6.6	36.6	120.54	-111.9	128.4	181.6	129.2	52.43	3.464	
2,600.0	2,597.2	2,589.8	2,598.3	6.9	36.6	127.99	-112.9	125.7	189.8	137.3	52.50	3.615	
2,700.0	2,695.3	2,687.2	2,695.7	7.2	36.6	134.59	-113.9	123.2	202.3	149.7	52.59	3.847	
2,800.0	2,792.7	2,784.4	2,792.8	7.6	36.6	140.45	-114.9	121.1	219.1	166.4	52.69	4.158	
2,863.2	2,853.9	2,844.8	2,853.3	7.8	36.6	143.73	-115.4	120.0	232.0	179.2	52.75	4.398	
2,900.0	2,889.3	2,879.9	2,888.3	7.9	36.6	145.20	-115.7	119.6	240.1	187.3	52.79	4.549	
3,000.0	2,985.8	2,975.3	2,983.7	8.2	36.7	148.54	-116.5	119.3	263.1	210.2	52.90	4.974	
3,100.0	3,082.2	3,070.3	3,078.7	8.5	36.7	150.93	-117.0	121.0	287.1	234.1	53.02	5.415	
3,200.0	3,178.7	3,170.6	3,179.0	8.9	36.7	152.69	-116.8	124.7	311.3	258.1	53.20	5.851	
3,300.0	3,275.1	3,269.9	3,278.1	9.3	36.7	154.01	-115.4	129.0	334.6	281.2	53.35	6.270	
3,400.0	3,371.6	3,369.3	3,377.4	9.6	36.7	155.09	-113.2	133.7	357.3	303.8	53.51	6.677	
3,500.0	3,468.0	3,465.6	3,473.6	10.0	36.8	156.09	-111.0	137.6	380.0	326.3	53.67	7.080	
3,600.0	3,564.5	3,560.9	3,568.8	10.4	36.8	157.19	-109.4	140.1	403.1	349.3	53.82	7.490	
3,700.0	3,660.9	3,657.2	3,665.1	10.9	36.8	158.33	-108.1	141.5	426.6	372.6	54.00	7.901	
3,800.0	3,757.4	3,748.2	3,756.1	11.3	36.8	159.24	-107.6	143.4	451.0	396.9	54.15	8.329	
3,900.0	3,853.8	3,841.2	3,849.1	11.7	36.9	159.97	-107.9	146.3	476.5	422.2	54.33	8.772	
4,000.0	3,950.3	3,936.1	3,943.8	12.1	36.9	160.60	-108.7	149.6	502.6	448.1	54.52	9.218	
4,100.0	4,046.7	4,026.0	4,033.7	12.6	36.9	161.11	-110.1	153.1	529.4	474.8	54.69	9.681	
4,200.0	4,143.2	4,117.5	4,125.0	13.0	37.0	161.52	-112.5	157.4	557.3	502.5	54.88	10.156	
4,300.0	4,239.6	4,204.2	4,211.7	13.4	37.0	161.96	-115.7	160.5	586.3	531.3	55.03	10.655	
4,400.0	4,336.1	4,316.3	4,323.6	13.9	37.0	162.56	-119.1	163.7	614.6	559.2	55.41	11.093	
4,500.0	4,432.5	4,417.2	4,424.5	14.3	37.1	163.13	-120.7	165.7	641.5	585.8	55.69	11.518	
4,600.0	4,529.0	4,512.3	4,519.6	14.8	37.1	163.68	-121.9	166.8	668.2	612.2	55.95	11.942	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 28 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 797-r.5 MWD												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)			
4,700.0	4,625.4	4,609.7	4,617.0	15.3	37.2	164.23	-123.1	167.6	694.9	638.7	56.24	12.357	
4,800.0	4,721.9	4,707.0	4,714.3	15.7	37.2	164.76	-124.2	168.3	721.5	665.0	56.53	12.763	
4,900.0	4,818.3	4,803.0	4,810.3	16.2	37.2	165.24	-125.2	168.9	748.1	691.3	56.82	13.166	
5,000.0	4,914.8	4,898.4	4,905.7	16.6	37.3	165.67	-126.3	169.7	774.8	717.7	57.12	13.566	
5,074.5	4,986.6	4,970.8	4,978.0	17.0	37.3	165.98	-127.1	170.3	794.7	737.4	57.34	13.860	
5,100.0	5,011.2	4,995.1	5,002.4	17.1	37.3	166.10	-127.4	170.4	801.5	744.1	57.42	13.960	
5,200.0	5,108.0	5,090.1	5,097.4	17.6	37.4	166.52	-128.6	171.1	827.2	769.5	57.72	14.330	
5,300.0	5,205.2	5,189.9	5,197.1	18.0	37.4	166.89	-129.7	172.0	851.1	793.0	58.06	14.660	
5,400.0	5,302.8	5,287.1	5,294.3	18.5	37.5	167.22	-130.6	172.6	873.2	814.9	58.38	14.959	
5,500.0	5,400.8	5,383.0	5,390.2	18.9	37.5	167.51	-131.7	173.2	893.9	835.2	58.69	15.231	
5,600.0	5,499.1	5,481.6	5,488.8	19.4	37.6	167.76	-132.8	173.7	912.9	853.9	59.02	15.469	
5,700.0	5,597.7	5,580.7	5,587.9	19.8	37.6	167.97	-134.0	174.4	930.3	870.9	59.35	15.675	
5,800.0	5,696.6	5,681.5	5,688.7	20.2	37.7	168.17	-134.9	174.8	945.8	886.1	59.69	15.845	
5,900.0	5,795.7	5,779.6	5,786.7	20.6	37.7	168.31	-135.8	175.5	959.5	899.5	60.00	15.991	
6,000.0	5,895.1	5,879.8	5,887.0	21.0	37.8	168.43	-136.8	176.2	971.6	911.3	60.33	16.106	
6,100.0	5,994.6	5,981.9	5,989.1	21.4	37.9	168.55	-137.5	176.5	981.8	921.1	60.66	16.186	
6,200.0	6,094.3	6,077.8	6,085.0	21.8	37.9	168.63	-138.1	177.0	990.2	929.3	60.94	16.249	
6,300.0	6,194.1	6,175.6	6,182.7	22.2	38.0	168.68	-139.3	177.4	997.5	936.3	61.23	16.291	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 28 1H - ST01 - AWP													Offset Site Error: 0.0 usft
Survey Program: 797-r.5 MWD, 8616-r.5 MWD													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		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	
0.0	0.0	0.0	9.5	0.0	0.0	132.90	-115.7	124.6	170.3				
100.0	100.0	91.1	100.6	0.8	4.1	132.83	-115.5	124.6	169.9	163.2	6.69	25.398	
200.0	200.0	191.7	201.2	1.4	8.7	132.59	-114.6	124.7	169.4	156.2	13.14	12.894	
300.0	300.0	292.3	301.8	1.9	13.3	132.18	-113.1	124.8	168.5	148.9	19.54	8.622	
400.0	400.0	392.9	402.4	2.3	17.9	131.60	-111.0	125.0	167.2	141.3	25.93	6.449	
500.0	500.0	493.5	502.9	2.6	22.4	130.84	-108.3	125.3	165.7	133.3	32.32	5.126	
600.0	600.0	594.0	603.3	2.9	27.0	129.88	-105.0	125.7	163.8	125.1	38.71	4.231	
700.0	700.0	694.5	703.7	3.1	31.6	128.71	-101.0	126.1	161.6	116.5	45.08	3.584	
800.0	800.0	794.9	804.1	3.4	36.1	127.32	-96.5	126.5	159.2	107.9	51.30	3.102	
852.7	852.7	843.5	852.7	3.5	36.3	126.62	-94.5	127.2	158.5	107.0	51.46	3.079 CC, ES, SF	
900.0	900.0	888.0	897.1	3.6	36.3	126.04	-93.5	128.6	159.0	107.6	51.47	3.090	
1,000.0	1,000.0	985.8	994.8	3.8	36.3	125.09	-93.0	132.4	161.9	110.4	51.49	3.144	
1,100.0	1,100.0	1,086.0	1,095.0	4.0	36.3	124.44	-93.3	136.0	165.0	113.4	51.55	3.201	
