

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. 30-025-55673
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)



Additional Operator Remarks

Location of Well

0. SHL: NENE / 517 FNL / 927 FEL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.01944 / LONG: -103.674356 (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: 12495 feet, MD: 13109 feet)

BHL: LOT 1 / 50 FSL / 730 FEL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.000363 / LONG: -103.673752 (TVD: 12495 feet, MD: 20466 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- 55673	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 338328	Property Name ZIA HILLS UNIT 2832 WC	Well Number 803H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,140.59'
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 517' FNL	Ft. from E/W 927' FEL	Latitude 32.019440°	Longitude -103.674356°	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 803H	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 581' FSL	Ft. from E/W 728' FEL	Latitude 32.022461°	Longitude -103.673715°	County LEA
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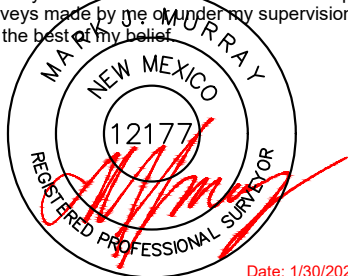
First Take Point (FTP)

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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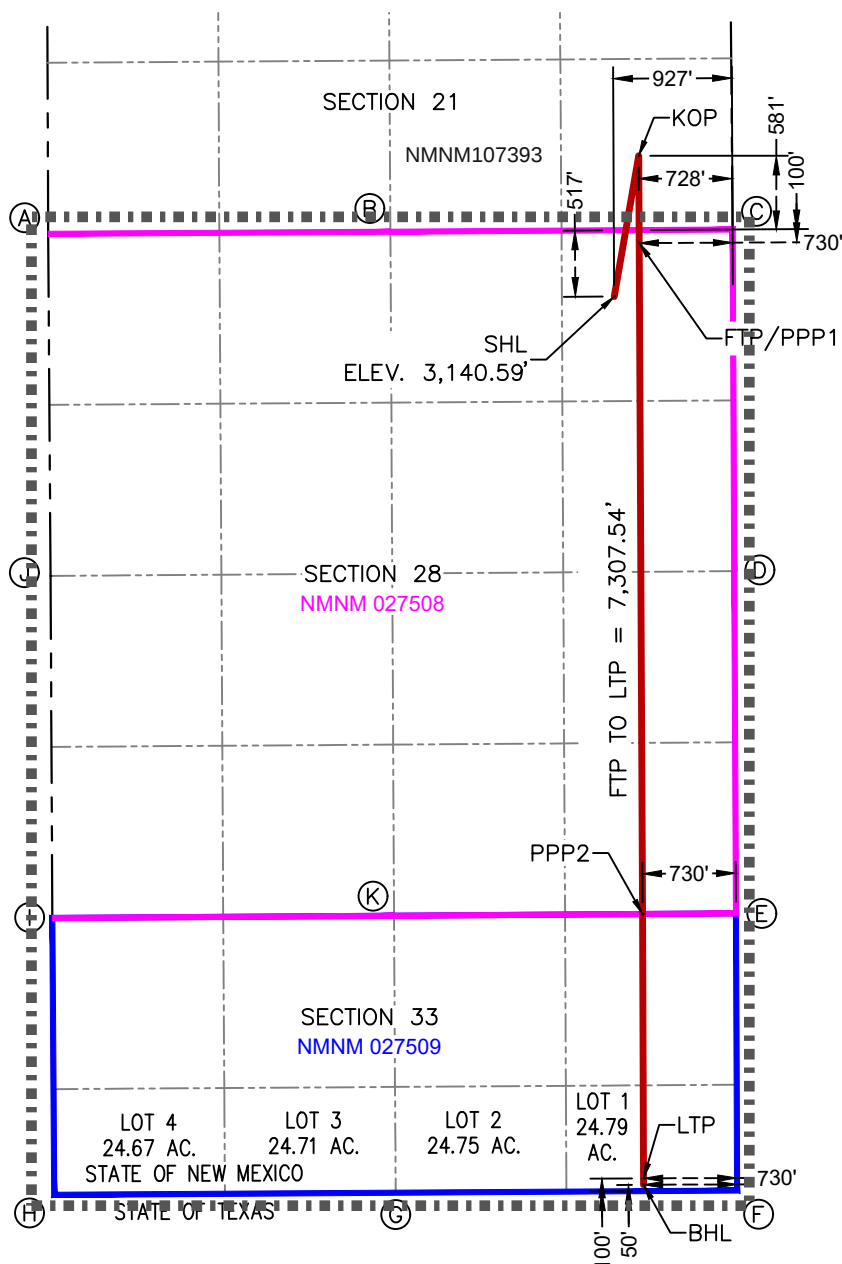
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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
517' FNL & 927' FEL
ELEV.=3,140.59'

NAD 83 X = 745,571.61'
NAD 83 Y = 371,434.08'
NAD 83 LAT = 32.019440°
NAD 83 LONG = -103.674356°

KICK-OFF POINT
581' FSL & 728' FEL
NAD 83 X = 745,763.57'
NAD 83 Y = 372,534.11'
NAD 83 LAT = 32.022461°
NAD 83 LONG = -103.673715°

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°

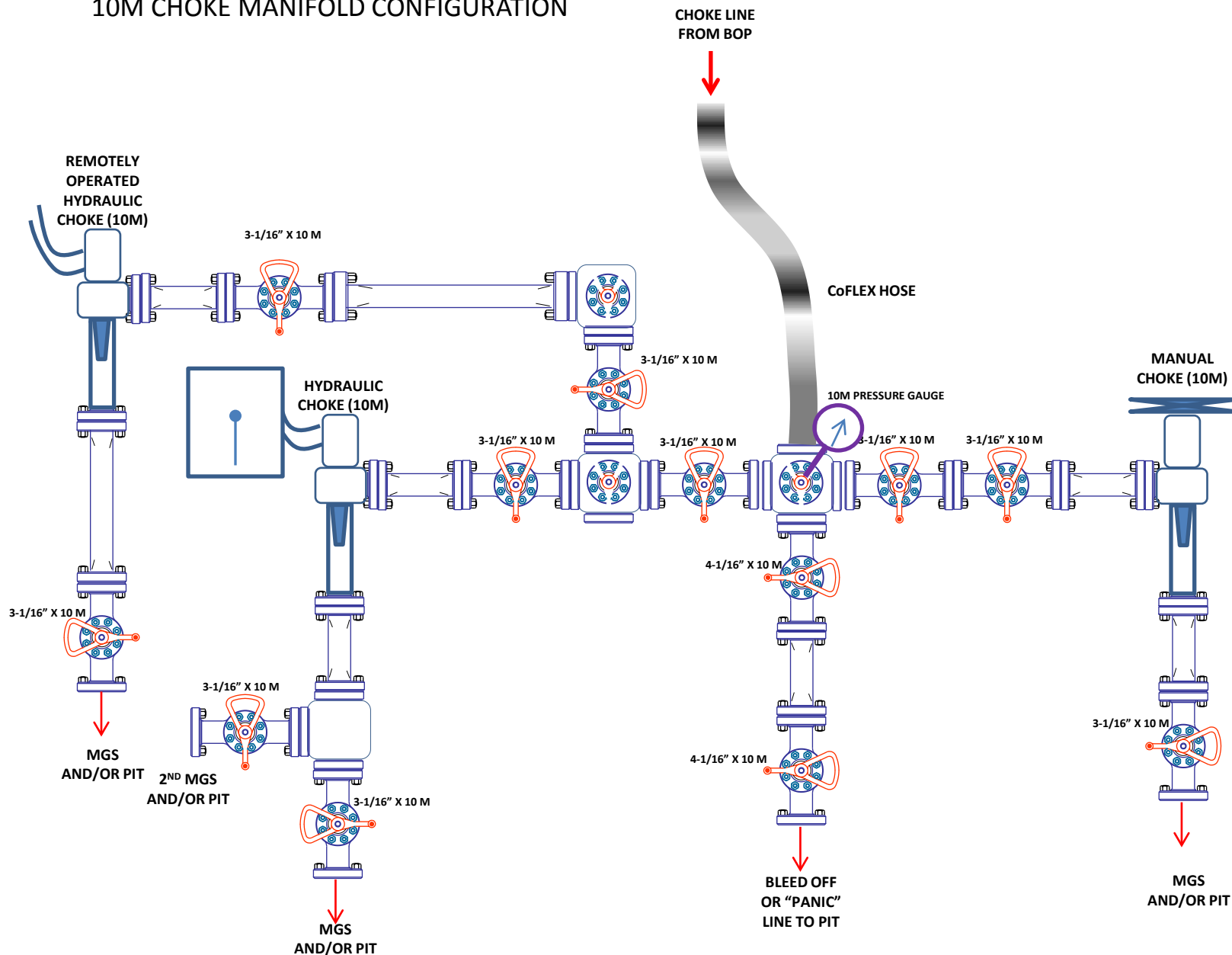
LAST TAKE POINT
100' FSL & 730' FEL
NAD 83 X = 745,800.81'
NAD 83 Y = 364,545.30'
NAD 83 LAT = 32.000501°
NAD 83 LONG = -103.673752°

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°

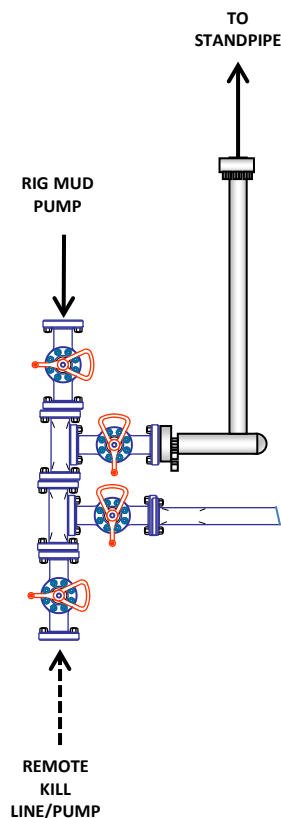
**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

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'		

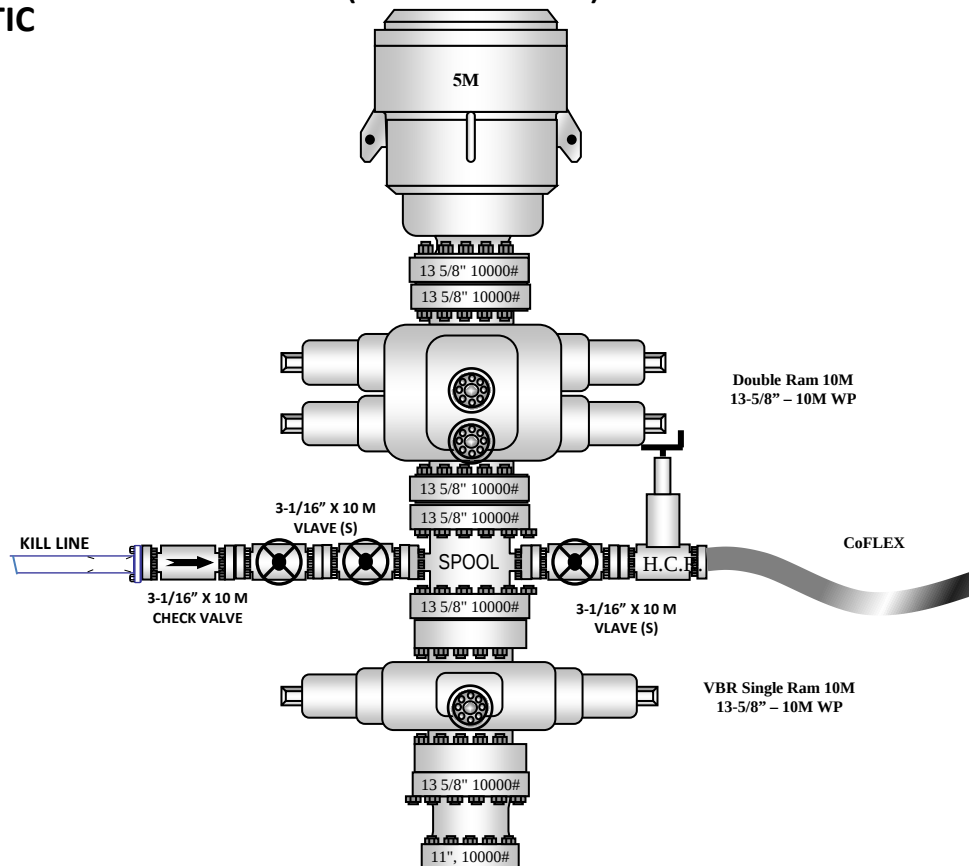
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



ConocoPhillips Company - Zia Hills Unit 2832 WC 803H

1. Geologic Formations

TVD of target	12,495' EOL	Pilot hole depth	NA
MD at TD:	20,467'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	687	Water	
Top of Salt	959	Salt	
Base of Salt	4204	Salt	
Lamar	4426	Salt Water	
Bell Canyon	4442	Salt Water	
Cherry Canyon	5361	Oil/Gas	
Brushy Canyon	6845	Oil/Gas	
Bone Spring	8519	Oil/Gas	
1st Bone Spring Sand	9485	Oil/Gas	
2nd Bone Spring Sand	10159	Oil/Gas	
3rd Bone Spring Sand	11270	Oil/Gas	
Wolfcamp	11648	Oil/Gas	
Wolfcamp A	11858	Oil/Gas	
Wolfcamp B	12186	Target	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	810	13.375"	54.5	J55	BTC	3.05	1.50	19.32	20.59
12.25"	0	4330	9.625"	40	L80-IC	BTC	1.72	1.22	5.29	5.47
8.75"	4130	12000	7.625"	29.7	P110-ICY	W513	1.18	1.47	3.00	1.80
6.75"	0	11800	5.5"	23	P110-CY	BTC	1.76	2.05	2.69	2.69
6.75"	11800	20,467	5.5"	23	P110-CY	W441	1.66	1.93	2.54	2.30
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 803H

	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 803H

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)	300	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	820	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	650	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	4,130'	20%
Production	11,500'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 803H

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 803H

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 803H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8775 psi at 12495' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

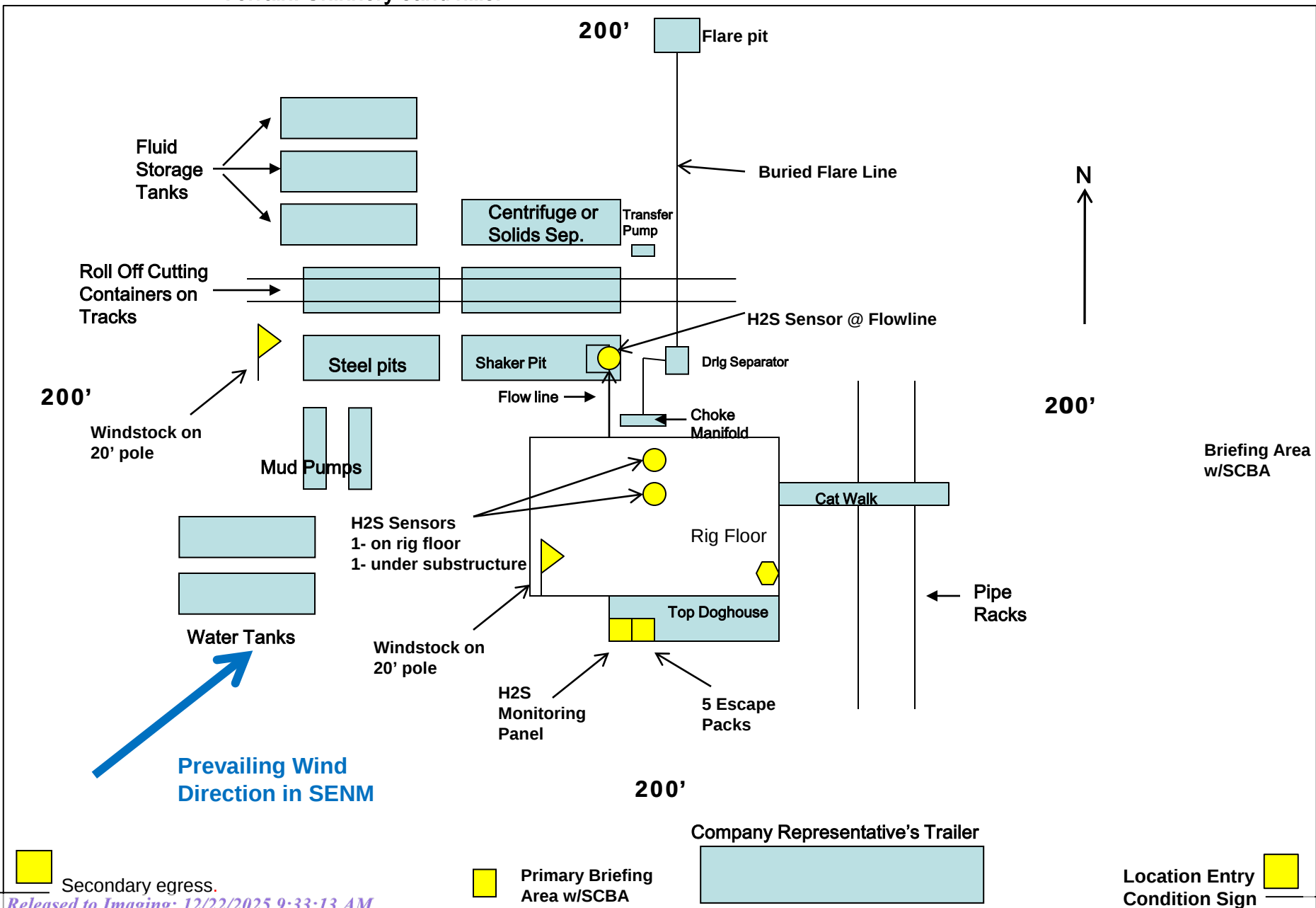
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

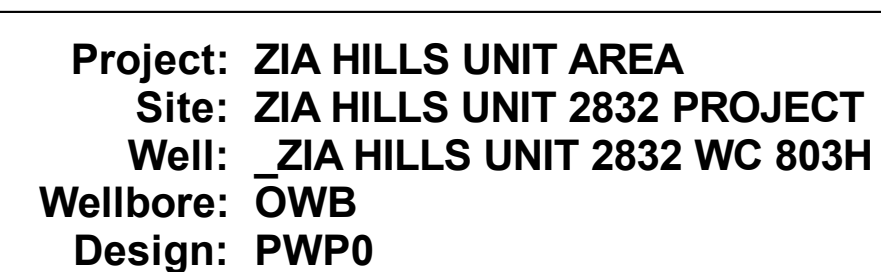
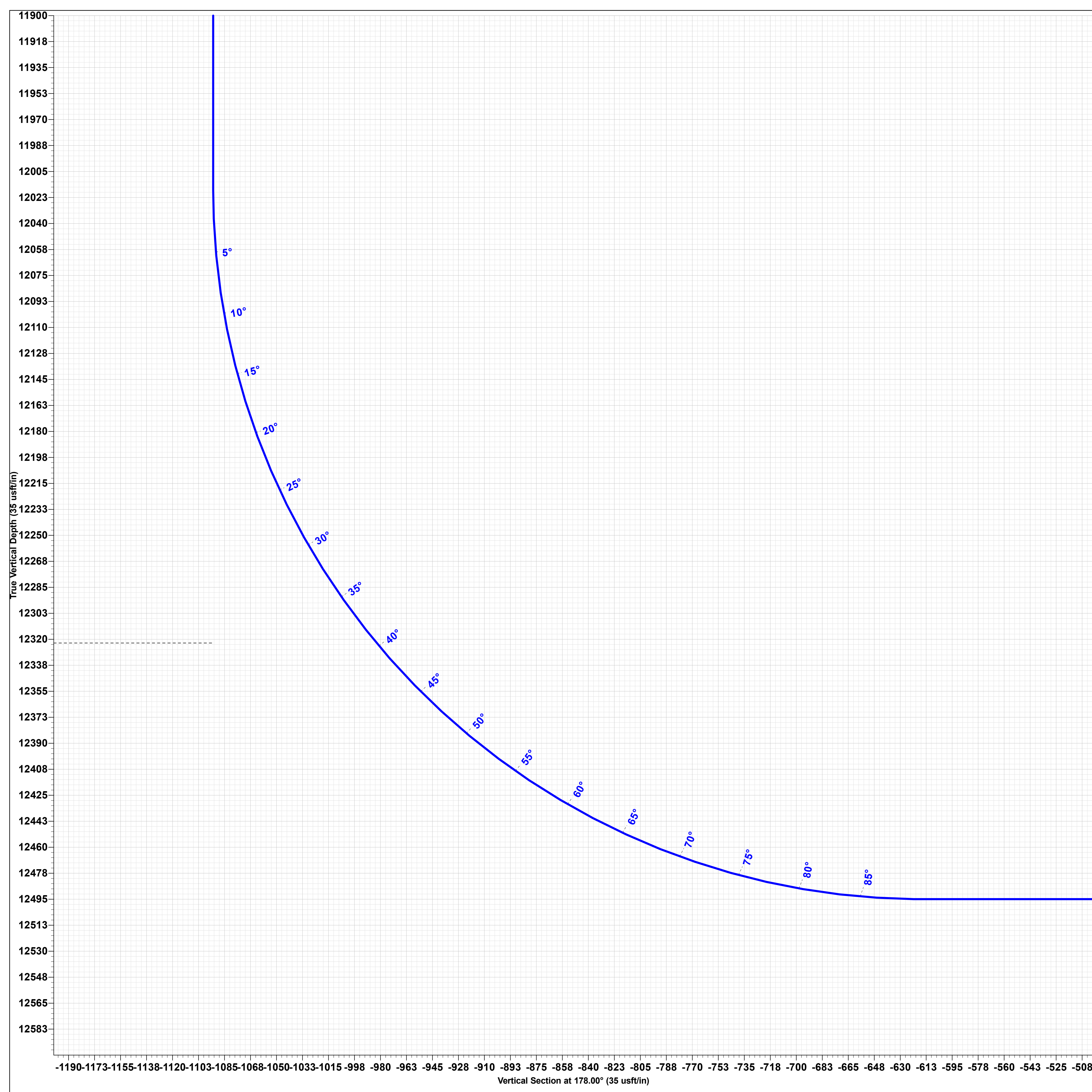
EMERGENCY RESPONSE NUMBERS

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

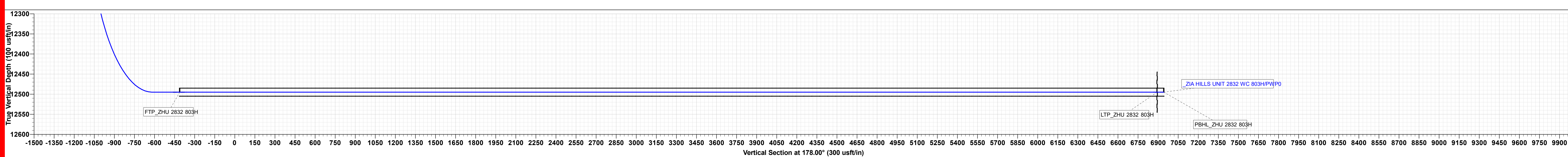
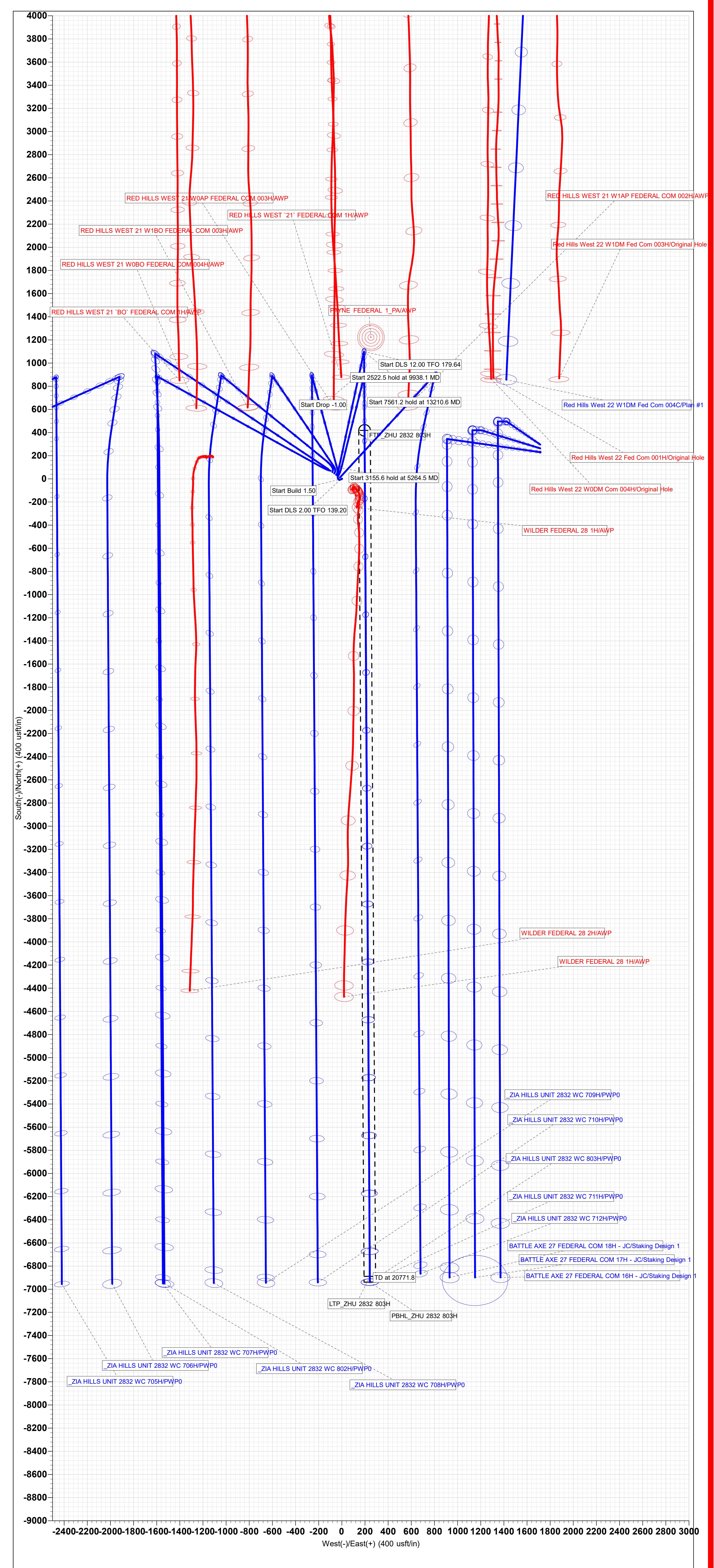
COC Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

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





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
	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0
	4333.3	5.00	245.00	4332.9	-6.1	-13.2	1.50	245.00	5.7
	5264.5	15.18	12.17	5254.1	96.8	-24.3	2.00	139.20	-97.6
	8420.1	15.18	12.17	8299.6	904.6	149.9	0.00	0.00	-898.8
	9938.1	0.00	0.00	9800.0	1100.0	192.0	1.00	180.00	-1092.6
	12155.6	0.00	0.00	12017.5	1100.0	192.0	0.00	0.00	-1092.6
	12905.6	90.00	179.64	12495.0	622.5	195.0	12.00	179.64	-615.4
	20466.8	90.00	179.64	12495.0	-6938.5	242.3	0.00	0.00	6942.7



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 803H

OWB

Plan: PWP0

Standard Planning Report

25 February, 2025

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Company:	DELAWARE BASIN EAST	TVD Reference:	kb @ 3170.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	kb @ 3170.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 803H	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	47,132.15557877

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	178.00

Plan Survey Tool Program	Date	2/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,771.8 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1	rev.5

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,333.3	5.00	245.00	4,332.9	-6.1	-13.2	1.50	1.50	0.00	245.00	
5,264.5	15.18	12.17	5,254.1	96.8	-24.3	2.00	1.09	13.66	139.20	
8,420.1	15.18	12.17	8,299.6	904.6	149.9	0.00	0.00	0.00	0.00	
9,938.1	0.00	0.00	9,800.0	1,100.0	192.0	1.00	-1.00	0.00	180.00	
12,155.6	0.00	0.00	12,017.5	1,100.0	192.0	0.00	0.00	0.00	0.00	
12,905.6	90.00	179.64	12,495.0	622.5	195.0	12.00	12.00	23.95	179.64	
20,466.8	90.00	179.64	12,495.0	-6,938.5	242.3	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 803H
Company:	DELAWARE BASIN EAST	TVD Reference:	kb @ 3170.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	kb @ 3170.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 803H	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	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	1.50	245.00	4,100.0	-0.6	-1.2	0.5	1.50	1.50	0.00
4,200.0	3.00	245.00	4,199.9	-2.2	-4.7	2.0	1.50	1.50	0.00
4,300.0	4.50	245.00	4,299.7	-5.0	-10.7	4.6	1.50	1.50	0.00
4,333.3	5.00	245.00	4,332.9	-6.1	-13.2	5.7	1.50	1.50	0.00
4,400.0	4.08	257.33	4,399.4	-7.9	-18.1	7.3	2.00	-1.37	18.49
4,500.0	3.30	286.36	4,499.2	-7.9	-24.4	7.0	2.00	-0.79	29.03
4,600.0	3.61	319.64	4,599.0	-4.7	-29.2	3.6	2.00	0.31	33.28
4,700.0	4.82	341.71	4,698.7	1.7	-32.5	-2.9	2.00	1.21	22.07
4,800.0	6.43	353.91	4,798.3	11.3	-34.4	-12.5	2.00	1.61	12.20
4,900.0	8.22	1.04	4,897.4	24.0	-34.9	-25.2	2.00	1.79	7.13
5,000.0	10.08	5.59	4,996.2	39.9	-33.9	-41.0	2.00	1.87	4.56
5,100.0	11.99	8.73	5,094.3	58.8	-31.5	-59.9	2.00	1.91	3.13
5,200.0	13.93	11.00	5,191.8	80.9	-27.6	-81.8	2.00	1.93	2.28