1,200.0	1,200.0	1,186.6	1,195.6	4.2	36.3	124.06	-94.0	139.0	167.8	116.2	51.61	3.252	
1,300.0	1,300.0	1,287.2	1,296.1	4.4	36.4	123.90	-95.0	141.3	170.3	118.6	51.68	3.296	
1,400.0	1,400.0	1,387.9	1,396.8	4.6	36.4	123.93	-96.2	143.0	172.4	120.6	51.76	3.331	
1,500.0	1,500.0	1,488.2	1,497.1	4.7	36.4	124.11	-97.7	144.2	174.2	122.4	51.83	3.361	
1,600.0	1,600.0	1,589.0	1,597.9	4.9	36.4	124.37	-99.1	144.9	175.6	123.7	51.90	3.384	
1,700.0	1,700.0	1,690.0	1,698.9	5.1	36.5	124.75	-100.7	145.1	176.6	124.7	51.97	3.398	
1,800.0	1,800.0	1,791.3	1,800.1	5.2	36.5	125.28	-102.1	144.4	176.9	124.8	52.04	3.399	
1,900.0	1,900.0	1,892.1	1,900.9	5.4	36.5	126.03	-103.9	142.8	176.5	124.4	52.10	3.389	
2,000.0	2,000.0	1,992.7	2,001.4	5.6	36.5	127.00	-105.9	140.5	175.9	123.7	52.16	3.373	
2,100.0	2,100.0	2,092.6	2,101.3	5.7	36.5	98.35	-107.6	138.1	175.3	123.0	52.21	3.357	
2,184.8	2,184.8	2,177.6	2,186.3	5.9	36.5	100.10	-108.9	136.2	175.1	122.9	52.25	3.352	
2,200.0	2,199.9	2,192.8	2,201.5	5.9	36.5	100.47	-109.1	135.9	175.1	122.9	52.26	3.351	
2,300.0	2,299.7	2,293.0	2,301.6	6.2	36.5	103.29	-110.1	133.6	175.5	123.2	52.32	3.354	
2,333.3	2,332.9	2,326.3	2,334.9	6.2	36.5	104.39	-110.4	132.9	175.8	123.5	52.33	3.359	
2,400.0	2,399.3	2,392.6	2,401.2	6.3	36.6	111.74	-111.0	131.2	177.1	124.7	52.36	3.382	
2,500.0	2,498.5	2,491.9	2,500.5	6.6	36.6	120.54	-111.9	128.4	181.6	129.2	52.43	3.464	
2,600.0	2,597.2	2,589.8	2,598.3	6.9	36.6	127.99	-112.9	125.7	189.8	137.3	52.50	3.615	
2,700.0	2,695.3	2,687.2	2,695.7	7.2	36.6	134.59	-113.9	123.2	202.3	149.7	52.59	3.847	
2,800.0	2,792.7	2,784.4	2,792.8	7.6	36.6	140.45	-114.9	121.1	219.1	166.4	52.69	4.158	
2,863.2	2,853.9	2,844.8	2,853.3	7.8	36.6	143.73	-115.4	120.0	232.0	179.2	52.75	4.398	
2,900.0	2,889.3	2,879.9	2,888.3	7.9	36.6	145.20	-115.7	119.6	240.1	187.3	52.79	4.549	
3,000.0	2,985.8	2,975.3	2,983.7	8.2	36.7	148.54	-116.5	119.3	263.1	210.2	52.90	4.974	
3,100.0	3,082.2	3,070.3	3,078.7	8.5	36.7	150.93	-117.0	121.0	287.1	234.1	53.02	5.415	
3,200.0	3,178.7	3,170.6	3,179.0	8.9	36.7	152.69	-116.8	124.7	311.3	258.1	53.20	5.851	
3,300.0	3,275.1	3,269.9	3,278.1	9.3	36.7	154.01	-115.4	129.0	334.6	281.2	53.35	6.270	
3,400.0	3,371.6	3,369.3	3,377.4	9.6	36.7	155.09	-113.2	133.7	357.3	303.8	53.51	6.677	
3,500.0	3,468.0	3,465.6	3,473.6	10.0	36.8	156.09	-111.0	137.6	380.0	326.3	53.67	7.080	
3,600.0	3,564.5	3,560.9	3,568.8	10.4	36.8	157.19	-109.4	140.1	403.1	349.3	53.82	7.490	
3,700.0	3,660.9	3,657.2	3,665.1	10.9	36.8	158.33	-108.1	141.5	426.6	372.6	54.00	7.901	
3,800.0	3,757.4	3,748.2	3,756.1	11.3	36.8	159.24	-107.6	143.4	451.0	396.9	54.15	8.329	
3,900.0	3,853.8	3,841.2	3,849.1	11.7	36.9	159.97	-107.9	146.3	476.5	422.2	54.33	8.772	
4,000.0	3,950.3	3,936.1	3,943.8	12.1	36.9	160.60	-108.7	149.6	502.6	448.1	54.52	9.218	
4,100.0	4,046.7	4,026.0	4,033.7	12.6	36.9	161.11	-110.1	153.1	529.4	474.8	54.69	9.681	
4,200.0	4,143.2	4,117.5	4,125.0	13.0	37.0	161.52	-112.5	157.4	557.3	502.5	54.88	10.156	
4,300.0	4,239.6	4,204.2	4,211.7	13.4	37.0	161.96	-115.7	160.5	586.3	531.3	55.03	10.655	
4,400.0	4,336.1	4,316.3	4,323.6	13.9	37.0	162.56	-119.1	163.7	614.6	559.2	55.41	11.093	
4,500.0	4,432.5	4,417.2	4,424.5	14.3	37.1	163.13	-120.7	165.7	641.5	585.9	55.58	11.541	
4,600.0	4,529.0	4,512.3	4,519.6	14.8	37.1	163.68	-121.9	166.8	668.2	612.3	55.84	11.965	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 28 1H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 797-r.5 MWD, 8616-r.5 MWD												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)			
4,700.0	4,625.4	4,609.7	4,617.0	15.3	37.2	164.23	-123.1	167.6	694.9	638.8	56.13	12.381	
4,800.0	4,721.9	4,707.0	4,714.3	15.7	37.2	164.76	-124.2	168.3	721.5	665.1	56.42	12.788	
4,900.0	4,818.3	4,803.0	4,810.3	16.2	37.2	165.24	-125.2	168.9	748.1	691.4	56.71	13.191	
5,000.0	4,914.8	4,898.4	4,905.7	16.6	37.3	165.67	-126.3	169.7	774.8	717.8	57.01	13.592	
5,074.5	4,986.6	4,970.8	4,978.0	17.0	37.3	165.98	-127.1	170.3	794.7	737.5	57.23	13.886	
5,100.0	5,011.2	4,995.1	5,002.4	17.1	37.3	166.10	-127.4	170.4	801.5	744.2	57.31	13.986	
5,200.0	5,108.0	5,090.1	5,097.4	17.6	37.4	166.52	-128.6	171.1	827.2	769.6	57.61	14.357	
5,300.0	5,205.2	5,189.9	5,197.1	18.0	37.4	166.89	-129.7	172.0	851.1	793.1	57.95	14.687	
5,400.0	5,302.8	5,287.1	5,294.3	18.5	37.5	167.22	-130.6	172.6	873.2	815.0	58.27	14.987	
5,500.0	5,400.8	5,383.0	5,390.2	18.9	37.5	167.51	-131.7	173.2	893.9	835.3	58.58	15.260	
5,600.0	5,499.1	5,481.6	5,488.8	19.4	37.6	167.76	-132.8	173.7	912.9	854.0	58.91	15.497	
5,700.0	5,597.7	5,580.7	5,587.9	19.8	37.6	167.97	-134.0	174.4	930.3	871.1	59.24	15.704	
5,800.0	5,696.6	5,681.5	5,688.7	20.2	37.7	168.17	-134.9	174.8	945.8	886.2	59.58	15.874	
5,900.0	5,795.7	5,779.6	5,786.7	20.6	37.7	168.31	-135.8	175.5	959.5	899.6	59.89	16.020	
6,000.0	5,895.1	5,879.8	5,887.0	21.0	37.8	168.43	-136.8	176.2	971.6	911.4	60.22	16.135	
6,100.0	5,994.6	5,981.9	5,989.1	21.4	37.9	168.55	-137.5	176.5	981.8	921.3	60.55	16.216	
6,200.0	6,094.3	6,077.8	6,085.0	21.8	37.9	168.63	-138.1	177.0	990.2	929.4	60.83	16.278	
6,300.0	6,194.1	6,175.6	6,182.7	22.2	38.0	168.68	-139.3	177.4	997.5	936.4	61.12	16.320	