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Company:	DELAWARE BASIN EAST	TVD Reference:	kb @ 3170.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	kb @ 3170.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 803H	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)	
5,264.5	15.18	12.17	5,254.1	96.8	-24.3	-97.6	2.00	1.95	1.81	
5,300.0	15.18	12.17	5,288.4	105.9	-22.4	-106.6	0.00	0.00	0.00	
5,400.0	15.18	12.17	5,385.0	131.5	-16.9	-132.0	0.00	0.00	0.00	
5,500.0	15.18	12.17	5,481.5	157.1	-11.3	-157.4	0.00	0.00	0.00	
5,600.0	15.18	12.17	5,578.0	182.7	-5.8	-182.8	0.00	0.00	0.00	
5,700.0	15.18	12.17	5,674.5	208.3	-0.3	-208.2	0.00	0.00	0.00	
5,800.0	15.18	12.17	5,771.0	233.9	5.2	-233.6	0.00	0.00	0.00	
5,900.0	15.18	12.17	5,867.5	259.5	10.7	-258.9	0.00	0.00	0.00	
6,000.0	15.18	12.17	5,964.0	285.1	16.3	-284.3	0.00	0.00	0.00	
6,100.0	15.18	12.17	6,060.5	310.7	21.8	-309.7	0.00	0.00	0.00	
6,200.0	15.18	12.17	6,157.0	336.3	27.3	-335.1	0.00	0.00	0.00	
6,300.0	15.18	12.17	6,253.5	361.9	32.8	-360.5	0.00	0.00	0.00	
6,400.0	15.18	12.17	6,350.1	387.5	38.3	-385.9	0.00	0.00	0.00	
6,500.0	15.18	12.17	6,446.6	413.1	43.9	-411.3	0.00	0.00	0.00	
6,600.0	15.18	12.17	6,543.1	438.7	49.4	-436.7	0.00	0.00	0.00	
6,700.0	15.18	12.17	6,639.6	464.3	54.9	-462.1	0.00	0.00	0.00	
6,800.0	15.18	12.17	6,736.1	489.9	60.4	-487.5	0.00	0.00	0.00	
6,900.0	15.18	12.17	6,832.6	515.5	65.9	-512.8	0.00	0.00	0.00	
7,000.0	15.18	12.17	6,929.1	541.1	71.5	-538.2	0.00	0.00	0.00	
7,100.0	15.18	12.17	7,025.6	566.7	77.0	-563.6	0.00	0.00	0.00	
7,200.0	15.18	12.17	7,122.1	592.2	82.5	-589.0	0.00	0.00	0.00	
7,300.0	15.18	12.17	7,218.7	617.8	88.0	-614.4	0.00	0.00	0.00	
7,400.0	15.18	12.17	7,315.2	643.4	93.5	-639.8	0.00	0.00	0.00	
7,500.0	15.18	12.17	7,411.7	669.0	99.1	-665.2	0.00	0.00	0.00	
7,600.0	15.18	12.17	7,508.2	694.6	104.6	-690.6	0.00	0.00	0.00	
7,700.0	15.18	12.17	7,604.7	720.2	110.1	-716.0	0.00	0.00	0.00	
7,800.0	15.18	12.17	7,701.2	745.8	115.6	-741.3	0.00	0.00	0.00	
7,900.0	15.18	12.17	7,797.7	771.4	121.1	-766.7	0.00	0.00	0.00	
8,000.0	15.18	12.17	7,894.2	797.0	126.7	-792.1	0.00	0.00	0.00	
8,100.0	15.18	12.17	7,990.7	822.6	132.2	-817.5	0.00	0.00	0.00	
8,200.0	15.18	12.17	8,087.2	848.2	137.7	-842.9	0.00	0.00	0.00	
8,300.0	15.18	12.17	8,183.8	873.8	143.2	-868.3	0.00	0.00	0.00	
8,400.0	15.18	12.17	8,280.3	899.4	148.7	-893.7	0.00	0.00	0.00	
8,420.1	15.18	12.17	8,299.6	904.6	149.9	-898.8	0.00	0.00	0.00	
8,500.0	14.38	12.17	8,376.9	924.5	154.2	-918.6	1.00	-1.00	0.00	
8,600.0	13.38	12.17	8,474.0	947.9	159.2	-941.8	1.00	-1.00	0.00	
8,700.0	12.38	12.17	8,571.5	969.7	163.9	-963.4	1.00	-1.00	0.00	
8,800.0	11.38	12.17	8,669.3	989.9	168.2	-983.4	1.00	-1.00	0.00	
8,900.0	10.38	12.17	8,767.5	1,008.3	172.2	-1,001.7	1.00	-1.00	0.00	
9,000.0	9.38	12.17	8,866.1	1,025.1	175.8	-1,018.3	1.00	-1.00	0.00	
9,100.0	8.38	12.17	8,964.9	1,040.2	179.1	-1,033.3	1.00	-1.00	0.00	
9,200.0	7.38	12.17	9,063.9	1,053.6	182.0	-1,046.6	1.00	-1.00	0.00	
9,300.0	6.38	12.17	9,163.2	1,065.3	184.5	-1,058.2	1.00	-1.00	0.00	
9,400.0	5.38	12.17	9,262.7	1,075.3	186.7	-1,068.1	1.00	-1.00	0.00	
9,500.0	4.38	12.17	9,362.3	1,083.6	188.5	-1,076.4	1.00	-1.00	0.00	
9,600.0	3.38	12.17	9,462.1	1,090.2	189.9	-1,083.0	1.00	-1.00	0.00	
9,700.0	2.38	12.17	9,561.9	1,095.2	191.0	-1,087.8	1.00	-1.00	0.00	
9,800.0	1.38	12.17	9,661.9	1,098.4	191.6	-1,091.0	1.00	-1.00	0.00	
9,900.0	0.38	12.17	9,761.9	1,099.9	192.0	-1,092.5	1.00	-1.00	0.00	
9,938.1	0.00	0.00	9,800.0	1,100.0	192.0	-1,092.6	1.00	-1.00	0.00	
10,000.0	0.00	0.00	9,861.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,961.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,061.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,161.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Company:	DELAWARE BASIN EAST	TVD Reference:	kb @ 3170.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	kb @ 3170.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 803H	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	10,261.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,361.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,461.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,561.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,661.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,761.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,861.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,100.0	0.00	0.00	10,961.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,061.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,161.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,261.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,361.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,461.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,561.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,661.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
11,900.0	0.00	0.00	11,761.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
12,000.0	0.00	0.00	11,861.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
12,100.0	0.00	0.00	11,961.9	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
12,155.6	0.00	0.00	12,017.5	1,100.0	192.0	-1,092.6	0.00	0.00	0.00
12,200.0	5.32	179.64	12,061.8	1,097.9	192.0	-1,090.6	12.00	12.00	0.00
12,300.0	17.32	179.64	12,159.7	1,078.3	192.1	-1,071.0	12.00	12.00	0.00
12,400.0	29.32	179.64	12,251.3	1,038.8	192.4	-1,031.5	12.00	12.00	0.00
12,500.0	41.32	179.64	12,332.8	981.1	192.7	-973.8	12.00	12.00	0.00
12,600.0	53.32	179.64	12,400.4	907.7	193.2	-900.4	12.00	12.00	0.00
12,700.0	65.32	179.64	12,451.4	821.9	193.7	-814.6	12.00	12.00	0.00
12,800.0	77.32	179.64	12,483.3	727.3	194.3	-720.1	12.00	12.00	0.00
12,900.0	89.32	179.64	12,494.9	628.2	195.0	-621.0	12.00	12.00	0.00
12,905.6	90.00	179.64	12,495.0	622.5	195.0	-615.4	12.00	12.00	0.00
13,000.0	90.00	179.64	12,495.0	528.2	195.6	-521.0	0.00	0.00	0.00
13,100.0	90.00	179.64	12,495.0	428.2	196.2	-421.1	0.00	0.00	0.00
13,200.0	90.00	179.64	12,495.0	328.2	196.8	-321.1	0.00	0.00	0.00
13,300.0	90.00	179.64	12,495.0	228.2	197.5	-221.2	0.00	0.00	0.00
13,400.0	90.00	179.64	12,495.0	128.2	198.1	-121.2	0.00	0.00	0.00
13,500.0	90.00	179.64	12,495.0	28.2	198.7	-21.2	0.00	0.00	0.00
13,600.0	90.00	179.64	12,495.0	-71.8	199.3	78.7	0.00	0.00	0.00
13,700.0	90.00	179.64	12,495.0	-171.8	200.0	178.7	0.00	0.00	0.00
13,800.0	90.00	179.64	12,495.0	-271.8	200.6	278.6	0.00	0.00	0.00
13,900.0	90.00	179.64	12,495.0	-371.8	201.2	378.6	0.00	0.00	0.00
14,000.0	90.00	179.64	12,495.0	-471.8	201.8	478.6	0.00	0.00	0.00
14,100.0	90.00	179.64	12,495.0	-571.8	202.5	578.5	0.00	0.00	0.00
14,200.0	90.00	179.64	12,495.0	-671.8	203.1	678.5	0.00	0.00	0.00
14,300.0	90.00	179.64	12,495.0	-771.8	203.7	778.4	0.00	0.00	0.00
14,400.0	90.00	179.64	12,495.0	-871.8	204.3	878.4	0.00	0.00	0.00
14,500.0	90.00	179.64	12,495.0	-971.8	205.0	978.4	0.00	0.00	0.00
14,600.0	90.00	179.64	12,495.0	-1,071.8	205.6	1,078.3	0.00	0.00	0.00
14,700.0	90.00	179.64	12,495.0	-1,171.8	206.2	1,178.3	0.00	0.00	0.00
14,800.0	90.00	179.64	12,495.0	-1,271.8	206.8	1,278.2	0.00	0.00	0.00
14,900.0	90.00	179.64	12,495.0	-1,371.8	207.5	1,378.2	0.00	0.00	0.00
15,000.0	90.00	179.64	12,495.0	-1,471.8	208.1	1,478.1	0.00	0.00	0.00
15,100.0	90.00	179.64	12,495.0	-1,571.8	208.7	1,578.1	0.00	0.00	0.00
15,200.0	90.00	179.64	12,495.0	-1,671.8	209.3	1,678.1	0.00	0.00	0.00
15,300.0	90.00	179.64	12,495.0	-1,771.8	210.0	1,778.0	0.00	0.00	0.00
15,400.0	90.00	179.64	12,495.0	-1,871.8	210.6	1,878.0	0.00	0.00	0.00
15,500.0	90.00	179.64	12,495.0	-1,971.8	211.2	1,977.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Company:	DELAWARE BASIN EAST	TVD Reference:	kb @ 3170.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	kb @ 3170.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,600.0	90.00	179.64	12,495.0	-2,071.8	211.8	2,077.9	0.00	0.00	0.00
15,700.0	90.00	179.64	12,495.0	-2,171.8	212.5	2,177.9	0.00	0.00	0.00
15,800.0	90.00	179.64	12,495.0	-2,271.8	213.1	2,277.8	0.00	0.00	0.00
15,900.0	90.00	179.64	12,495.0	-2,371.8	213.7	2,377.8	0.00	0.00	0.00
16,000.0	90.00	179.64	12,495.0	-2,471.8	214.3	2,477.7	0.00	0.00	0.00
16,100.0	90.00	179.64	12,495.0	-2,571.8	215.0	2,577.7	0.00	0.00	0.00
16,200.0	90.00	179.64	12,495.0	-2,671.8	215.6	2,677.7	0.00	0.00	0.00
16,300.0	90.00	179.64	12,495.0	-2,771.8	216.2	2,777.6	0.00	0.00	0.00
16,400.0	90.00	179.64	12,495.0	-2,871.8	216.8	2,877.6	0.00	0.00	0.00
16,500.0	90.00	179.64	12,495.0	-2,971.8	217.5	2,977.5	0.00	0.00	0.00
16,600.0	90.00	179.64	12,495.0	-3,071.8	218.1	3,077.5	0.00	0.00	0.00
16,700.0	90.00	179.64	12,495.0	-3,171.8	218.7	3,177.5	0.00	0.00	0.00
16,800.0	90.00	179.64	12,495.0	-3,271.7	219.3	3,277.4	0.00	0.00	0.00
16,900.0	90.00	179.64	12,495.0	-3,371.7	220.0	3,377.4	0.00	0.00	0.00
17,000.0	90.00	179.64	12,495.0	-3,471.7	220.6	3,477.3	0.00	0.00	0.00
17,100.0	90.00	179.64	12,495.0	-3,571.7	221.2	3,577.3	0.00	0.00	0.00
17,200.0	90.00	179.64	12,495.0	-3,671.7	221.8	3,677.2	0.00	0.00	0.00
17,300.0	90.00	179.64	12,495.0	-3,771.7	222.5	3,777.2	0.00	0.00	0.00
17,400.0	90.00	179.64	12,495.0	-3,871.7	223.1	3,877.2	0.00	0.00	0.00
17,500.0	90.00	179.64	12,495.0	-3,971.7	223.7	3,977.1	0.00	0.00	0.00
17,600.0	90.00	179.64	12,495.0	-4,071.7	224.3	4,077.1	0.00	0.00	0.00
17,700.0	90.00	179.64	12,495.0	-4,171.7	225.0	4,177.0	0.00	0.00	0.00
17,800.0	90.00	179.64	12,495.0	-4,271.7	225.6	4,277.0	0.00	0.00	0.00
17,900.0	90.00	179.64	12,495.0	-4,371.7	226.2	4,377.0	0.00	0.00	0.00
18,000.0	90.00	179.64	12,495.0	-4,471.7	226.8	4,476.9	0.00	0.00	0.00
18,100.0	90.00	179.64	12,495.0	-4,571.7	227.5	4,576.9	0.00	0.00	0.00
18,200.0	90.00	179.64	12,495.0	-4,671.7	228.1	4,676.8	0.00	0.00	0.00
18,300.0	90.00	179.64	12,495.0	-4,771.7	228.7	4,776.8	0.00	0.00	0.00
18,400.0	90.00	179.64	12,495.0	-4,871.7	229.3	4,876.8	0.00	0.00	0.00
18,500.0	90.00	179.64	12,495.0	-4,971.7	230.0	4,976.7	0.00	0.00	0.00
18,600.0	90.00	179.64	12,495.0	-5,071.7	230.6	5,076.7	0.00	0.00	0.00
18,700.0	90.00	179.64	12,495.0	-5,171.7	231.2	5,176.6	0.00	0.00	0.00
18,800.0	90.00	179.64	12,495.0	-5,271.7	231.8	5,276.6	0.00	0.00	0.00
18,900.0	90.00	179.64	12,495.0	-5,371.7	232.5	5,376.5	0.00	0.00	0.00
19,000.0	90.00	179.64	12,495.0	-5,471.7	233.1	5,476.5	0.00	0.00	0.00
19,100.0	90.00	179.64	12,495.0	-5,571.7	233.7	5,576.5	0.00	0.00	0.00
19,200.0	90.00	179.64	12,495.0	-5,671.7	234.3	5,676.4	0.00	0.00	0.00
19,300.0	90.00	179.64	12,495.0	-5,771.7	235.0	5,776.4	0.00	0.00	0.00
19,400.0	90.00	179.64	12,495.0	-5,871.7	235.6	5,876.3	0.00	0.00	0.00
19,500.0	90.00	179.64	12,495.0	-5,971.7	236.2	5,976.3	0.00	0.00	0.00
19,600.0	90.00	179.64	12,495.0	-6,071.7	236.8	6,076.3	0.00	0.00	0.00
19,700.0	90.00	179.64	12,495.0	-6,171.7	237.5	6,176.2	0.00	0.00	0.00
19,800.0	90.00	179.64	12,495.0	-6,271.7	238.1	6,276.2	0.00	0.00	0.00
19,900.0	90.00	179.64	12,495.0	-6,371.7	238.7	6,376.1	0.00	0.00	0.00
20,000.0	90.00	179.64	12,495.0	-6,471.7	239.3	6,476.1	0.00	0.00	0.00
20,100.0	90.00	179.64	12,495.0	-6,571.7	240.0	6,576.1	0.00	0.00	0.00
20,200.0	90.00	179.64	12,495.0	-6,671.7	240.6	6,676.0	0.00	0.00	0.00
20,300.0	90.00	179.64	12,495.0	-6,771.7	241.2	6,776.0	0.00	0.00	0.00
20,400.0	90.00	179.64	12,495.0	-6,871.7	241.8	6,875.9	0.00	0.00	0.00
20,466.8	90.00	179.64	12,495.0	-6,938.5	242.3	6,942.7	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Company:	DELAWARE BASIN EAST	TVD Reference:	kb @ 3170.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	kb @ 3170.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL_ZHU 2832 803H	0.00	359.64	12,495.0	-6,938.5	242.3	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 803H	90.00	0.00	12,495.0	-6,888.5	242.3	364,488.50	704,626.53	32° 0' 1.351 N	103° 40' 23.665 W
- plan misses target center by 16.8usft at 20400.0usft MD (12495.0 TVD, -6871.7 N, 241.8 E)									
- Circle (radius 50.0)									
FTP_ZHU 2832 803H	0.00	0.00	12,495.0	418.6	196.7	371,795.58	704,580.95	32° 1' 13.665 N	103° 40' 23.676 W
- plan misses target center by 0.4usft at 13109.6usft MD (12495.0 TVD, 418.6 N, 196.3 E)									
- Circle (radius 50.0)									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	20,466.9	12,495.0	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 803H

OWB

PWP0

Anticollision Report

22 April, 2025

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

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

Survey Tool Program	Date	4/22/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,466.8	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
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						Out of range
BATTLE AXE 27 FEDERAL COM 18H - JC						
BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hol	13,763.0	12,517.4	795.5	731.2	12.370 CC	
BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hol	20,466.9	19,184.8	806.2	654.2	5.301 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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 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	1,998.4	119.9	107.0	9.266 CC, ES	
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0	2,100.0	2,095.6	121.1	107.9	9.157 SF	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	1,966.5	1,966.9	99.9	87.1	7.777 CC	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	2,000.0	2,000.0	100.0	87.0	7.723 ES	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	2,200.0	2,198.4	101.9	88.4	7.561 SF	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	1,966.6	1,966.8	80.0	67.2	6.225 CC	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	2,100.0	2,099.8	80.3	67.1	6.077 ES	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	2,200.0	2,199.2	81.1	67.7	6.024 SF	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,500.0	2,499.9	60.0	45.8	4.212 CC	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,600.0	2,599.8	60.0	45.6	4.143 ES	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,700.0	2,699.5	60.5	45.7	4.104 SF	
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0	2,000.0	1,999.9	40.0	27.8	3.274 CC	
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0	8,420.1	8,405.6	46.6	16.3	1.537 Caution - Monitor Closely, ES	
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0	8,500.0	8,482.9	53.4	18.2	1.514 Caution - Monitor Closely, SF	
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	2,015.6	2,016.0	19.9	6.9	1.530 Caution - Monitor Closely, CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	1,965.8	1,968.2	140.0	127.1	10.889 CC	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	2,000.0	2,000.0	140.0	127.0	10.817 ES	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	2,100.0	2,097.6	141.7	128.4	10.678 SF	
PAYNE FEDERAL 1_PA - OWB - AWP						Out of range
RED HILLS WEST '21' FEDERAL COM 1H - OWB - AW	9,492.1	13,565.6	204.7	97.1	1.902 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	11,972.3	16,338.8	259.2	139.4	2.164 Caution - Monitor Closely, CC, ES	
RED HILLS WEST 21 W0AP FEDERAL COM 003H - OW	12,000.0	16,338.8	260.7	139.9	2.158 Caution - Monitor Closely, SF	
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW						Out of range
RED HILLS WEST 21 W1AP FEDERAL COM 002H - OW	12,258.9	16,556.4	393.3	270.2	3.196 CC	
RED HILLS WEST 21 W1AP FEDERAL COM 002H - OW	12,275.0	16,560.3	393.6	270.1	3.186 ES, SF	
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW	12,175.0	16,558.9	985.0	868.8	8.479 SF	
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW	12,221.2	16,562.5	983.8	868.0	8.491 CC, ES	
WILDER FEDERAL 28 1H - OWB - AWP	853.1	843.9	118.5	66.8	2.294 Caution - Monitor Closely, CC, ES, SF	
WILDER FEDERAL 28 1H - ST01 - AWP	853.1	843.9	118.5	66.8	2.294 Caution - Monitor Closely, CC, ES, SF	
WILDER FEDERAL 28 2H - OWB - AWP						Out of range

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					Rule Assigned:						Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance							
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			
12,900.0	12,494.9	12,086.0	11,988.1	26.6	42.9	-54.29	161.2	909.1	993.0	932.9	60.17	16.503				
12,905.6	12,495.0	12,100.0	11,997.5	26.6	43.0	-55.09	150.8	909.2	990.5	930.2	60.38	16.405				
13,000.0	12,495.0	12,121.2	12,011.1	26.6	43.0	-55.83	134.7	909.2	948.4	888.3	60.09	15.783				
13,100.0	12,495.0	12,150.0	12,028.8	26.6	43.0	-56.81	111.9	909.3	909.6	849.5	60.07	15.143				
13,200.0	12,495.0	12,200.0	12,056.7	26.6	43.1	-58.41	70.4	909.4	876.4	815.9	60.50	14.485				
13,300.0	12,495.0	12,250.0	12,080.9	26.6	43.2	-59.84	26.7	909.5	849.2	788.2	61.05	13.911				
13,400.0	12,495.0	12,300.0	12,101.1	26.6	43.2	-61.07	-19.0	909.7	827.9	766.2	61.68	13.422				
13,500.0	12,495.0	12,350.0	12,117.3	26.6	43.2	-62.07	-66.3	909.8	812.3	749.9	62.40	13.017				
13,600.0	12,495.0	12,417.0	12,132.4	26.6	43.3	-63.03	-131.5	910.0	801.8	738.6	63.15	12.696				
13,700.0	12,495.0	12,477.9	12,139.5	26.7	43.4	-63.48	-192.0	910.2	796.4	732.5	63.87	12.468				

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: 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)			
13,763.0	12,495.0	12,517.4	12,140.6	26.7	43.4	-63.55	-231.5	910.3	795.5	731.2	64.31	12.370	CC
13,800.0	12,495.0	12,553.4	12,140.4	26.7	43.5	-63.53	-267.5	910.5	795.5	731.1	64.48	12.339	
13,900.0	12,495.0	12,653.4	12,139.8	26.7	43.6	-63.49	-367.5	910.8	795.7	730.7	64.94	12.252	
14,000.0	12,495.0	12,753.4	12,139.2	26.7	43.8	-63.44	-467.5	911.1	795.8	730.4	65.46	12.157	
14,100.0	12,495.0	12,853.4	12,138.6	26.8	44.0	-63.40	-567.5	911.4	795.9	729.9	66.02	12.056	
14,200.0	12,495.0	12,953.4	12,138.0	26.8	44.2	-63.36	-667.5	911.7	796.1	729.4	66.64	11.947	
14,300.0	12,495.0	13,053.4	12,137.4	26.9	44.4	-63.31	-767.5	912.0	796.2	728.9	67.29	11.832	
14,400.0	12,495.0	13,153.4	12,136.8	27.0	44.6	-63.27	-867.4	912.3	796.4	728.4	68.00	11.712	
14,500.0	12,495.0	13,253.4	12,136.2	27.1	44.9	-63.23	-967.4	912.6	796.5	727.7	68.74	11.587	
14,600.0	12,495.0	13,353.4	12,135.6	27.3	45.2	-63.18	-1,067.4	913.0	796.6	727.1	69.53	11.458	
14,700.0	12,495.0	13,453.4	12,135.0	27.6	45.5	-63.14	-1,167.4	913.3	796.8	726.4	70.36	11.325	
14,800.0	12,495.0	13,553.4	12,134.4	28.1	45.8	-63.10	-1,267.4	913.6	796.9	725.7	71.22	11.189	
14,900.0	12,495.0	13,653.4	12,133.8	28.6	46.1	-63.05	-1,367.4	913.9	797.0	724.9	72.13	11.051	
15,000.0	12,495.0	13,753.4	12,133.2	29.3	46.5	-63.01	-1,467.4	914.2	797.2	724.1	73.07	10.910	
15,100.0	12,495.0	13,853.4	12,132.6	30.0	46.9	-62.97	-1,567.4	914.5	797.3	723.3	74.04	10.769	
15,200.0	12,495.0	13,953.4	12,132.0	30.7	47.2	-62.92	-1,667.4	914.8	797.5	722.4	75.05	10.626	
15,300.0	12,495.0	14,053.4	12,131.4	31.4	47.7	-62.88	-1,767.4	915.1	797.6	721.5	76.09	10.483	
15,400.0	12,495.0	14,153.4	12,130.8	32.2	48.1	-62.84	-1,867.4	915.4	797.7	720.6	77.16	10.339	
15,500.0	12,495.0	14,253.4	12,130.2	33.0	48.5	-62.79	-1,967.4	915.8	797.9	719.6	78.26	10.196	
15,600.0	12,495.0	14,353.4	12,129.6	33.8	49.0	-62.75	-2,067.4	916.1	798.0	718.6	79.38	10.053	
15,700.0	12,495.0	14,453.4	12,129.0	34.6	49.5	-62.71	-2,167.4	916.4	798.2	717.6	80.54	9.910	
15,800.0	12,495.0	14,553.4	12,128.4	35.4	49.9	-62.66	-2,267.4	916.7	798.3	716.6	81.72	9.769	
15,900.0	12,495.0	14,653.4	12,127.8	36.2	50.4	-62.62	-2,367.4	917.0	798.5	715.5	82.92	9.629	
16,000.0	12,495.0	14,753.3	12,127.2	37.0	51.0	-62.58	-2,467.4	917.3	798.6	714.4	84.15	9.490	
16,100.0	12,495.0	14,853.3	12,126.6	37.8	51.5	-62.53	-2,567.4	917.6	798.7	713.3	85.40	9.353	
16,200.0	12,495.0	14,953.3	12,126.0	38.7	52.0	-62.49	-2,667.4	917.9	798.9	712.2	86.67	9.218	
16,300.0	12,495.0	15,053.3	12,125.4	39.5	52.6	-62.45	-2,767.4	918.3	799.0	711.1	87.96	9.084	
16,400.0	12,495.0	15,153.3	12,124.8	40.4	53.2	-62.40	-2,867.4	918.6	799.2	709.9	89.27	8.952	
16,500.0	12,495.0	15,253.3	12,124.2	41.2	53.8	-62.36	-2,967.4	918.9	799.3	708.7	90.60	8.823	
16,600.0	12,495.0	15,353.3	12,123.6	42.1	54.3	-62.32	-3,067.4	919.2	799.5	707.5	91.95	8.695	
16,700.0	12,495.0	15,453.3	12,123.0	43.0	55.0	-62.28	-3,167.4	919.5	799.6	706.3	93.31	8.570	
16,800.0	12,495.0	15,553.3	12,122.4	43.8	55.6	-62.23	-3,267.3	919.8	799.8	705.1	94.69	8.446	
16,900.0	12,495.0	15,653.3	12,121.8	44.7	56.2	-62.19	-3,367.3	920.1	799.9	703.8	96.08	8.325	
17,000.0	12,495.0	15,753.3	12,121.2	45.6	56.8	-62.15	-3,467.3	920.4	800.1	702.6	97.49	8.206	
17,100.0	12,495.0	15,853.3	12,120.6	46.5	57.5	-62.10	-3,567.3	920.8	800.2	701.3	98.92	8.090	
17,200.0	12,495.0	15,953.3	12,120.0	47.4	58.1	-62.06	-3,667.3	921.1	800.4	700.0	100.36	7.975	
17,300.0	12,495.0	16,053.3	12,119.4	48.3	58.8	-62.02	-3,767.3	921.4	800.5	698.7	101.81	7.863	
17,400.0	12,495.0	16,153.3	12,118.8	49.1	59.5	-61.97	-3,867.3	921.7	800.7	697.4	103.27	7.753	
17,500.0	12,495.0	16,253.3	12,118.2	50.0	60.2	-61.93	-3,967.3	922.0	800.8	696.1	104.74	7.645	
17,600.0	12,495.0	16,353.3	12,117.6	50.9	60.9	-61.89	-4,067.3	922.3	801.0	694.7	106.23	7.540	
17,700.0	12,495.0	16,453.3	12,117.0	51.8	61.6	-61.85	-4,167.3	922.6	801.1	693.4	107.72	7.437	
17,800.0	12,495.0	16,553.3	12,116.4	52.7	62.3	-61.80	-4,267.3	922.9	801.3	692.0	109.23	7.336	
17,900.0	12,495.0	16,653.3	12,115.8	53.6	63.0	-61.76	-4,367.3	923.2	801.4	690.7	110.75	7.236	
18,000.0	12,495.0	16,753.3	12,115.2	54.5	63.7	-61.72	-4,467.3	923.6	801.6	689.3	112.27	7.139	
18,100.0	12,495.0	16,853.3	12,114.6	55.5	64.4	-61.67	-4,567.3	923.9	801.7	687.9	113.81	7.045	
18,200.0	12,495.0	16,953.3	12,114.0	56.4	65.2	-61.63	-4,667.3	924.2	801.9	686.5	115.35	6.952	
18,300.0	12,495.0	17,053.3	12,113.4	57.3	65.9	-61.59	-4,767.3	924.5	802.0	685.1	116.90	6.861	
18,400.0	12,495.0	17,153.3	12,112.8	58.2	66.7	-61.55	-4,867.3	924.8	802.2	683.7	118.46	6.772	
18,500.0	12,495.0	17,253.3	12,112.2	59.1	67.4	-61.50	-4,967.3	925.1	802.3	682.3	120.03	6.685	
18,600.0	12,495.0	17,353.3	12,111.6	60.0	68.2	-61.46	-5,067.3	925.4	802.5	680.9	121.60	6.599	
18,700.0	12,495.0	17,453.3	12,111.0	60.9	68.9	-61.42	-5,167.3	925.7	802.6	679.5	123.18	6.516	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: 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				Rule Assigned:					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)			No-Go Distance (usft)
18,800.0	12,495.0	17,553.3	12,110.4	61.9	69.7	-61.37	-5,267.3	926.1	802.8	678.0	124.77	6.434	
18,900.0	12,495.0	17,653.3	12,109.8	62.8	70.5	-61.33	-5,367.3	926.4	803.0	676.6	126.36	6.354	
19,000.0	12,495.0	17,753.3	12,109.2	63.7	71.3	-61.29	-5,467.3	926.7	803.1	675.1	127.96	6.276	
19,100.0	12,495.0	17,853.3	12,108.6	64.6	72.1	-61.25	-5,567.2	927.0	803.3	673.7	129.57	6.199	
19,200.0	12,495.0	17,953.3	12,108.0	65.5	72.9	-61.20	-5,667.2	927.3	803.4	672.2	131.18	6.124	
19,300.0	12,495.0	18,053.3	12,107.4	66.5	73.7	-61.16	-5,767.2	927.6	803.6	670.8	132.80	6.051	
19,400.0	12,495.0	18,153.3	12,106.8	67.4	74.5	-61.12	-5,867.2	927.9	803.7	669.3	134.42	5.979	
19,500.0	12,495.0	18,253.3	12,106.2	68.3	75.3	-61.08	-5,967.2	928.2	803.9	667.9	136.05	5.909	
19,600.0	12,495.0	18,353.3	12,105.6	69.3	76.1	-61.03	-6,067.2	928.5	804.1	666.4	137.68	5.840	
19,700.0	12,495.0	18,453.3	12,105.0	70.2	76.9	-60.99	-6,167.2	928.9	804.2	664.9	139.32	5.773	
19,800.0	12,495.0	18,553.3	12,104.4	71.1	77.7	-60.95	-6,267.2	929.2	804.4	663.4	140.96	5.706	
19,900.0	12,495.0	18,653.3	12,103.8	72.0	78.5	-60.91	-6,367.2	929.5	804.5	661.9	142.61	5.642	
20,000.0	12,495.0	18,753.3	12,103.2	73.0	79.4	-60.86	-6,467.2	929.8	804.7	660.5	144.26	5.578	
20,100.0	12,495.0	18,853.3	12,102.6	73.9	80.2	-60.82	-6,567.2	930.1	804.9	659.0	145.91	5.516	
20,200.0	12,495.0	18,953.3	12,102.0	74.8	81.0	-60.78	-6,667.2	930.4	805.0	657.5	147.57	5.455	
20,300.0	12,495.0	19,053.3	12,101.4	75.8	81.9	-60.74	-6,767.2	930.7	805.2	656.0	149.23	5.396	
20,400.0	12,495.0	19,153.3	12,100.8	76.7	82.7	-60.69	-6,867.2	931.0	805.4	654.5	150.89	5.337	
20,466.9	12,495.0	19,184.8	12,100.6	77.3	83.0	-60.68	-6,898.7	931.1	806.2	654.2	152.09	5.301 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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	1.6	3.0	3.0	-54.20	70.2	-97.3	120.0				
100.0	100.0	98.4	100.0	3.1	3.1	-54.20	70.2	-97.3	119.9	113.3	6.61	18.155	
200.0	200.0	198.4	200.0	3.3	3.3	-54.20	70.2	-97.3	119.9	112.9	7.06	16.996	
300.0	300.0	298.4	300.0	3.5	3.6	-54.20	70.2	-97.3	119.9	112.5	7.48	16.027	
400.0	400.0	398.4	400.0	3.8	3.8	-54.20	70.2	-97.3	119.9	112.1	7.89	15.204	
500.0	500.0	498.4	500.0	4.0	4.0	-54.20	70.2	-97.3	119.9	111.7	8.28	14.492	
600.0	600.0	598.4	600.0	4.1	4.1	-54.20	70.2	-97.3	119.9	111.3	8.65	13.868	
700.0	700.0	698.4	700.0	4.3	4.3	-54.20	70.2	-97.3	119.9	110.9	9.01	13.315	
800.0	800.0	798.4	800.0	4.5	4.5	-54.20	70.2	-97.3	119.9	110.6	9.36	12.821	
900.0	900.0	898.4	900.0	4.7	4.7	-54.20	70.2	-97.3	119.9	110.3	9.69	12.375	
1,000.0	1,000.0	998.4	1,000.0	4.8	4.8	-54.20	70.2	-97.3	119.9	109.9	10.02	11.970	
1,100.0	1,100.0	1,098.4	1,100.0	5.0	5.0	-54.20	70.2	-97.3	119.9	109.6	10.34	11.600	
1,200.0	1,200.0	1,198.4	1,200.0	5.2	5.2	-54.20	70.2	-97.3	119.9	109.3	10.65	11.260	
1,300.0	1,300.0	1,298.4	1,300.0	5.3	5.3	-54.20	70.2	-97.3	119.9	109.0	10.96	10.946	
1,400.0	1,400.0	1,398.4	1,400.0	5.5	5.5	-54.20	70.2	-97.3	119.9	108.7	11.26	10.655	
1,500.0	1,500.0	1,498.4	1,500.0	5.6	5.6	-54.20	70.2	-97.3	119.9	108.4	11.55	10.384	
1,600.0	1,600.0	1,598.4	1,600.0	5.8	5.8	-54.20	70.2	-97.3	119.9	108.1	11.84	10.132	
1,700.0	1,700.0	1,698.4	1,700.0	5.9	5.9	-54.20	70.2	-97.3	119.9	107.8	12.12	9.895	
1,800.0	1,800.0	1,798.4	1,800.0	6.0	6.0	-54.20	70.2	-97.3	119.9	107.5	12.40	9.673	
1,900.0	1,900.0	1,898.4	1,900.0	6.2	6.2	-54.20	70.2	-97.3	119.9	107.3	12.68	9.463	
2,000.0	2,000.0	1,998.4	2,000.0	6.3	6.3	-54.20	70.2	-97.3	119.9	107.0	12.95	9.266 CC, ES	
2,100.0	2,100.0	2,095.6	2,097.2	6.5	6.5	-54.40	70.5	-98.4	121.1	107.9	13.22	9.157 SF	
2,200.0	2,200.0	2,192.6	2,194.1	6.6	6.6	-55.00	71.4	-102.0	124.6	111.1	13.49	9.240	
2,300.0	2,300.0	2,289.3	2,290.7	6.7	6.8	-55.91	73.0	-107.9	130.6	116.8	13.75	9.499	
2,400.0	2,400.0	2,385.0	2,386.0	6.8	6.9	-57.01	75.4	-116.1	139.1	125.2	13.93	9.984	
2,500.0	2,500.0	2,479.5	2,479.8	7.0	7.0	-57.95	79.3	-126.7	150.8	136.7	14.19	10.633	
2,600.0	2,600.0	2,573.2	2,572.4	7.1	7.2	-58.69	85.0	-139.7	165.9	151.4	14.45	11.483	
2,700.0	2,700.0	2,665.9	2,663.4	7.2	7.4	-59.24	92.3	-155.1	184.1	169.4	14.70	12.530	
2,800.0	2,800.0	2,757.3	2,752.8	7.4	7.6	-59.63	101.2	-172.6	205.6	190.6	14.94	13.763	
2,900.0	2,900.0	2,847.5	2,840.1	7.5	7.7	-59.88	111.5	-192.1	230.1	214.9	15.17	15.170	
3,000.0	3,000.0	2,936.4	2,925.7	7.6	7.9	-60.03	123.2	-213.6	257.6	242.2	15.34	16.785	
3,100.0	3,100.0	3,032.1	3,017.3	7.7	8.0	-60.14	136.5	-237.8	286.4	270.8	15.58	18.380	
3,200.0	3,200.0	3,127.9	3,109.0	7.8	8.1	-60.23	149.9	-262.0	315.3	299.4	15.85	19.893	
3,300.0	3,300.0	3,223.6	3,200.7	8.0	8.3	-60.31	163.2	-286.2	344.2	328.0	16.12	21.351	
3,400.0	3,400.0	3,319.4	3,292.3	8.1	8.4	-60.37	176.6	-310.4	373.0	356.6	16.39	22.757	
3,500.0	3,500.0	3,415.1	3,384.0	8.2	8.6	-60.42	189.9	-334.6	401.9	385.2	16.67	24.113	
3,600.0	3,600.0	3,510.8	3,475.6	8.3	8.7	-60.47	203.3	-358.9	430.8	413.8	16.95	25.420	
3,700.0	3,700.0	3,606.6	3,567.3	8.4	8.9	-60.51	216.6	-383.1	459.6	442.4	17.23	26.681	
3,800.0	3,800.0	3,702.3	3,659.0	8.5	9.0	-60.55	230.0	-407.3	488.5	471.0	17.51	27.897	
3,900.0	3,900.0	3,798.1	3,750.6	8.7	9.2	-60.58	243.3	-431.5	517.4	499.6	17.80	29.070	
4,000.0	4,000.0	3,893.8	3,842.3	8.8	9.4	-60.61	256.7	-455.7	546.2	528.1	18.09	30.201	
4,100.0	4,100.0	3,989.8	3,934.2	8.9	9.5	54.12	270.0	-479.9	574.4	556.0	18.37	31.274	
4,200.0	4,199.9	4,086.1	4,026.4	9.0	9.7	54.07	283.5	-504.3	601.0	582.4	18.63	32.258	
4,300.0	4,299.7	4,182.8	4,118.9	9.1	9.9	54.22	297.0	-528.7	626.3	607.3	18.91	33.123	
4,333.3	4,332.9	4,215.0	4,149.8	9.1	9.9	54.31	301.5	-536.9	634.3	615.4	18.98	33.421	
4,400.0	4,399.4	4,279.7	4,211.7	9.2	10.1	42.66	310.5	-553.2	650.3	631.1	19.15	33.954	
4,500.0	4,499.2	4,376.8	4,304.7	9.3	10.2	14.37	324.0	-577.8	673.9	654.5	19.46	34.633	
4,600.0	4,599.0	4,474.0	4,397.8	9.5	10.4	-18.49	337.6	-602.3	697.2	677.4	19.80	35.222	
4,700.0	4,698.7	4,571.3	4,490.9	9.6	10.6	-40.42	351.1	-626.9	720.1	700.0	20.16	35.724	
4,800.0	4,798.3	4,668.4	4,583.9	9.8	10.8	-52.73	364.7	-651.5	742.7	722.2	20.52	36.192	
4,900.0	4,897.4	4,765.2	4,676.6	9.9	11.0	-60.21	378.2	-675.9	765.0	744.1	20.87	36.651	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,996.2	4,861.7	4,769.0	10.0	11.2	-65.32	391.6	-700.3	787.1	765.9	21.22	37.098		
5,100.0	5,094.3	4,957.7	4,860.9	10.2	11.4	-69.19	405.0	-724.6	809.2	787.6	21.55	37.543		
5,200.0	5,191.8	5,053.1	4,952.2	10.4	11.6	-72.37	418.3	-748.7	831.4	809.5	21.88	37.993		
5,264.5	5,254.1	5,114.2	5,010.7	10.5	11.7	-74.18	426.8	-764.2	845.9	823.8	22.07	38.324		
5,300.0	5,288.4	5,147.8	5,042.9	10.6	11.8	-74.74	431.5	-772.7	854.0	831.8	22.17	38.519		
5,400.0	5,385.0	5,242.4	5,133.5	10.8	12.0	-76.25	444.7	-796.6	877.1	854.6	22.49	39.003		
5,500.0	5,481.5	5,337.0	5,224.0	11.0	12.2	-77.68	457.9	-820.5	900.8	878.0	22.80	39.501		
5,600.0	5,578.0	5,431.5	5,314.6	11.3	12.4	-79.04	471.1	-844.4	925.1	902.0	23.12	40.010		
5,700.0	5,674.5	5,526.1	5,405.1	11.5	12.6	-80.34	484.3	-868.3	949.8	926.4	23.44	40.526		
5,800.0	5,771.0	5,620.7	5,495.7	11.8	12.8	-81.57	497.4	-892.2	975.0	951.3	23.75	41.047		