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 711H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3170.5usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3170.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 711H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB @ 3170.5usft

Offset Depths are relative to Offset Datum

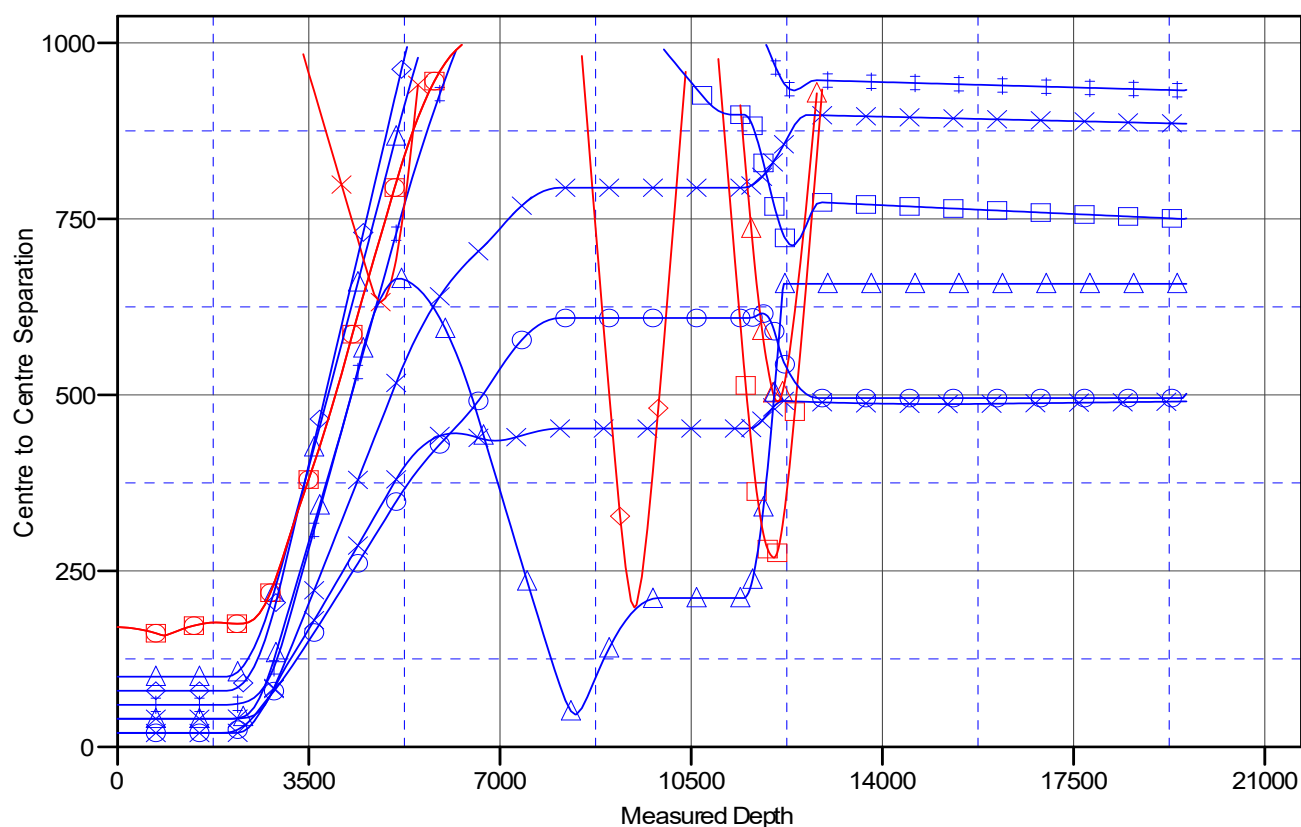
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 711H

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

Grid Convergence at Surface is: 0.35°

Ladder Plot



LEGEND

_ZIA HILLS UNIT 2832 WC 710H OWB, PWP0 V0 _ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0 - RED HILLS WEST 21' FEDERAL COM 1H, OWB, AWP V0 - RED HILLS WEST 21 W1AP FEDERAL COM 002H, OWB, AWP V0 _ZIA HILLS UNIT 2832 WC 709H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 802H OWB, PWP0 V0 - PAYNE FEDERAL 1, PA, OWB, AWP V0 _ZIA HILLS UNIT 2832 WC 803H OWB, PWP0 V0 _ZIA HILLS UNIT 2832 WC 707H OWB, PWP0 V0 - RED HILLS WEST 21 W0AP FEDERAL COM 003H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 712H OWB, PWP0 V0 - WILDER FEDERAL 28 1H, OWB, AWP V0 - WILDER FEDERAL 28 1H, ST0, AWP V0 - BATTLE AXE 27 FEDERAL COM 17H - JC, Original Hole, Staking Design 1 V0 - BATTLE AXE 27 FEDERAL COM 18H - JC, Original Hole, Staking Design 1 V0
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CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company: DELAWARE BASIN EAST
Project: ZIA HILLS UNIT AREA
Reference Site: ZIA HILLS UNIT 2832 PROJECT
Site Error: 0.0 usft
Reference Well: _ZIA HILLS UNIT 2832 WC 711H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: PWP0

Local Co-ordinate Reference: Well _ZIA HILLS UNIT 2832 WC 711H
TVD Reference: KB @ 3170.5usft
MD Reference: KB @ 3170.5usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Reference Depths are relative to KB @ 3170.5usft

Offset Depths are relative to Offset Datum

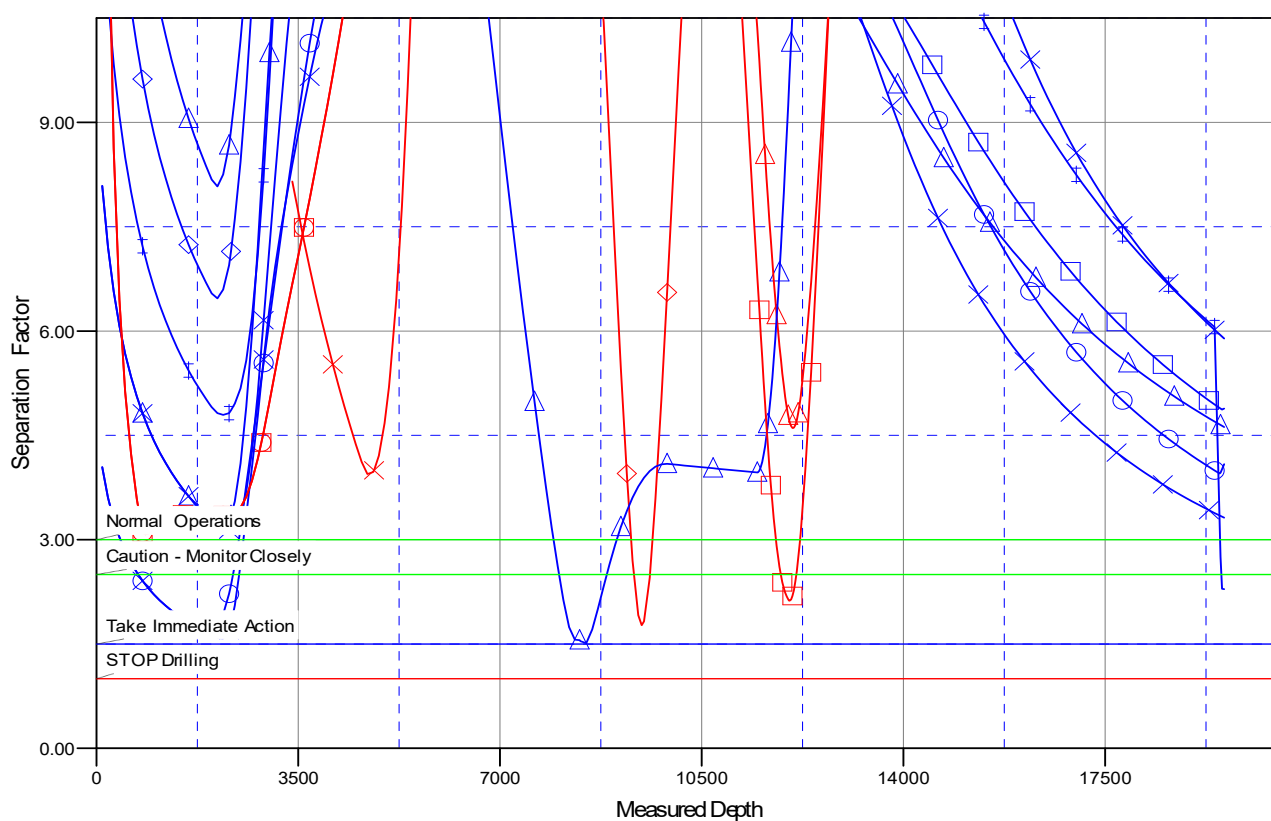
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 711H

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

Grid Convergence at Surface is: 0.35°

Separation Factor Plot



LEGEND

* _ZIA HILLS UNIT 2832 WC 710H OWB, PWP0 V0
 * _ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0
 * RED HILLS WEST 21 FEDERAL COM 1H, OWB, AWP V0
 * RED HILLS WEST 21 W1AP FEDERAL COM 002H, OWB, AWP V0
 * _ZIA HILLS UNIT 2832 WC 709H OWB, PWP0 V0

* _ZIA HILLS UNIT 2832 WC 802H OWB, PWP0 V0
 * PAYNE FEDERAL 1, PA, OWB, AWP V0
 * _ZIA HILLS UNIT 2832 WC 803H OWB, PWP0 V0
 * _ZIA HILLS UNIT 2832 WC 707H OWB, PWP0 V0
 * RED HILLS WEST 21 W0AP FEDERAL COM 003H, OWB, AWP V0

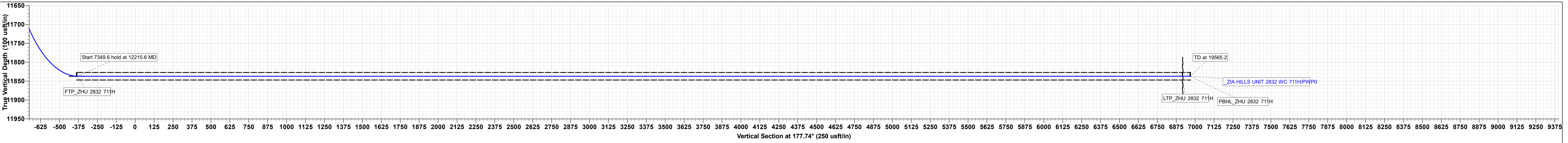
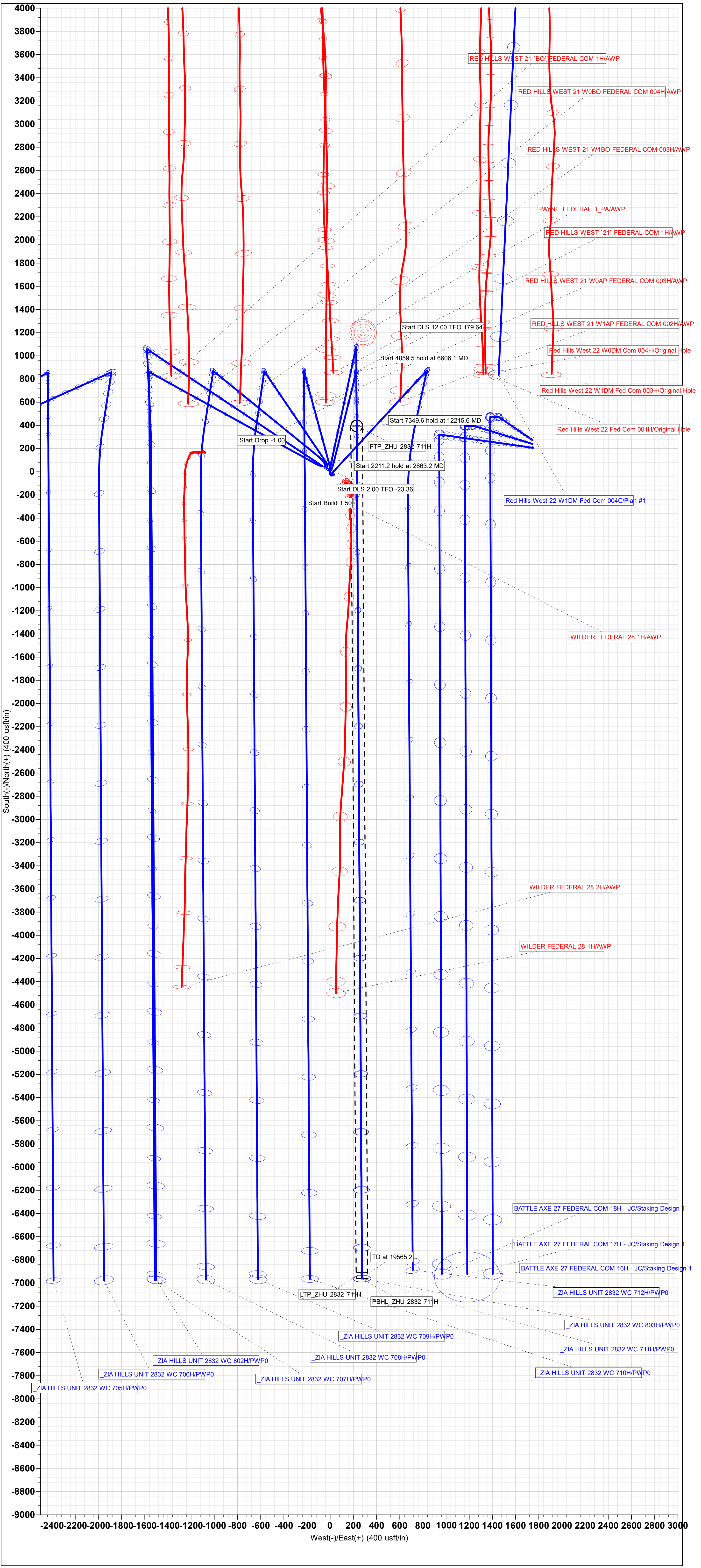
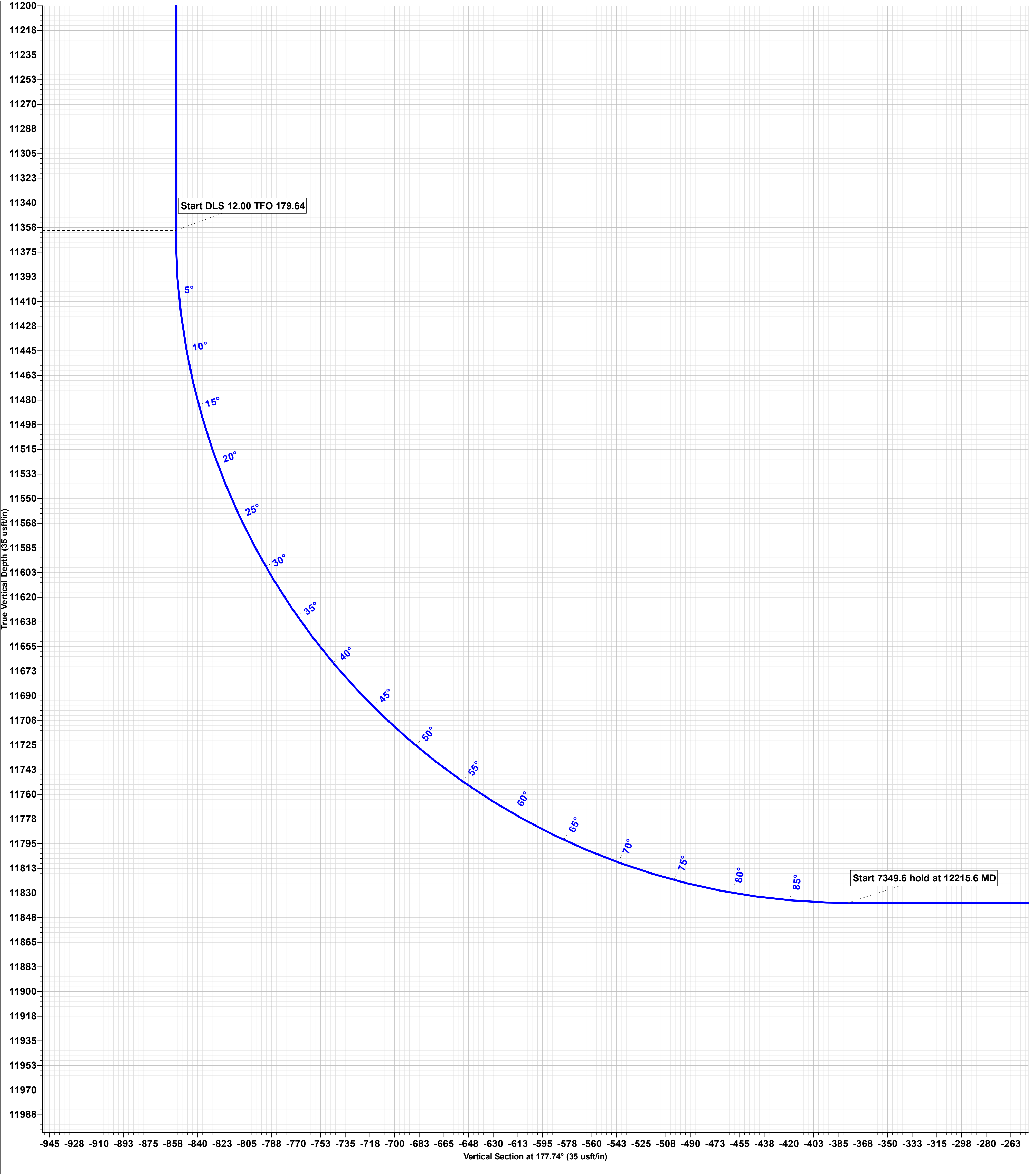
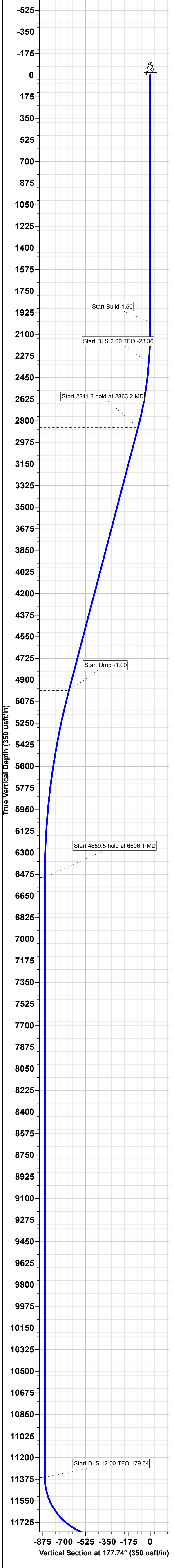
* _ZIA HILLS UNIT 2832 WC 712H OWB, PWP0 V0
 * WILDER FEDERAL 28 1H, OWB, AWP V0
 * WILDER FEDERAL 28 1H, ST0, AWP V0
 * BATTLE AXE 27 FEDERAL COM 17H - JC, Original Hole, Staking Design 1 V0
 * BATTLE AXE 27 FEDERAL COM 18H - JC, Original Hole, Staking Design 1 V0