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
0.0	0.0	0.4	0.0	3.0	3.0	-54.25	58.4	-81.1	99.9				
100.0	100.0	100.4	100.0	3.1	3.1	-54.25	58.4	-81.1	99.9	93.3	6.60	15.141	
200.0	200.0	200.4	200.0	3.3	3.3	-54.25	58.4	-81.1	99.9	92.9	7.05	14.171	
300.0	300.0	300.4	300.0	3.5	3.5	-54.25	58.4	-81.1	99.9	92.5	7.48	13.363	
400.0	400.0	400.4	400.0	3.8	3.8	-54.25	58.4	-81.1	99.9	92.1	7.89	12.676	
500.0	500.0	500.4	500.0	4.0	4.0	-54.25	58.4	-81.1	99.9	91.7	8.27	12.082	
600.0	600.0	600.4	600.0	4.1	4.1	-54.25	58.4	-81.1	99.9	91.3	8.65	11.561	
700.0	700.0	700.4	700.0	4.3	4.3	-54.25	58.4	-81.1	99.9	90.9	9.00	11.100	
800.0	800.0	800.4	800.0	4.5	4.5	-54.25	58.4	-81.1	99.9	90.6	9.35	10.687	
900.0	900.0	900.4	900.0	4.7	4.7	-54.25	58.4	-81.1	99.9	90.3	9.69	10.315	
1,000.0	1,000.0	1,000.4	1,000.0	4.8	4.8	-54.25	58.4	-81.1	99.9	89.9	10.02	9.977	
1,100.0	1,100.0	1,100.4	1,100.0	5.0	5.0	-54.25	58.4	-81.1	99.9	89.6	10.34	9.669	
1,200.0	1,200.0	1,200.4	1,200.0	5.2	5.2	-54.25	58.4	-81.1	99.9	89.3	10.65	9.385	
1,300.0	1,300.0	1,300.4	1,300.0	5.3	5.3	-54.25	58.4	-81.1	99.9	89.0	10.96	9.124	
1,400.0	1,400.0	1,400.4	1,400.0	5.5	5.5	-54.25	58.4	-81.1	99.9	88.7	11.25	8.881	
1,500.0	1,500.0	1,500.4	1,500.0	5.6	5.6	-54.25	58.4	-81.1	99.9	88.4	11.55	8.655	
1,600.0	1,600.0	1,600.4	1,600.0	5.8	5.8	-54.25	58.4	-81.1	99.9	88.1	11.84	8.445	
1,700.0	1,700.0	1,700.4	1,700.0	5.9	5.9	-54.25	58.4	-81.1	99.9	87.8	12.12	8.247	
1,800.0	1,800.0	1,800.4	1,800.0	6.0	6.0	-54.25	58.4	-81.1	99.9	87.6	12.40	8.062	
1,900.0	1,900.0	1,900.4	1,900.0	6.2	6.2	-54.25	58.4	-81.1	99.9	87.3	12.67	7.887	
1,966.5	1,966.5	1,966.9	1,966.5	6.3	6.3	-54.25	58.4	-81.1	99.9	87.1	12.85	7.777 CC	
2,000.0	2,000.0	2,000.0	1,999.6	6.3	6.3	-54.25	58.4	-81.1	100.0	87.0	12.94	7.723 ES	
2,100.0	2,100.0	2,099.5	2,099.0	6.5	6.5	-53.56	59.6	-80.8	100.4	87.2	13.21	7.601	
2,200.0	2,200.0	2,198.4	2,197.9	6.6	6.7	-51.54	63.4	-79.8	101.9	88.4	13.48	7.561 SF	
2,300.0	2,300.0	2,297.0	2,296.3	6.7	6.8	-48.33	69.5	-78.1	104.7	90.9	13.75	7.614	
2,400.0	2,400.0	2,394.1	2,393.0	6.8	7.0	-44.56	77.8	-76.6	109.4	95.4	13.96	7.835	
2,500.0	2,500.0	2,490.2	2,488.7	7.0	7.2	-41.77	87.2	-77.8	117.4	103.2	14.23	8.249	
2,600.0	2,600.0	2,585.9	2,583.7	7.1	7.4	-40.06	97.6	-82.1	128.6	114.0	14.53	8.851	
2,700.0	2,700.0	2,681.0	2,677.8	7.2	7.6	-39.29	109.1	-89.2	142.7	127.8	14.85	9.610	
2,800.0	2,800.0	2,775.3	2,770.7	7.4	7.8	-39.24	121.5	-99.2	159.6	144.5	15.16	10.528	
2,900.0	2,900.0	2,868.5	2,862.1	7.5	8.1	-39.70	134.9	-112.0	179.3	163.8	15.52	11.557	
3,000.0	3,000.0	2,960.6	2,951.8	7.6	8.4	-40.50	149.0	-127.3	201.8	186.0	15.87	12.717	
3,100.0	3,100.0	3,052.1	3,040.3	7.7	8.6	-41.51	164.1	-145.2	227.1	210.9	16.19	14.028	
3,200.0	3,200.0	3,148.5	3,133.2	7.8	8.9	-42.48	180.3	-165.1	253.4	236.8	16.59	15.278	
3,300.0	3,300.0	3,244.9	3,226.1	8.0	9.2	-43.28	196.5	-185.0	279.8	262.7	17.02	16.434	
3,400.0	3,400.0	3,341.3	3,319.0	8.1	9.5	-43.93	212.7	-204.9	306.2	288.7	17.48	17.516	
3,500.0	3,500.0	3,437.7	3,411.9	8.2	9.8	-44.49	228.9	-224.8	332.7	314.7	17.96	18.527	
3,600.0	3,600.0	3,534.1	3,504.9	8.3	10.1	-44.96	245.1	-244.7	359.1	340.7	18.44	19.472	
3,700.0	3,700.0	3,630.5	3,597.8	8.4	10.5	-45.36	261.3	-264.6	385.6	366.7	18.95	20.354	
3,800.0	3,800.0	3,726.9	3,690.7	8.5	10.8	-45.72	277.5	-284.5	412.2	392.7	19.46	21.176	
3,900.0	3,900.0	3,823.2	3,783.6	8.7	11.2	-46.03	293.7	-304.4	438.7	418.7	19.99	21.944	
4,000.0	4,000.0	3,919.6	3,876.5	8.8	11.6	-46.30	309.9	-324.3	465.2	444.7	20.53	22.660	
4,100.0	4,100.0	4,016.2	3,969.5	8.9	12.0	68.22	326.1	-344.2	491.3	470.2	21.07	23.319	
4,200.0	4,199.9	4,112.9	4,062.8	9.0	12.4	68.05	342.4	-364.2	516.5	494.9	21.61	23.901	
4,300.0	4,299.7	4,209.9	4,156.3	9.1	12.8	68.14	358.7	-384.2	540.7	518.5	22.17	24.392	
4,333.3	4,332.9	4,242.2	4,187.4	9.1	12.9	68.22	364.1	-390.9	548.6	526.2	22.34	24.555	
4,400.0	4,399.4	4,307.0	4,249.9	9.2	13.2	56.56	375.0	-404.3	564.0	541.3	22.71	24.837	
4,500.0	4,499.2	4,404.5	4,343.9	9.3	13.6	28.20	391.4	-424.4	586.1	562.8	23.30	25.153	
4,600.0	4,599.0	4,502.3	4,438.1	9.5	14.0	-4.77	407.8	-444.6	607.1	583.2	23.92	25.386	
4,700.0	4,698.7	4,600.2	4,532.5	9.6	14.4	-26.85	424.3	-464.8	626.9	602.4	24.56	25.531	
4,800.0	4,798.3	4,698.1	4,626.8	9.8	14.8	-39.34	440.7	-485.0	645.6	620.4	25.21	25.612	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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	4,897.4	4,795.9	4,721.2	9.9	15.3	-47.03	457.2	-505.2	663.3	637.4	25.86	25.650	
5,000.0	4,996.2	4,893.5	4,815.3	10.0	15.7	-52.38	473.6	-525.4	680.0	653.5	26.50	25.657	
5,100.0	5,094.3	4,990.8	4,909.0	10.2	16.1	-56.54	489.9	-545.5	695.9	668.8	27.14	25.645	
5,200.0	5,191.8	5,087.7	5,002.4	10.4	16.6	-60.04	506.2	-565.5	711.3	683.6	27.76	25.628	
5,264.5	5,254.1	5,149.8	5,062.3	10.5	16.9	-62.10	516.6	-578.3	721.1	693.0	28.13	25.636	
5,300.0	5,288.4	5,184.0	5,095.2	10.6	17.0	-62.73	522.4	-585.4	726.5	698.1	28.32	25.648	
5,400.0	5,385.0	5,280.2	5,187.9	10.8	17.4	-64.45	538.6	-605.2	742.1	713.2	28.91	25.671	
5,500.0	5,481.5	5,376.4	5,280.7	11.0	17.9	-66.11	554.7	-625.1	758.4	728.9	29.48	25.723	
5,600.0	5,578.0	5,472.6	5,373.4	11.3	18.3	-67.70	570.9	-644.9	775.3	745.2	30.05	25.800	
5,700.0	5,674.5	5,568.8	5,466.1	11.5	18.8	-69.22	587.1	-664.8	792.8	762.1	30.61	25.900	
5,800.0	5,771.0	5,664.9	5,558.8	11.8	19.2	-70.69	603.2	-684.7	810.8	779.6	31.16	26.021	
5,900.0	5,867.5	5,761.1	5,651.5	12.1	19.7	-72.08	619.4	-704.5	829.3	797.6	31.70	26.160	
6,000.0	5,964.0	5,857.3	5,744.2	12.4	20.1	-73.42	635.6	-724.4	848.3	816.1	32.24	26.314	
6,100.0	6,060.5	5,953.5	5,837.0	12.7	20.6	-74.70	651.7	-744.2	867.8	835.0	32.77	26.481	
6,200.0	6,157.0	6,049.7	5,929.7	13.1	21.0	-75.93	667.9	-764.1	887.7	854.4	33.30	26.660	
6,300.0	6,253.5	6,145.9	6,022.4	13.4	21.5	-77.11	684.1	-784.0	908.0	874.1	33.82	26.849	
6,400.0	6,350.1	6,242.1	6,115.1	13.8	21.9	-78.23	700.2	-803.8	928.6	894.3	34.33	27.045	
6,500.0	6,446.6	6,338.3	6,207.8	14.1	22.4	-79.31	716.4	-823.7	949.6	914.7	34.85	27.249	
6,600.0	6,543.1	6,434.5	6,300.6	14.5	22.8	-80.34	732.6	-843.6	970.8	935.5	35.36	27.458	
6,700.0	6,639.6	6,530.7	6,393.3	14.8	23.3	-81.33	748.7	-863.4	992.4	956.6	35.87	27.670	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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	0.2	0.0	3.0	3.0	-54.25	46.7	-64.9	80.0					
100.0	100.0	100.2	100.0	3.1	3.1	-54.25	46.7	-64.9	80.0	73.4	6.60	12.121		
200.0	200.0	200.2	200.0	3.3	3.3	-54.25	46.7	-64.9	80.0	73.0	7.05	11.344		
300.0	300.0	300.2	300.0	3.5	3.5	-54.25	46.7	-64.9	80.0	72.5	7.48	10.697		
400.0	400.0	400.2	400.0	3.8	3.8	-54.25	46.7	-64.9	80.0	72.1	7.88	10.147		
500.0	500.0	500.2	500.0	4.0	4.0	-54.25	46.7	-64.9	80.0	71.7	8.27	9.672		
600.0	600.0	600.2	600.0	4.1	4.1	-54.25	46.7	-64.9	80.0	71.4	8.64	9.255		
700.0	700.0	700.2	700.0	4.3	4.3	-54.25	46.7	-64.9	80.0	71.0	9.00	8.886		
800.0	800.0	800.2	800.0	4.5	4.5	-54.25	46.7	-64.9	80.0	70.7	9.35	8.556		
900.0	900.0	900.2	900.0	4.7	4.7	-54.25	46.7	-64.9	80.0	70.3	9.69	8.258		
1,000.0	1,000.0	1,000.2	1,000.0	4.8	4.8	-54.25	46.7	-64.9	80.0	70.0	10.02	7.987		
1,100.0	1,100.0	1,100.2	1,100.0	5.0	5.0	-54.25	46.7	-64.9	80.0	69.7	10.34	7.740		
1,200.0	1,200.0	1,200.2	1,200.0	5.2	5.2	-54.25	46.7	-64.9	80.0	69.4	10.65	7.513		
1,300.0	1,300.0	1,300.2	1,300.0	5.3	5.3	-54.25	46.7	-64.9	80.0	69.1	10.95	7.304		
1,400.0	1,400.0	1,400.2	1,400.0	5.5	5.5	-54.25	46.7	-64.9	80.0	68.8	11.25	7.109		
1,500.0	1,500.0	1,500.2	1,500.0	5.6	5.6	-54.25	46.7	-64.9	80.0	68.5	11.55	6.929		
1,600.0	1,600.0	1,600.2	1,600.0	5.8	5.8	-54.25	46.7	-64.9	80.0	68.2	11.84	6.760		
1,700.0	1,700.0	1,700.2	1,700.0	5.9	5.9	-54.25	46.7	-64.9	80.0	67.9	12.12	6.602		
1,800.0	1,800.0	1,800.2	1,800.0	6.0	6.0	-54.25	46.7	-64.9	80.0	67.6	12.40	6.454		
1,900.0	1,900.0	1,900.2	1,900.0	6.2	6.2	-54.25	46.7	-64.9	80.0	67.3	12.67	6.314		
1,966.6	1,966.6	1,966.8	1,966.6	6.3	6.3	-54.25	46.7	-64.9	80.0	67.2	12.85	6.225 CC		
2,000.0	2,000.0	2,000.2	2,000.0	6.3	6.3	-54.25	46.8	-64.9	80.0	67.1	12.94	6.182		
2,100.0	2,100.0	2,099.8	2,099.6	6.5	6.5	-53.33	47.9	-64.4	80.3	67.1	13.21	6.077 ES		
2,200.0	2,200.0	2,199.2	2,198.9	6.6	6.7	-50.64	51.5	-62.7	81.1	67.7	13.47	6.024 SF		
2,300.0	2,300.0	2,298.4	2,297.9	6.7	6.8	-46.32	57.3	-60.0	83.0	69.3	13.73	6.043		
2,400.0	2,400.0	2,396.0	2,395.1	6.8	7.0	-41.19	65.2	-57.1	86.8	72.9	13.95	6.223		
2,500.0	2,500.0	2,492.7	2,491.3	7.0	7.2	-37.21	74.7	-56.7	94.2	80.0	14.22	6.626		
2,600.0	2,600.0	2,588.9	2,586.9	7.1	7.4	-34.61	85.8	-59.2	105.1	90.6	14.51	7.241		
2,700.0	2,700.0	2,684.5	2,681.5	7.2	7.6	-33.22	98.4	-64.5	119.1	104.3	14.83	8.030		
2,800.0	2,800.0	2,779.3	2,775.0	7.4	7.8	-32.76	112.5	-72.4	136.1	120.9	15.17	8.970		
2,900.0	2,900.0	2,875.4	2,869.2	7.5	8.1	-32.87	128.0	-82.7	155.5	140.1	15.47	10.054		
3,000.0	3,000.0	2,973.4	2,965.2	7.6	8.3	-33.03	144.1	-93.7	175.3	159.5	15.86	11.056		
3,100.0	3,100.0	3,071.4	3,061.3	7.7	8.6	-33.15	160.2	-104.6	195.2	178.9	16.27	11.996		
3,200.0	3,200.0	3,169.5	3,157.4	7.8	8.9	-33.24	176.2	-115.5	215.0	198.3	16.69	12.878		
3,300.0	3,300.0	3,267.5	3,253.5	8.0	9.2	-33.33	192.3	-126.4	234.8	217.7	17.14	13.703		
3,400.0	3,400.0	3,365.5	3,349.5	8.1	9.5	-33.39	208.4	-137.4	254.6	237.0	17.59	14.475		
3,500.0	3,500.0	3,463.5	3,445.6	8.2	9.8	-33.45	224.4	-148.3	274.5	256.4	18.06	15.197		
3,600.0	3,600.0	3,561.5	3,541.7	8.3	10.1	-33.50	240.5	-159.2	294.3	275.7	18.54	15.871		
3,700.0	3,700.0	3,659.5	3,637.7	8.4	10.5	-33.55	256.6	-170.1	314.1	295.1	19.03	16.502		
3,800.0	3,800.0	3,757.5	3,733.8	8.5	10.8	-33.59	272.6	-181.1	333.9	314.4	19.54	17.092		
3,900.0	3,900.0	3,855.6	3,829.9	8.7	11.2	-33.62	288.7	-192.0	353.7	333.7	20.05	17.643		
4,000.0	4,000.0	3,953.6	3,925.9	8.8	11.6	-33.65	304.8	-202.9	373.6	353.0	20.57	18.159		
4,100.0	4,100.0	4,051.6	4,022.0	8.9	11.9	81.21	320.9	-213.8	393.2	372.1	21.09	18.644		
4,200.0	4,199.9	4,149.7	4,118.2	9.0	12.3	81.44	336.9	-224.8	412.5	390.8	21.61	19.090		
4,300.0	4,299.7	4,247.7	4,214.2	9.1	12.7	81.97	353.0	-235.7	431.4	409.2	22.14	19.486		
4,333.3	4,332.9	4,280.3	4,246.2	9.1	12.8	82.21	358.4	-239.3	437.6	415.3	22.30	19.623		
4,400.0	4,399.4	4,345.7	4,310.3	9.2	13.1	70.72	369.1	-246.6	449.7	427.1	22.65	19.855		
4,500.0	4,499.2	4,444.3	4,406.9	9.3	13.5	42.56	385.2	-257.6	466.3	443.1	23.22	20.084		
4,600.0	4,599.0	4,543.2	4,503.8	9.5	13.9	9.73	401.4	-268.6	481.0	457.2	23.79	20.212		
4,700.0	4,698.7	4,642.3	4,601.0	9.6	14.3	-12.26	417.7	-279.7	493.6	469.2	24.39	20.235		
4,800.0	4,798.3	4,741.7	4,698.4	9.8	14.7	-24.73	434.0	-290.7	504.3	479.3	25.02	20.158		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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	4,897.4	4,841.0	4,795.8	9.9	15.1	-32.47	450.3	-301.8	513.1	487.5	25.65	20.004	
5,000.0	4,996.2	4,940.3	4,893.1	10.0	15.6	-37.95	466.6	-312.9	520.1	493.8	26.29	19.787	
5,100.0	5,094.3	5,039.3	4,990.1	10.2	16.0	-42.32	482.8	-323.9	525.5	498.5	26.91	19.524	
5,200.0	5,191.8	5,138.0	5,086.9	10.4	16.4	-46.14	499.0	-334.9	529.3	501.8	27.53	19.229	
5,264.5	5,254.1	5,201.4	5,149.0	10.5	16.7	-48.46	509.4	-342.0	531.2	503.3	27.89	19.045	
5,300.0	5,288.4	5,236.3	5,183.2	10.6	16.8	-49.17	515.1	-345.9	532.1	504.0	28.08	18.949	
5,400.0	5,385.0	5,334.5	5,279.4	10.8	17.2	-51.15	531.2	-356.8	535.2	506.6	28.65	18.683	
5,500.0	5,481.5	5,432.7	5,375.7	11.0	17.7	-53.10	547.3	-367.8	539.0	509.8	29.19	18.461	
5,600.0	5,578.0	5,530.8	5,471.9	11.3	18.1	-55.03	563.4	-378.7	543.3	513.6	29.73	18.279	
5,700.0	5,674.5	5,629.0	5,568.1	11.5	18.5	-56.93	579.5	-389.6	548.3	518.1	30.24	18.135	
5,800.0	5,771.0	5,727.2	5,664.4	11.8	19.0	-58.79	595.6	-400.6	554.0	523.2	30.73	18.027	
5,900.0	5,867.5	5,825.4	5,760.6	12.1	19.4	-60.61	611.7	-411.5	560.2	529.0	31.20	17.954	
6,000.0	5,964.0	5,923.5	5,856.8	12.4	19.8	-62.39	627.8	-422.5	566.9	535.3	31.65	17.912	
6,100.0	6,060.5	6,021.7	5,953.0	12.7	20.3	-64.13	643.8	-433.4	574.2	542.2	32.08	17.900	
6,200.0	6,157.0	6,119.9	6,049.3	13.1	20.7	-65.82	659.9	-444.4	582.1	549.6	32.49	17.916	
6,300.0	6,253.5	6,218.1	6,145.5	13.4	21.1	-67.47	676.0	-455.3	590.5	557.6	32.88	17.957	
6,400.0	6,350.1	6,316.2	6,241.7	13.8	21.6	-69.08	692.1	-466.2	599.3	566.0	33.25	18.022	
6,500.0	6,446.6	6,414.4	6,338.0	14.1	22.0	-70.63	708.2	-477.2	608.6	575.0	33.61	18.107	
6,600.0	6,543.1	6,512.6	6,434.2	14.5	22.5	-72.14	724.3	-488.1	618.4	584.4	33.95	18.213	
6,700.0	6,639.6	6,610.8	6,530.4	14.8	22.9	-73.61	740.4	-499.1	628.5	594.3	34.28	18.336	
6,800.0	6,736.1	6,708.9	6,626.6	15.2	23.3	-75.03	756.5	-510.0	639.1	604.5	34.59	18.475	
6,900.0	6,832.6	6,807.1	6,722.9	15.6	23.8	-76.40	772.6	-521.0	650.1	615.2	34.90	18.628	
7,000.0	6,929.1	6,905.3	6,819.1	16.0	24.2	-77.72	788.7	-531.9	661.4	626.2	35.19	18.795	
7,100.0	7,025.6	7,009.1	6,920.9	16.4	24.7	-79.09	805.5	-543.3	672.9	637.4	35.48	18.966	
7,200.0	7,122.1	7,117.9	7,027.9	16.8	25.2	-80.56	821.6	-554.2	683.3	647.6	35.76	19.106	
7,300.0	7,218.7	7,226.5	7,135.1	17.2	25.6	-82.09	836.0	-564.0	692.6	656.6	36.00	19.242	
7,400.0	7,315.2	7,335.1	7,242.6	17.6	26.1	-83.67	848.7	-572.7	700.9	664.7	36.17	19.378	
7,500.0	7,411.7	7,443.4	7,350.1	18.0	26.5	-85.31	859.7	-580.2	708.1	671.9	36.28	19.517	
7,600.0	7,508.2	7,551.4	7,457.5	18.5	27.0	-87.01	869.0	-586.5	714.5	678.2	36.34	19.663	
7,700.0	7,604.7	7,659.1	7,564.8	18.9	27.4	-88.79	876.6	-591.6	720.0	683.7	36.33	19.819	
7,800.0	7,701.2	7,766.3	7,671.8	19.3	27.7	-90.64	882.5	-595.6	724.9	688.6	36.26	19.990	
7,900.0	7,797.7	7,873.0	7,778.4	19.8	28.1	-92.56	886.7	-598.5	729.1	693.0	36.13	20.179	
8,000.0	7,894.2	7,979.1	7,884.5	20.2	28.4	-94.57	889.3	-600.3	732.8	696.9	35.94	20.389	
8,100.0	7,990.7	8,084.6	7,989.9	20.6	28.6	-96.65	890.2	-600.9	736.2	700.6	35.65	20.652	
8,200.0	8,087.2	8,181.9	8,087.2	21.1	28.7	-98.61	890.2	-600.9	739.8	704.5	35.37	20.918	
8,300.0	8,183.8	8,278.5	8,183.8	21.5	28.7	-100.53	890.2	-600.9	744.3	709.2	35.09	21.211	
8,400.0	8,280.3	8,375.0	8,280.3	22.0	28.8	-102.44	890.2	-600.9	749.7	714.9	34.86	21.509	
8,420.1	8,299.6	8,394.3	8,299.6	22.0	28.8	-102.81	890.2	-600.9	750.9	716.1	34.81	21.573	
8,500.0	8,376.9	8,471.6	8,376.9	22.4	28.8	-104.32	890.2	-600.9	755.9	721.2	34.67	21.801	
8,600.0	8,474.0	8,568.7	8,474.0	22.8	28.9	-106.09	890.2	-600.9	762.3	727.8	34.57	22.053	
8,700.0	8,571.5	8,666.2	8,571.5	23.3	28.9	-107.71	890.2	-600.9	769.0	734.4	34.53	22.269	
8,800.0	8,669.3	8,764.0	8,669.3	23.7	28.9	-109.19	890.2	-600.9	775.6	741.0	34.55	22.446	
8,900.0	8,767.5	8,862.2	8,767.5	24.1	29.0	-110.54	890.2	-600.9	782.1	747.5	34.63	22.587	
9,000.0	8,866.1	8,960.8	8,866.1	24.6	29.0	-111.75	890.2	-600.9	788.4	753.6	34.74	22.691	
9,100.0	8,964.9	9,059.6	8,964.9	25.0	29.1	-112.83	890.2	-600.9	794.3	759.4	34.90	22.763	
9,200.0	9,063.9	9,158.6	9,063.9	25.4	29.1	-113.78	890.2	-600.9	799.8	764.7	35.07	22.803	
9,300.0	9,163.2	9,257.9	9,163.2	25.8	29.1	-114.60	890.2	-600.9	804.7	769.4	35.27	22.815	
9,400.0	9,262.7	9,357.4	9,262.7	26.2	29.2	-115.29	890.2	-600.9	809.1	773.6	35.48	22.801	
9,500.0	9,362.3	9,457.0	9,362.3	26.5	29.2	-115.87	890.2	-600.9	812.7	777.0	35.70	22.765	
9,600.0	9,462.1	9,556.8	9,462.1	26.9	29.3	-116.32	890.2	-600.9	815.7	779.8	35.92	22.709	
9,700.0	9,561.9	9,656.6	9,561.9	27.2	29.3	-116.66	890.2	-600.9	818.0	781.8	36.14	22.635	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
9,800.0	9,661.9	9,756.6	9,661.9	27.5	29.4	-116.88	890.2	-600.9	819.4	783.1	36.34	22.548		
9,900.0	9,761.9	9,856.6	9,761.9	27.7	29.4	-116.98	890.2	-600.9	820.1	783.6	36.53	22.450		
9,938.1	9,800.0	9,894.7	9,800.0	27.8	29.4	-104.82	890.2	-600.9	820.2	783.6	36.58	22.422		
10,000.0	9,861.9	9,956.6	9,861.9	27.8	29.5	-104.82	890.2	-600.9	820.2	783.6	36.65	22.378		
10,100.0	9,961.9	10,056.6	9,961.9	27.9	29.5	-104.82	890.2	-600.9	820.2	783.4	36.79	22.297		
10,200.0	10,061.9	10,156.6	10,061.9	27.9	29.5	-104.82	890.2	-600.9	820.2	783.3	36.92	22.217		
10,300.0	10,161.9	10,256.6	10,161.9	28.0	29.6	-104.82	890.2	-600.9	820.2	783.2	37.05	22.136		
10,400.0	10,261.9	10,356.6	10,261.9	28.0	29.6	-104.82	890.2	-600.9	820.2	783.0	37.19	22.057		
10,500.0	10,361.9	10,456.6	10,361.9	28.0	29.7	-104.82	890.2	-600.9	820.2	782.9	37.32	21.977		
10,600.0	10,461.9	10,556.6	10,461.9	28.1	29.7	-104.82	890.2	-600.9	820.2	782.7	37.45	21.898		
10,700.0	10,561.9	10,656.6	10,561.9	28.1	29.8	-104.82	890.2	-600.9	820.2	782.6	37.59	21.820		
10,800.0	10,661.9	10,756.6	10,661.9	28.2	29.8	-104.82	890.2	-600.9	820.2	782.5	37.72	21.742		
10,900.0	10,761.9	10,856.6	10,761.9	28.2	29.9	-104.82	890.2	-600.9	820.2	782.3	37.86	21.664		
11,000.0	10,861.9	10,956.6	10,861.9	28.3	29.9	-104.82	890.2	-600.9	820.2	782.2	37.99	21.587		
11,100.0	10,961.9	11,056.6	10,961.9	28.3	30.0	-104.82	890.2	-600.9	820.2	782.1	38.13	21.511		
11,200.0	11,061.9	11,156.6	11,061.9	28.4	30.0	-104.82	890.2	-600.9	820.2	781.9	38.27	21.434		
11,300.0	11,161.9	11,256.6	11,161.9	28.4	30.1	-104.82	890.2	-600.9	820.2	781.8	38.40	21.359		
11,400.0	11,261.9	11,356.6	11,261.9	28.5	30.1	-104.82	890.2	-600.9	820.2	781.7	38.54	21.283		
11,410.0	11,271.9	11,366.6	11,271.9	28.5	30.1	-104.82	890.2	-600.9	820.2	781.7	38.55	21.276		
11,500.0	11,361.9	11,450.0	11,355.3	28.5	30.1	-104.84	889.9	-601.0	820.4	781.7	38.65	21.226		
11,600.0	11,461.9	11,505.4	11,410.4	28.6	30.0	-105.19	884.5	-601.8	824.1	785.3	38.75	21.265		
11,700.0	11,561.9	11,562.3	11,466.0	28.6	29.8	-105.96	872.5	-603.5	833.0	794.0	38.93	21.395		
11,800.0	11,661.9	11,615.6	11,516.4	28.7	29.6	-107.04	855.4	-606.0	847.3	808.1	39.20	21.613		
11,900.0	11,761.9	11,664.6	11,560.7	28.7	29.4	-108.32	834.8	-609.0	867.4	827.8	39.59	21.912		
12,000.0	11,861.9	11,708.7	11,598.6	28.8	29.3	-109.67	812.6	-612.3	893.7	853.6	40.10	22.287		
12,100.0	11,961.9	11,750.0	11,632.1	28.8	29.1	-111.08	788.7	-615.7	926.4	885.6	40.74	22.741		
12,155.6	12,017.5	11,767.9	11,646.0	28.9	29.1	-111.73	777.4	-617.4	947.2	906.1	41.15	23.019		
12,175.0	12,036.9	11,775.0	11,651.3	28.8	29.1	67.37	772.8	-618.1	954.8	913.5	41.28	23.129		
12,200.0	12,061.8	11,783.5	11,657.6	28.8	29.0	65.92	767.3	-618.9	964.5	923.0	41.45	23.270		
12,225.0	12,086.6	11,792.3	11,664.1	28.7	29.0	64.52	761.3	-619.7	974.1	932.5	41.61	23.409		
12,250.0	12,111.3	11,800.0	11,669.7	28.6	29.0	63.20	756.0	-620.5	983.5	941.7	41.78	23.538		
12,275.0	12,135.6	11,810.4	11,677.0	28.5	29.0	61.87	748.8	-621.6	992.7	950.8	41.94	23.672		

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
0.0	0.0	0.0	0.1	3.0	3.0	-54.33	35.0	-48.7	60.0				
100.0	100.0	99.9	100.0	3.1	3.1	-54.33	35.0	-48.7	60.0	53.4	6.60	9.090	
200.0	200.0	199.9	200.0	3.3	3.3	-54.33	35.0	-48.7	60.0	52.9	7.05	8.508	
300.0	300.0	299.9	300.0	3.5	3.5	-54.33	35.0	-48.7	60.0	52.5	7.48	8.023	
400.0	400.0	399.9	400.0	3.8	3.8	-54.33	35.0	-48.7	60.0	52.1	7.88	7.610	
500.0	500.0	499.9	500.0	4.0	3.9	-54.33	35.0	-48.7	60.0	51.7	8.27	7.253	
600.0	600.0	599.9	600.0	4.1	4.1	-54.33	35.0	-48.7	60.0	51.4	8.64	6.941	
700.0	700.0	699.9	700.0	4.3	4.3	-54.33	35.0	-48.7	60.0	51.0	9.00	6.664	
800.0	800.0	799.9	800.0	4.5	4.5	-54.33	35.0	-48.7	60.0	50.6	9.35	6.416	
900.0	900.0	899.9	900.0	4.7	4.7	-54.33	35.0	-48.7	60.0	50.3	9.69	6.193	
1,000.0	1,000.0	999.9	1,000.0	4.8	4.8	-54.33	35.0	-48.7	60.0	50.0	10.02	5.990	
1,100.0	1,100.0	1,099.9	1,100.0	5.0	5.0	-54.33	35.0	-48.7	60.0	49.7	10.34	5.805	
1,200.0	1,200.0	1,199.9	1,200.0	5.2	5.2	-54.33	35.0	-48.7	60.0	49.4	10.65	5.634	
1,300.0	1,300.0	1,299.9	1,300.0	5.3	5.3	-54.33	35.0	-48.7	60.0	49.0	10.95	5.477	
1,400.0	1,400.0	1,399.9	1,400.0	5.5	5.5	-54.33	35.0	-48.7	60.0	48.7	11.25	5.332	
1,500.0	1,500.0	1,499.9	1,500.0	5.6	5.6	-54.33	35.0	-48.7	60.0	48.5	11.55	5.196	
1,600.0	1,600.0	1,599.9	1,600.0	5.8	5.8	-54.33	35.0	-48.7	60.0	48.2	11.84	5.070	
1,700.0	1,700.0	1,699.9	1,700.0	5.9	5.9	-54.33	35.0	-48.7	60.0	47.9	12.12	4.951	
1,800.0	1,800.0	1,799.9	1,800.0	6.0	6.0	-54.33	35.0	-48.7	60.0	47.6	12.40	4.840	
1,900.0	1,900.0	1,899.9	1,900.0	6.2	6.2	-54.33	35.0	-48.7	60.0	47.3	12.67	4.735	
2,000.0	2,000.0	1,999.9	2,000.0	6.3	6.3	-54.33	35.0	-48.7	60.0	47.1	12.94	4.636	
2,100.0	2,100.0	2,099.9	2,100.0	6.5	6.5	-54.33	35.0	-48.7	60.0	46.8	13.21	4.542	
2,200.0	2,200.0	2,199.9	2,200.0	6.6	6.6	-54.33	35.0	-48.7	60.0	46.5	13.47	4.453	
2,300.0	2,300.0	2,299.9	2,300.0	6.7	6.7	-54.33	35.0	-48.7	60.0	46.3	13.73	4.369	
2,400.0	2,400.0	2,399.9	2,400.0	6.8	6.8	-54.33	35.0	-48.7	60.0	46.0	13.99	4.289	
2,500.0	2,500.0	2,499.9	2,500.0	7.0	7.0	-54.33	35.0	-48.7	60.0	45.8	14.24	4.212 CC	
2,504.4	2,504.4	2,504.3	2,504.4	7.0	7.0	-54.32	35.0	-48.7	60.0	45.7	14.26	4.209	
2,600.0	2,600.0	2,599.8	2,599.9	7.1	7.2	-52.67	36.4	-47.7	60.0	45.6	14.49	4.143 ES	
2,700.0	2,700.0	2,699.5	2,699.5	7.2	7.4	-47.73	40.7	-44.8	60.5	45.7	14.74	4.104 SF	
2,800.0	2,800.0	2,798.0	2,797.6	7.4	7.5	-40.26	47.6	-40.4	62.5	47.6	14.93	4.186	
2,900.0	2,900.0	2,895.3	2,894.3	7.5	7.6	-33.44	57.0	-37.7	68.6	53.4	15.19	4.515	
3,000.0	3,000.0	2,992.1	2,990.4	7.6	7.8	-28.37	68.8	-37.2	78.8	63.4	15.46	5.098	
3,100.0	3,100.0	3,088.2	3,085.5	7.7	8.1	-25.10	82.9	-38.8	92.7	77.0	15.75	5.887	
3,200.0	3,200.0	3,183.6	3,179.4	7.8	8.3	-23.23	99.3	-42.6	110.0	93.9	16.02	6.864	
3,300.0	3,300.0	3,281.8	3,275.8	8.0	8.5	-22.06	117.2	-47.5	128.7	112.3	16.38	7.859	
3,400.0	3,400.0	3,380.0	3,372.3	8.1	8.7	-21.19	135.1	-52.4	147.5	130.8	16.76	8.804	
3,500.0	3,500.0	3,478.2	3,468.7	8.2	9.0	-20.51	153.0	-57.2	166.3	149.2	17.15	9.699	
3,600.0	3,600.0	3,576.4	3,565.1	8.3	9.3	-19.97	170.9	-62.1	185.2	167.6	17.56	10.546	
3,700.0	3,700.0	3,674.6	3,661.5	8.4	9.6	-19.53	188.8	-67.0	204.0	186.0	17.98	11.345	
3,800.0	3,800.0	3,772.8	3,758.0	8.5	9.9	-19.17	206.7	-71.9	222.9	204.5	18.42	12.100	
3,900.0	3,900.0	3,871.0	3,854.4	8.7	10.2	-18.86	224.7	-76.7	241.7	222.9	18.87	12.810	
4,000.0	4,000.0	3,969.2	3,950.8	8.8	10.5	-18.60	242.6	-81.6	260.6	241.3	19.34	13.478	
4,100.0	4,100.0	4,067.3	4,047.2	8.9	10.8	96.61	260.5	-86.5	279.6	259.8	19.80	14.124	
4,200.0	4,199.9	4,165.3	4,143.4	9.0	11.2	97.26	278.3	-91.4	299.0	278.7	20.26	14.757	
4,300.0	4,299.7	4,263.1	4,239.4	9.1	11.5	98.26	296.2	-96.2	318.8	298.1	20.75	15.369	
4,333.3	4,332.9	4,295.6	4,271.4	9.1	11.6	98.66	302.1	-97.8	325.5	304.7	20.89	15.582	
4,400.0	4,399.4	4,360.8	4,335.4	9.2	11.9	87.45	314.0	-101.1	338.5	317.3	21.21	15.962	
4,500.0	4,499.2	4,459.1	4,431.9	9.3	12.2	59.64	331.9	-105.9	355.9	334.1	21.73	16.374	
4,600.0	4,599.0	4,558.0	4,529.0	9.5	12.6	27.12	350.0	-110.9	370.6	348.3	22.27	16.643	
4,700.0	4,698.7	4,657.2	4,626.5	9.6	13.0	5.42	368.1	-115.8	382.6	359.8	22.81	16.769	
4,800.0	4,798.3	4,756.8	4,724.2	9.8	13.4	-6.76	386.3	-120.7	391.8	368.4	23.40	16.747	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
4,900.0	4,897.4	4,856.5	4,822.2	9.9	13.8	-14.21	404.4	-125.7	398.3	374.3	24.00	16.595	
5,000.0	4,996.2	4,956.3	4,920.2	10.0	14.2	-19.41	422.6	-130.6	402.1	377.4	24.62	16.330	
5,100.0	5,094.3	5,056.0	5,018.1	10.2	14.6	-23.51	440.8	-135.6	403.2	377.9	25.25	15.965	
5,200.0	5,191.8	5,155.6	5,115.8	10.4	15.0	-27.10	459.0	-140.5	401.8	375.9	25.89	15.518	
5,264.5	5,254.1	5,219.5	5,178.6	10.5	15.2	-29.31	470.7	-143.7	399.7	373.4	26.28	15.210	
5,300.0	5,288.4	5,254.8	5,213.3	10.6	15.4	-29.93	477.1	-145.5	398.2	371.8	26.48	15.040	
5,400.0	5,385.0	5,354.0	5,310.6	10.8	15.8	-31.70	495.2	-150.4	394.5	367.4	27.09	14.562	
5,500.0	5,481.5	5,453.1	5,408.0	11.0	16.2	-33.51	513.3	-155.3	391.1	363.4	27.70	14.121	
5,600.0	5,578.0	5,552.3	5,505.4	11.3	16.6	-35.34	531.4	-160.2	388.2	359.9	28.30	13.717	
5,700.0	5,674.5	5,651.5	5,602.8	11.5	17.0	-37.19	549.5	-165.2	385.6	356.8	28.89	13.349	
5,800.0	5,771.0	5,750.6	5,700.1	11.8	17.5	-39.07	567.6	-170.1	383.5	354.1	29.46	13.017	
5,900.0	5,867.5	5,849.8	5,797.5	12.1	17.9	-40.97	585.6	-175.0	381.8	351.8	30.02	12.720	
6,000.0	5,964.0	5,949.0	5,894.9	12.4	18.3	-42.88	603.7	-179.9	380.5	350.0	30.55	12.457	
6,100.0	6,060.5	6,048.1	5,992.3	12.7	18.7	-44.81	621.8	-184.8	379.7	348.6	31.06	12.226	
6,200.0	6,157.0	6,147.3	6,089.7	13.1	19.2	-46.74	639.9	-189.8	379.3	347.8	31.53	12.028	
6,242.6	6,198.2	6,189.5	6,131.1	13.2	19.3	-47.56	647.6	-191.9	379.2	347.5	31.73	11.953	
6,300.0	6,253.5	6,246.4	6,187.0	13.4	19.6	-48.67	658.0	-194.7	379.3	347.3	31.98	11.861	
6,400.0	6,350.1	6,345.6	6,284.4	13.8	20.0	-50.60	676.1	-199.6	379.8	347.4	32.40	11.722	
6,500.0	6,446.6	6,444.8	6,381.8	14.1	20.4	-52.52	694.2	-204.5	380.7	347.9	32.78	11.613	
6,600.0	6,543.1	6,543.9	6,479.2	14.5	20.9	-54.43	712.3	-209.5	382.0	348.9	33.13	11.530	
6,700.0	6,639.6	6,643.1	6,576.5	14.8	21.3	-56.32	730.4	-214.4	383.8	350.3	33.45	11.473	
6,800.0	6,736.1	6,742.3	6,673.9	15.2	21.7	-58.20	748.5	-219.3	386.0	352.3	33.74	11.440	
6,900.0	6,832.6	6,841.4	6,771.3	15.6	22.2	-60.05	766.5	-224.2	388.6	354.6	34.00	11.431	
7,000.0	6,929.1	6,940.6	6,868.7	16.0	22.6	-61.88	784.6	-229.2	391.6	357.4	34.22	11.444	
7,100.0	7,025.6	7,042.7	6,969.0	16.4	23.1	-63.75	803.0	-234.2	394.8	360.4	34.43	11.468	
7,200.0	7,122.1	7,147.5	7,072.2	16.8	23.5	-65.79	820.3	-238.9	397.2	362.6	34.58	11.487	
7,300.0	7,218.7	7,251.9	7,175.4	17.2	24.0	-67.98	835.7	-243.1	398.7	364.1	34.63	11.514	
7,400.0	7,315.2	7,356.1	7,278.6	17.6	24.4	-70.32	849.3	-246.8	399.4	364.8	34.57	11.552	
7,500.0	7,411.7	7,459.8	7,381.6	18.0	24.8	-72.83	861.0	-249.9	399.4	365.0	34.41	11.608	
7,600.0	7,508.2	7,563.0	7,484.3	18.5	25.2	-75.51	870.8	-252.6	399.0	364.9	34.15	11.686	
7,700.0	7,604.7	7,665.7	7,586.7	18.9	25.6	-78.39	878.9	-254.8	398.3	364.5	33.78	11.793	
7,800.0	7,701.2	7,767.8	7,688.6	19.3	26.0	-81.47	885.1	-256.5	397.5	364.2	33.31	11.934	
7,900.0	7,797.7	7,869.2	7,789.9	19.8	26.3	-84.74	889.6	-257.7	396.9	364.2	32.77	12.112	
7,983.4	7,878.2	7,953.2	7,873.8	20.1	26.5	-87.61	891.9	-258.4	396.7	364.5	32.28	12.289	
8,000.0	7,894.2	7,969.9	7,890.5	20.2	26.6	-88.20	892.3	-258.5	396.7	364.6	32.18	12.327	
8,100.0	7,990.7	8,069.8	7,990.4	20.6	26.8	-91.85	893.3	-258.7	397.3	365.7	31.57	12.583	
8,200.0	8,087.2	8,166.6	8,087.2	21.1	26.8	-95.49	893.3	-258.7	399.0	368.0	31.04	12.852	
8,300.0	8,183.8	8,263.1	8,183.8	21.5	26.9	-99.07	893.3	-258.7	402.4	371.7	30.70	13.108	
8,400.0	8,280.3	8,359.7	8,280.3	22.0	26.9	-102.59	893.3	-258.7	407.5	377.0	30.56	13.335	
8,420.1	8,299.6	8,379.0	8,299.6	22.0	26.9	-103.29	893.3	-258.7	408.7	378.2	30.55	13.380	
8,500.0	8,376.9	8,456.3	8,376.9	22.4	27.0	-106.00	893.3	-258.7	414.1	383.5	30.62	13.524	
8,600.0	8,474.0	8,553.4	8,474.0	22.8	27.0	-109.13	893.3	-258.7	421.5	390.6	30.88	13.652	
8,700.0	8,571.5	8,650.9	8,571.5	23.3	27.1	-111.95	893.3	-258.7	429.5	398.2	31.28	13.732	
8,800.0	8,669.3	8,748.7	8,669.3	23.7	27.1	-114.48	893.3	-258.7	437.8	406.0	31.78	13.775	
8,900.0	8,767.5	8,846.9	8,767.5	24.1	27.1	-116.73	893.3	-258.7	446.1	413.7	32.35	13.789	
9,000.0	8,866.1	8,945.4	8,866.1	24.6	27.2	-118.71	893.3	-258.7	454.1	421.2	32.95	13.783	
9,100.0	8,964.9	9,044.2	8,964.9	25.0	27.2	-120.45	893.3	-258.7	461.8	428.3	33.56	13.762	
9,200.0	9,063.9	9,143.3	9,063.9	25.4	27.3	-121.94	893.3	-258.7	469.0	434.8	34.16	13.729	
9,300.0	9,163.2	9,242.6	9,163.2	25.8	27.3	-123.22	893.3	-258.7	475.5	440.7	34.74	13.687	
9,400.0	9,262.7	9,342.0	9,262.7	26.2	27.4	-124.28	893.3	-258.7	481.2	445.9	35.28	13.637	
9,500.0	9,362.3	9,441.7	9,362.3	26.5	27.4	-125.15	893.3	-258.7	486.0	450.2	35.79	13.580	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
9,600.0	9,462.1	9,541.4	9,462.1	26.9	27.5	-125.82	893.3	-258.7	490.0	453.7	36.25	13.517	
9,700.0	9,561.9	9,641.3	9,561.9	27.2	27.5	-126.32	893.3	-258.7	492.9	456.3	36.65	13.449	
9,800.0	9,661.9	9,741.3	9,661.9	27.5	27.6	-126.64	893.3	-258.7	494.9	457.9	36.99	13.377	
9,900.0	9,761.9	9,841.3	9,761.9	27.7	27.6	-126.79	893.3	-258.7	495.8	458.5	37.27	13.305	
9,938.1	9,800.0	9,879.4	9,800.0	27.8	27.6	-114.64	893.3	-258.7	495.9	458.6	37.32	13.286	
10,000.0	9,861.9	9,941.3	9,861.9	27.8	27.7	-114.64	893.3	-258.7	495.9	458.5	37.40	13.260	
10,100.0	9,961.9	10,041.3	9,961.9	27.9	27.7	-114.64	893.3	-258.7	495.9	458.3	37.53	13.213	
10,200.0	10,061.9	10,141.3	10,061.9	27.9	27.8	-114.64	893.3	-258.7	495.9	458.2	37.66	13.166	
10,300.0	10,161.9	10,241.3	10,161.9	28.0	27.8	-114.64	893.3	-258.7	495.9	458.1	37.80	13.119	
10,400.0	10,261.9	10,341.3	10,261.9	28.0	27.9	-114.64	893.3	-258.7	495.9	457.9	37.93	13.073	
10,500.0	10,361.9	10,441.3	10,361.9	28.0	27.9	-114.64	893.3	-258.7	495.9	457.8	38.07	13.027	
10,600.0	10,461.9	10,541.3	10,461.9	28.1	28.0	-114.64	893.3	-258.7	495.9	457.7	38.20	12.981	
10,700.0	10,561.9	10,641.3	10,561.9	28.1	28.0	-114.64	893.3	-258.7	495.9	457.5	38.34	12.935	
10,800.0	10,661.9	10,741.3	10,661.9	28.2	28.1	-114.64	893.3	-258.7	495.9	457.4	38.47	12.890	
10,900.0	10,761.9	10,841.3	10,761.9	28.2	28.1	-114.64	893.3	-258.7	495.9	457.3	38.61	12.845	
11,000.0	10,861.9	10,941.3	10,861.9	28.3	28.2	-114.64	893.3	-258.7	495.9	457.1	38.74	12.800	
11,100.0	10,961.9	11,041.3	10,961.9	28.3	28.2	-114.64	893.3	-258.7	495.9	457.0	38.88	12.755	
11,200.0	11,061.9	11,141.3	11,061.9	28.4	28.3	-114.64	893.3	-258.7	495.9	456.9	39.01	12.711	
11,300.0	11,161.9	11,241.3	11,161.9	28.4	28.3	-114.64	893.3	-258.7	495.9	456.7	39.15	12.666	
11,400.0	11,261.9	11,341.3	11,261.9	28.5	28.4	-114.64	893.3	-258.7	495.9	456.6	39.29	12.622	
11,500.0	11,361.9	11,441.3	11,361.9	28.5	28.4	-114.64	893.3	-258.7	495.9	456.5	39.42	12.579	
11,600.0	11,461.9	11,541.3	11,461.9	28.6	28.5	-114.64	893.3	-258.7	495.9	456.3	39.56	12.535	
11,614.4	11,476.3	11,555.7	11,476.3	28.6	28.5	-114.64	893.3	-258.7	495.9	456.3	39.58	12.529	
11,700.0	11,561.9	11,639.4	11,560.0	28.6	28.5	-114.64	893.3	-258.7	495.9	456.2	39.67	12.500	
11,800.0	11,661.9	11,708.9	11,629.3	28.7	28.3	-115.24	887.6	-258.7	499.3	459.6	39.72	12.571	
11,900.0	11,761.9	11,775.0	11,693.6	28.7	28.1	-116.75	872.9	-258.6	509.2	469.1	40.08	12.703	
12,000.0	11,861.9	11,836.9	11,751.5	28.8	27.8	-118.91	851.2	-258.4	526.2	485.5	40.73	12.920	
12,100.0	11,961.9	11,891.9	11,800.3	28.8	27.6	-121.34	825.8	-258.2	551.3	509.8	41.58	13.259	
12,155.6	12,017.5	11,919.7	11,823.7	28.9	27.5	-122.71	810.9	-258.1	569.0	526.8	42.11	13.510	
12,175.0	12,036.9	11,925.0	11,828.1	28.8	27.5	56.58	807.9	-258.1	575.5	533.3	42.27	13.617	
12,200.0	12,061.8	11,941.0	11,841.1	28.8	27.4	54.96	798.5	-258.0	583.8	541.4	42.46	13.749	
12,225.0	12,086.6	11,950.0	11,848.3	28.7	27.4	53.73	793.1	-258.0	592.0	549.4	42.61	13.891	
12,250.0	12,111.3	11,965.1	11,860.0	28.6	27.3	52.34	783.6	-257.9	599.9	557.1	42.77	14.027	
12,275.0	12,135.6	11,975.0	11,867.6	28.5	27.3	51.22	777.3	-257.8	607.5	564.6	42.89	14.164	
12,300.0	12,159.7	11,989.2	11,878.2	28.4	27.2	50.03	767.8	-257.8	614.8	571.8	43.01	14.296	
12,325.0	12,183.3	12,000.0	11,886.1	28.3	27.2	49.03	760.4	-257.7	621.9	578.7	43.11	14.424	
12,350.0	12,206.5	12,013.4	11,895.6	28.2	27.1	48.03	751.0	-257.6	628.5	585.3	43.21	14.546	
12,375.0	12,229.2	12,025.0	11,903.7	28.1	27.1	47.16	742.7	-257.6	634.9	591.6	43.31	14.660	
12,400.0	12,251.3	12,037.6	11,912.2	28.0	27.0	46.33	733.3	-257.5	640.8	597.4	43.39	14.767	
12,425.0	12,272.8	12,050.0	11,920.3	27.9	27.0	45.59	724.0	-257.4	646.3	602.9	43.48	14.864	
12,450.0	12,293.6	12,061.9	11,927.9	27.8	26.9	44.92	714.8	-257.3	651.5	607.9	43.57	14.951	
12,475.0	12,313.6	12,075.0	11,935.9	27.7	26.9	44.31	704.5	-257.3	656.1	612.5	43.66	15.029	
12,500.0	12,332.8	12,086.2	11,942.6	27.6	26.9	43.79	695.5	-257.2	660.4	616.6	43.76	15.092	
12,525.0	12,351.1	12,100.0	11,950.5	27.5	26.8	43.30	684.2	-257.1	664.1	620.3	43.84	15.148	
12,550.0	12,368.5	12,110.4	11,956.3	27.4	26.8	42.91	675.5	-257.0	667.4	623.5	43.96	15.184	
12,575.0	12,385.0	12,125.0	11,964.0	27.3	26.8	42.54	663.2	-256.9	670.3	626.2	44.05	15.217	
12,600.0	12,400.4	12,134.7	11,969.0	27.2	26.7	42.28	654.8	-256.9	672.6	628.4	44.18	15.224	
12,625.0	12,414.8	12,150.0	11,976.4	27.1	26.7	42.04	641.4	-256.8	674.5	630.2	44.27	15.235	
12,650.0	12,428.2	12,159.0	11,980.6	27.0	26.7	41.89	633.4	-256.7	675.8	631.4	44.43	15.211	
12,675.0	12,440.3	12,175.0	11,987.6	27.0	26.6	41.78	619.1	-256.6	676.7	632.2	44.52	15.199	
12,700.0	12,451.4	12,183.3	11,991.1	26.9	26.6	41.74	611.5	-256.5	677.1	632.3	44.70	15.146	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											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)		
12,725.0	12,461.2	12,200.0	11,997.7	26.8	26.6	41.76	596.2	-256.4	676.9	632.1	44.80	15.112
12,750.0	12,469.8	12,207.7	12,000.5	26.8	26.6	41.83	589.1	-256.4	676.3	631.3	45.00	15.028
12,775.0	12,477.2	12,225.0	12,006.5	26.7	26.5	41.98	572.8	-256.2	675.2	630.1	45.09	14.975
12,800.0	12,483.3	12,232.0	12,008.8	26.7	26.5	42.15	566.2	-256.2	673.5	628.2	45.31	14.863
12,825.0	12,488.2	12,250.0	12,014.1	26.7	26.5	42.44	549.0	-256.0	671.4	626.0	45.39	14.792
12,850.0	12,491.7	12,250.0	12,014.1	26.7	26.5	42.65	549.0	-256.0	668.8	623.0	45.73	14.626
12,875.0	12,494.0	12,268.4	12,018.9	26.6	26.5	43.08	531.3	-255.9	665.6	619.8	45.79	14.535
12,900.0	12,494.9	12,275.0	12,020.5	26.6	26.5	43.44	524.8	-255.8	662.1	616.0	46.04	14.381
12,905.6	12,495.0	12,283.3	12,022.3	26.6	26.4	43.62	516.8	-255.8	661.1	615.2	45.99	14.377
13,000.0	12,495.0	12,325.0	12,029.3	26.6	26.4	44.04	475.7	-255.5	649.8	603.0	46.79	13.886
13,100.0	12,495.0	12,380.5	12,033.0	26.6	26.4	44.26	420.3	-255.0	645.0	597.2	47.80	13.494
13,200.0	12,495.0	12,476.1	12,033.1	26.6	26.4	44.24	324.7	-254.3	644.8	596.4	48.36	13.332
13,300.0	12,495.0	12,576.1	12,033.1	26.6	26.4	44.22	224.7	-253.5	644.5	595.6	48.91	13.178
13,400.0	12,495.0	12,676.0	12,033.1	26.6	26.4	44.20	124.8	-252.8	644.3	594.8	49.51	13.013
13,500.0	12,495.0	12,776.0	12,033.1	26.6	26.4	44.19	24.9	-252.0	644.1	594.0	50.17	12.839
13,600.0	12,495.0	12,875.9	12,033.1	26.6	26.5	44.17	-75.1	-251.3	644.0	593.1	50.88	12.657
13,700.0	12,495.0	12,975.9	12,033.1	26.7	26.5	44.15	-175.0	-250.6	643.8	592.1	51.63	12.468
13,800.0	12,495.0	13,075.8	12,033.1	26.7	26.5	44.14	-275.0	-249.8	643.6	591.2	52.43	12.274
13,900.0	12,495.0	13,175.8	12,033.1	26.7	26.6	44.12	-374.9	-249.1	643.4	590.2	53.28	12.076
14,000.0	12,495.0	13,275.7	12,033.1	26.7	26.6	44.11	-474.9	-248.5	643.3	589.1	54.17	11.875
14,100.0	12,495.0	13,375.7	12,033.1	26.8	26.7	44.09	-574.8	-247.8	643.1	588.0	55.10	11.673
14,200.0	12,495.0	13,475.6	12,033.1	26.8	26.8	44.08	-674.8	-247.1	643.0	586.9	56.06	11.469
14,300.0	12,495.0	13,575.6	12,033.1	26.9	26.8	44.07	-774.7	-246.5	642.8	585.8	57.07	11.265
14,400.0	12,495.0	13,675.5	12,033.1	27.0	27.0	44.06	-874.7	-245.8	642.7	584.6	58.10	11.062
14,500.0	12,495.0	13,775.5	12,033.1	27.1	27.1	44.04	-974.6	-245.2	642.6	583.4	59.17	10.860
14,600.0	12,495.0	13,875.4	12,033.1	27.3	27.3	44.03	-1,074.6	-244.6	642.5	582.2	60.27	10.660
14,700.0	12,495.0	13,975.4	12,033.1	27.6	27.5	44.02	-1,174.5	-244.0	642.4	581.0	61.40	10.463
14,800.0	12,495.0	14,075.3	12,033.1	28.1	27.8	44.02	-1,274.4	-243.4	642.3	579.7	62.56	10.268
14,900.0	12,495.0	14,175.3	12,033.1	28.6	28.2	44.01	-1,374.4	-242.8	642.2	578.5	63.74	10.076
15,000.0	12,495.0	14,275.2	12,033.1	29.3	28.6	44.00	-1,474.3	-242.2	642.1	577.2	64.94	9.888
15,100.0	12,495.0	14,375.2	12,033.1	30.0	29.1	43.99	-1,574.3	-241.6	642.1	575.9	66.17	9.703
15,200.0	12,495.0	14,475.1	12,033.1	30.7	29.7	43.99	-1,674.2	-241.1	642.0	574.6	67.42	9.522
15,300.0	12,495.0	14,575.0	12,033.1	31.4	30.3	43.98	-1,774.2	-240.6	642.0	573.3	68.69	9.345
15,400.0	12,495.0	14,675.0	12,033.1	32.2	31.0	43.98	-1,874.1	-240.0	641.9	571.9	69.99	9.172
15,500.0	12,495.0	14,774.9	12,033.1	33.0	31.7	43.98	-1,974.1	-239.5	641.9	570.6	71.30	9.003
15,600.0	12,495.0	14,874.9	12,033.1	33.8	32.5	43.97	-2,074.0	-239.0	641.8	569.2	72.62	8.838
15,700.0	12,495.0	14,974.8	12,033.1	34.6	33.2	43.97	-2,174.0	-238.5	641.8	567.9	73.97	8.677
15,800.0	12,495.0	15,074.8	12,033.1	35.4	34.0	43.97	-2,273.9	-238.0	641.8	566.5	75.32	8.521
15,900.0	12,495.0	15,174.7	12,033.1	36.2	34.8	43.97	-2,373.9	-237.6	641.8	565.1	76.70	8.368
15,917.8	12,495.0	15,192.5	12,033.1	36.3	34.9	43.97	-2,391.7	-237.5	641.8	564.9	76.94	8.341
16,000.0	12,495.0	15,274.7	12,033.1	37.0	35.6	43.97	-2,473.8	-237.1	641.8	563.7	78.09	8.219
16,100.0	12,495.0	15,374.6	12,033.1	37.8	36.4	43.97	-2,573.8	-236.7	641.8	562.3	79.49	8.075
16,200.0	12,495.0	15,474.6	12,033.1	38.7	37.2	43.97	-2,673.7	-236.2	641.8	560.9	80.90	7.934
16,300.0	12,495.0	15,574.5	12,033.1	39.5	38.0	43.98	-2,773.7	-235.8	641.9	559.5	82.33	7.797
16,400.0	12,495.0	15,674.5	12,033.1	40.4	38.9	43.98	-2,873.6	-235.4	641.9	558.1	83.76	7.663
16,500.0	12,495.0	15,774.4	12,033.1	41.2	39.7	43.98	-2,973.6	-235.0	641.9	556.7	85.21	7.534
16,600.0	12,495.0	15,874.4	12,033.1	42.1	40.6	43.99	-3,073.5	-234.6	642.0	555.3	86.67	7.408
16,700.0	12,495.0	15,974.3	12,033.1	43.0	41.4	43.99	-3,173.4	-234.2	642.0	553.9	88.13	7.285
16,800.0	12,495.0	16,074.3	12,033.1	43.8	42.3	44.00	-3,273.4	-233.9	642.1	552.5	89.61	7.166
16,900.0	12,495.0	16,174.3	12,033.1	44.7	43.1	44.01	-3,373.4	-233.5	642.2	551.1	91.09	7.050
17,000.0	12,495.0	16,274.3	12,033.1	45.6	44.0	44.01	-3,473.4	-233.2	642.3	549.7	92.58	6.937