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 711H
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	
2333.3	5.00	30.00	2332.9	12.6	7.3	1.50	30.00	-12.3	
2863.2	15.32	13.98	2863.9	100.8	35.8	2.00	-23.36	-99.3	
5074.5	15.32	13.98	4986.6	667.5	176.9	0.00	0.00	-660.0	
6606.1	0.00	0.00	6500.0	865.0	226.0	1.00	180.00	-855.4	
11465.6	0.00	0.00	11359.5	865.0	226.0	0.00	0.00	-855.4	
12215.6	90.00	179.64	11837.0	387.5	229.0	12.00	179.64	-378.2	
19565.2	90.00	179.64	11837.0	-6961.9	274.7	0.00	0.00	6967.3	



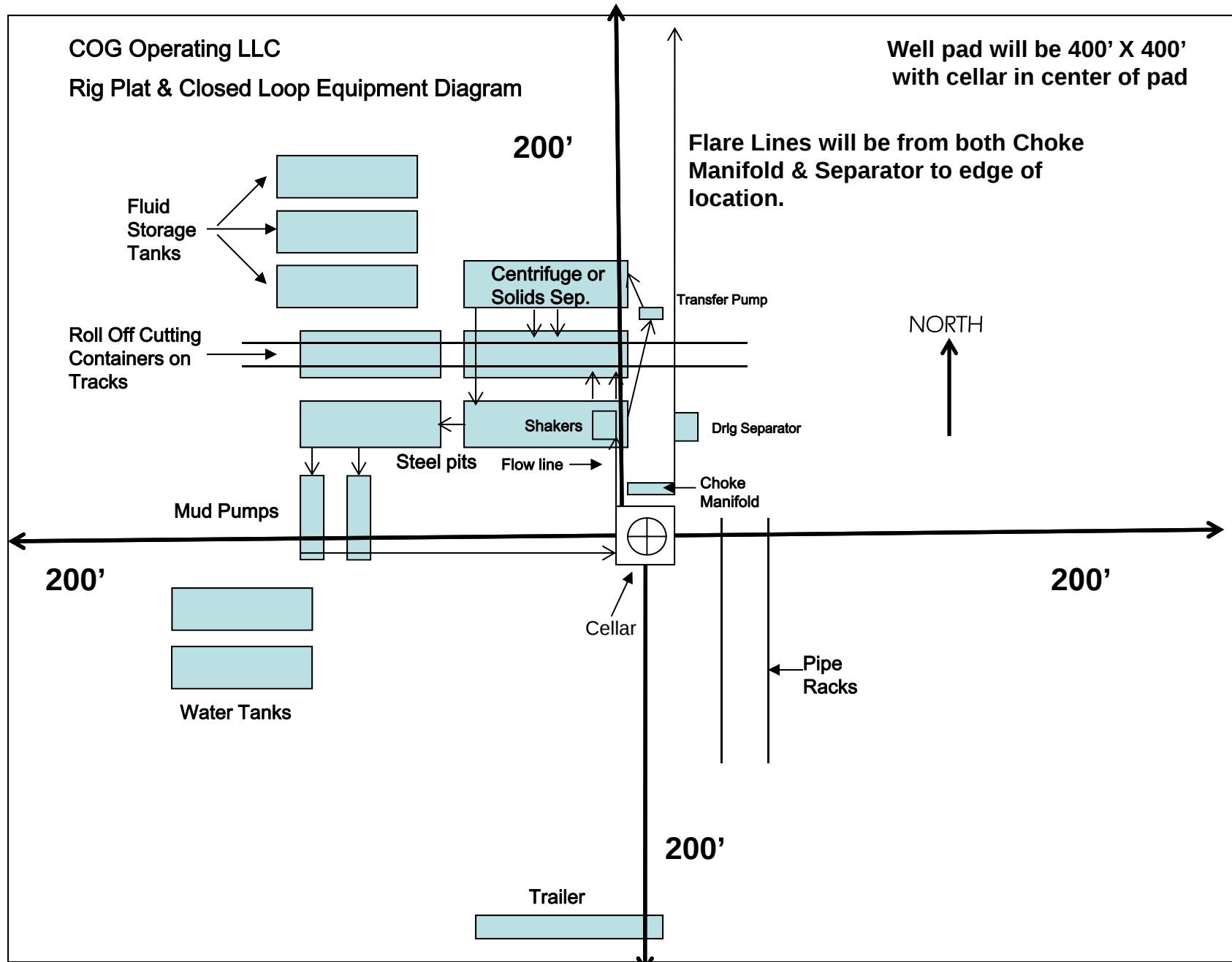


Exhibit 1

"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

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 01/28/2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2832 WC 707H	30-025-	A-28-26S-32E	447 FNL & 1024 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 708H	30-025-	A-28-26S-32E	458 FNL & 1008 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 709H	30-025-	A-28-26S-32E	470 FNL & 991 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 710H	30-025-	A-28-26S-32E	482 FNL & 975 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 711H	30-025-	A-28-26S-32E	494 FNL & 959 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 712H	30-025-	A-28-26S-32E	505 FNL & 943 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 802H	30-025-	A-28-26S-32E	435 FNL & 1040 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2832 WC 803H	30-025-	A-28-26S-32E	517 FNL & 927 FEL	± 742	± 1956	± 1707

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2832 WC	Pending	± 2/1/2026	± 25 days from spud	TBD	TBD	TBD
707H, 708H, 709H, 710H, 711H, 712H, 802H, 803H						

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

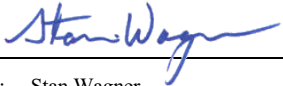
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 01/30/2025
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