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
17,100.0	12,495.0	16,374.3	12,033.1	46.5	44.9	44.02	-3,573.4	-232.8	642.3	548.3	94.08	6.827	
17,200.0	12,495.0	16,474.3	12,033.1	47.4	45.8	44.03	-3,673.4	-232.5	642.4	546.8	95.59	6.720	
17,300.0	12,495.0	16,574.3	12,033.1	48.3	46.7	44.03	-3,773.4	-232.1	642.5	545.4	97.11	6.616	
17,400.0	12,495.0	16,674.3	12,033.1	49.1	47.5	44.04	-3,873.4	-231.7	642.6	543.9	98.63	6.515	
17,500.0	12,495.0	16,774.3	12,033.1	50.0	48.4	44.05	-3,973.4	-231.4	642.6	542.5	100.16	6.416	
17,600.0	12,495.0	16,874.3	12,033.1	50.9	49.3	44.05	-4,073.4	-231.0	642.7	541.0	101.69	6.320	
17,700.0	12,495.0	16,974.3	12,033.1	51.8	50.2	44.06	-4,173.4	-230.7	642.8	539.5	103.24	6.226	
17,800.0	12,495.0	17,074.3	12,033.1	52.7	51.1	44.07	-4,273.4	-230.3	642.9	538.1	104.78	6.135	
17,900.0	12,495.0	17,174.3	12,033.1	53.6	52.0	44.07	-4,373.4	-230.0	642.9	536.6	106.34	6.046	
18,000.0	12,495.0	17,274.3	12,033.1	54.5	52.9	44.08	-4,473.4	-229.6	643.0	535.1	107.89	5.960	
18,100.0	12,495.0	17,374.3	12,033.1	55.5	53.8	44.09	-4,573.4	-229.3	643.1	533.6	109.46	5.875	
18,200.0	12,495.0	17,474.3	12,033.1	56.4	54.7	44.10	-4,673.4	-228.9	643.2	532.1	111.03	5.793	
18,300.0	12,495.0	17,574.3	12,033.1	57.3	55.6	44.10	-4,773.4	-228.6	643.2	530.6	112.60	5.713	
18,400.0	12,495.0	17,674.3	12,033.1	58.2	56.5	44.11	-4,873.4	-228.2	643.3	529.1	114.18	5.634	
18,500.0	12,495.0	17,774.3	12,033.1	59.1	57.5	44.12	-4,973.4	-227.9	643.4	527.6	115.76	5.558	
18,600.0	12,495.0	17,874.3	12,033.1	60.0	58.4	44.12	-5,073.4	-227.5	643.5	526.1	117.35	5.483	
18,700.0	12,495.0	17,974.3	12,033.1	60.9	59.3	44.13	-5,173.4	-227.2	643.5	524.6	118.94	5.411	
18,800.0	12,495.0	18,074.3	12,033.1	61.9	60.2	44.14	-5,273.4	-226.8	643.6	523.1	120.53	5.340	
18,900.0	12,495.0	18,174.3	12,033.1	62.8	61.1	44.14	-5,373.4	-226.4	643.7	521.6	122.13	5.271	
19,000.0	12,495.0	18,274.3	12,033.1	63.7	62.0	44.15	-5,473.4	-226.1	643.8	520.0	123.73	5.203	
19,100.0	12,495.0	18,374.3	12,033.1	64.6	63.0	44.16	-5,573.4	-225.7	643.8	518.5	125.33	5.137	
19,200.0	12,495.0	18,474.3	12,033.1	65.5	63.9	44.16	-5,673.4	-225.4	643.9	517.0	126.94	5.072	
19,300.0	12,495.0	18,574.3	12,033.1	66.5	64.8	44.17	-5,773.4	-225.0	644.0	515.4	128.55	5.009	
19,400.0	12,495.0	18,674.3	12,033.1	67.4	65.7	44.18	-5,873.4	-224.7	644.1	513.9	130.17	4.948	
19,500.0	12,495.0	18,774.3	12,033.1	68.3	66.7	44.19	-5,973.3	-224.3	644.1	512.3	131.79	4.888	
19,600.0	12,495.0	18,874.3	12,033.1	69.3	67.6	44.19	-6,073.3	-224.0	644.2	510.8	133.41	4.829	
19,700.0	12,495.0	18,974.3	12,033.1	70.2	68.5	44.20	-6,173.3	-223.6	644.3	509.3	135.03	4.771	
19,800.0	12,495.0	19,074.3	12,033.1	71.1	69.4	44.21	-6,273.3	-223.3	644.4	507.7	136.65	4.715	
19,900.0	12,495.0	19,174.3	12,033.1	72.0	70.4	44.21	-6,373.3	-222.9	644.4	506.1	138.28	4.660	
20,000.0	12,495.0	19,274.3	12,033.1	73.0	71.3	44.22	-6,473.3	-222.6	644.5	504.6	139.91	4.606	
20,100.0	12,495.0	19,374.3	12,033.1	73.9	72.2	44.23	-6,573.3	-222.2	644.6	503.0	141.55	4.554	
20,200.0	12,495.0	19,474.3	12,033.1	74.8	73.2	44.23	-6,673.3	-221.8	644.7	501.5	143.18	4.502	
20,300.0	12,495.0	19,574.3	12,033.1	75.8	74.1	44.24	-6,773.3	-221.5	644.7	499.9	144.82	4.452	
20,400.0	12,495.0	19,674.3	12,033.1	76.7	75.0	44.25	-6,873.3	-221.1	644.8	498.3	146.46	4.403	
20,466.9	12,495.0	19,741.1	12,033.1	77.3	75.7	44.25	-6,940.2	-220.9	644.9	497.3	147.55	4.370	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.1	3.0	0.0	-54.18	23.4	-32.4	40.0				
100.0	100.0	99.9	100.0	3.1	0.8	-54.18	23.4	-32.4	40.0	35.1	4.95	8.088	
200.0	200.0	199.9	200.0	3.3	1.4	-54.18	23.4	-32.4	40.0	34.5	5.55	7.211	
300.0	300.0	299.9	300.0	3.5	1.9	-54.18	23.4	-32.4	40.0	33.9	6.09	6.569	
400.0	400.0	399.9	400.0	3.8	2.3	-54.18	23.4	-32.4	40.0	33.4	6.59	6.072	
500.0	500.0	499.9	500.0	4.0	2.6	-54.18	23.4	-32.4	40.0	33.0	7.05	5.672	
600.0	600.0	599.9	600.0	4.1	2.9	-54.18	23.4	-32.4	40.0	32.5	7.49	5.341	
700.0	700.0	699.9	700.0	4.3	3.1	-54.18	23.4	-32.4	40.0	32.1	7.91	5.060	
800.0	800.0	799.9	800.0	4.5	3.4	-54.18	23.4	-32.4	40.0	31.7	8.30	4.819	
900.0	900.0	899.9	900.0	4.7	3.6	-54.18	23.4	-32.4	40.0	31.3	8.68	4.607	
1,000.0	1,000.0	999.9	1,000.0	4.8	3.8	-54.18	23.4	-32.4	40.0	31.0	9.05	4.421	
1,100.0	1,100.0	1,099.9	1,100.0	5.0	4.0	-54.18	23.4	-32.4	40.0	30.6	9.40	4.254	
1,200.0	1,200.0	1,199.9	1,200.0	5.2	4.2	-54.18	23.4	-32.4	40.0	30.3	9.75	4.104	
1,300.0	1,300.0	1,299.9	1,300.0	5.3	4.4	-54.18	23.4	-32.4	40.0	29.9	10.08	3.968	
1,400.0	1,400.0	1,399.9	1,400.0	5.5	4.6	-54.18	23.4	-32.4	40.0	29.6	10.41	3.844	
1,500.0	1,500.0	1,499.9	1,500.0	5.6	4.7	-54.18	23.4	-32.4	40.0	29.3	10.73	3.730	
1,600.0	1,600.0	1,599.9	1,600.0	5.8	4.9	-54.18	23.4	-32.4	40.0	29.0	11.04	3.625	
1,700.0	1,700.0	1,699.9	1,700.0	5.9	5.1	-54.18	23.4	-32.4	40.0	28.7	11.34	3.528	
1,800.0	1,800.0	1,799.9	1,800.0	6.0	5.2	-54.18	23.4	-32.4	40.0	28.4	11.64	3.437	
1,900.0	1,900.0	1,899.9	1,900.0	6.2	5.4	-54.18	23.4	-32.4	40.0	28.1	11.93	3.353	
2,000.0	2,000.0	1,999.9	2,000.0	6.3	5.6	-54.18	23.4	-32.4	40.0	27.8	12.22	3.274 CC	
2,100.0	2,100.0	2,099.8	2,099.9	6.5	5.7	-52.33	24.5	-31.8	40.2	27.7	12.50	3.213	
2,200.0	2,200.0	2,199.5	2,199.5	6.6	5.9	-46.90	27.9	-29.8	40.9	28.1	12.78	3.198	
2,300.0	2,300.0	2,299.0	2,298.8	6.7	6.2	-38.41	33.5	-26.6	42.8	29.8	13.06	3.278	
2,400.0	2,400.0	2,397.6	2,397.0	6.8	6.3	-28.21	41.6	-22.3	47.3	34.0	13.30	3.554	
2,500.0	2,500.0	2,495.3	2,493.9	7.0	6.6	-18.45	52.7	-17.6	55.9	42.3	13.64	4.102	
2,600.0	2,600.0	2,592.1	2,589.5	7.1	6.9	-10.63	67.1	-12.6	69.0	55.0	14.02	4.926	
2,700.0	2,700.0	2,687.8	2,683.4	7.2	7.2	-4.93	84.4	-7.3	86.3	71.9	14.41	5.987	
2,800.0	2,800.0	2,782.1	2,775.5	7.4	7.5	-0.93	104.5	-1.7	107.3	92.5	14.82	7.243	
2,900.0	2,900.0	2,875.6	2,865.9	7.5	7.8	1.86	127.3	4.1	131.9	116.7	15.17	8.694	
3,000.0	3,000.0	2,972.0	2,958.9	7.6	8.1	3.87	152.0	10.3	157.8	142.2	15.61	10.108	
3,100.0	3,100.0	3,068.5	3,051.9	7.7	8.4	5.32	176.8	16.4	183.9	167.8	16.09	11.430	
3,200.0	3,200.0	3,164.9	3,145.0	7.8	8.8	6.40	201.5	22.6	210.1	193.5	16.58	12.669	
3,300.0	3,300.0	3,261.4	3,238.0	8.0	9.1	7.24	226.2	28.8	236.3	219.2	17.09	13.827	
3,400.0	3,400.0	3,357.8	3,331.0	8.1	9.5	7.92	250.9	34.9	262.6	245.0	17.61	14.910	
3,500.0	3,500.0	3,454.3	3,424.0	8.2	9.9	8.47	275.7	41.1	288.9	270.7	18.14	15.921	
3,600.0	3,600.0	3,550.7	3,517.1	8.3	10.2	8.93	300.4	47.2	315.2	296.5	18.69	16.865	
3,700.0	3,700.0	3,647.2	3,610.1	8.4	10.6	9.32	325.1	53.4	341.5	322.3	19.24	17.746	
3,800.0	3,800.0	3,743.6	3,703.1	8.5	11.0	9.66	349.8	59.5	367.8	348.0	19.81	18.569	
3,900.0	3,900.0	3,840.1	3,796.1	8.7	11.4	9.94	374.5	65.7	394.2	373.8	20.38	19.339	
4,000.0	4,000.0	3,936.5	3,889.1	8.8	11.9	10.20	399.3	71.8	420.5	399.6	20.96	20.059	
4,100.0	4,100.0	4,032.7	3,981.9	8.9	12.3	125.22	423.9	78.0	447.6	426.1	21.55	20.776	
4,200.0	4,199.9	4,128.5	4,074.3	9.0	12.7	125.44	448.5	84.1	476.2	454.1	22.12	21.525	
4,300.0	4,299.7	4,223.6	4,166.0	9.1	13.1	125.83	472.8	90.1	506.3	483.6	22.71	22.292	
4,333.3	4,332.9	4,255.2	4,196.5	9.1	13.2	125.99	480.9	92.2	516.7	493.8	22.90	22.567	
4,400.0	4,399.4	4,318.5	4,257.6	9.2	13.5	114.35	497.2	96.2	536.9	513.6	23.28	23.066	
4,500.0	4,499.2	4,414.4	4,350.0	9.3	14.0	86.20	521.7	102.3	564.6	540.7	23.90	23.622	
4,600.0	4,599.0	4,511.2	4,443.4	9.5	14.4	53.64	546.6	108.5	589.1	564.5	24.54	24.005	
4,700.0	4,698.7	4,608.8	4,537.6	9.6	14.8	32.17	571.6	114.7	610.2	585.1	25.17	24.244	
4,800.0	4,798.3	4,707.1	4,632.4	9.8	15.3	20.46	596.8	121.0	628.1	602.2	25.82	24.324	
4,900.0	4,897.4	4,806.0	4,727.7	9.9	15.7	13.74	622.1	127.3	642.5	616.0	26.49	24.252	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
5,000.0	4,996.2	4,905.3	4,823.6	10.0	16.2	9.51	647.6	133.6	653.6	626.4	27.19	24.039	
5,100.0	5,094.3	5,005.0	4,919.7	10.2	16.7	6.64	673.1	140.0	661.2	633.3	27.90	23.698	
5,200.0	5,191.8	5,108.9	5,019.9	10.4	17.1	4.56	699.7	146.6	665.4	636.7	28.65	23.226	
5,264.5	5,254.1	5,181.8	5,090.5	10.5	17.5	3.50	717.5	151.0	665.5	636.3	29.17	22.815	
5,300.0	5,288.4	5,222.0	5,129.5	10.6	17.7	3.53	727.0	153.4	664.8	635.3	29.45	22.577	
5,400.0	5,385.0	5,335.1	5,239.5	10.8	18.2	3.62	752.2	159.7	661.5	631.2	30.25	21.864	
5,500.0	5,481.5	5,447.9	5,349.8	11.0	18.7	3.72	775.2	165.4	656.2	625.2	31.06	21.131	
5,600.0	5,578.0	5,560.4	5,460.3	11.3	19.2	3.82	796.1	170.6	649.0	617.2	31.85	20.380	
5,700.0	5,674.5	5,672.6	5,570.8	11.5	19.7	3.94	814.8	175.2	639.9	607.2	32.62	19.616	
5,800.0	5,771.0	5,784.3	5,681.2	11.8	20.2	4.07	831.3	179.4	628.8	595.4	33.38	18.839	
5,900.0	5,867.5	5,895.6	5,791.4	12.1	20.6	4.21	845.7	182.9	615.7	581.6	34.11	18.050	
6,000.0	5,964.0	6,006.2	5,901.3	12.4	21.1	4.36	858.0	186.0	600.8	566.0	34.82	17.253	
6,100.0	6,060.5	6,116.1	6,010.7	12.7	21.5	4.54	868.1	188.5	583.9	548.4	35.50	16.448	
6,200.0	6,157.0	6,225.2	6,119.5	13.1	21.9	4.73	876.1	190.5	565.2	529.1	36.15	15.635	
6,300.0	6,253.5	6,333.5	6,227.7	13.4	22.3	4.95	882.1	192.0	544.7	507.9	36.76	14.815	
6,400.0	6,350.1	6,441.0	6,335.0	13.8	22.6	5.20	886.1	193.0	522.3	485.0	37.33	13.992	
6,500.0	6,446.6	6,547.4	6,441.5	14.1	22.9	5.49	888.1	193.5	498.1	460.3	37.78	13.183	
6,600.0	6,543.1	6,649.0	6,543.1	14.5	23.0	5.81	888.4	193.6	472.3	434.2	38.12	12.391	
6,700.0	6,639.6	6,745.6	6,639.6	14.8	23.0	6.15	888.4	193.6	446.2	407.8	38.43	11.611	
6,800.0	6,736.1	6,842.1	6,736.1	15.2	23.1	6.53	888.4	193.6	420.2	381.4	38.75	10.843	
6,900.0	6,832.6	6,938.6	6,832.6	15.6	23.1	6.96	888.4	193.6	394.2	355.1	39.08	10.086	
7,000.0	6,929.1	7,035.1	6,929.1	16.0	23.2	7.45	888.4	193.6	368.2	328.8	39.42	9.341	
7,100.0	7,025.6	7,131.6	7,025.6	16.4	23.2	8.02	888.4	193.6	342.2	302.5	39.75	8.609	
7,200.0	7,122.1	7,228.1	7,122.1	16.8	23.3	8.68	888.4	193.6	316.3	276.2	40.09	7.890	
7,300.0	7,218.7	7,324.6	7,218.7	17.2	23.3	9.46	888.4	193.6	290.4	250.0	40.42	7.185	
7,400.0	7,315.2	7,421.1	7,315.2	17.6	23.4	10.40	888.4	193.6	264.6	223.9	40.74	6.495	
7,500.0	7,411.7	7,517.6	7,411.7	18.0	23.4	11.53	888.4	193.6	238.9	197.8	41.05	5.819	
7,600.0	7,508.2	7,614.1	7,508.2	18.5	23.5	12.93	888.4	193.6	213.2	171.9	41.32	5.160	
7,700.0	7,604.7	7,710.7	7,604.7	18.9	23.5	14.72	888.4	193.6	187.7	146.2	41.55	4.518	
7,800.0	7,701.2	7,807.2	7,701.2	19.3	23.6	17.06	888.4	193.6	162.5	120.8	41.69	3.897	
7,900.0	7,797.7	7,903.7	7,797.7	19.8	23.6	20.24	888.4	193.6	137.6	95.9	41.67	3.301	
8,000.0	7,894.2	8,000.2	7,894.2	20.2	23.7	24.80	888.4	193.6	113.2	71.9	41.35	2.739 Normal Operations	
8,100.0	7,990.7	8,096.7	7,990.7	20.6	23.7	31.75	888.4	193.6	90.0	49.6	40.39	2.227 Caution - Monitor Closely	
8,200.0	8,087.2	8,193.2	8,087.2	21.1	23.8	43.11	888.4	193.6	68.8	30.8	38.03	1.809 Caution - Monitor Closely	
8,300.0	8,183.8	8,289.7	8,183.8	21.5	23.8	62.51	888.4	193.6	52.4	19.2	33.16	1.580 Caution - Monitor Closely	
8,395.0	8,275.4	8,381.4	8,275.4	21.9	23.9	90.00	888.4	193.6	46.1	16.5	29.68	1.554 Caution - Monitor Closely	
8,400.0	8,280.3	8,386.2	8,280.3	22.0	23.9	91.58	888.4	193.6	46.1	16.4	29.74	1.552 Caution - Monitor Closely	
8,420.1	8,299.6	8,405.6	8,299.6	22.0	23.9	97.83	888.4	193.6	46.6	16.3	30.32	1.537 Caution - Monitor Closely, ES	
8,500.0	8,376.9	8,482.9	8,376.9	22.4	23.9	119.52	888.4	193.6	53.4	18.2	35.28	1.514 Caution - Monitor Closely, SF	
8,600.0	8,474.0	8,580.0	8,474.0	22.8	24.0	137.06	888.4	193.6	68.7	28.2	40.56	1.695 Caution - Monitor Closely	
8,700.0	8,571.5	8,677.4	8,571.5	23.3	24.0	147.19	888.4	193.6	86.6	43.1	43.45	1.992 Caution - Monitor Closely	
8,800.0	8,669.3	8,775.3	8,669.3	23.7	24.1	153.37	888.4	193.6	104.6	59.4	45.15	2.316 Caution - Monitor Closely	
8,900.0	8,767.5	8,873.5	8,767.5	24.1	24.1	157.41	888.4	193.6	121.8	75.5	46.30	2.631 Normal Operations	
9,000.0	8,866.1	8,972.0	8,866.1	24.6	24.2	160.20	888.4	193.6	137.8	90.7	47.17	2.922 Normal Operations	
9,100.0	8,964.9	9,070.8	8,964.9	25.0	24.2	162.21	888.4	193.6	152.5	104.6	47.90	3.183	
9,200.0	9,063.9	9,169.9	9,063.9	25.4	24.3	163.70	888.4	193.6	165.6	117.1	48.53	3.412	
9,300.0	9,163.2	9,269.2	9,163.2	25.8	24.3	164.81	888.4	193.6	177.1	128.0	49.10	3.607	
9,400.0	9,262.7	9,368.6	9,262.7	26.2	24.4	165.66	888.4	193.6	187.0	137.4	49.63	3.769	
9,500.0	9,362.3	9,468.3	9,362.3	26.5	24.5	166.30	888.4	193.6	195.3	145.2	50.11	3.897	
9,600.0	9,462.1	9,568.0	9,462.1	26.9	24.5	166.77	888.4	193.6	201.9	151.3	50.57	3.992	
9,700.0	9,561.9	9,667.9	9,561.9	27.2	24.6	167.10	888.4	193.6	206.8	155.8	50.98	4.056	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
9,800.0	9,661.9	9,767.8	9,661.9	27.5	24.6	167.31	888.4	193.6	210.0	158.6	51.36	4.088	
9,900.0	9,761.9	9,867.8	9,761.9	27.7	24.7	167.40	888.4	193.6	211.5	159.8	51.67	4.093	
9,938.1	9,800.0	9,906.0	9,800.0	27.8	24.7	179.58	888.4	193.6	211.6	159.9	51.74	4.090	
10,000.0	9,861.9	9,967.8	9,861.9	27.8	24.7	179.58	888.4	193.6	211.6	159.8	51.79	4.085	
10,100.0	9,961.9	10,067.8	9,961.9	27.9	24.8	179.58	888.4	193.6	211.6	159.7	51.90	4.077	
10,200.0	10,061.9	10,167.8	10,061.9	27.9	24.8	179.58	888.4	193.6	211.6	159.6	52.00	4.069	
10,300.0	10,161.9	10,267.8	10,161.9	28.0	24.9	179.58	888.4	193.6	211.6	159.5	52.10	4.061	
10,400.0	10,261.9	10,367.8	10,261.9	28.0	24.9	179.58	888.4	193.6	211.6	159.4	52.20	4.053	
10,500.0	10,361.9	10,467.8	10,361.9	28.0	25.0	179.58	888.4	193.6	211.6	159.3	52.31	4.045	
10,600.0	10,461.9	10,567.8	10,461.9	28.1	25.1	179.58	888.4	193.6	211.6	159.2	52.41	4.037	
10,700.0	10,561.9	10,667.8	10,561.9	28.1	25.1	179.58	888.4	193.6	211.6	159.1	52.52	4.029	
10,800.0	10,661.9	10,767.8	10,661.9	28.2	25.2	179.58	888.4	193.6	211.6	159.0	52.62	4.021	
10,900.0	10,761.9	10,867.8	10,761.9	28.2	25.2	179.58	888.4	193.6	211.6	158.9	52.73	4.013	
11,000.0	10,861.9	10,967.8	10,861.9	28.3	25.3	179.58	888.4	193.6	211.6	158.8	52.83	4.005	
11,100.0	10,961.9	11,067.8	10,961.9	28.3	25.3	179.58	888.4	193.6	211.6	158.7	52.94	3.997	
11,200.0	11,061.9	11,167.8	11,061.9	28.4	25.4	179.58	888.4	193.6	211.6	158.6	53.04	3.989	
11,300.0	11,161.9	11,267.8	11,161.9	28.4	25.5	179.58	888.4	193.6	211.6	158.4	53.15	3.981	
11,400.0	11,261.9	11,367.8	11,261.9	28.5	25.5	179.58	888.4	193.6	211.6	158.3	53.25	3.973	
11,465.9	11,327.8	11,433.7	11,327.8	28.5	25.5	179.58	888.4	193.6	211.6	158.3	53.32	3.968	
11,500.0	11,361.9	11,467.1	11,361.2	28.5	25.6	179.58	888.4	193.6	211.6	158.3	53.33	3.968	
11,600.0	11,461.9	11,535.9	11,429.7	28.6	25.4	179.58	883.2	193.6	219.1	166.9	52.25	4.194	
11,700.0	11,561.9	11,600.0	11,492.3	28.6	25.2	179.59	869.6	193.6	240.7	189.6	51.04	4.715	
11,800.0	11,661.9	11,662.9	11,551.4	28.7	24.9	179.60	848.2	193.7	275.0	224.9	50.08	5.491	
11,900.0	11,761.9	11,717.9	11,600.3	28.7	24.7	179.62	823.3	193.9	320.4	271.1	49.32	6.497	
12,000.0	11,861.9	11,766.3	11,640.8	28.8	24.5	179.63	796.8	194.0	375.2	326.4	48.85	7.681	
12,100.0	11,961.9	11,808.5	11,673.8	28.8	24.4	179.64	770.4	194.1	437.7	389.0	48.66	8.994	
12,155.6	12,017.5	11,825.0	11,686.0	28.9	24.3	179.64	759.4	194.1	475.3	426.6	48.66	9.768	
12,175.0	12,036.9	11,836.6	11,694.4	28.8	24.3	-0.09	751.4	194.2	488.4	439.8	48.65	10.040	
12,200.0	12,061.8	11,850.0	11,703.8	28.8	24.2	-0.08	741.8	194.2	504.9	456.3	48.62	10.385	
12,225.0	12,086.6	11,850.0	11,703.8	28.7	24.2	-0.08	741.8	194.2	520.8	472.2	48.62	10.711	
12,250.0	12,111.3	11,864.5	11,713.7	28.6	24.2	-0.08	731.2	194.3	536.0	487.4	48.60	11.029	
12,275.0	12,135.6	11,875.0	11,720.7	28.5	24.1	-0.07	723.4	194.3	550.5	501.9	48.59	11.330	
12,300.0	12,159.7	11,883.6	11,726.2	28.4	24.1	-0.07	716.8	194.3	564.4	515.8	48.61	11.613	
12,325.0	12,183.3	11,900.0	11,736.5	28.3	24.1	-0.07	704.0	194.4	577.7	529.2	48.58	11.891	
12,350.0	12,206.5	11,900.0	11,736.5	28.2	24.1	-0.06	704.0	194.4	590.2	541.5	48.68	12.125	
12,375.0	12,229.2	11,912.8	11,744.2	28.1	24.0	-0.06	693.8	194.4	602.0	553.3	48.70	12.362	
12,400.0	12,251.3	11,925.0	11,751.3	28.0	24.0	-0.06	683.9	194.5	613.2	564.4	48.73	12.582	
12,425.0	12,272.8	11,932.6	11,755.6	27.9	24.0	-0.06	677.7	194.5	623.6	574.7	48.82	12.772	
12,450.0	12,293.6	11,942.5	11,761.1	27.8	23.9	-0.06	669.4	194.6	633.3	584.3	48.90	12.949	
12,475.0	12,313.6	11,950.0	11,765.1	27.7	23.9	-0.05	663.0	194.6	642.2	593.2	49.03	13.100	
12,500.0	12,332.8	11,962.5	11,771.6	27.6	23.9	-0.05	652.3	194.6	650.4	601.3	49.11	13.244	
12,525.0	12,351.1	11,975.0	11,777.7	27.5	23.9	-0.05	641.5	194.7	657.9	608.7	49.21	13.370	
12,550.0	12,368.5	11,982.7	11,781.4	27.4	23.8	-0.05	634.7	194.7	664.7	615.3	49.37	13.461	
12,575.0	12,385.0	12,000.0	11,789.2	27.3	23.8	-0.05	619.3	194.8	670.7	621.3	49.44	13.567	
12,600.0	12,400.4	12,000.0	11,789.2	27.2	23.8	-0.05	619.3	194.8	675.9	626.1	49.73	13.590	
12,625.0	12,414.8	12,013.1	11,794.8	27.1	23.8	-0.05	607.4	194.8	680.3	630.4	49.88	13.640	
12,650.0	12,428.2	12,025.0	11,799.5	27.0	23.8	-0.05	596.5	194.9	684.0	634.0	50.05	13.667	
12,675.0	12,440.3	12,033.5	11,802.8	27.0	23.7	-0.05	588.7	194.9	686.9	636.6	50.28	13.662	
12,700.0	12,451.4	12,050.0	11,808.6	26.9	23.7	-0.05	573.2	195.0	689.1	638.7	50.41	13.672	
12,725.0	12,461.2	12,050.0	11,808.6	26.8	23.7	-0.05	573.2	195.0	690.5	639.7	50.79	13.594	
12,750.0	12,469.8	12,064.1	11,813.2	26.8	23.7	-0.05	559.9	195.1	691.1	640.1	50.98	13.556	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
12,775.0	12,477.2	12,075.0	11,816.5	26.7	23.7	-0.05	549.5	195.1	690.9	639.7	51.23	13.487	
12,800.0	12,483.3	12,084.5	11,819.2	26.7	23.7	-0.05	540.3	195.1	689.9	638.4	51.51	13.396	
12,825.0	12,488.2	12,100.0	11,823.1	26.7	23.6	-0.05	525.4	195.2	688.3	636.6	51.70	13.314	
12,850.0	12,491.7	12,100.0	11,823.1	26.7	23.6	-0.05	525.4	195.2	685.8	633.6	52.15	13.149	
12,875.0	12,494.0	12,115.1	11,826.5	26.6	23.6	-0.05	510.6	195.3	682.5	630.1	52.37	13.032	
12,900.0	12,494.9	12,125.0	11,828.5	26.6	23.6	-0.05	501.0	195.3	678.5	625.8	52.68	12.879	
12,905.6	12,495.0	12,125.0	11,828.5	26.6	23.6	-0.05	501.0	195.3	677.5	624.7	52.79	12.833	
13,000.0	12,495.0	12,166.4	11,834.5	26.6	23.6	-0.05	460.0	195.5	663.9	609.9	53.99	12.298	
13,100.0	12,495.0	12,208.3	11,837.0	26.6	23.6	-0.05	418.2	195.7	658.0	602.6	55.45	11.868	
13,140.3	12,495.0	12,238.6	11,837.1	26.6	23.6	-0.05	387.9	195.8	657.9	602.1	55.83	11.784	
13,200.0	12,495.0	12,298.3	11,837.1	26.6	23.6	-0.05	328.2	196.1	657.9	601.8	56.14	11.719	
13,300.0	12,495.0	12,398.3	11,837.1	26.6	23.6	-0.05	228.2	196.6	657.9	601.2	56.70	11.603	
13,400.0	12,495.0	12,498.3	11,837.1	26.6	23.7	-0.05	128.2	197.0	657.9	600.6	57.30	11.482	
13,500.0	12,495.0	12,598.3	11,837.1	26.6	23.7	-0.05	28.2	197.5	657.9	600.0	57.93	11.356	
13,600.0	12,495.0	12,698.3	11,837.1	26.6	23.7	-0.04	-71.8	197.9	657.9	599.3	58.60	11.227	
13,700.0	12,495.0	12,798.3	11,837.1	26.7	23.8	-0.04	-171.8	198.4	657.9	598.6	59.30	11.094	
13,800.0	12,495.0	12,898.3	11,837.1	26.7	23.9	-0.04	-271.8	198.8	657.9	597.9	60.03	10.959	
13,900.0	12,495.0	12,998.3	11,837.1	26.7	23.9	-0.04	-371.8	199.3	657.9	597.1	60.80	10.821	
14,000.0	12,495.0	13,098.3	11,837.1	26.7	24.0	-0.04	-471.8	199.7	657.9	596.3	61.59	10.682	
14,100.0	12,495.0	13,198.3	11,837.1	26.8	24.2	-0.04	-571.8	200.2	657.9	595.5	62.41	10.541	
14,200.0	12,495.0	13,298.3	11,837.1	26.8	24.3	-0.04	-671.8	200.6	657.9	594.6	63.26	10.400	
14,300.0	12,495.0	13,398.3	11,837.1	26.9	24.6	-0.04	-771.8	201.1	657.9	593.8	64.14	10.258	
14,400.0	12,495.0	13,498.3	11,837.1	27.0	24.8	-0.04	-871.8	201.5	657.9	592.9	65.04	10.116	
14,500.0	12,495.0	13,598.3	11,837.1	27.1	25.1	-0.04	-971.8	202.0	657.9	591.9	65.96	9.974	
14,600.0	12,495.0	13,698.3	11,837.1	27.3	25.5	-0.04	-1,071.8	202.5	657.9	591.0	66.91	9.832	
14,700.0	12,495.0	13,798.3	11,837.1	27.6	26.0	-0.04	-1,171.8	202.9	657.9	590.0	67.88	9.692	
14,800.0	12,495.0	13,898.3	11,837.1	28.1	26.5	-0.04	-1,271.8	203.4	657.9	589.0	68.87	9.552	
14,900.0	12,495.0	13,998.3	11,837.1	28.6	27.0	-0.04	-1,371.8	203.8	657.9	588.0	69.89	9.414	
15,000.0	12,495.0	14,098.3	11,837.1	29.3	27.6	-0.04	-1,471.8	204.3	657.9	587.0	70.92	9.277	
15,100.0	12,495.0	14,198.3	11,837.1	30.0	28.3	-0.03	-1,571.8	204.7	657.9	585.9	71.97	9.142	
15,200.0	12,495.0	14,298.3	11,837.1	30.7	29.0	-0.03	-1,671.8	205.2	657.9	584.9	73.04	9.008	
15,300.0	12,495.0	14,398.3	11,837.1	31.4	29.7	-0.03	-1,771.8	205.6	657.9	583.8	74.12	8.876	
15,400.0	12,495.0	14,498.3	11,837.1	32.2	30.4	-0.03	-1,871.8	206.1	657.9	582.7	75.22	8.746	
15,500.0	12,495.0	14,598.3	11,837.1	33.0	31.2	-0.03	-1,971.8	206.5	657.9	581.6	76.34	8.618	
15,600.0	12,495.0	14,698.3	11,837.1	33.8	31.9	-0.03	-2,071.8	207.0	657.9	580.4	77.47	8.492	
15,700.0	12,495.0	14,798.3	11,837.1	34.6	32.7	-0.03	-2,171.8	207.4	657.9	579.3	78.62	8.368	
15,800.0	12,495.0	14,898.3	11,837.1	35.4	33.5	-0.03	-2,271.8	207.9	657.9	578.1	79.78	8.247	
15,900.0	12,495.0	14,998.3	11,837.1	36.2	34.3	-0.03	-2,371.8	208.4	657.9	576.9	80.95	8.127	
16,000.0	12,495.0	15,098.3	11,837.1	37.0	35.1	-0.03	-2,471.8	208.8	657.9	575.8	82.14	8.010	
16,100.0	12,495.0	15,198.3	11,837.1	37.8	35.9	-0.03	-2,571.8	209.3	657.9	574.6	83.33	7.895	
16,200.0	12,495.0	15,298.3	11,837.1	38.7	36.8	-0.03	-2,671.8	209.7	657.9	573.4	84.54	7.782	
16,300.0	12,495.0	15,398.3	11,837.1	39.5	37.6	-0.03	-2,771.8	210.2	657.9	572.1	85.76	7.671	
16,400.0	12,495.0	15,498.3	11,837.1	40.4	38.5	-0.03	-2,871.8	210.6	657.9	570.9	86.99	7.563	
16,500.0	12,495.0	15,598.3	11,837.1	41.2	39.3	-0.03	-2,971.8	211.1	657.9	569.7	88.23	7.456	
16,600.0	12,495.0	15,698.3	11,837.1	42.1	40.2	-0.03	-3,071.8	211.5	657.9	568.4	89.48	7.352	
16,700.0	12,495.0	15,798.3	11,837.1	43.0	41.0	-0.02	-3,171.8	212.0	657.9	567.2	90.74	7.250	
16,800.0	12,495.0	15,898.3	11,837.1	43.8	41.9	-0.02	-3,271.8	212.4	657.9	565.9	92.01	7.150	
16,900.0	12,495.0	15,998.3	11,837.1	44.7	42.8	-0.02	-3,371.8	212.9	657.9	564.6	93.29	7.052	
17,000.0	12,495.0	16,098.3	11,837.1	45.6	43.6	-0.02	-3,471.8	213.3	657.9	563.3	94.57	6.957	
17,100.0	12,495.0	16,198.3	11,837.1	46.5	44.5	-0.02	-3,571.8	213.8	657.9	562.0	95.87	6.863	
17,200.0	12,495.0	16,298.3	11,837.1	47.4	45.4	-0.02	-3,671.8	214.3	657.9	560.7	97.17	6.771	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
17,300.0	12,495.0	16,398.3	11,837.1	48.3	46.3	-0.02	-3,771.8	214.7	657.9	559.4	98.47	6.681	
17,400.0	12,495.0	16,498.3	11,837.1	49.1	47.2	-0.02	-3,871.8	215.2	657.9	558.1	99.79	6.593	
17,500.0	12,495.0	16,598.3	11,837.1	50.0	48.1	-0.02	-3,971.8	215.6	657.9	556.8	101.11	6.507	
17,600.0	12,495.0	16,698.3	11,837.1	50.9	49.0	-0.02	-4,071.8	216.1	657.9	555.5	102.44	6.423	
17,700.0	12,495.0	16,798.3	11,837.1	51.8	49.9	-0.02	-4,171.8	216.5	657.9	554.1	103.77	6.340	
17,800.0	12,495.0	16,898.3	11,837.1	52.7	50.8	-0.02	-4,271.8	217.0	657.9	552.8	105.11	6.259	
17,900.0	12,495.0	16,998.3	11,837.1	53.6	51.7	-0.02	-4,371.8	217.4	657.9	551.4	106.45	6.180	
18,000.0	12,495.0	17,098.3	11,837.1	54.5	52.6	-0.02	-4,471.8	217.9	657.9	550.1	107.80	6.103	
18,100.0	12,495.0	17,198.3	11,837.1	55.5	53.5	-0.02	-4,571.8	218.3	657.9	548.7	109.16	6.027	
18,200.0	12,495.0	17,298.3	11,837.1	56.4	54.4	-0.01	-4,671.8	218.8	657.9	547.4	110.52	5.953	
18,300.0	12,495.0	17,398.3	11,837.1	57.3	55.3	-0.01	-4,771.8	219.2	657.9	546.0	111.89	5.880	
18,400.0	12,495.0	17,498.3	11,837.1	58.2	56.2	-0.01	-4,871.8	219.7	657.9	544.6	113.26	5.809	
18,500.0	12,495.0	17,598.3	11,837.1	59.1	57.1	-0.01	-4,971.8	220.2	657.9	543.3	114.63	5.739	
18,600.0	12,495.0	17,698.3	11,837.1	60.0	58.1	-0.01	-5,071.8	220.6	657.9	541.9	116.01	5.671	
18,700.0	12,495.0	17,798.3	11,837.1	60.9	59.0	-0.01	-5,171.8	221.1	657.9	540.5	117.40	5.604	
18,800.0	12,495.0	17,898.3	11,837.1	61.9	59.9	-0.01	-5,271.8	221.5	657.9	539.1	118.78	5.539	
18,900.0	12,495.0	17,998.3	11,837.1	62.8	60.8	-0.01	-5,371.8	222.0	657.9	537.7	120.17	5.475	
19,000.0	12,495.0	18,098.3	11,837.1	63.7	61.7	-0.01	-5,471.8	222.4	657.9	536.3	121.57	5.412	
19,100.0	12,495.0	18,198.3	11,837.1	64.6	62.7	-0.01	-5,571.8	222.9	657.9	534.9	122.97	5.350	
19,200.0	12,495.0	18,298.3	11,837.1	65.5	63.6	-0.01	-5,671.8	223.3	657.9	533.5	124.37	5.290	
19,300.0	12,495.0	18,398.3	11,837.1	66.5	64.5	-0.01	-5,771.8	223.8	657.9	532.1	125.78	5.231	
19,400.0	12,495.0	18,498.3	11,837.1	67.4	65.4	-0.01	-5,871.8	224.2	657.9	530.7	127.19	5.173	
19,500.0	12,495.0	18,598.3	11,837.1	68.3	66.4	-0.01	-5,971.8	224.7	657.9	529.3	128.60	5.116	
19,600.0	12,495.0	18,698.3	11,837.1	69.3	67.3	-0.01	-6,071.8	225.1	657.9	527.9	130.02	5.060	
19,700.0	12,495.0	18,798.3	11,837.1	70.2	68.2	0.00	-6,171.8	225.6	657.9	526.5	131.43	5.006	
19,800.0	12,495.0	18,898.3	11,837.1	71.1	69.1	0.00	-6,271.8	226.1	657.9	525.0	132.86	4.952	
19,900.0	12,495.0	18,998.3	11,837.1	72.0	70.1	0.00	-6,371.8	226.5	657.9	523.6	134.28	4.899	
20,000.0	12,495.0	19,098.3	11,837.1	73.0	71.0	0.00	-6,471.8	227.0	657.9	522.2	135.71	4.848	
20,100.0	12,495.0	19,198.3	11,837.1	73.9	71.9	0.00	-6,571.8	227.4	657.9	520.8	137.14	4.797	
20,200.0	12,495.0	19,298.3	11,837.1	74.8	72.9	0.00	-6,671.8	227.9	657.9	519.3	138.57	4.748	
20,300.0	12,495.0	19,398.3	11,837.1	75.8	73.8	0.00	-6,771.8	228.3	657.9	517.9	140.00	4.699	
20,400.0	12,495.0	19,498.3	11,837.1	76.7	74.8	0.00	-6,871.8	228.8	657.9	516.5	141.44	4.651	
20,445.5	12,495.0	19,543.8	11,837.1	77.1	75.2	0.00	-6,917.2	229.0	657.9	515.8	142.10	4.630	
20,466.9	12,495.0	19,565.2	11,837.1	77.3	75.4	0.00	-6,938.6	229.1	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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.4	0.0	3.0	3.0	-54.03	11.7	-16.2	20.0				
100.0	100.0	100.4	100.0	3.1	3.1	-54.03	11.7	-16.2	20.0	13.4	6.60	3.030	
200.0	200.0	200.4	200.0	3.3	3.3	-54.03	11.7	-16.2	20.0	13.0	7.05	2.836	Normal Operations
300.0	300.0	300.4	300.0	3.5	3.5	-54.03	11.7	-16.2	20.0	12.5	7.48	2.675	Normal Operations
400.0	400.0	400.4	400.0	3.8	3.8	-54.03	11.7	-16.2	20.0	12.1	7.89	2.537	Normal Operations
500.0	500.0	500.4	500.0	4.0	4.0	-54.03	11.7	-16.2	20.0	11.7	8.27	2.418	Caution - Monitor Closely
600.0	600.0	600.4	600.0	4.1	4.1	-54.03	11.7	-16.2	20.0	11.4	8.65	2.314	Caution - Monitor Closely
700.0	700.0	700.4	700.0	4.3	4.3	-54.03	11.7	-16.2	20.0	11.0	9.00	2.222	Caution - Monitor Closely
800.0	800.0	800.4	800.0	4.5	4.5	-54.03	11.7	-16.2	20.0	10.7	9.35	2.139	Caution - Monitor Closely
900.0	900.0	900.4	900.0	4.7	4.7	-54.03	11.7	-16.2	20.0	10.3	9.69	2.065	Caution - Monitor Closely
1,000.0	1,000.0	1,000.4	1,000.0	4.8	4.8	-54.03	11.7	-16.2	20.0	10.0	10.02	1.997	Caution - Monitor Closely
1,100.0	1,100.0	1,100.4	1,100.0	5.0	5.0	-54.03	11.7	-16.2	20.0	9.7	10.34	1.935	Caution - Monitor Closely
1,200.0	1,200.0	1,200.4	1,200.0	5.2	5.2	-54.03	11.7	-16.2	20.0	9.4	10.65	1.878	Caution - Monitor Closely
1,300.0	1,300.0	1,300.4	1,300.0	5.3	5.3	-54.03	11.7	-16.2	20.0	9.0	10.96	1.826	Caution - Monitor Closely
1,400.0	1,400.0	1,400.4	1,400.0	5.5	5.5	-54.03	11.7	-16.2	20.0	8.8	11.25	1.777	Caution - Monitor Closely
1,500.0	1,500.0	1,500.4	1,500.0	5.6	5.6	-54.03	11.7	-16.2	20.0	8.5	11.55	1.732	Caution - Monitor Closely
1,600.0	1,600.0	1,600.4	1,600.0	5.8	5.8	-54.03	11.7	-16.2	20.0	8.2	11.84	1.690	Caution - Monitor Closely
1,700.0	1,700.0	1,700.4	1,700.0	5.9	5.9	-54.03	11.7	-16.2	20.0	7.9	12.12	1.651	Caution - Monitor Closely
1,800.0	1,800.0	1,800.4	1,800.0	6.0	6.0	-54.03	11.7	-16.2	20.0	7.6	12.40	1.614	Caution - Monitor Closely
1,900.0	1,900.0	1,900.4	1,900.0	6.2	6.2	-54.03	11.8	-16.2	20.0	7.3	12.67	1.579	Caution - Monitor Closely
2,000.0	2,000.0	2,000.4	2,000.0	6.3	6.4	-48.98	13.0	-15.0	19.9	6.9	12.94	1.536	Caution - Monitor Closely
2,015.6	2,015.6	2,016.0	2,015.6	6.3	6.4	-47.29	13.5	-14.6	19.9	6.9	12.98	1.530	Caution - Monitor Closely, CC, ES, SF
2,100.0	2,100.0	2,100.2	2,099.7	6.5	6.6	-34.12	16.9	-11.4	20.4	7.2	13.21	1.545	Caution - Monitor Closely
2,200.0	2,200.0	2,199.6	2,198.6	6.6	6.9	-13.49	23.2	-5.6	23.9	10.4	13.53	1.770	Caution - Monitor Closely
2,300.0	2,300.0	2,298.1	2,296.5	6.7	7.1	4.55	32.0	2.5	32.3	18.4	13.91	2.325	Caution - Monitor Closely
2,400.0	2,400.0	2,395.8	2,392.9	6.8	7.4	16.56	43.2	12.8	45.6	31.3	14.30	3.190	
2,500.0	2,500.0	2,492.3	2,487.7	7.0	7.6	24.01	56.6	25.2	63.1	48.5	14.68	4.302	
2,600.0	2,600.0	2,588.1	2,581.1	7.1	7.9	28.74	72.1	39.5	84.4	69.4	14.99	5.630	
2,700.0	2,700.0	2,685.4	2,675.8	7.2	8.1	31.72	88.6	54.8	106.9	91.5	15.39	6.947	
2,800.0	2,800.0	2,782.7	2,770.5	7.4	8.4	33.66	105.1	70.0	129.7	113.8	15.82	8.197	
2,900.0	2,900.0	2,880.0	2,865.1	7.5	8.7	35.02	121.6	85.2	152.5	136.2	16.26	9.377	
3,000.0	3,000.0	2,977.3	2,959.8	7.6	9.0	36.03	138.0	100.4	175.4	158.6	16.72	10.488	
3,100.0	3,100.0	3,074.6	3,054.5	7.7	9.3	36.81	154.5	115.6	198.3	181.1	17.20	11.531	
3,200.0	3,200.0	3,171.9	3,149.2	7.8	9.7	37.42	171.0	130.8	221.2	203.6	17.68	12.510	
3,300.0	3,300.0	3,269.2	3,243.9	8.0	10.0	37.92	187.5	146.1	244.2	226.0	18.19	13.428	
3,400.0	3,400.0	3,366.5	3,338.6	8.1	10.4	38.33	204.0	161.3	267.2	248.5	18.70	14.288	
3,500.0	3,500.0	3,463.8	3,433.3	8.2	10.7	38.68	220.5	176.5	290.2	271.0	19.23	15.094	
3,600.0	3,600.0	3,561.1	3,527.9	8.3	11.1	38.98	236.9	191.7	313.2	293.4	19.76	15.850	
3,700.0	3,700.0	3,658.4	3,622.6	8.4	11.5	39.23	253.4	206.9	336.2	315.9	20.31	16.558	
3,800.0	3,800.0	3,755.7	3,717.3	8.5	11.9	39.46	269.9	222.2	359.2	338.4	20.86	17.222	
3,900.0	3,900.0	3,853.0	3,812.0	8.7	12.3	39.65	286.4	237.4	382.2	360.8	21.42	17.846	
4,000.0	4,000.0	3,950.4	3,906.7	8.8	12.7	39.83	302.9	252.6	405.3	383.3	21.99	18.432	
4,100.0	4,100.0	4,047.4	4,001.1	8.9	13.1	154.90	319.3	267.8	429.5	406.9	22.56	19.035	
4,200.0	4,199.9	4,143.8	4,094.9	9.0	13.5	155.08	335.6	282.8	455.9	432.8	23.13	19.713	
4,300.0	4,299.7	4,239.5	4,188.0	9.1	13.9	155.33	351.9	297.8	484.7	461.0	23.71	20.445	
4,333.3	4,332.9	4,271.2	4,218.9	9.1	14.0	155.43	357.2	302.8	494.8	470.9	23.89	20.715	
4,400.0	4,399.4	4,334.8	4,280.8	9.2	14.3	143.38	368.0	312.7	514.6	490.3	24.26	21.211	
4,500.0	4,499.2	4,430.9	4,374.3	9.3	14.7	114.82	384.3	327.7	541.6	516.7	24.87	21.779	
4,600.0	4,599.0	4,527.9	4,468.6	9.5	15.1	82.08	400.7	342.9	565.5	540.0	25.50	22.173	
4,700.0	4,698.7	4,625.5	4,563.6	9.6	15.6	60.62	417.2	358.2	586.1	560.0	26.11	22.444	
4,800.0	4,798.3	4,723.6	4,659.1	9.8	16.0	49.11	433.9	373.5	603.6	576.9	26.72	22.593	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS											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)		
4,900.0	4,897.4	4,822.2	4,755.1	9.9	16.4	42.75	450.6	388.9	618.0	590.6	27.32	22.618
5,000.0	4,996.2	4,921.1	4,851.3	10.0	16.9	39.06	467.3	404.4	629.2	601.2	27.94	22.522
5,100.0	5,094.3	5,020.2	4,947.7	10.2	17.3	36.88	484.1	419.9	637.3	608.7	28.55	22.317
5,200.0	5,191.8	5,119.4	5,044.2	10.4	17.8	35.67	500.9	435.4	642.3	613.1	29.18	22.013
5,264.5	5,254.1	5,183.3	5,106.4	10.5	18.1	35.26	511.7	445.4	644.0	614.4	29.56	21.787
5,300.0	5,288.4	5,218.5	5,140.7	10.6	18.2	35.68	517.7	450.9	644.5	614.8	29.76	21.658
5,400.0	5,385.0	5,317.6	5,237.1	10.8	18.7	36.84	534.5	466.4	646.4	616.0	30.37	21.287
5,500.0	5,481.5	5,416.7	5,333.6	11.0	19.1	37.99	551.3	481.9	648.5	617.5	30.97	20.938
5,600.0	5,578.0	5,515.9	5,430.0	11.3	19.6	39.14	568.1	497.4	650.9	619.3	31.58	20.611
5,700.0	5,674.5	5,615.0	5,526.4	11.5	20.0	40.27	584.9	512.9	653.5	621.4	32.18	20.307
5,800.0	5,771.0	5,714.1	5,622.9	11.8	20.5	41.40	601.6	528.4	656.5	623.7	32.79	20.023
5,900.0	5,867.5	5,813.2	5,719.3	12.1	20.9	42.52	618.4	543.9	659.6	626.2	33.38	19.760
6,000.0	5,964.0	5,912.3	5,815.8	12.4	21.4	43.62	635.2	559.4	663.0	629.1	33.97	19.517
6,100.0	6,060.5	6,011.4	5,912.2	12.7	21.9	44.72	652.0	574.9	666.7	632.1	34.56	19.294
6,200.0	6,157.0	6,110.5	6,008.6	13.1	22.3	45.80	668.8	590.4	670.6	635.5	35.13	19.088
6,300.0	6,253.5	6,209.6	6,105.1	13.4	22.8	46.87	685.6	605.9	674.7	639.1	35.70	18.901
6,400.0	6,350.1	6,308.7	6,201.5	13.8	23.2	47.93	702.4	621.4	679.1	642.9	36.26	18.730
6,500.0	6,446.6	6,407.8	6,298.0	14.1	23.7	48.97	719.2	636.9	683.7	646.9	36.81	18.576
6,600.0	6,543.1	6,507.0	6,394.4	14.5	24.2	50.00	736.0	652.4	688.6	651.2	37.35	18.437
6,700.0	6,639.6	6,606.1	6,490.8	14.8	24.6	51.01	752.7	667.9	693.6	655.8	37.88	18.312
6,800.0	6,736.1	6,705.2	6,587.3	15.2	25.1	52.01	769.5	683.4	698.9	660.5	38.40	18.201
6,900.0	6,832.6	6,804.9	6,684.4	15.6	25.6	53.00	786.4	699.0	704.4	665.5	38.91	18.102
7,000.0	6,929.1	6,916.6	6,793.3	16.0	26.1	54.13	804.5	715.7	709.1	669.7	39.47	17.965
7,100.0	7,025.6	7,028.3	6,902.7	16.4	26.6	55.32	821.0	730.9	712.3	672.4	39.98	17.817
7,200.0	7,122.1	7,139.7	7,012.2	16.8	27.1	56.57	835.9	744.7	714.1	673.6	40.43	17.661
7,300.0	7,218.7	7,250.9	7,122.0	17.2	27.6	57.90	849.2	756.9	714.4	673.5	40.82	17.500
7,400.0	7,315.2	7,361.8	7,231.7	17.6	28.1	59.30	860.9	767.7	713.3	672.2	41.14	17.338
7,500.0	7,411.7	7,472.3	7,341.3	18.0	28.5	60.78	871.0	777.1	710.9	669.5	41.39	17.177
7,600.0	7,508.2	7,582.3	7,450.7	18.5	29.0	62.36	879.5	784.9	707.4	665.8	41.56	17.022
7,700.0	7,604.7	7,691.7	7,559.7	18.9	29.4	64.04	886.4	791.3	702.7	661.0	41.64	16.875
7,800.0	7,701.2	7,800.5	7,668.2	19.3	29.8	65.83	891.8	796.3	696.9	655.3	41.63	16.742
7,900.0	7,797.7	7,908.5	7,776.2	19.8	30.1	67.74	895.6	799.9	690.3	648.8	41.51	16.629
8,000.0	7,894.2	8,015.8	7,883.4	20.2	30.4	69.77	898.0	802.0	682.9	641.7	41.29	16.542
8,100.0	7,990.7	8,122.3	7,989.9	20.6	30.7	71.94	898.8	802.8	674.9	634.0	40.91	16.498
8,200.0	8,087.2	8,219.7	8,087.2	21.1	30.7	74.02	898.8	802.8	667.0	626.6	40.39	16.514
8,300.0	8,183.8	8,316.2	8,183.8	21.5	30.8	76.14	898.8	802.8	660.1	620.2	39.87	16.555
8,400.0	8,280.3	8,412.7	8,280.3	22.0	30.8	78.29	898.8	802.8	654.1	614.7	39.34	16.625
8,420.1	8,299.6	8,432.0	8,299.6	22.0	30.8	78.73	898.8	802.8	653.0	613.8	39.23	16.644
8,500.0	8,376.9	8,509.3	8,376.9	22.4	30.8	80.40	898.8	802.8	649.2	610.3	38.82	16.722
8,600.0	8,474.0	8,606.4	8,474.0	22.8	30.9	82.40	898.8	802.8	645.5	607.1	38.36	16.826
8,700.0	8,571.5	8,703.9	8,571.5	23.3	30.9	84.30	898.8	802.8	642.8	604.9	37.96	16.934
8,800.0	8,669.3	8,801.8	8,669.3	23.7	30.9	86.07	898.8	802.8	641.1	603.4	37.62	17.040
8,900.0	8,767.5	8,900.0	8,767.5	24.1	31.0	87.72	898.8	802.8	640.0	602.7	37.35	17.138
9,000.0	8,866.1	8,998.5	8,866.1	24.6	31.0	89.23	898.8	802.8	639.5	602.4	37.13	17.224
9,055.4	8,920.8	9,053.2	8,920.8	24.8	31.0	90.00	898.8	802.8	639.5	602.4	37.04	17.266
9,100.0	8,964.9	9,097.3	8,964.9	25.0	31.1	90.59	898.8	802.8	639.5	602.5	36.98	17.295
9,200.0	9,063.9	9,196.3	9,063.9	25.4	31.1	91.81	898.8	802.8	639.8	602.9	36.88	17.351
9,300.0	9,163.2	9,295.6	9,163.2	25.8	31.1	92.88	898.8	802.8	640.3	603.5	36.82	17.389
9,400.0	9,262.7	9,395.1	9,262.7	26.2	31.2	93.80	898.8	802.8	640.9	604.1	36.81	17.410
9,500.0	9,362.3	9,494.7	9,362.3	26.5	31.2	94.56	898.8	802.8	641.5	604.7	36.84	17.415
9,600.0	9,462.1	9,594.5	9,462.1	26.9	31.2	95.16	898.8	802.8	642.1	605.2	36.89	17.404

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												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)			
9,700.0	9,561.9	9,694.3	9,561.9	27.2	31.3	95.61	898.8	802.8	642.6	605.6	36.97	17.379	
9,800.0	9,661.9	9,794.3	9,661.9	27.5	31.3	95.91	898.8	802.8	642.9	605.8	37.08	17.340	
9,900.0	9,761.9	9,894.3	9,761.9	27.7	31.4	96.05	898.8	802.8	643.1	605.9	37.20	17.289	
9,938.1	9,800.0	9,932.4	9,800.0	27.8	31.4	108.23	898.8	802.8	643.1	605.8	37.23	17.271	
10,000.0	9,861.9	9,994.3	9,861.9	27.8	31.4	108.23	898.8	802.8	643.1	605.8	37.30	17.240	
10,100.0	9,961.9	10,094.3	9,961.9	27.9	31.4	108.23	898.8	802.8	643.1	605.6	37.43	17.181	
10,200.0	10,061.9	10,194.3	10,061.9	27.9	31.5	108.23	898.8	802.8	643.1	605.5	37.56	17.122	
10,300.0	10,161.9	10,294.3	10,161.9	28.0	31.5	108.23	898.8	802.8	643.1	605.4	37.69	17.064	
10,400.0	10,261.9	10,394.3	10,261.9	28.0	31.6	108.23	898.8	802.8	643.1	605.3	37.82	17.006	
10,500.0	10,361.9	10,494.3	10,361.9	28.0	31.6	108.23	898.8	802.8	643.1	605.1	37.94	16.948	
10,600.0	10,461.9	10,594.3	10,461.9	28.1	31.7	108.23	898.8	802.8	643.1	605.0	38.07	16.890	
10,700.0	10,561.9	10,694.3	10,561.9	28.1	31.7	108.23	898.8	802.8	643.1	604.9	38.20	16.833	
10,800.0	10,661.9	10,794.3	10,661.9	28.2	31.7	108.23	898.8	802.8	643.1	604.7	38.33	16.776	
10,900.0	10,761.9	10,894.3	10,761.9	28.2	31.8	108.23	898.8	802.8	643.1	604.6	38.46	16.719	
11,000.0	10,861.9	10,994.3	10,861.9	28.3	31.8	108.23	898.8	802.8	643.1	604.5	38.59	16.662	
11,100.0	10,961.9	11,094.3	10,961.9	28.3	31.9	108.23	898.8	802.8	643.1	604.4	38.73	16.606	
11,200.0	11,061.9	11,194.3	11,061.9	28.4	31.9	108.23	898.8	802.8	643.1	604.2	38.86	16.550	
11,300.0	11,161.9	11,294.3	11,161.9	28.4	31.9	108.23	898.8	802.8	643.1	604.1	38.99	16.495	
11,400.0	11,261.9	11,394.3	11,261.9	28.5	32.0	108.23	898.8	802.8	643.1	604.0	39.12	16.439	
11,500.0	11,361.9	11,494.3	11,361.9	28.5	32.0	108.23	898.8	802.8	643.1	603.8	39.25	16.384	
11,600.0	11,461.9	11,594.3	11,461.9	28.6	32.1	108.23	898.8	802.8	643.1	603.7	39.38	16.329	
11,700.0	11,561.9	11,694.3	11,561.9	28.6	32.1	108.23	898.8	802.8	643.1	603.6	39.51	16.275	
11,800.0	11,661.9	11,784.7	11,652.1	28.7	32.0	108.61	894.6	801.9	643.6	604.1	39.56	16.271	
11,900.0	11,761.9	11,867.7	11,733.0	28.7	31.7	110.21	876.8	798.1	646.5	607.0	39.45	16.388	
12,000.0	11,861.9	11,942.6	11,802.3	28.8	31.4	112.67	849.3	792.1	653.1	613.8	39.36	16.594	
12,100.0	11,961.9	12,007.3	11,858.0	28.8	31.1	115.49	817.1	785.2	665.4	625.9	39.46	16.861	
12,155.6	12,017.5	12,038.9	11,883.4	28.9	31.0	117.07	798.9	781.3	675.2	635.6	39.64	17.034	
12,175.0	12,036.9	12,050.0	11,892.1	28.8	31.0	-61.69	792.1	779.8	679.0	639.3	39.71	17.102	
12,200.0	12,061.8	12,062.8	11,901.8	28.8	30.9	-60.54	784.0	778.1	683.9	644.0	39.81	17.179	
12,225.0	12,086.6	12,075.0	11,910.9	28.7	30.9	-59.47	776.0	776.4	688.5	648.6	39.93	17.244	
12,250.0	12,111.3	12,089.5	11,921.4	28.6	30.8	-58.34	766.3	774.3	693.0	653.0	40.04	17.309	
12,275.0	12,135.6	12,100.0	11,928.9	28.5	30.8	-57.44	759.0	772.7	697.3	657.1	40.21	17.343	
12,300.0	12,159.7	12,116.1	11,939.9	28.4	30.7	-56.36	747.6	770.3	701.4	661.0	40.32	17.394	
12,325.0	12,183.3	12,125.0	11,945.9	28.3	30.7	-55.62	741.1	768.9	705.2	664.7	40.54	17.395	
12,350.0	12,206.5	12,142.4	11,957.2	28.2	30.6	-54.60	728.2	766.1	708.7	668.1	40.66	17.430	
12,375.0	12,229.2	12,155.6	11,965.4	28.1	30.6	-53.80	718.1	763.9	712.0	671.1	40.85	17.429	
12,400.0	12,251.3	12,168.7	11,973.3	28.0	30.5	-53.06	707.9	761.7	714.9	673.8	41.05	17.414	
12,425.0	12,272.8	12,181.7	11,980.9	27.9	30.5	-52.38	697.5	759.5	717.5	676.2	41.27	17.386	
12,450.0	12,293.6	12,200.0	11,991.0	27.8	30.5	-51.59	682.6	756.3	719.8	678.3	41.42	17.379	
12,475.0	12,313.6	12,207.8	11,995.1	27.7	30.4	-51.18	676.2	754.9	721.6	679.9	41.74	17.288	
12,500.0	12,332.8	12,225.0	12,003.8	27.6	30.4	-50.54	661.7	751.7	723.2	681.2	41.93	17.249	
12,525.0	12,351.1	12,233.7	12,008.0	27.5	30.4	-50.20	654.2	750.1	724.3	682.0	42.27	17.135	
12,550.0	12,368.5	12,250.0	12,015.5	27.4	30.3	-49.71	640.1	747.1	725.0	682.5	42.49	17.063	
12,575.0	12,385.0	12,259.5	12,019.7	27.3	30.3	-49.45	631.7	745.3	725.3	682.5	42.85	16.928	
12,600.0	12,400.4	12,275.0	12,026.1	27.2	30.3	-49.10	617.9	742.3	725.3	682.2	43.11	16.824	
12,625.0	12,414.8	12,285.3	12,030.1	27.1	30.3	-48.92	608.6	740.3	724.8	681.3	43.48	16.669	
12,650.0	12,428.2	12,300.0	12,035.4	27.0	30.2	-48.69	595.3	737.4	723.8	680.1	43.78	16.535	
12,675.0	12,440.3	12,311.0	12,039.2	27.0	30.2	-48.60	585.1	735.3	722.5	678.3	44.16	16.361	
12,700.0	12,451.4	12,325.0	12,043.6	26.9	30.2	-48.51	572.1	732.5	720.7	676.2	44.49	16.199	
12,725.0	12,461.2	12,336.6	12,046.9	26.8	30.2	-48.51	561.3	730.1	718.5	673.6	44.88	16.009	
12,750.0	12,469.8	12,350.0	12,050.4	26.8	30.1	-48.54	548.6	727.4	715.8	670.6	45.24	15.823	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS											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)		
12,775.0	12,477.2	12,362.2	12,053.3	26.7	30.1	-48.65	537.1	724.9	712.7	667.1	45.63	15.620
12,800.0	12,483.3	12,375.0	12,056.0	26.7	30.1	-48.80	524.8	722.3	709.2	663.2	46.01	15.413
12,825.0	12,488.2	12,387.7	12,058.4	26.7	30.1	-49.02	512.6	719.7	705.2	658.8	46.40	15.198
12,850.0	12,491.7	12,400.0	12,060.4	26.7	30.1	-49.30	500.8	717.1	700.9	654.0	46.81	14.974
12,875.0	12,494.0	12,413.3	12,062.1	26.6	30.1	-49.63	487.9	714.3	696.0	648.9	47.19	14.751
12,900.0	12,494.9	12,425.0	12,063.4	26.6	30.1	-50.03	476.5	711.9	690.8	643.2	47.60	14.513
12,905.6	12,495.0	12,425.0	12,063.4	26.6	30.1	-50.15	476.5	711.9	689.6	641.9	47.75	14.441
13,000.0	12,495.0	12,481.5	12,065.6	26.6	30.1	-49.62	421.4	700.0	671.7	622.5	49.18	13.658
13,100.0	12,495.0	12,564.8	12,065.6	26.6	30.1	-48.68	339.6	684.0	656.7	606.4	50.34	13.046
13,200.0	12,495.0	12,649.0	12,065.6	26.6	30.1	-47.85	256.6	670.2	644.1	592.5	51.55	12.494
13,300.0	12,495.0	12,734.0	12,065.6	26.6	30.2	-47.12	172.3	658.8	633.8	581.0	52.80	12.002
13,400.0	12,495.0	12,819.6	12,065.6	26.6	30.2	-46.54	87.2	649.8	625.7	571.7	54.09	11.569
13,500.0	12,495.0	12,900.0	12,065.6	26.6	30.2	-46.13	7.0	643.7	620.0	564.4	55.57	11.157
13,600.0	12,495.0	12,992.2	12,065.6	26.6	30.3	-45.83	-85.1	639.4	616.4	559.7	56.70	10.871
13,700.0	12,495.0	13,078.8	12,065.6	26.7	30.4	-45.72	-171.7	638.1	615.0	557.0	58.01	10.601
13,739.8	12,495.0	13,116.8	12,065.6	26.7	30.4	-45.71	-209.7	638.3	615.0	556.6	58.42	10.527
13,800.0	12,495.0	13,177.0	12,065.6	26.7	30.4	-45.71	-269.8	638.6	615.0	556.0	58.94	10.433
13,900.0	12,495.0	13,277.0	12,065.6	26.7	30.5	-45.71	-369.8	639.0	615.0	555.1	59.84	10.277
14,000.0	12,495.0	13,377.0	12,065.6	26.7	30.6	-45.71	-469.8	639.5	615.0	554.2	60.77	10.120
14,100.0	12,495.0	13,477.0	12,065.6	26.8	30.7	-45.71	-569.8	639.9	615.0	553.2	61.73	9.963
14,200.0	12,495.0	13,577.0	12,065.6	26.8	30.9	-45.71	-669.8	640.4	615.0	552.2	62.71	9.806
14,300.0	12,495.0	13,677.0	12,065.6	26.9	31.0	-45.71	-769.8	640.8	615.0	551.2	63.73	9.650
14,400.0	12,495.0	13,777.0	12,065.6	27.0	31.1	-45.71	-869.8	641.3	615.0	550.2	64.76	9.495
14,500.0	12,495.0	13,877.0	12,065.6	27.1	31.3	-45.71	-969.8	641.7	614.9	549.1	65.83	9.342
14,600.0	12,495.0	13,977.0	12,065.6	27.3	31.5	-45.71	-1,069.8	642.2	614.9	548.0	66.91	9.190
14,700.0	12,495.0	14,077.0	12,065.6	27.6	31.7	-45.71	-1,169.8	642.6	614.9	546.9	68.02	9.040
14,800.0	12,495.0	14,177.0	12,065.6	28.1	31.8	-45.71	-1,269.8	643.1	614.9	545.8	69.15	8.892
14,900.0	12,495.0	14,277.0	12,065.6	28.6	32.0	-45.71	-1,369.8	643.6	614.9	544.6	70.30	8.747
15,000.0	12,495.0	14,377.0	12,065.6	29.3	32.3	-45.71	-1,469.8	644.0	614.9	543.4	71.47	8.604
15,100.0	12,495.0	14,477.0	12,065.6	30.0	32.5	-45.71	-1,569.8	644.5	614.9	542.3	72.66	8.463
15,200.0	12,495.0	14,577.0	12,065.6	30.7	32.7	-45.71	-1,669.8	644.9	614.9	541.0	73.86	8.325
15,300.0	12,495.0	14,677.0	12,065.6	31.4	33.0	-45.71	-1,769.8	645.4	614.9	539.8	75.08	8.190
15,400.0	12,495.0	14,777.0	12,065.6	32.2	33.3	-45.71	-1,869.8	645.8	614.9	538.6	76.32	8.057
15,500.0	12,495.0	14,877.0	12,065.6	33.0	33.5	-45.71	-1,969.8	646.3	614.9	537.3	77.57	7.927
15,600.0	12,495.0	14,977.0	12,065.6	33.8	33.8	-45.70	-2,069.8	646.7	614.9	536.1	78.84	7.799
15,700.0	12,495.0	15,077.0	12,065.6	34.6	34.1	-45.70	-2,169.8	647.2	614.9	534.8	80.12	7.675
15,800.0	12,495.0	15,177.0	12,065.6	35.4	34.5	-45.70	-2,269.8	647.6	614.9	533.5	81.41	7.553
15,900.0	12,495.0	15,277.0	12,065.6	36.2	34.8	-45.70	-2,369.8	648.1	614.9	532.2	82.71	7.434
16,000.0	12,495.0	15,377.0	12,065.6	37.0	35.2	-45.70	-2,469.8	648.5	614.9	530.8	84.03	7.317
16,100.0	12,495.0	15,477.0	12,065.6	37.8	35.5	-45.70	-2,569.8	649.0	614.9	529.5	85.36	7.203
16,200.0	12,495.0	15,577.0	12,065.6	38.7	35.9	-45.70	-2,669.8	649.5	614.9	528.2	86.70	7.092
16,300.0	12,495.0	15,677.0	12,065.6	39.5	36.3	-45.70	-2,769.8	649.9	614.9	526.8	88.04	6.983
16,400.0	12,495.0	15,777.0	12,065.6	40.4	36.7	-45.70	-2,869.8	650.4	614.8	525.4	89.40	6.877
16,500.0	12,495.0	15,877.0	12,065.6	41.2	37.1	-45.70	-2,969.8	650.8	614.8	524.1	90.77	6.774
16,600.0	12,495.0	15,977.0	12,065.6	42.1	37.5	-45.70	-3,069.8	651.3	614.8	522.7	92.14	6.673
16,700.0	12,495.0	16,077.0	12,065.6	43.0	38.0	-45.70	-3,169.8	651.7	614.8	521.3	93.53	6.574
16,800.0	12,495.0	16,177.0	12,065.6	43.8	38.4	-45.70	-3,269.8	652.2	614.8	519.9	94.92	6.477
16,900.0	12,495.0	16,277.0	12,065.6	44.7	38.9	-45.70	-3,369.8	652.6	614.8	518.5	96.32	6.383
17,000.0	12,495.0	16,377.0	12,065.6	45.6	39.4	-45.70	-3,469.8	653.1	614.8	517.1	97.73	6.291
17,100.0	12,495.0	16,477.0	12,065.6	46.5	39.8	-45.70	-3,569.8	653.5	614.8	515.7	99.14	6.201
17,200.0	12,495.0	16,577.0	12,065.6	47.4	40.3	-45.70	-3,669.8	654.0	614.8	514.2	100.57	6.114