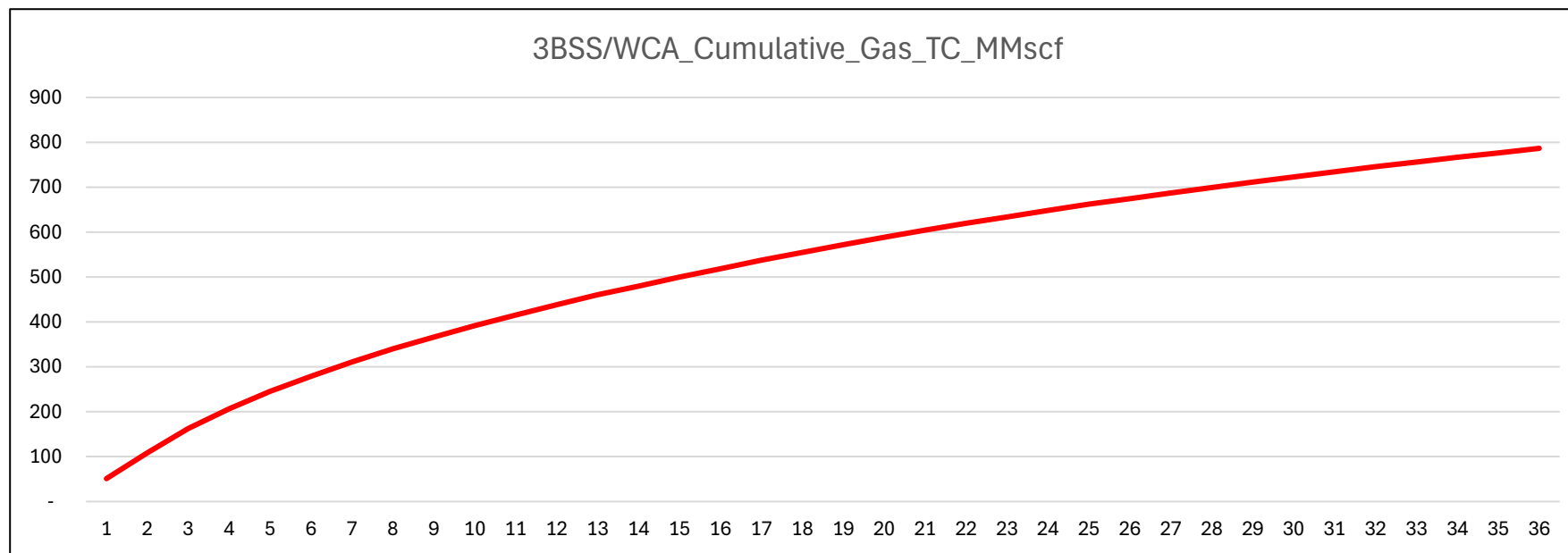
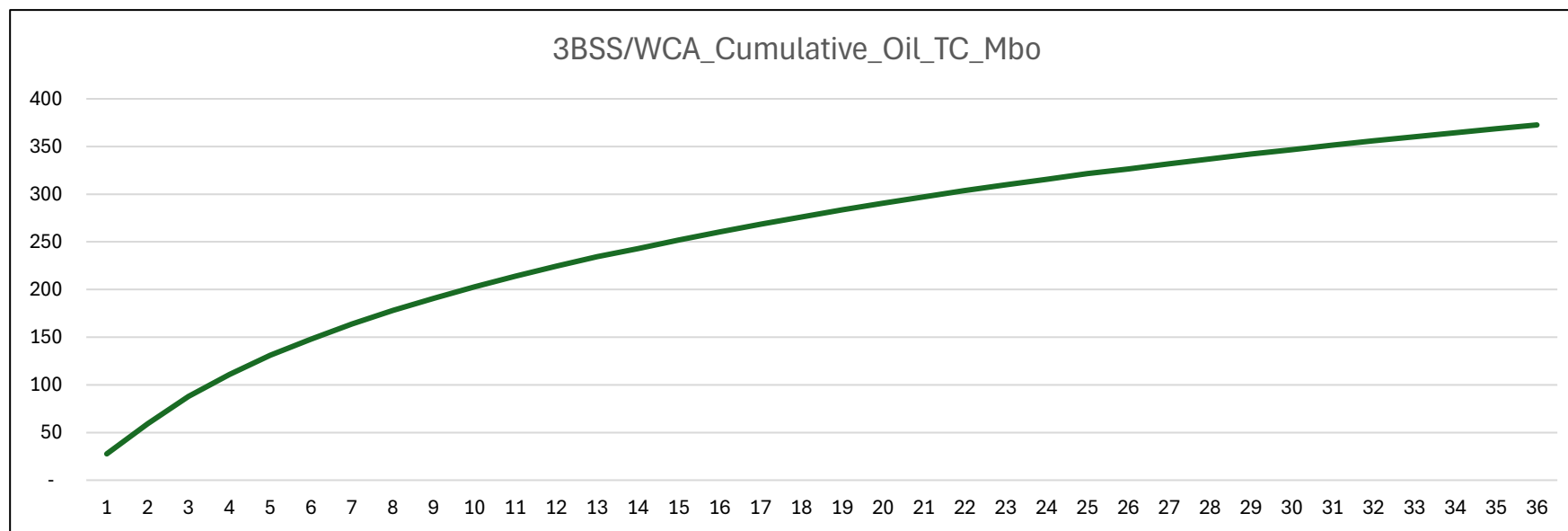
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

Waste Minimization Plan

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

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

Anticipated Production Decline Curve



		TVD	TMD
Zia Hills Unit 2832 WC 701H	SHL: 366' FNL & 596' FWL UL D 28-26S-32E	11758 ft.	19318 ft.
	BHL: 50' FSL & 177' FWL Lot 4 33-26S-32E		
Zia Hills Unit 2832 WC 702H	SHL: 366' FNL & 616' FWL UL D 28-26S-32E	11974 ft.	19659 ft.
	BHL: 50' FSL & 615' FWL Lot 4 33-26S-32E		
Zia Hills Unit 2832 WC 703H	SHL: 366' FNL & 636' FWL UL D 28-26S-32E	11772 ft.	19486 ft.
	BHL: 50' FSL & 1065' FWL Lot 4 33-26S-32E		
Zia Hills Unit 2832 WC 704H	SHL: 366' FNL & 656' FWL UL D 28-26S-32E	11989 ft.	19746 ft.
	BHL: 50' FSL & 1505' FWL Lot 3 33-26S-32E		
Zia Hills Unit 2832 WC 705H	SHL: 366' FNL & 676' FWL UL D 28-26S-32E	11788 ft.	19602 ft.
	BHL: 50' FSL & 1955' FWL Lot 3 33-26S-32E		
Zia Hills Unit 2832 WC 706H	SHL: 366' FNL & 696' FWL UL D 28-26S-32E	12010 ft.	19888 ft.
	BHL: 50' FSL & 2390' FWL Lot 3 33-26S-32E		
Zia Hills Unit 2832 WC 707H	SHL: 447' FNL & 1024' FEL UL A 28-26S-32E	11787 ft.	19650 ft.
	BHL: 50' FSL & 2505' FEL Lot 2 33-26S-32E		
Zia Hills Unit 2832 WC 708H	SHL: 458' FNL & 1008' FEL UL A 28-26S-32E	12011 ft.	19813 ft.
	BHL: 50' FSL & 2065' FEL Lot 2 33-26S-32E		
Zia Hills Unit 2832 WC 709H	SHL: 470' FNL & 991' FEL UL A 28-26S-32E	11814 ft.	19545 ft.
	BHL: 50' FSL & 1615' FEL Lot 2 33-26S-32E		
Zia Hills Unit 2832 WC 710H	SHL: 482' FNL & 975' FEL UL A 28-26S-32E	12033 ft.	19742 ft.
	BHL: 50' FSL & 1180' FEL Lot 1 33-26S-32E		
Zia Hills Unit 2832 WC 711H	SHL: 494' FNL & 959' FEL UL A 28-26S-32E	11837 ft.	19565 ft.
	BHL: 50' FSL & 730' FEL Lot 1 33-26S-32E		
Zia Hills Unit 2832 WC 712H	SHL: 505' FNL & 943' FEL UL A 28-26S-32E	12066 ft.	19773 ft.
	BHL: 50' FSL & 290' FEL Lot 1 33-26S-32E		
Zia Hills Unit 2832 WC 801H	SHL: 366' FNL & 716' FWL UL D 28-26S-32E	12450 ft.	20369 ft.
	BHL: 50' FSL & 1066' FWL Lot 4 33-26S-32E		
Zia Hills Unit 2832 WC 802H	SHL: 435' FNL & 1040' FEL UL A 28-26S-32E	12460 ft.	20514 ft.
	BHL: 50' FSL & 2505' FEL Lot 2 33-26S-32E		
Zia Hills Unit 2832 WC 803H	SHL: 517' FNL & 927' FEL UL A 28-26S-32E	12495 ft.	20467 ft.
	BHL: 50' FSL & 730' FEL Lot 1 33-26S-32E		