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												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	12,495.0	16,677.0	12,065.6	48.3	40.8	-45.70	-3,769.8	654.4	614.8	512.8	101.99	6.028	
17,400.0	12,495.0	16,777.0	12,065.6	49.1	41.4	-45.70	-3,869.8	654.9	614.8	511.4	103.43	5.944	
17,500.0	12,495.0	16,877.0	12,065.6	50.0	41.9	-45.69	-3,969.8	655.4	614.8	509.9	104.87	5.863	
17,600.0	12,495.0	16,977.0	12,065.6	50.9	42.4	-45.69	-4,069.8	655.8	614.8	508.5	106.31	5.783	
17,700.0	12,495.0	17,077.0	12,065.6	51.8	42.9	-45.69	-4,169.8	656.3	614.8	507.0	107.77	5.705	
17,800.0	12,495.0	17,177.0	12,065.6	52.7	43.5	-45.69	-4,269.8	656.7	614.8	505.6	109.22	5.629	
17,900.0	12,495.0	17,277.0	12,065.6	53.6	44.1	-45.69	-4,369.8	657.2	614.8	504.1	110.68	5.554	
18,000.0	12,495.0	17,377.0	12,065.6	54.5	44.6	-45.69	-4,469.8	657.6	614.8	502.6	112.15	5.482	
18,100.0	12,495.0	17,477.0	12,065.6	55.5	45.2	-45.69	-4,569.8	658.1	614.8	501.1	113.62	5.411	
18,200.0	12,495.0	17,577.0	12,065.6	56.4	45.8	-45.69	-4,669.8	658.5	614.8	499.7	115.10	5.341	
18,300.0	12,495.0	17,677.0	12,065.6	57.3	46.4	-45.69	-4,769.8	659.0	614.8	498.2	116.58	5.273	
18,400.0	12,495.0	17,777.0	12,065.6	58.2	47.0	-45.69	-4,869.8	659.4	614.7	496.7	118.06	5.207	
18,500.0	12,495.0	17,877.0	12,065.6	59.1	47.6	-45.69	-4,969.8	659.9	614.7	495.2	119.55	5.142	
18,600.0	12,495.0	17,977.0	12,065.6	60.0	48.2	-45.69	-5,069.8	660.3	614.7	493.7	121.04	5.079	
18,700.0	12,495.0	18,077.0	12,065.6	60.9	48.8	-45.69	-5,169.8	660.8	614.7	492.2	122.54	5.017	
18,800.0	12,495.0	18,177.0	12,065.6	61.9	49.4	-45.69	-5,269.8	661.3	614.7	490.7	124.04	4.956	
18,900.0	12,495.0	18,277.0	12,065.6	62.8	50.0	-45.69	-5,369.8	661.7	614.7	489.2	125.54	4.897	
19,000.0	12,495.0	18,377.0	12,065.6	63.7	50.6	-45.69	-5,469.8	662.2	614.7	487.7	127.05	4.839	
19,100.0	12,495.0	18,477.0	12,065.6	64.6	51.3	-45.69	-5,569.8	662.6	614.7	486.2	128.55	4.782	
19,200.0	12,495.0	18,577.0	12,065.6	65.5	51.9	-45.69	-5,669.8	663.1	614.7	484.6	130.07	4.726	
19,300.0	12,495.0	18,677.0	12,065.6	66.5	52.5	-45.69	-5,769.8	663.5	614.7	483.1	131.58	4.672	
19,400.0	12,495.0	18,777.0	12,065.6	67.4	53.2	-45.68	-5,869.8	664.0	614.7	481.6	133.10	4.618	
19,500.0	12,495.0	18,877.0	12,065.6	68.3	53.8	-45.68	-5,969.8	664.4	614.7	480.1	134.62	4.566	
19,600.0	12,495.0	18,977.0	12,065.6	69.3	54.5	-45.68	-6,069.8	664.9	614.7	478.5	136.15	4.515	
19,700.0	12,495.0	19,077.0	12,065.6	70.2	55.1	-45.68	-6,169.8	665.3	614.7	477.0	137.67	4.465	
19,800.0	12,495.0	19,177.0	12,065.6	71.1	55.8	-45.68	-6,269.8	665.8	614.7	475.5	139.20	4.416	
19,900.0	12,495.0	19,277.0	12,065.6	72.0	56.4	-45.68	-6,369.8	666.2	614.7	473.9	140.73	4.368	
20,000.0	12,495.0	19,377.0	12,065.6	73.0	57.1	-45.68	-6,469.8	666.7	614.7	472.4	142.27	4.321	
20,100.0	12,495.0	19,477.0	12,065.6	73.9	57.8	-45.68	-6,569.8	667.2	614.7	470.9	143.80	4.274	
20,200.0	12,495.0	19,577.0	12,065.6	74.8	58.4	-45.68	-6,669.8	667.6	614.7	469.3	145.34	4.229	
20,300.0	12,495.0	19,677.0	12,065.6	75.8	59.1	-45.68	-6,769.8	668.1	614.7	467.8	146.88	4.185	
20,386.3	12,495.0	19,763.3	12,065.6	76.6	59.7	-45.68	-6,856.1	668.5	614.6	466.4	148.21	4.147	
20,400.0	12,495.0	19,765.0	12,065.6	76.7	59.7	-45.68	-6,857.8	668.5	614.8	465.8	149.00	4.126	
20,466.9	12,495.0	19,765.0	12,065.6	77.3	59.7	-45.68	-6,857.8	668.5	619.7	467.4	152.32	4.068	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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	2.4	0.0	3.0	3.0	-54.27	81.7	-113.6	140.0				
100.0	100.0	102.4	100.0	3.1	3.1	-54.27	81.7	-113.6	140.0	133.4	6.60	21.192	
200.0	200.0	202.4	200.0	3.3	3.3	-54.27	81.7	-113.6	140.0	132.9	7.06	19.833	
300.0	300.0	302.4	300.0	3.5	3.6	-54.27	81.7	-113.6	140.0	132.5	7.48	18.703	
400.0	400.0	402.4	400.0	3.8	3.8	-54.27	81.7	-113.6	140.0	132.1	7.89	17.742	
500.0	500.0	502.4	500.0	4.0	4.0	-54.27	81.7	-113.6	140.0	131.7	8.28	16.911	
600.0	600.0	602.4	600.0	4.1	4.1	-54.27	81.7	-113.6	140.0	131.3	8.65	16.183	
700.0	700.0	702.4	700.0	4.3	4.3	-54.27	81.7	-113.6	140.0	131.0	9.01	15.538	
800.0	800.0	802.4	800.0	4.5	4.5	-54.27	81.7	-113.6	140.0	130.6	9.36	14.960	
900.0	900.0	902.4	900.0	4.7	4.7	-54.27	81.7	-113.6	140.0	130.3	9.69	14.440	
1,000.0	1,000.0	1,002.4	1,000.0	4.8	4.8	-54.27	81.7	-113.6	140.0	129.9	10.02	13.967	
1,100.0	1,100.0	1,102.4	1,100.0	5.0	5.0	-54.27	81.7	-113.6	140.0	129.6	10.34	13.535	
1,200.0	1,200.0	1,202.4	1,200.0	5.2	5.2	-54.27	81.7	-113.6	140.0	129.3	10.65	13.139	
1,300.0	1,300.0	1,302.4	1,300.0	5.3	5.3	-54.27	81.7	-113.6	140.0	129.0	10.96	12.772	
1,400.0	1,400.0	1,402.4	1,400.0	5.5	5.5	-54.27	81.7	-113.6	140.0	128.7	11.26	12.433	
1,500.0	1,500.0	1,502.4	1,500.0	5.6	5.6	-54.27	81.7	-113.6	140.0	128.4	11.55	12.117	
1,600.0	1,600.0	1,602.4	1,600.0	5.8	5.8	-54.27	81.7	-113.6	140.0	128.1	11.84	11.822	
1,700.0	1,700.0	1,702.4	1,700.0	5.9	5.9	-54.27	81.7	-113.6	140.0	127.8	12.12	11.546	
1,800.0	1,800.0	1,802.4	1,800.0	6.0	6.0	-54.27	81.7	-113.6	140.0	127.6	12.40	11.287	
1,900.0	1,900.0	1,902.4	1,900.0	6.2	6.2	-54.27	81.7	-113.6	140.0	127.3	12.68	11.042	
1,965.8	1,965.8	1,968.2	1,965.8	6.3	6.3	-54.27	81.7	-113.6	140.0	127.1	12.85	10.889 CC	
2,000.0	2,000.0	2,000.0	1,997.6	6.3	6.3	-54.27	81.7	-113.6	140.0	127.0	12.94	10.817 ES	
2,100.0	2,100.0	2,097.6	2,095.2	6.5	6.5	-54.30	82.7	-115.0	141.7	128.4	13.27	10.678 SF	
2,200.0	2,200.0	2,192.7	2,190.1	6.6	6.7	-54.36	85.3	-119.0	146.8	133.2	13.59	10.802	
2,300.0	2,300.0	2,287.4	2,284.5	6.7	6.9	-54.46	89.7	-125.6	155.1	141.2	13.90	11.158	
2,400.0	2,400.0	2,381.4	2,377.9	6.8	7.2	-54.58	95.8	-134.7	166.8	152.6	14.22	11.726	
2,500.0	2,500.0	2,474.6	2,470.1	7.0	7.4	-54.72	103.5	-146.3	181.7	167.1	14.55	12.486	
2,600.0	2,600.0	2,566.8	2,560.8	7.1	7.7	-54.85	112.7	-160.1	199.7	184.8	14.88	13.421	
2,700.0	2,700.0	2,657.9	2,649.7	7.2	7.9	-54.98	123.4	-176.2	220.9	205.7	15.22	14.515	
2,800.0	2,800.0	2,747.6	2,736.7	7.4	8.2	-55.11	135.5	-194.3	245.2	229.7	15.52	15.800	
2,900.0	2,900.0	2,843.3	2,829.1	7.5	8.4	-55.22	149.4	-215.1	271.3	255.4	15.89	17.076	
3,000.0	3,000.0	2,939.8	2,922.3	7.6	8.7	-55.32	163.4	-236.1	297.5	281.2	16.32	18.228	
3,100.0	3,100.0	3,036.3	3,015.4	7.7	9.0	-55.40	177.4	-257.1	323.6	306.8	16.77	19.298	
3,200.0	3,200.0	3,132.8	3,108.6	7.8	9.3	-55.46	191.4	-278.1	349.7	332.5	17.24	20.292	
3,300.0	3,300.0	3,229.4	3,201.8	8.0	9.7	-55.52	205.4	-299.1	375.9	358.2	17.72	21.215	
3,400.0	3,400.0	3,325.9	3,294.9	8.1	10.0	-55.57	219.4	-320.1	402.0	383.8	18.22	22.070	
3,500.0	3,500.0	3,422.4	3,388.1	8.2	10.4	-55.62	233.4	-341.1	428.2	409.4	18.73	22.863	
3,600.0	3,600.0	3,518.9	3,481.3	8.3	10.7	-55.66	247.4	-362.1	454.3	435.0	19.25	23.598	
3,700.0	3,700.0	3,615.4	3,574.4	8.4	11.1	-55.69	261.4	-383.1	480.4	460.6	19.79	24.281	
3,800.0	3,800.0	3,712.0	3,667.6	8.5	11.5	-55.73	275.4	-404.1	506.6	486.2	20.33	24.914	
3,900.0	3,900.0	3,808.5	3,760.8	8.7	11.9	-55.76	289.4	-425.1	532.7	511.8	20.89	25.503	
4,000.0	4,000.0	3,905.0	3,853.9	8.8	12.3	-55.78	303.3	-446.0	558.9	537.4	21.45	26.050	
4,100.0	4,100.0	4,001.7	3,947.3	8.9	12.7	-58.97	317.4	-467.1	584.3	562.3	22.02	26.542	
4,200.0	4,199.9	4,098.7	4,040.9	9.0	13.1	-58.95	331.4	-488.2	608.5	586.0	22.57	26.957	
4,300.0	4,299.7	4,195.9	4,134.7	9.1	13.5	-59.13	345.5	-509.3	631.4	608.3	23.14	27.282	
4,333.3	4,332.9	4,228.3	4,166.0	9.1	13.6	-59.24	350.2	-516.4	638.8	615.5	23.32	27.391	
4,400.0	4,399.4	4,293.3	4,228.7	9.2	13.9	-47.58	359.6	-530.5	653.3	629.6	23.70	27.567	
4,500.0	4,499.2	4,391.0	4,323.0	9.3	14.3	-19.27	373.8	-551.7	674.4	650.1	24.31	27.748	
4,600.0	4,599.0	4,488.9	4,417.5	9.5	14.8	-13.61	388.0	-573.0	694.9	670.0	24.94	27.863	
4,700.0	4,698.7	4,586.8	4,512.0	9.6	15.2	-35.56	402.2	-594.3	714.8	689.2	25.60	27.916	
4,800.0	4,798.3	4,684.6	4,606.4	9.8	15.6	-47.91	416.4	-615.6	733.9	707.7	26.28	27.933	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,900.0	4,897.4	4,782.3	4,700.7	9.9	16.1	-55.44	430.6	-636.9	752.6	725.6	26.94	27.933	
5,000.0	4,996.2	4,879.7	4,794.7	10.0	16.5	-60.61	444.7	-658.0	770.7	743.1	27.60	27.920	
5,100.0	5,094.3	4,976.7	4,888.3	10.2	16.9	-64.56	458.7	-679.1	788.5	760.3	28.26	27.906	
5,200.0	5,191.8	5,073.1	4,981.4	10.4	17.4	-67.84	472.7	-700.1	806.2	777.3	28.90	27.900	
5,264.5	5,254.1	5,134.9	5,041.0	10.5	17.7	-69.74	481.7	-713.5	817.6	788.4	29.29	27.920	
5,300.0	5,288.4	5,168.9	5,073.8	10.6	17.8	-70.30	486.6	-720.9	824.0	794.5	29.49	27.939	
5,400.0	5,385.0	5,264.6	5,166.2	10.8	18.3	-71.84	500.5	-741.7	842.3	812.2	30.10	27.981	
5,500.0	5,481.5	5,360.2	5,258.5	11.0	18.7	-73.32	514.3	-762.5	861.2	830.5	30.70	28.049	
5,600.0	5,578.0	5,455.9	5,350.9	11.3	19.2	-74.74	528.2	-783.4	880.6	849.3	31.30	28.139	
5,700.0	5,674.5	5,551.5	5,443.2	11.5	19.6	-76.10	542.1	-804.2	900.6	868.7	31.88	28.250	
5,800.0	5,771.0	5,647.2	5,535.5	11.8	20.0	-77.40	556.0	-825.0	921.1	888.6	32.46	28.378	
5,900.0	5,867.5	5,742.9	5,627.9	12.1	20.5	-78.64	569.8	-845.8	942.0	909.0	33.03	28.521	
6,000.0	5,964.0	5,838.5	5,720.2	12.4	20.9	-79.84	583.7	-866.6	963.3	929.7	33.59	28.678	
6,100.0	6,060.5	5,934.2	5,812.6	12.7	21.4	-80.98	597.6	-887.4	985.1	950.9	34.15	28.846	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST '21' FEDERAL COM 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,500.0	8,376.9	13,745.7	9,355.6	22.4	78.0	-154.25	890.5	-5.0	992.2	930.5	61.67	16.089	
8,600.0	8,474.0	13,720.3	9,356.3	22.8	77.6	-149.96	915.9	-6.6	898.3	836.2	62.12	14.461	
8,700.0	8,571.5	13,696.7	9,356.8	23.3	77.2	-145.19	939.5	-8.1	804.6	741.8	62.79	12.813	
8,800.0	8,669.3	13,672.7	9,357.4	23.7	76.8	-139.62	963.4	-9.7	711.2	647.4	63.79	11.149	
8,900.0	8,767.5	13,650.4	9,357.9	24.1	76.4	-133.63	985.7	-11.0	618.5	553.2	65.30	9.472	
9,000.0	8,866.1	13,631.0	9,358.3	24.6	76.1	-127.72	1,004.9	-12.1	527.3	459.6	67.64	7.795	
9,100.0	8,964.9	13,610.8	9,358.6	25.0	75.8	-121.23	1,025.1	-13.2	438.5	367.1	71.37	6.143	
9,200.0	9,063.9	13,594.0	9,358.7	25.4	75.5	-115.48	1,041.9	-14.2	354.3	276.8	77.49	4.572	
9,300.0	9,163.2	13,583.0	9,358.7	25.8	75.3	-111.46	1,052.9	-14.8	279.5	192.2	87.34	3.200	
9,400.0	9,262.7	13,573.3	9,358.7	26.2	75.2	-108.15	1,062.5	-15.4	224.1	123.7	100.41	2.232 Caution - Monitor Closely	
9,492.1	9,354.4	13,565.6	9,358.8	26.5	75.1	-105.80	1,070.2	-15.9	204.7	97.1	107.63	1.902 Caution - Monitor Closely, CC, ES, SF	
9,500.0	9,362.3	13,565.0	9,358.8	26.5	75.0	-105.63	1,070.9	-15.9	204.8	97.2	107.65	1.903 Caution - Monitor Closely	
9,600.0	9,462.1	13,557.9	9,358.8	26.9	74.9	-103.92	1,078.0	-16.4	231.0	130.8	100.23	2.305 Caution - Monitor Closely	
9,700.0	9,561.9	13,552.1	9,358.8	27.2	74.8	-103.05	1,083.7	-16.8	290.7	202.6	88.16	3.298	
9,800.0	9,661.9	13,547.9	9,358.9	27.5	74.8	-103.08	1,087.9	-17.0	368.1	288.9	79.20	4.647	
9,900.0	9,761.9	13,545.3	9,358.9	27.7	74.7	-104.03	1,090.5	-17.2	454.1	380.6	73.57	6.173	
9,938.1	9,800.0	13,544.8	9,358.9	27.8	74.7	-92.46	1,091.0	-17.2	488.3	416.2	72.04	6.778	
10,000.0	9,861.9	13,544.2	9,358.9	27.8	74.7	-92.29	1,091.6	-17.2	544.8	474.7	70.08	7.775	
10,100.0	9,961.9	13,543.1	9,358.9	27.9	74.7	-92.00	1,092.7	-17.3	638.3	570.4	67.88	9.403	
10,200.0	10,061.9	13,542.0	9,358.9	27.9	74.7	-91.69	1,093.8	-17.4	733.5	667.0	66.47	11.035	
10,300.0	10,161.9	13,540.8	9,358.9	28.0	74.7	-91.37	1,095.0	-17.5	829.8	764.3	65.54	12.661	
10,400.0	10,261.9	13,539.6	9,358.9	28.0	74.6	-91.03	1,096.2	-17.5	926.9	862.0	64.92	14.277	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 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		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	
11,100.0	10,961.9	16,336.4	11,834.2	28.3	83.6	-89.02	1,104.4	-67.2	910.0	839.2	70.82	12.850	
11,200.0	11,061.9	16,336.6	11,834.2	28.4	83.6	-89.07	1,104.2	-67.2	814.7	743.0	71.63	11.374	
11,300.0	11,161.9	16,336.8	11,834.2	28.4	83.6	-89.13	1,103.9	-67.2	720.6	647.8	72.81	9.897	
11,400.0	11,261.9	16,337.1	11,834.2	28.5	83.6	-89.18	1,103.7	-67.2	628.3	553.7	74.59	8.423	
11,500.0	11,361.9	16,337.3	11,834.2	28.5	83.6	-89.24	1,103.4	-67.2	538.8	461.4	77.40	6.962	
11,600.0	11,461.9	16,337.6	11,834.2	28.6	83.6	-89.30	1,103.2	-67.2	453.7	371.7	81.93	5.537	
11,700.0	11,561.9	16,337.9	11,834.2	28.6	83.6	-89.37	1,102.9	-67.2	376.0	286.7	89.27	4.212	
11,800.0	11,661.9	16,338.2	11,834.2	28.7	83.6	-89.43	1,102.6	-67.2	311.3	211.0	100.32	3.103	
11,900.0	11,761.9	16,338.5	11,834.2	28.7	83.6	-89.50	1,102.3	-67.2	269.1	155.8	113.29	2.375	Caution - Monitor Closely
11,972.3	11,834.2	16,338.8	11,834.2	28.8	83.7	-89.55	1,102.0	-67.2	259.2	139.4	119.77	2.164	Caution - Monitor Closely, CC, ES
12,000.0	11,861.9	16,338.8	11,834.2	28.8	83.7	-89.57	1,101.9	-67.2	260.7	139.9	120.82	2.158	Caution - Monitor Closely, SF
12,100.0	11,961.9	16,339.2	11,834.2	28.8	83.7	-89.65	1,101.6	-67.2	288.9	170.8	118.12	2.446	Caution - Monitor Closely
12,155.6	12,017.5	16,339.4	11,834.2	28.9	83.7	-89.70	1,101.4	-67.2	317.5	203.5	113.98	2.785	Normal Operations
12,175.0	12,036.9	16,339.9	11,834.2	28.8	83.7	88.73	1,100.9	-67.2	329.0	216.6	112.41	2.927	Normal Operations
12,200.0	12,061.8	16,341.7	11,834.2	28.8	83.7	85.85	1,099.0	-67.2	345.0	234.6	110.41	3.124	
12,225.0	12,086.6	16,345.0	11,834.2	28.7	83.7	82.41	1,095.8	-67.3	361.8	253.4	108.47	3.336	
12,250.0	12,111.3	16,349.6	11,834.3	28.6	83.8	78.49	1,091.1	-67.3	379.5	272.8	106.64	3.558	
12,275.0	12,135.6	16,355.7	11,834.3	28.5	83.9	74.18	1,085.0	-67.3	397.6	292.7	104.95	3.789	
12,300.0	12,159.7	16,363.3	11,834.4	28.4	84.0	69.60	1,077.5	-67.4	416.1	312.8	103.39	4.025	
12,325.0	12,183.3	16,371.9	11,834.4	28.3	84.1	64.94	1,068.9	-67.5	434.9	332.9	101.99	4.264	
12,350.0	12,206.5	16,381.8	11,834.5	28.2	84.3	60.32	1,059.0	-67.6	453.7	353.0	100.73	4.504	
12,375.0	12,229.2	16,392.9	11,834.7	28.1	84.5	55.85	1,047.9	-67.6	472.5	372.9	99.60	4.743	
12,400.0	12,251.3	16,405.3	11,834.8	28.0	84.6	51.63	1,035.5	-67.7	491.0	392.4	98.61	4.979	
12,425.0	12,272.8	16,418.9	11,835.0	27.9	84.8	47.72	1,021.9	-67.8	509.3	411.6	97.74	5.211	
12,450.0	12,293.6	16,433.6	11,835.2	27.8	85.1	44.16	1,007.2	-67.9	527.2	430.2	96.97	5.436	
12,475.0	12,313.6	16,449.5	11,835.4	27.7	85.3	40.95	991.3	-67.9	544.5	448.2	96.31	5.654	
12,500.0	12,332.8	16,459.0	11,835.5	27.6	85.5	38.55	981.8	-68.0	561.4	465.5	95.84	5.857	
12,525.0	12,351.1	16,479.9	11,835.8	27.5	85.8	35.79	960.9	-68.0	577.5	482.2	95.33	6.058	
12,550.0	12,368.5	16,495.3	11,835.9	27.4	86.0	33.69	945.5	-68.1	593.1	498.1	94.97	6.245	
12,575.0	12,385.0	16,511.3	11,835.9	27.3	86.2	31.83	929.5	-68.2	608.0	513.3	94.68	6.421	
12,600.0	12,400.4	16,527.9	11,835.8	27.2	86.5	30.19	912.9	-68.3	622.1	527.7	94.46	6.586	
12,625.0	12,414.8	16,545.0	11,835.7	27.1	86.7	28.74	895.8	-68.5	635.5	541.2	94.30	6.739	
12,650.0	12,428.2	16,564.9	11,835.4	27.0	87.0	27.43	875.8	-68.6	648.0	553.8	94.18	6.881	
12,675.0	12,440.3	16,587.9	11,835.2	27.0	87.4	26.24	852.9	-68.8	659.5	565.4	94.08	7.010	
12,700.0	12,451.4	16,611.6	11,834.9	26.9	87.7	25.22	829.2	-68.9	669.9	575.9	94.03	7.125	
12,725.0	12,461.2	16,635.9	11,834.7	26.8	88.1	24.35	804.9	-69.0	679.3	585.3	94.02	7.224	
12,750.0	12,469.8	16,661.4	11,834.5	26.8	88.5	23.61	779.4	-69.0	687.5	593.4	94.05	7.309	
12,775.0	12,477.2	16,688.1	11,834.4	26.7	88.9	23.01	752.7	-69.0	694.4	600.3	94.12	7.378	
12,800.0	12,483.3	16,715.3	11,834.4	26.7	89.3	22.54	725.5	-69.1	700.1	605.9	94.23	7.430	
12,825.0	12,488.2	16,742.8	11,834.6	26.7	89.7	22.19	698.0	-69.2	704.5	610.1	94.39	7.464	
12,850.0	12,491.7	16,766.5	11,834.9	26.7	90.1	21.99	674.3	-69.6	707.7	613.1	94.65	7.478	
12,875.0	12,494.0	16,791.4	11,835.2	26.6	90.5	21.89	649.4	-70.1	709.7	614.8	94.94	7.476	
12,900.0	12,494.9	16,816.4	11,835.6	26.6	90.8	21.88	624.4	-70.6	710.5	615.3	95.26	7.458	
12,905.6	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	710.5	615.2	95.36	7.451	
12,909.9	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	710.6	615.1	95.47	7.443	
13,000.0	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	716.7	619.6	97.09	7.382	
13,100.0	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	736.5	638.8	97.67	7.541	
13,200.0	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	768.9	671.8	97.12	7.917	
13,300.0	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	812.4	716.7	95.73	8.487	
13,400.0	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	865.3	771.5	93.81	9.225	
13,500.0	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	926.0	834.4	91.62	10.107	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 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		Offset Wellbore Centre			Rule Assigned:					
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
13,600.0	12,495.0	16,820.0	11,835.6	26.6	90.9	21.88	620.8	-70.6	993.1	903.8	89.37	11.112	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 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	11,261.9	16,570.3	12,122.9	28.5	86.2	91.14	1,092.2	585.5	946.7	868.7	78.01	12.136	
11,500.0	11,361.9	16,567.7	12,123.0	28.5	86.2	90.77	1,094.7	585.4	856.8	776.9	79.95	10.716	
11,600.0	11,461.9	16,565.0	12,123.1	28.6	86.1	90.38	1,097.4	585.3	769.3	686.8	82.54	9.321	
11,700.0	11,561.9	16,562.2	12,123.1	28.6	86.1	89.97	1,100.2	585.2	685.3	599.3	86.01	7.968	
11,800.0	11,661.9	16,559.2	12,123.2	28.7	86.0	89.54	1,103.2	585.1	606.1	515.4	90.67	6.685	
11,900.0	11,761.9	16,556.1	12,123.3	28.7	86.0	89.08	1,106.3	585.0	533.9	437.1	96.83	5.514	
12,000.0	11,861.9	16,555.0	12,123.4	28.8	86.0	88.92	1,107.4	584.9	472.0	367.5	104.56	4.514	
12,100.0	11,961.9	16,550.2	12,123.5	28.8	85.9	88.23	1,112.1	584.7	424.8	311.8	113.01	3.759	
12,155.6	12,017.5	16,548.6	12,123.5	28.9	85.9	88.00	1,113.7	584.6	406.9	289.6	117.37	3.467	
12,175.0	12,036.9	16,548.4	12,123.6	28.8	85.9	-92.34	1,113.9	584.6	402.3	283.6	118.72	3.389	
12,200.0	12,061.8	16,549.3	12,123.5	28.8	85.9	-92.77	1,113.1	584.7	397.8	277.5	120.30	3.306	
12,225.0	12,086.6	16,551.4	12,123.5	28.7	85.9	-92.83	1,111.0	584.7	394.8	273.1	121.65	3.245	
12,250.0	12,111.3	16,555.0	12,123.4	28.6	86.0	-92.47	1,107.4	584.9	393.4	270.7	122.74	3.205	
12,258.9	12,119.9	16,556.4	12,123.3	28.6	86.0	-92.28	1,106.0	585.0	393.3	270.2	123.06	3.196 CC	
12,275.0	12,135.6	16,560.3	12,123.2	28.5	86.0	-91.68	1,102.1	585.1	393.6	270.1	123.55	3.186 ES, SF	
12,300.0	12,159.7	16,567.7	12,123.0	28.4	86.2	-90.43	1,094.7	585.4	395.4	271.3	124.09	3.186	
12,325.0	12,183.3	16,576.8	12,122.8	28.3	86.3	-88.78	1,085.6	585.8	398.6	274.2	124.35	3.205	
12,350.0	12,206.5	16,587.5	12,122.5	28.2	86.4	-86.78	1,074.9	586.1	403.0	278.7	124.37	3.241	
12,375.0	12,229.2	16,599.9	12,122.3	28.1	86.6	-84.45	1,062.5	586.5	408.7	284.5	124.17	3.291	
12,400.0	12,251.3	16,614.0	12,122.0	28.0	86.8	-81.84	1,048.4	586.8	415.3	291.5	123.78	3.355	
12,425.0	12,272.8	16,629.8	12,121.8	27.9	87.1	-79.01	1,032.7	587.0	422.6	299.4	123.26	3.429	
12,450.0	12,293.6	16,647.2	12,121.7	27.8	87.3	-76.02	1,015.3	587.2	430.6	308.0	122.62	3.512	
12,475.0	12,313.6	16,665.9	12,121.6	27.7	87.6	-72.96	996.5	587.2	439.0	317.0	121.92	3.600	
12,500.0	12,332.8	16,685.7	12,121.3	27.6	87.9	-69.91	976.7	587.0	447.5	326.4	121.17	3.694	
12,525.0	12,351.1	16,706.5	12,121.0	27.5	88.2	-66.90	956.0	586.4	456.2	335.8	120.39	3.789	
12,550.0	12,368.5	16,728.2	12,120.5	27.4	88.5	-64.00	934.3	585.6	464.8	345.2	119.60	3.886	
12,575.0	12,385.0	16,750.8	12,119.9	27.3	88.9	-61.21	911.8	584.4	473.1	354.3	118.81	3.982	
12,600.0	12,400.4	16,769.8	12,119.4	27.2	89.1	-58.91	892.7	583.4	481.3	363.2	118.16	4.074	
12,625.0	12,414.8	16,790.8	12,118.9	27.1	89.4	-56.67	871.7	582.2	489.2	371.6	117.53	4.162	
12,650.0	12,428.2	16,812.7	12,118.5	27.0	89.7	-54.61	849.9	580.9	496.6	379.6	116.97	4.245	
12,675.0	12,440.3	16,835.4	12,118.1	27.0	90.1	-52.72	827.3	579.6	503.5	387.0	116.47	4.323	
12,700.0	12,451.4	16,858.1	12,117.8	26.9	90.4	-51.07	804.6	578.4	509.8	393.7	116.08	4.392	
12,725.0	12,461.2	16,881.6	12,117.9	26.8	90.8	-49.64	781.2	577.4	515.4	399.6	115.79	4.451	
12,750.0	12,469.8	16,905.8	12,118.2	26.8	91.1	-48.44	757.0	576.6	520.3	404.7	115.61	4.500	
12,775.0	12,477.2	16,930.6	12,119.0	26.7	91.5	-47.48	732.2	576.0	524.4	408.8	115.54	4.538	
12,800.0	12,483.3	16,957.0	12,119.8	26.7	91.9	-46.68	705.8	575.4	527.5	412.0	115.53	4.566	
12,825.0	12,488.2	16,982.5	12,120.2	26.7	92.2	-46.04	680.3	574.3	529.8	414.2	115.57	4.584	
12,850.0	12,491.7	17,007.3	12,120.6	26.7	92.6	-45.59	655.5	573.2	531.1	415.4	115.71	4.590	
12,875.0	12,494.0	17,032.2	12,121.0	26.6	93.0	-45.32	630.6	572.2	531.6	415.6	115.93	4.585	
12,889.1	12,494.7	17,035.0	12,121.1	26.6	93.0	-45.31	627.9	572.0	531.5	415.2	116.32	4.570	
12,900.0	12,494.9	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	531.5	414.9	116.64	4.557	
12,905.6	12,495.0	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	531.6	414.8	116.81	4.551	
13,000.0	12,495.0	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	540.5	422.3	118.19	4.573	
13,100.0	12,495.0	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	567.2	450.2	117.00	4.848	
13,200.0	12,495.0	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	609.4	495.5	113.87	5.351	
13,300.0	12,495.0	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	664.0	554.3	109.77	6.049	
13,400.0	12,495.0	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	728.4	622.9	105.43	6.908	
13,500.0	12,495.0	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	800.1	698.8	101.30	7.898	
13,600.0	12,495.0	17,035.0	12,121.1	26.6	93.0	-45.30	627.9	572.0	877.3	779.8	97.57	8.992	
13,700.0	12,495.0	17,035.0	12,121.1	26.7	93.0	-45.30	627.9	572.0	958.8	864.5	94.29	10.169	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W1BO FEDERAL COM 003H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												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)			
12,100.0	11,961.9	16,558.4	12,089.2	28.8	80.9	-87.58	1,141.6	-790.7	991.8	875.4	116.42	8.519	
12,155.6	12,017.5	16,558.5	12,089.2	28.9	80.9	-87.58	1,141.4	-790.7	986.2	869.9	116.27	8.482	
12,175.0	12,036.9	16,558.9	12,089.2	28.8	81.0	92.80	1,141.1	-790.7	985.0	868.8	116.17	8.479 SF	
12,200.0	12,061.8	16,560.4	12,089.3	28.8	81.0	92.83	1,139.6	-790.8	984.1	868.1	116.01	8.482	
12,221.2	12,082.8	16,562.5	12,089.3	28.7	81.0	92.73	1,137.5	-790.9	983.8	868.0	115.86	8.491 CC, ES	
12,225.0	12,086.6	16,563.0	12,089.3	28.7	81.0	92.71	1,137.0	-790.9	983.8	868.0	115.84	8.493	
12,250.0	12,111.3	16,566.6	12,089.3	28.6	81.1	92.44	1,133.4	-791.1	984.3	868.6	115.64	8.512	
12,275.0	12,135.6	16,571.3	12,089.3	28.5	81.1	92.05	1,128.7	-791.3	985.4	870.0	115.42	8.538	
12,300.0	12,159.7	16,577.0	12,089.3	28.4	81.2	91.51	1,123.0	-791.5	987.2	872.0	115.18	8.570	
12,325.0	12,183.3	16,583.7	12,089.3	28.3	81.3	90.86	1,116.3	-791.8	989.5	874.6	114.93	8.610	
12,350.0	12,206.5	16,591.3	12,089.2	28.2	81.4	90.09	1,108.7	-792.2	992.5	877.8	114.67	8.655	
12,375.0	12,229.2	16,599.9	12,089.2	28.1	81.6	89.21	1,100.1	-792.6	996.0	881.6	114.41	8.705	
12,400.0	12,251.3	16,609.4	12,089.1	28.0	81.7	88.24	1,090.6	-793.1	1,000.0	885.8	114.14	8.761	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 28 1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 797-r.5 MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	9.6	3.0	0.0	135.06	-92.3	92.1	130.8					
100.0	100.0	90.9	100.5	3.1	4.1	134.98	-92.1	92.2	130.3	122.3	8.02	16.253		
200.0	200.0	191.4	201.0	3.3	8.7	134.68	-91.2	92.2	129.7	115.9	13.81	9.396		
300.0	300.0	291.8	301.4	3.5	13.3	134.16	-89.7	92.4	128.8	108.8	19.97	6.449		
400.0	400.0	392.3	401.9	3.8	17.8	133.42	-87.6	92.6	127.5	101.3	26.24	4.859		
500.0	500.0	492.7	502.3	4.0	22.4	132.44	-84.9	92.9	125.9	93.3	32.55	3.867		
600.0	600.0	593.1	602.6	4.1	27.0	131.20	-81.6	93.2	123.9	85.0	38.88	3.187		
700.0	700.0	693.5	702.9	4.3	31.5	129.68	-77.7	93.6	121.7	76.4	45.22	2.690 Normal Operations		
800.0	800.0	793.8	803.1	4.5	36.1	127.85	-73.1	94.1	119.2	67.8	51.41	2.318 Caution - Monitor Closely		
853.1	853.1	843.9	853.1	4.6	36.3	126.89	-71.1	94.7	118.5	66.8	51.63	2.294 Caution - Monitor Closely, CC, ES, SF		
900.0	900.0	888.0	897.2	4.7	36.3	126.12	-70.1	96.1	119.0	67.4	51.63	2.305 Caution - Monitor Closely		
1,000.0	1,000.0	986.9	996.1	4.8	36.3	124.83	-69.6	100.0	121.9	70.2	51.66	2.359 Caution - Monitor Closely		
1,100.0	1,100.0	1,087.1	1,096.2	5.0	36.3	123.99	-69.9	103.6	125.0	73.3	51.72	2.417 Caution - Monitor Closely		
1,200.0	1,200.0	1,187.6	1,196.6	5.2	36.3	123.51	-70.6	106.6	127.9	76.1	51.79	2.469 Caution - Monitor Closely		
1,300.0	1,300.0	1,288.0	1,297.0	5.3	36.4	123.31	-71.6	108.9	130.4	78.5	51.86	2.514 Normal Operations		
1,400.0	1,400.0	1,388.6	1,397.5	5.5	36.4	123.37	-72.8	110.6	132.4	80.5	51.93	2.550 Normal Operations		
1,500.0	1,500.0	1,488.8	1,497.8	5.6	36.4	123.60	-74.3	111.8	134.2	82.2	52.00	2.581 Normal Operations		
1,600.0	1,600.0	1,589.4	1,598.4	5.8	36.4	123.95	-75.7	112.5	136.6	83.6	52.07	2.605 Normal Operations		
1,700.0	1,700.0	1,690.2	1,699.1	5.9	36.5	124.44	-77.3	112.7	136.6	84.5	52.14	2.620 Normal Operations		
1,800.0	1,800.0	1,791.2	1,800.1	6.0	36.5	125.12	-78.7	111.9	136.9	84.7	52.21	2.621 Normal Operations		
1,900.0	1,900.0	1,891.8	1,900.7	6.2	36.5	126.09	-80.4	110.3	136.5	84.3	52.27	2.612 Normal Operations		
2,000.0	2,000.0	1,992.2	2,001.1	6.3	36.5	127.35	-82.4	108.0	135.9	83.6	52.33	2.597 Normal Operations		
2,100.0	2,100.0	2,092.2	2,101.0	6.5	36.5	128.54	-84.2	105.7	135.1	82.7	52.38	2.579 Normal Operations		
2,200.0	2,200.0	2,192.5	2,201.2	6.6	36.5	129.64	-85.7	103.4	134.3	81.9	52.43	2.562 Normal Operations		
2,300.0	2,300.0	2,292.8	2,301.6	6.7	36.5	130.59	-86.7	101.2	133.3	80.8	52.49	2.539 Normal Operations		
2,400.0	2,400.0	2,393.1	2,401.8	6.8	36.6	131.57	-87.6	98.7	132.0	79.4	52.55	2.512 Normal Operations		
2,500.0	2,500.0	2,493.3	2,502.0	7.0	36.6	132.70	-88.5	95.9	130.6	78.0	52.60	2.482 Caution - Monitor Closely		
2,600.0	2,600.0	2,592.9	2,601.5	7.1	36.6	133.85	-89.5	93.2	129.2	76.5	52.66	2.453 Caution - Monitor Closely		
2,700.0	2,700.0	2,692.5	2,701.1	7.2	36.6	134.97	-90.6	90.7	128.2	75.5	52.71	2.432 Caution - Monitor Closely		
2,800.0	2,800.0	2,792.5	2,801.0	7.4	36.6	135.96	-91.5	88.5	127.3	74.6	52.77	2.413 Caution - Monitor Closely		
2,900.0	2,900.0	2,891.6	2,900.1	7.5	36.6	136.73	-92.4	87.0	126.9	74.1	52.82	2.403 Caution - Monitor Closely		
2,905.1	2,905.1	2,896.6	2,905.1	7.5	36.7	136.76	-92.5	86.9	126.9	74.1	52.82	2.402 Caution - Monitor Closely		
3,000.0	3,000.0	2,990.0	2,998.6	7.6	36.7	136.96	-93.1	87.0	127.4	74.6	52.86	2.411 Caution - Monitor Closely		
3,100.0	3,100.0	3,088.3	3,096.8	7.7	36.7	136.44	-93.7	89.1	129.3	76.4	52.89	2.445 Caution - Monitor Closely		
3,200.0	3,200.0	3,188.6	3,197.0	7.8	36.7	135.06	-93.2	93.0	131.7	78.7	52.97	2.487 Caution - Monitor Closely		
3,300.0	3,300.0	3,289.1	3,297.4	8.0	36.7	133.24	-91.6	97.4	133.8	80.7	53.04	2.522 Normal Operations		
3,400.0	3,400.0	3,389.4	3,397.6	8.1	36.8	131.15	-89.3	102.2	135.7	82.6	53.11	2.555 Normal Operations		
3,500.0	3,500.0	3,490.4	3,498.5	8.2	36.8	129.43	-87.1	105.9	137.2	84.0	53.19	2.579 Normal Operations		
3,600.0	3,600.0	3,591.3	3,599.3	8.3	36.8	128.35	-85.6	108.2	137.9	84.7	53.26	2.590 Normal Operations		
3,700.0	3,700.0	3,690.6	3,698.6	8.4	36.8	127.60	-84.4	109.6	138.4	85.1	53.32	2.595 Normal Operations		
3,800.0	3,800.0	3,788.3	3,796.3	8.5	36.8	126.93	-84.3	112.1	140.3	87.0	53.36	2.630 Normal Operations		
3,900.0	3,900.0	3,887.4	3,895.3	8.7	36.9	126.30	-84.9	115.5	143.4	90.0	53.42	2.685 Normal Operations		
4,000.0	4,000.0	3,986.0	3,993.9	8.8	36.9	125.83	-86.0	119.0	147.0	93.5	53.47	2.748 Normal Operations		
4,100.0	4,100.0	4,084.1	4,091.8	8.9	36.9	-119.81	-88.1	123.3	152.4	98.9	53.52	2.849 Normal Operations		
4,200.0	4,199.9	4,184.8	4,192.4	9.0	37.0	-120.86	-91.4	127.6	159.8	106.2	53.63	2.980 Normal Operations		
4,300.0	4,299.7	4,285.6	4,293.1	9.1	37.0	-122.17	-95.1	130.3	167.5	113.7	53.74	3.116		
4,333.3	4,332.9	4,319.8	4,327.3	9.1	37.0	-122.95	-95.8	131.4	170.2	116.4	53.78	3.164		
4,400.0	4,399.4	4,388.3	4,395.7	9.2	37.1	-136.67	-96.9	132.8	175.3	121.4	53.86	3.254		
4,500.0	4,499.2	4,488.8	4,496.2	9.3	37.1	-166.65	-98.2	134.1	182.4	128.4	53.97	3.380		
4,600.0	4,599.0	4,589.2	4,596.6	9.5	37.2	160.32	-99.5	135.0	189.6	135.5	54.08	3.506		
4,700.0	4,698.7	4,689.2	4,696.6	9.6	37.2	139.48	-100.6	135.7	196.9	142.7	54.20	3.634		