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-	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code	Property Name ZIA HILLS UNIT 2832 WC	Well Number 711H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,140.50'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	28	26S	32E		494' FNL	959' FEL	32.019505°	-103.674460°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 1	33	26S	32E		50' FSL	730' FEL	32.000363°	-103.673752°	LEA

Dedicated Acres 898.92	Infill or Defining Well Infill	Defining Well API Pending 710H	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	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	21	26S	32E		370' FSL	728' FEL	32.021879°	-103.673714°	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	28	26S	32E		100' FNL	730' FEL	32.020588°	-103.673718°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 1	33	26S	32E		100' FSL	730' FEL	32.000501°	-103.673752°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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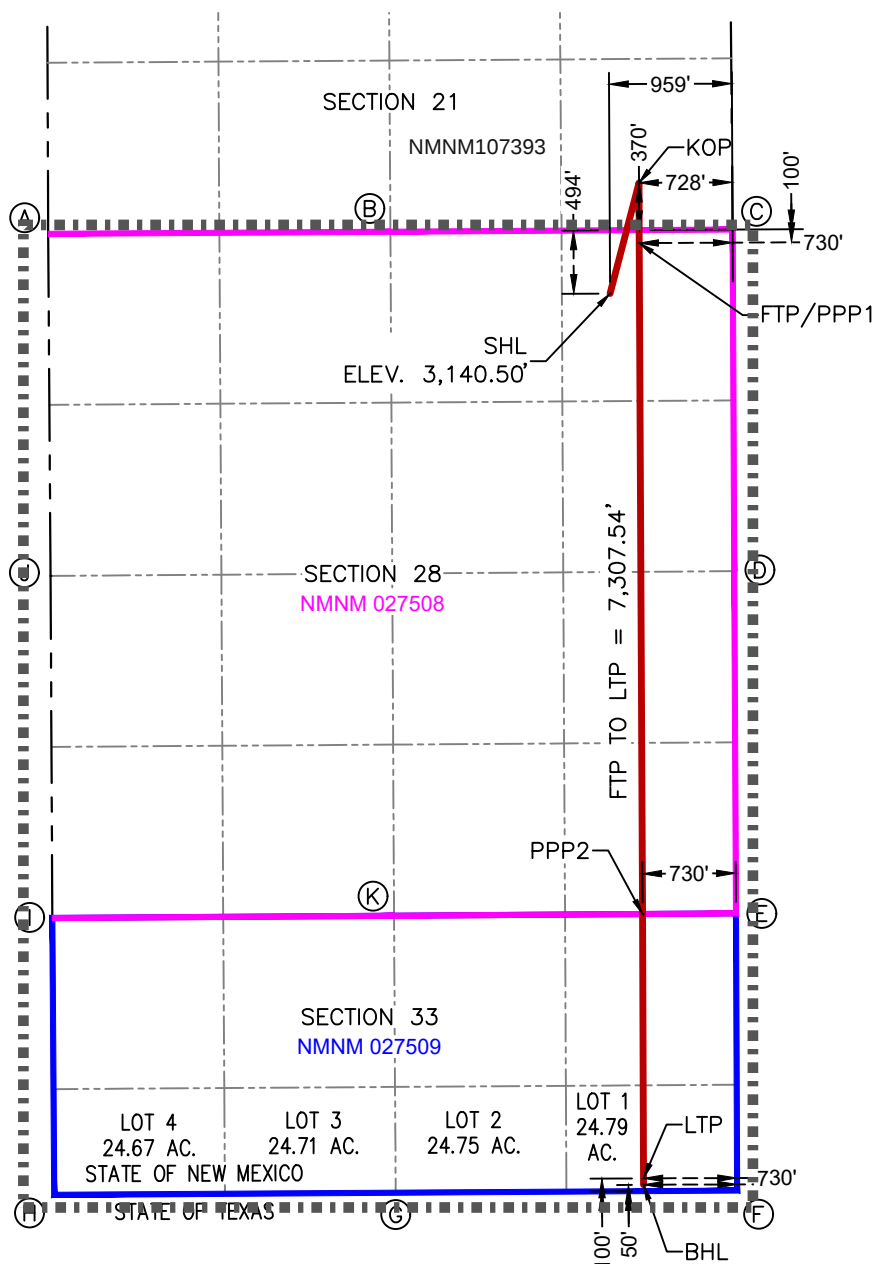
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.	
Signature 	Date 5/12/25	 Date: 1/30/2025	
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
494' FNL & 959' FEL
ELEV.=3,140.50'

NAD 83 X = 745,539.18'
NAD 83 Y = 371,457.49'
NAD 83 LAT = 32.019505°
NAD 83 LONG = -103.674460°

KICK-OFF POINT
370' FSL & 728' FEL
NAD 83 X = 745,765.12'
NAD 83 Y = 372,322.48'
NAD 83 LAT = 32.021879°
NAD 83 LONG = -103.673714°

FIRST TAKE POINT & PENETRATION POINT 1
100' FNL & 730' FEL
NAD 83 X = 745,766.73'
NAD 83 Y = 371,852.76'
NAD 83 LAT = 32.020588°
NAD 83 LONG = -103.673718°

PENETRATION POINT 2
0' FNL & 730' FEL
NAD 83 X = 745,793.30'
NAD 83 Y = 366,610.39'
NAD 83 LAT = 32.006177°
NAD 83 LONG = -103.673735°

LAST TAKE POINT
100' FSL & 730' FEL
NAD 83 X = 745,800.81'
NAD 83 Y = 364,545.30'
NAD 83 LAT = 32.000501°
NAD 83 LONG = -103.673752°

BOTTOM HOLE LOCATION
50' FSL & 730' FEL
NAD 83 X = 745,800.99'
NAD 83 Y = 364,495.30'
NAD 83 LAT = 32.000363°
NAD 83 LONG = -103.673752°