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 28 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 797-r.5 MWD												Offset Well Error:	0.0 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
4,800.0	4,798.3	4,788.6	4,796.0	9.8	37.2	129.35	-101.7	136.3	204.8	150.4	54.31	3.770	
4,900.0	4,897.4	4,886.8	4,894.2	9.9	37.3	124.97	-102.8	137.1	213.7	159.3	54.41	3.927	
5,000.0	4,996.2	4,986.2	4,993.6	10.0	37.3	123.81	-103.9	137.9	224.0	169.5	54.54	4.108	
5,100.0	5,094.3	5,083.4	5,090.7	10.2	37.4	124.47	-105.1	138.6	236.2	181.6	54.65	4.323	
5,200.0	5,191.8	5,181.0	5,188.3	10.4	37.4	126.26	-106.2	139.5	250.9	196.1	54.78	4.580	
5,264.5	5,254.1	5,243.9	5,251.2	10.5	37.5	127.79	-106.8	140.0	261.7	206.8	54.86	4.770	
5,300.0	5,288.4	5,278.3	5,285.6	10.6	37.5	129.36	-107.1	140.2	268.0	213.1	54.90	4.881	
5,400.0	5,385.0	5,373.7	5,381.0	10.8	37.5	133.34	-108.2	140.7	286.9	231.8	55.02	5.214	
5,500.0	5,481.5	5,470.4	5,477.7	11.0	37.6	136.88	-109.3	141.2	307.0	251.9	55.16	5.566	
5,600.0	5,578.0	5,566.3	5,573.6	11.3	37.6	139.96	-110.4	141.9	328.2	272.9	55.30	5.935	
5,700.0	5,674.5	5,664.0	5,671.3	11.5	37.7	142.72	-111.3	142.3	350.0	294.6	55.47	6.310	
5,800.0	5,771.0	5,759.4	5,766.7	11.8	37.7	145.08	-112.2	142.9	372.5	316.9	55.63	6.696	
5,900.0	5,867.5	5,855.9	5,863.2	12.1	37.8	147.20	-113.2	143.6	395.6	339.8	55.80	7.090	
6,000.0	5,964.0	5,953.9	5,961.2	12.4	37.9	149.13	-113.9	144.0	418.9	362.9	55.99	7.482	
6,100.0	6,060.5	6,049.6	6,056.9	12.7	37.9	150.82	-114.5	144.4	442.5	386.3	56.17	7.877	
6,200.0	6,157.0	6,143.5	6,150.8	13.1	38.0	152.33	-115.5	144.8	466.8	410.5	56.36	8.283	
6,300.0	6,253.5	6,240.5	6,247.8	13.4	38.0	153.71	-116.6	145.4	491.5	435.0	56.57	8.688	
6,400.0	6,350.1	6,336.3	6,343.6	13.8	38.1	154.97	-117.7	145.8	516.5	459.7	56.81	9.092	
6,500.0	6,446.6	6,431.7	6,439.0	14.1	38.2	156.11	-118.9	146.2	541.7	484.7	57.08	9.490	
6,600.0	6,543.1	6,527.3	6,534.5	14.5	38.3	157.13	-120.2	146.8	567.3	510.0	57.36	9.891	
6,700.0	6,639.6	6,623.4	6,630.6	14.8	38.4	158.07	-121.6	147.5	593.2	535.5	57.61	10.296	
6,800.0	6,736.1	6,719.0	6,726.3	15.2	38.4	158.93	-122.9	148.1	619.1	561.2	57.87	10.698	
6,900.0	6,832.6	6,813.4	6,820.6	15.6	38.5	159.70	-124.5	148.8	645.4	587.3	58.13	11.103	
7,000.0	6,929.1	6,908.6	6,915.8	16.0	38.6	160.43	-126.2	149.4	672.0	613.6	58.40	11.505	
7,100.0	7,025.6	7,002.8	7,010.0	16.4	38.7	161.12	-128.2	149.8	698.9	640.2	58.70	11.906	
7,200.0	7,122.1	7,099.4	7,106.5	16.8	38.8	161.78	-130.3	150.2	725.9	666.8	59.06	12.292	
7,300.0	7,218.7	7,195.2	7,202.4	17.2	38.9	162.39	-132.3	150.6	753.0	693.6	59.40	12.675	
7,400.0	7,315.2	7,289.6	7,296.7	17.6	39.0	162.93	-134.5	151.1	780.3	720.5	59.71	13.067	
7,500.0	7,411.7	7,386.4	7,393.4	18.0	39.0	163.46	-136.7	151.6	807.6	747.6	60.05	13.450	
7,600.0	7,508.2	7,482.0	7,489.1	18.5	39.1	163.95	-138.8	151.9	835.0	774.6	60.38	13.829	
7,700.0	7,604.7	7,576.6	7,583.7	18.9	39.2	164.39	-141.0	152.5	862.5	801.8	60.72	14.205	
7,800.0	7,701.2	7,671.3	7,678.3	19.3	39.3	164.79	-143.4	153.4	890.3	829.3	61.07	14.580	
7,900.0	7,797.7	7,767.5	7,774.4	19.8	39.4	165.16	-145.7	154.5	918.1	856.6	61.43	14.945	
8,000.0	7,894.2	7,859.3	7,866.2	20.2	39.5	165.49	-148.2	155.4	946.1	884.3	61.77	15.316	
8,100.0	7,990.7	7,951.3	7,958.1	20.6	39.6	165.81	-151.1	156.4	974.6	912.5	62.13	15.686	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 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:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	9.6	3.0	0.0	135.06	-92.3	92.1	130.8					
100.0	100.0	90.9	100.5	3.1	4.1	134.98	-92.1	92.2	130.3	122.3	8.02	16.253		
200.0	200.0	191.4	201.0	3.3	8.7	134.68	-91.2	92.2	129.7	115.9	13.81	9.396		
300.0	300.0	291.8	301.4	3.5	13.3	134.16	-89.7	92.4	128.8	108.8	19.97	6.449		
400.0	400.0	392.3	401.9	3.8	17.8	133.42	-87.6	92.6	127.5	101.3	26.24	4.859		
500.0	500.0	492.7	502.3	4.0	22.4	132.44	-84.9	92.9	125.9	93.3	32.55	3.867		
600.0	600.0	593.1	602.6	4.1	27.0	131.20	-81.6	93.2	123.9	85.0	38.88	3.187		
700.0	700.0	693.5	702.9	4.3	31.5	129.68	-77.7	93.6	121.7	76.4	45.22	2.690 Normal Operations		
800.0	800.0	793.8	803.1	4.5	36.1	127.85	-73.1	94.1	119.2	67.8	51.41	2.318 Caution - Monitor Closely		
853.1	853.1	843.9	853.1	4.6	36.3	126.89	-71.1	94.7	118.5	66.8	51.63	2.294 Caution - Monitor Closely, CC, ES, SF		
900.0	900.0	888.0	897.2	4.7	36.3	126.12	-70.1	96.1	119.0	67.4	51.63	2.305 Caution - Monitor Closely		
1,000.0	1,000.0	986.9	996.1	4.8	36.3	124.83	-69.6	100.0	121.9	70.2	51.66	2.359 Caution - Monitor Closely		
1,100.0	1,100.0	1,087.1	1,096.2	5.0	36.3	123.99	-69.9	103.6	125.0	73.3	51.72	2.417 Caution - Monitor Closely		
1,200.0	1,200.0	1,187.6	1,196.6	5.2	36.3	123.51	-70.6	106.6	127.9	76.1	51.79	2.469 Caution - Monitor Closely		
1,300.0	1,300.0	1,288.0	1,297.0	5.3	36.4	123.31	-71.6	108.9	130.4	78.5	51.86	2.514 Normal Operations		
1,400.0	1,400.0	1,388.6	1,397.5	5.5	36.4	123.37	-72.8	110.6	132.4	80.5	51.93	2.550 Normal Operations		
1,500.0	1,500.0	1,488.8	1,497.8	5.6	36.4	123.60	-74.3	111.8	134.2	82.2	52.00	2.581 Normal Operations		
1,600.0	1,600.0	1,589.4	1,598.4	5.8	36.4	123.95	-75.7	112.5	136.6	83.6	52.07	2.605 Normal Operations		
1,700.0	1,700.0	1,690.2	1,699.1	5.9	36.5	124.44	-77.3	112.7	136.6	84.5	52.14	2.620 Normal Operations		
1,800.0	1,800.0	1,791.2	1,800.1	6.0	36.5	125.12	-78.7	111.9	136.9	84.7	52.21	2.621 Normal Operations		
1,900.0	1,900.0	1,891.8	1,900.7	6.2	36.5	126.09	-80.4	110.3	136.5	84.3	52.27	2.612 Normal Operations		
2,000.0	2,000.0	1,992.2	2,001.1	6.3	36.5	127.35	-82.4	108.0	135.9	83.6	52.33	2.597 Normal Operations		
2,100.0	2,100.0	2,092.2	2,101.0	6.5	36.5	128.54	-84.2	105.7	135.1	82.7	52.38	2.579 Normal Operations		
2,200.0	2,200.0	2,192.5	2,201.2	6.6	36.5	129.64	-85.7	103.4	134.3	81.9	52.43	2.562 Normal Operations		
2,300.0	2,300.0	2,292.8	2,301.6	6.7	36.5	130.59	-86.7	101.2	133.3	80.8	52.49	2.539 Normal Operations		
2,400.0	2,400.0	2,393.1	2,401.8	6.8	36.6	131.57	-87.6	98.7	132.0	79.4	52.55	2.512 Normal Operations		
2,500.0	2,500.0	2,493.3	2,502.0	7.0	36.6	132.70	-88.5	95.9	130.6	78.0	52.60	2.482 Caution - Monitor Closely		
2,600.0	2,600.0	2,592.9	2,601.5	7.1	36.6	133.85	-89.5	93.2	129.2	76.5	52.66	2.453 Caution - Monitor Closely		
2,700.0	2,700.0	2,692.5	2,701.1	7.2	36.6	134.97	-90.6	90.7	128.2	75.5	52.71	2.432 Caution - Monitor Closely		
2,800.0	2,800.0	2,792.5	2,801.0	7.4	36.6	135.96	-91.5	88.5	127.3	74.6	52.77	2.413 Caution - Monitor Closely		
2,900.0	2,900.0	2,891.6	2,900.1	7.5	36.6	136.73	-92.4	87.0	126.9	74.1	52.82	2.403 Caution - Monitor Closely		
2,905.1	2,905.1	2,896.6	2,905.1	7.5	36.7	136.76	-92.5	86.9	126.9	74.1	52.82	2.402 Caution - Monitor Closely		
3,000.0	3,000.0	2,990.0	2,998.6	7.6	36.7	136.96	-93.1	87.0	127.4	74.6	52.86	2.411 Caution - Monitor Closely		
3,100.0	3,100.0	3,088.3	3,096.8	7.7	36.7	136.44	-93.7	89.1	129.3	76.4	52.89	2.445 Caution - Monitor Closely		
3,200.0	3,200.0	3,188.6	3,197.0	7.8	36.7	135.06	-93.2	93.0	131.7	78.7	52.97	2.487 Caution - Monitor Closely		
3,300.0	3,300.0	3,289.1	3,297.4	8.0	36.7	133.24	-91.6	97.4	133.8	80.7	53.04	2.522 Normal Operations		
3,400.0	3,400.0	3,389.4	3,397.6	8.1	36.8	131.15	-89.3	102.2	135.7	82.6	53.11	2.555 Normal Operations		
3,500.0	3,500.0	3,490.4	3,498.5	8.2	36.8	129.43	-87.1	105.9	137.2	84.0	53.19	2.579 Normal Operations		
3,600.0	3,600.0	3,591.3	3,599.3	8.3	36.8	128.35	-85.6	108.2	137.9	84.7	53.26	2.590 Normal Operations		
3,700.0	3,700.0	3,690.6	3,698.6	8.4	36.8	127.60	-84.4	109.6	138.4	85.1	53.32	2.595 Normal Operations		
3,800.0	3,800.0	3,788.3	3,796.3	8.5	36.8	126.93	-84.3	112.1	140.3	87.0	53.36	2.630 Normal Operations		
3,900.0	3,900.0	3,887.4	3,895.3	8.7	36.9	126.30	-84.9	115.5	143.4	90.0	53.42	2.685 Normal Operations		
4,000.0	4,000.0	3,986.0	3,993.9	8.8	36.9	125.83	-86.0	119.0	147.0	93.5	53.47	2.748 Normal Operations		
4,100.0	4,100.0	4,084.1	4,091.8	8.9	36.9	-119.81	-88.1	123.3	152.4	98.9	53.52	2.849 Normal Operations		
4,200.0	4,199.9	4,184.8	4,192.4	9.0	37.0	-120.86	-91.4	127.6	159.8	106.2	53.63	2.980 Normal Operations		
4,300.0	4,299.7	4,285.6	4,293.1	9.1	37.0	-122.17	-95.1	130.3	167.5	113.7	53.74	3.116		
4,333.3	4,332.9	4,319.8	4,327.3	9.1	37.0	-122.95	-95.8	131.4	170.2	116.4	53.78	3.164		
4,400.0	4,399.4	4,388.3	4,395.7	9.2	37.1	-136.67	-96.9	132.8	175.3	121.5	53.75	3.261		
4,500.0	4,499.2	4,488.8	4,496.2	9.3	37.1	-166.65	-98.2	134.1	182.4	128.5	53.86	3.387		
4,600.0	4,599.0	4,589.2	4,596.6	9.5	37.2	160.32	-99.5	135.0	189.6	135.6	53.97	3.513		
4,700.0	4,698.7	4,689.2	4,696.6	9.6	37.2	139.48	-100.6	135.7	196.9	142.8	54.09	3.641		

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 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)			
4,800.0	4,798.3	4,788.6	4,796.0	9.8	37.2	129.35	-101.7	136.3	204.8	150.6	54.20	3.778	
4,900.0	4,897.4	4,886.8	4,894.2	9.9	37.3	124.97	-102.8	137.1	213.7	159.4	54.30	3.935	
5,000.0	4,996.2	4,986.2	4,993.6	10.0	37.3	123.81	-103.9	137.9	224.0	169.6	54.43	4.117	
5,100.0	5,094.3	5,083.4	5,090.7	10.2	37.4	124.47	-105.1	138.6	236.2	181.7	54.54	4.332	
5,200.0	5,191.8	5,181.0	5,188.3	10.4	37.4	126.26	-106.2	139.5	250.9	196.2	54.67	4.589	
5,264.5	5,254.1	5,243.9	5,251.2	10.5	37.5	127.79	-106.8	140.0	261.7	206.9	54.75	4.779	
5,300.0	5,288.4	5,278.3	5,285.6	10.6	37.5	129.36	-107.1	140.2	268.0	213.2	54.79	4.891	
5,400.0	5,385.0	5,373.7	5,381.0	10.8	37.5	133.34	-108.2	140.7	286.9	232.0	54.91	5.224	
5,500.0	5,481.5	5,470.4	5,477.7	11.0	37.6	136.88	-109.3	141.2	307.0	252.0	55.05	5.577	
5,600.0	5,578.0	5,566.3	5,573.6	11.3	37.6	139.96	-110.4	141.9	328.2	273.0	55.19	5.947	
5,700.0	5,674.5	5,664.0	5,671.3	11.5	37.7	142.72	-111.3	142.3	350.0	294.7	55.36	6.323	
5,800.0	5,771.0	5,759.4	5,766.7	11.8	37.7	145.08	-112.2	142.9	372.5	317.0	55.52	6.710	
5,900.0	5,867.5	5,855.9	5,863.2	12.1	37.8	147.20	-113.2	143.6	395.6	339.9	55.69	7.104	
6,000.0	5,964.0	5,953.9	5,961.2	12.4	37.9	149.13	-113.9	144.0	418.9	363.0	55.88	7.497	
6,100.0	6,060.5	6,049.6	6,056.9	12.7	37.9	150.82	-114.5	144.4	442.5	386.4	56.06	7.892	
6,200.0	6,157.0	6,143.5	6,150.8	13.1	38.0	152.33	-115.5	144.8	466.8	410.6	56.25	8.300	
6,300.0	6,253.5	6,240.5	6,247.8	13.4	38.0	153.71	-116.6	145.4	491.5	435.1	56.47	8.705	
6,400.0	6,350.1	6,336.3	6,343.6	13.8	38.1	154.97	-117.7	145.8	516.5	459.8	56.70	9.109	
6,500.0	6,446.6	6,431.7	6,439.0	14.1	38.2	156.11	-118.9	146.2	541.7	484.8	56.98	9.508	
6,600.0	6,543.1	6,527.3	6,534.5	14.5	38.3	157.13	-120.2	146.8	567.3	510.1	57.25	9.910	
6,700.0	6,639.6	6,623.4	6,630.6	14.8	38.4	158.07	-121.6	147.5	593.2	535.6	57.50	10.315	
6,800.0	6,736.1	6,719.0	6,726.3	15.2	38.4	158.93	-122.9	148.1	619.1	561.3	57.76	10.719	
6,900.0	6,832.6	6,813.4	6,820.6	15.6	38.5	159.70	-124.5	148.8	645.4	587.4	58.02	11.124	
7,000.0	6,929.1	6,908.6	6,915.8	16.0	38.6	160.43	-126.2	149.4	672.0	613.7	58.29	11.527	
7,100.0	7,025.6	7,002.8	7,010.0	16.4	38.7	161.12	-128.2	149.8	698.9	640.3	58.59	11.929	
7,200.0	7,122.1	7,099.4	7,106.5	16.8	38.8	161.78	-130.3	150.2	725.9	667.0	58.95	12.315	
7,300.0	7,218.7	7,195.2	7,202.4	17.2	38.9	162.39	-132.3	150.6	753.0	693.7	59.30	12.698	
7,400.0	7,315.2	7,289.6	7,296.7	17.6	39.0	162.93	-134.5	151.1	780.3	720.7	59.61	13.091	
7,500.0	7,411.7	7,386.4	7,393.4	18.0	39.0	163.46	-136.7	151.6	807.6	747.7	59.94	13.474	
7,600.0	7,508.2	7,482.0	7,489.1	18.5	39.1	163.95	-138.8	151.9	835.0	774.7	60.27	13.854	
7,700.0	7,604.7	7,576.6	7,583.7	18.9	39.2	164.39	-141.0	152.5	862.5	801.9	60.61	14.231	
7,800.0	7,701.2	7,671.3	7,678.3	19.3	39.3	164.79	-143.4	153.4	890.3	829.4	60.96	14.606	
7,900.0	7,797.7	7,767.5	7,774.4	19.8	39.4	165.16	-145.7	154.5	918.1	856.8	61.32	14.972	
8,000.0	7,894.2	7,859.3	7,866.2	20.2	39.5	165.49	-148.2	155.4	946.1	884.5	61.66	15.343	
8,100.0	7,990.7	7,951.3	7,958.1	20.6	39.6	165.81	-151.1	156.4	974.6	912.6	62.02	15.714	

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 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to kb @ 3170.6usft

Offset Depths are relative to Offset Datum

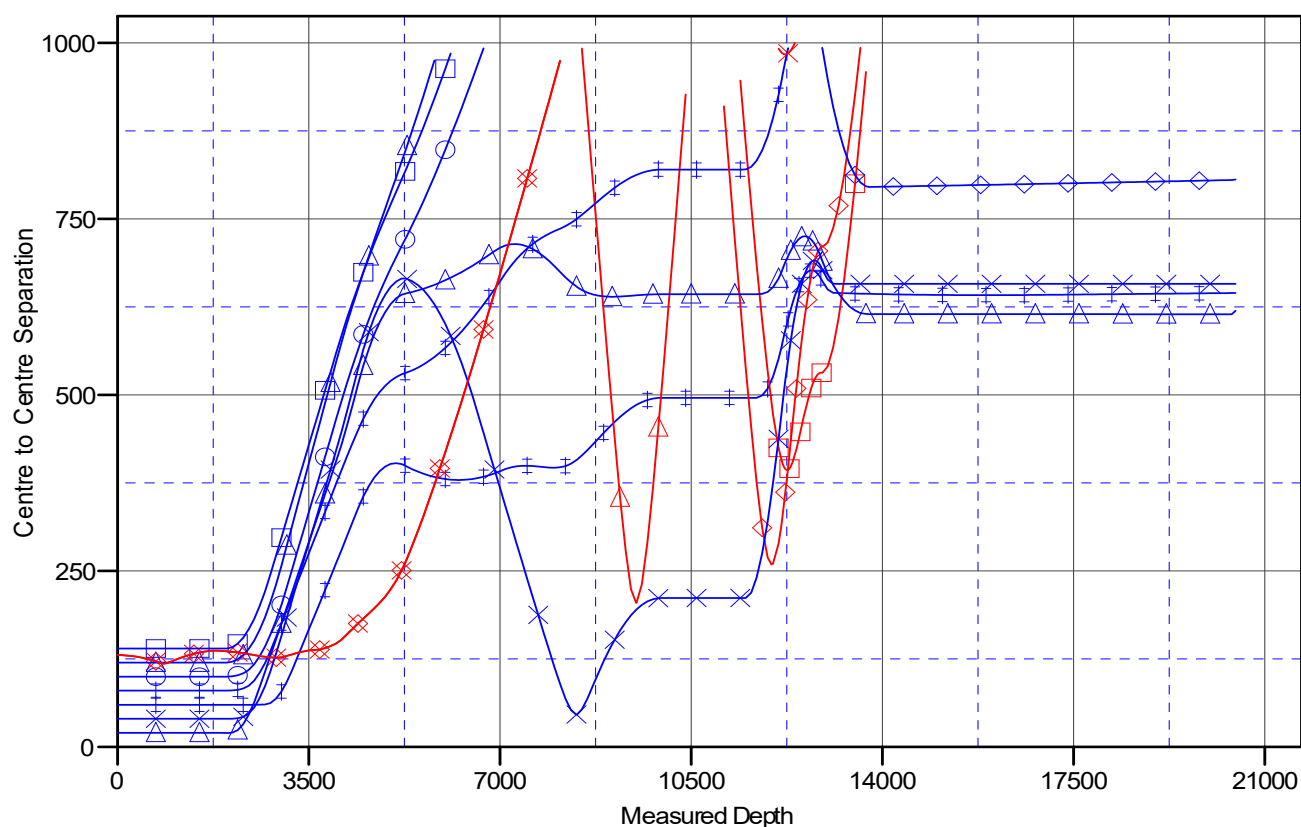
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 803H

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 802H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 711H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0	WILDER FEDERAL 28 1H, ST0, AWP V0	_ZIA HILLS UNIT 2832 WC 712H OWB, PWP0 V0
RED HILLS WEST 21 FEDERAL COM 1H, OWB, AWP V0	RED HILLS WEST 21 W1B0 FEDERAL COM 003H, OWB, AWP V0	WILDER FEDERAL 28 1H, OWB, AWP V0
RED HILLS WEST 21 W1AP FEDERAL COM 002H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 707H OWB, PWP0 V0	BATTLE AXE 27 FEDERAL COM 18H - JC, Original Hole, Staking Design 1 V0
_ZIA HILLS UNIT 2832 WC 709H OWB, PWP0 V0	RED HILLS WEST 21 W0AP FEDERAL COM 003H, OWB, AWP V0	

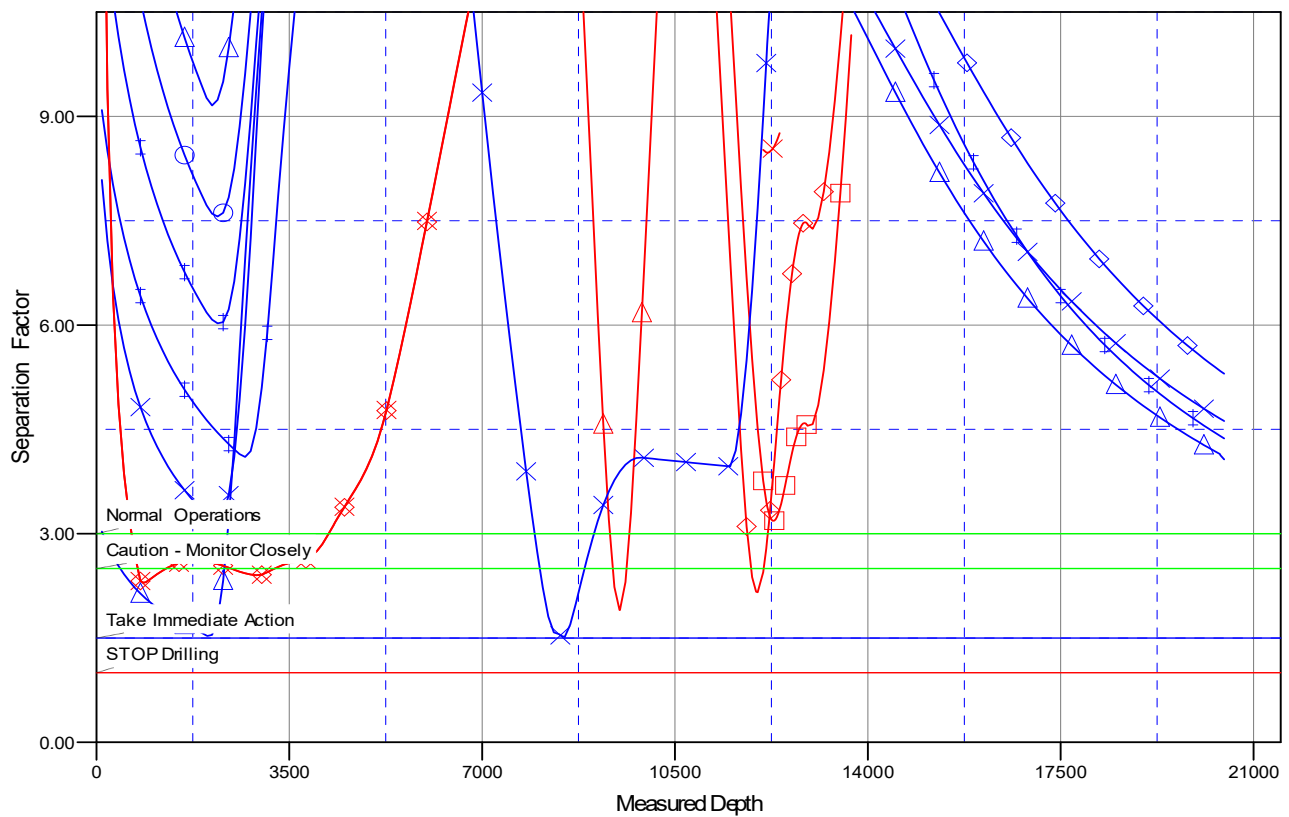
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 803H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	kb @ 3170.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	kb @ 3170.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 803H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to kb @ 3170.6usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 803H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.35°

Separation Factor Plot**LEGEND**

Blue circle: _ZIA HILLS UNIT 2832 WC 710H OWB, PWP0 V0
Blue triangle: _ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0
Red circle: RED HILLS WEST 21 FEDERAL COM 1H, OWB, AWP V0
Red triangle: RED HILLS WEST 21 W1AP FEDERAL COM 002H, OWB, AWP V0
Blue circle: _ZIA HILLS UNIT 2832 WC 709H OWB, PWP0 V0

Blue triangle: _ZIA HILLS UNIT 2832 WC 802H OWB, PWP0 V0
Red circle: WILDER FEDERAL 28 1H, ST0, AWP V0
Red triangle: RED HILLS WEST 21 W1BO FEDERAL COM 003H, OWB, AWP V0
Blue circle: ZIA HILLS UNIT 2832 WC 707H OWB, PWP0 V0
Red circle: RED HILLS WEST 21 W0AP FEDERAL COM 003H, OWB, AWP V0

Blue circle: _ZIA HILLS UNIT 2832 WC 711H OWB, PWP0 V0
Blue triangle: _ZIA HILLS UNIT 2832 WC 712H OWB, PWP0 V0
Red circle: WILDER FEDERAL 28 1H, OWB, AWP V0
Blue triangle: 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

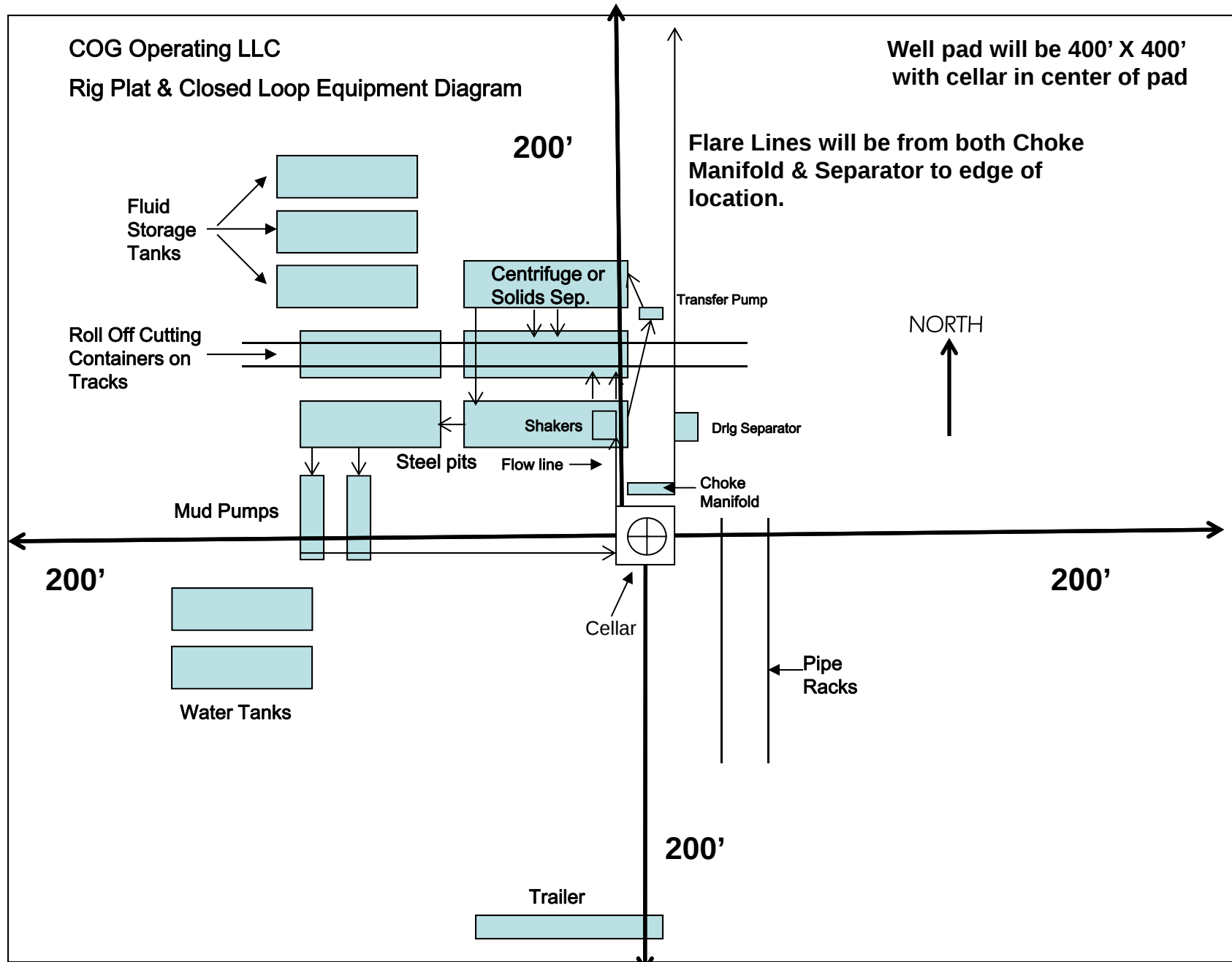


Exhibit 1

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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 01/28/2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2832 WC 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

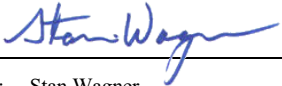
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

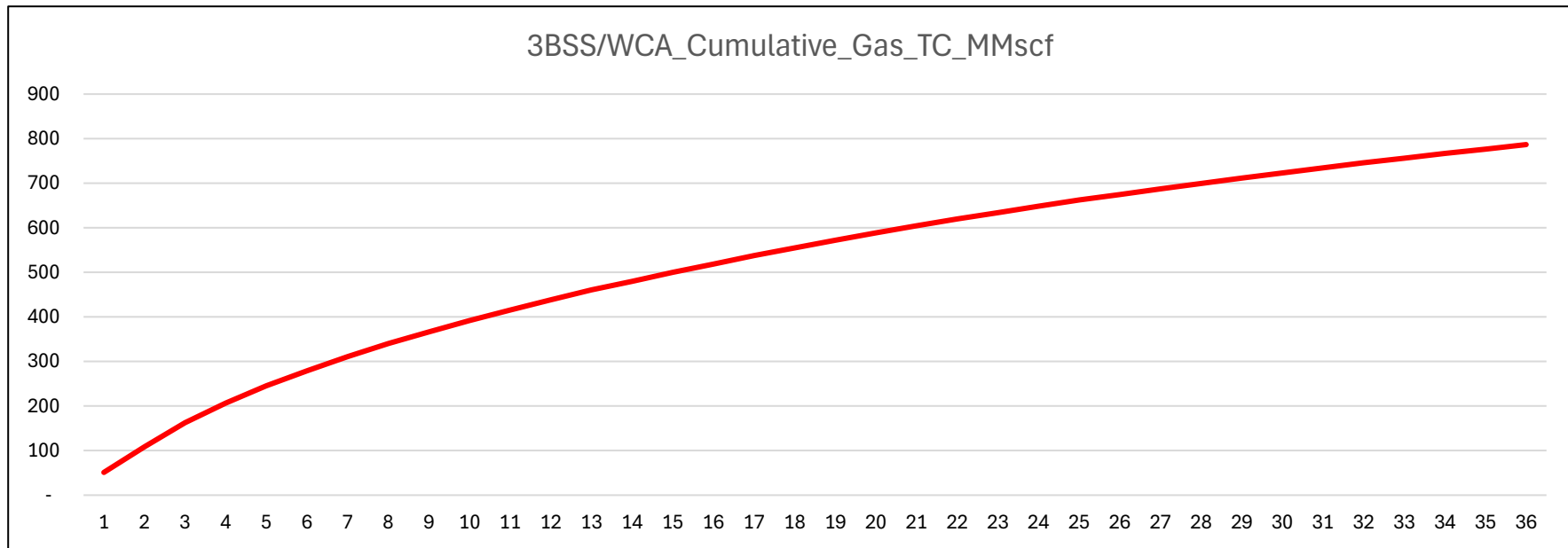
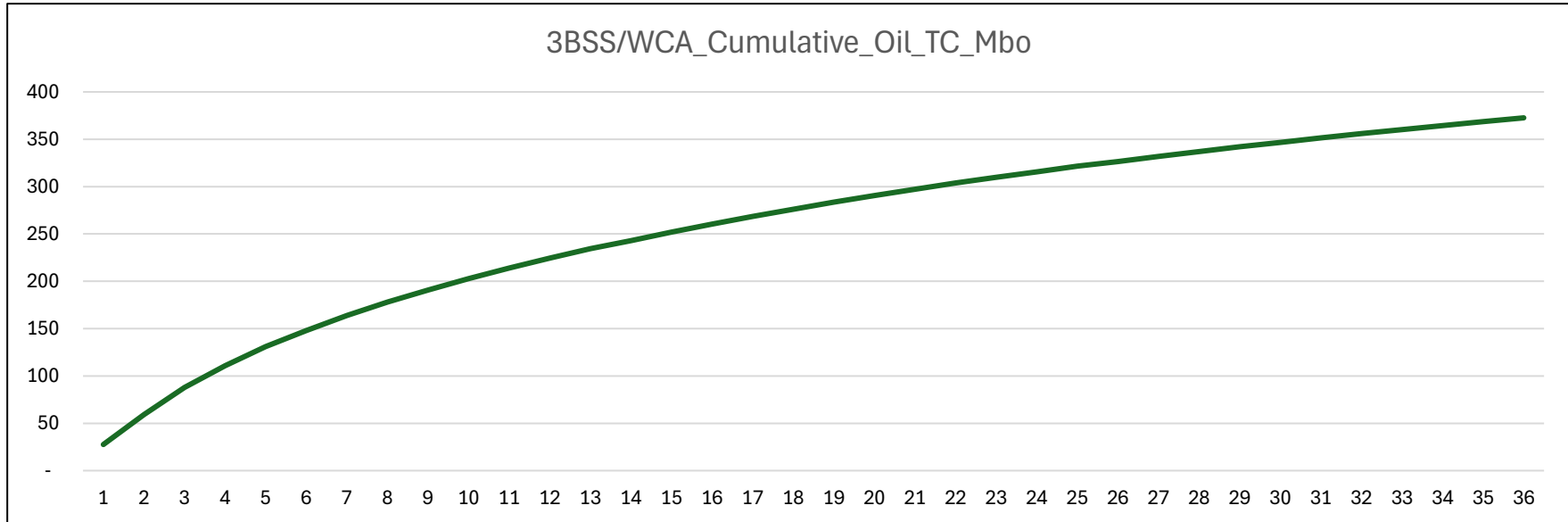
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize 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 803H
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 **810 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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

BOPE Break Testing Variance

- BOPE Break Testing is **ONLY** permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is **NOT** permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in

the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e.

against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 7/1/2025

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/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 520300

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520300
	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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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 520300

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520300
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/27/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/27/2025
jeffrey.harrison	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	12/22/2025
jeffrey.harrison	Any string of casing or liner that is not circulated to surface must have a minimum of 200' of cement tie-back into the previous string of casing.	12/22/2025
jeffrey.harrison	Administrative order required for non-standard spacing unit prior to production.	12/22/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/22/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/22/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/22/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/22/2025