**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'		

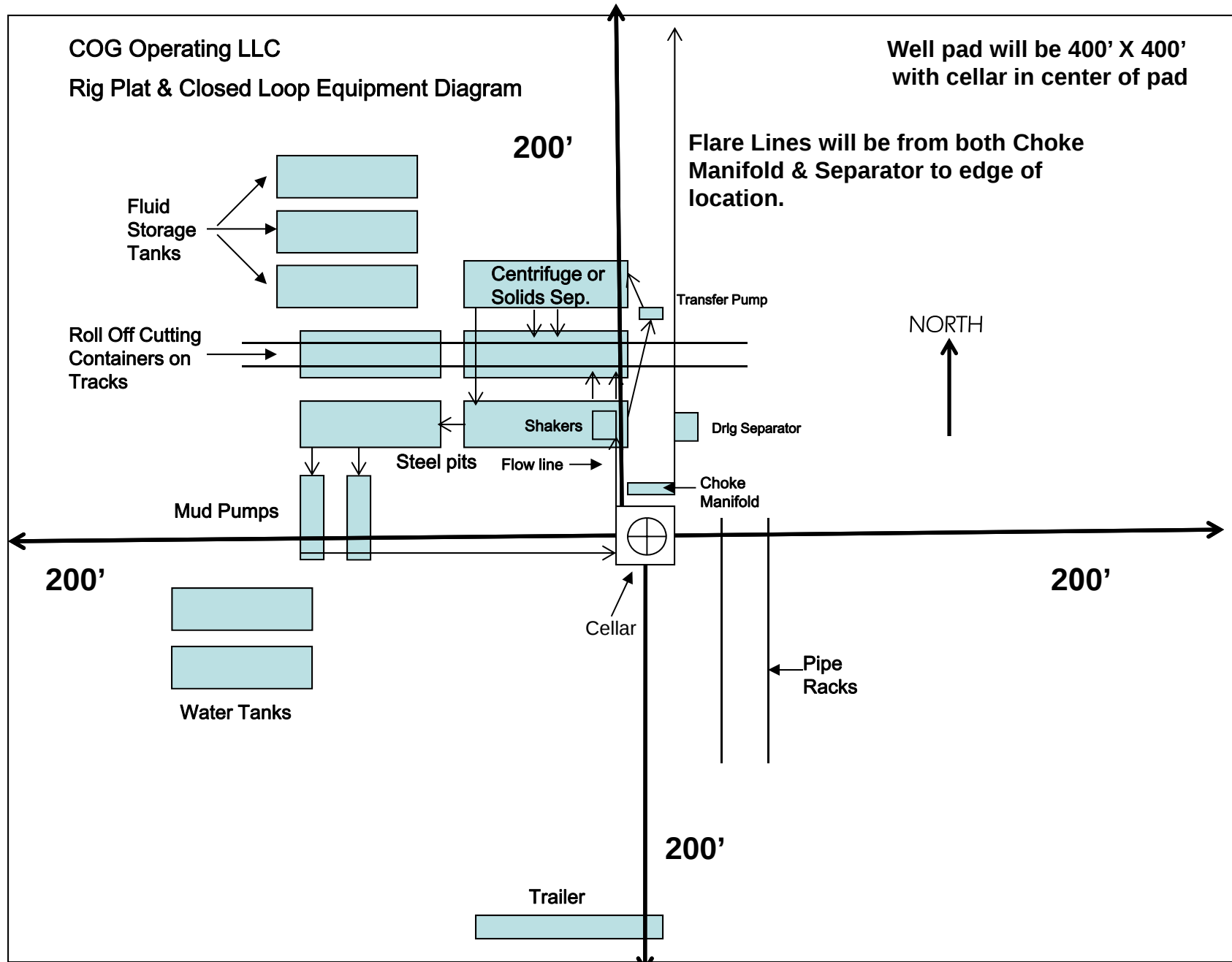


Exhibit 1

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

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Section 1 – Plan Description Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 01/28/2025

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

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2832 WC	Pending	± 2/1/2026	± 25 days from spud	TBD	TBD	TBD
707H, 708H, 709H, 710H, 711H, 712H, 802H, 803H						

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

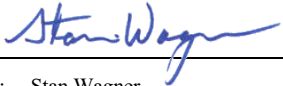
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 01/30/2025
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

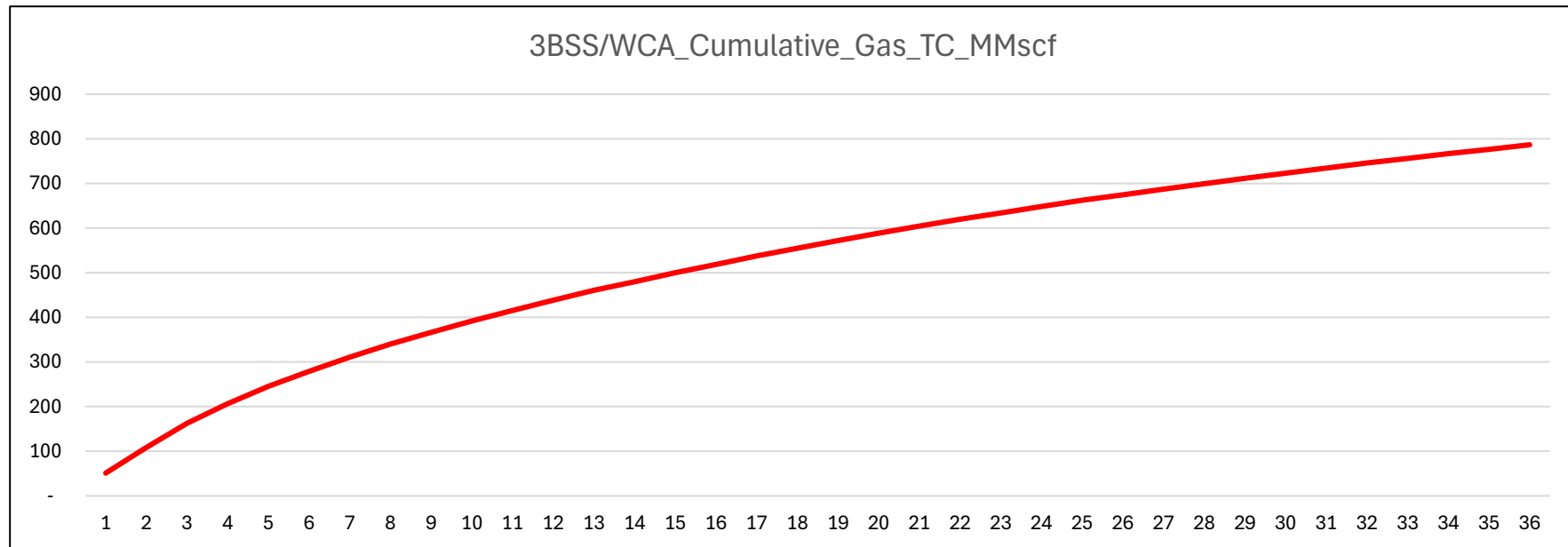
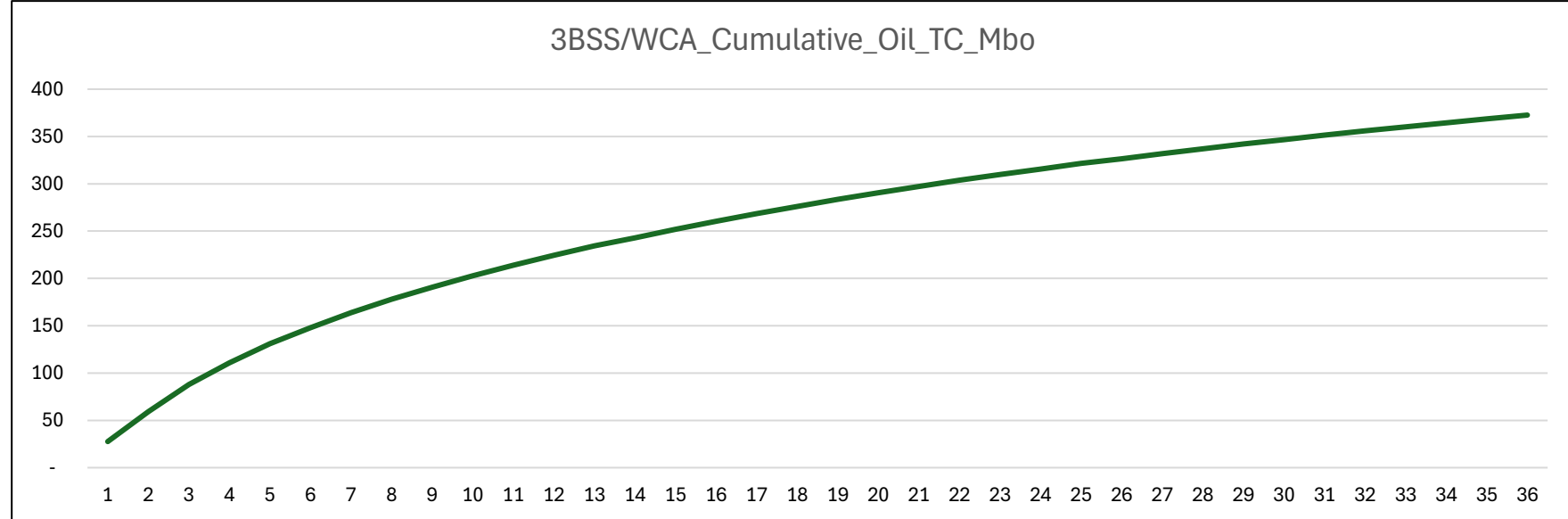
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

Waste Minimization Plan

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

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

Anticipated Production Decline Curve



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2832 WC 711H
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 **820 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8** inch intermediate casing shall be set at approximately **4418 feet per BLM Geologist. Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 3. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** inch intermediate liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.

- 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 520274

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520274
	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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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

State of New Mexico
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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 520274

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520274
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/27/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/27/2025
jeffrey.harrison	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	12/19/2025
jeffrey.harrison	Any string of casing or liner that is not circulated to surface must have a minimum of 200' of cement tie-back into the previous string of casing.	12/19/2025
jeffrey.harrison	Administrative order required for non-standard spacing unit prior to production.	12/19/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/19/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/19/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/19/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/19/2025