

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. 30-025-55660
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 10/23/2025

Additional Operator Remarks

Location of Well

0. SHL: NENE / 447 FNL / 1024 FEL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019635 / LONG: -103.674668 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2505 FEL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020587 / LONG: -103.679445 (TVD: 11787 feet, MD: 12292 feet)

BHL: LOT 2 / 50 FSL / 2505 FEL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.000362 / LONG: -103.679478 (TVD: 11787 feet, MD: 19649 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- 55660	Pool Code 98091 98081	Pool Name Zia Hills; Wolfcamp
Property Code 338328	Property Name ZIA HILLS UNIT 2832 WC	Well Number 707H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,142'
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 447' FNL	Ft. from E/W 1,024' FEL	Latitude 32.019635°	Longitude -103.674668°	County LEA
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Bottom Hole Location

UL LOT 2	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 2,505' FEL	Latitude 32.000362°	Longitude -103.679478°	County LEA
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Dedicated Acres 898.92	Infill or Defining Well Infill	Defining Well API Pending 802H	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 O	Section 21	Township 26S	Range 32E	Lot	Ft. from N/S 377' FSL	Ft. from E/W 2,517' FEL	Latitude 32.021900°	Longitude -103.679484°	County LEA
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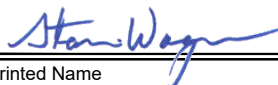
First Take Point (FTP)

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

UL LOT 2	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 2,505' FEL	Latitude 32.000499°	Longitude -103.679478°	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: 3/7/2025	
Signature 	Date 5/12/25	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner	Email Address	Certificate Number 12177	Date of Survey 3/7/2025

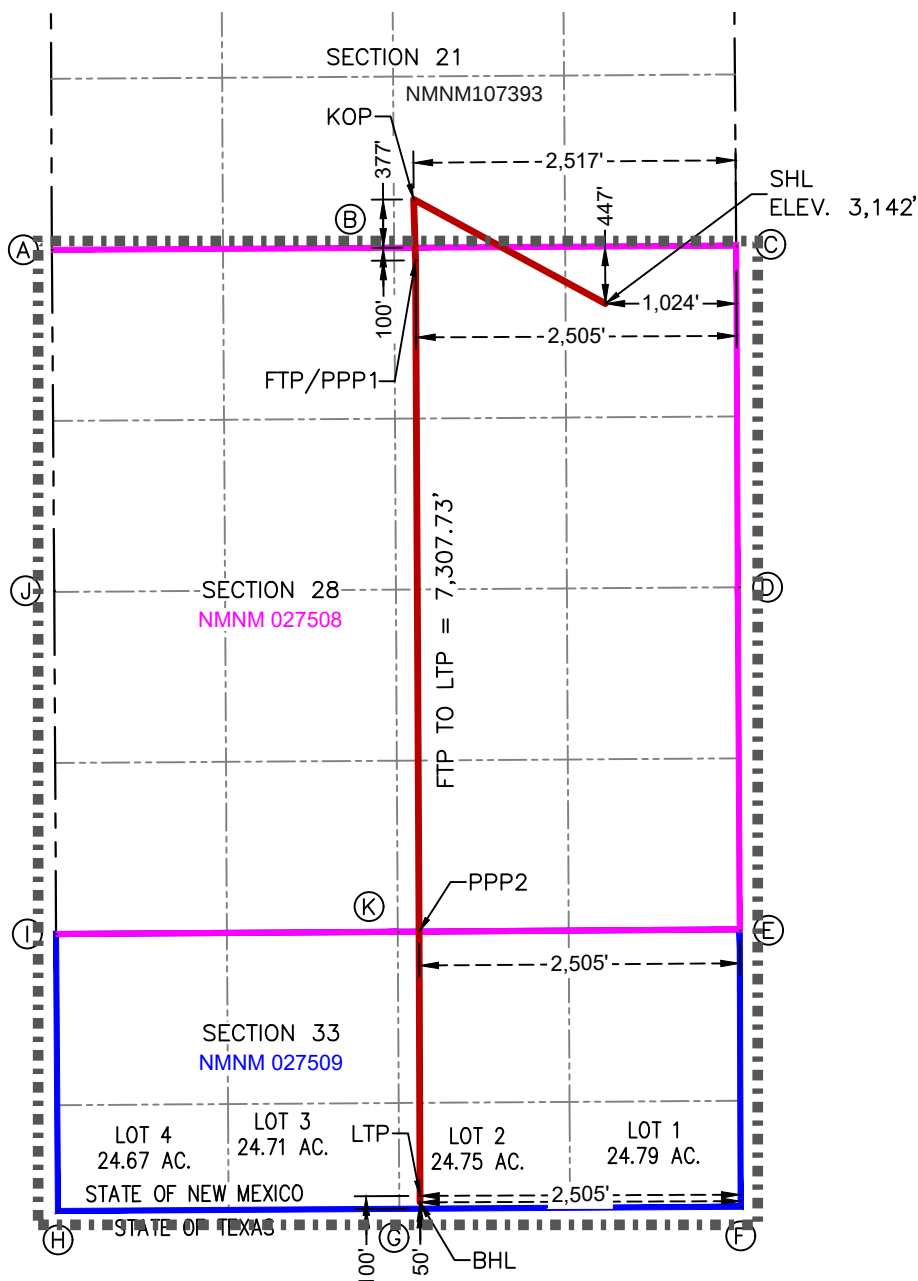
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

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.

ZIA HILLS UNIT 2832 WC 707H



SURFACE HOLE LOCATION
447' FNL & 1,024' FEL
ELEV.=3,142'

NAD 83 X = 745,474.31'
NAD 83 Y = 371,504.23'
NAD 83 LAT = 32.019635°
NAD 83 LONG = -103.674668°

KICK-OFF POINT
377' FSL & 2,517' FEL
NAD 83 X = 743,976.76'
NAD 83 Y = 372,319.07'
NAD 83 LAT = 32.021900°
NAD 83 LONG = -103.679484°

FIRST TAKE POINT & PENETRATION POINT 1
100' FNL & 2,505' FEL
NAD 83 X = 743,991.76'
NAD 83 Y = 371,841.70'
NAD 83 LAT = 32.020587°
NAD 83 LONG = -103.679445°

PENETRATION POINT 2
0' FSL & 2,505' FEL
NAD 83 X = 744,018.34'
NAD 83 Y = 366,598.11'
NAD 83 LAT = 32.006173°
NAD 83 LONG = -103.679461°

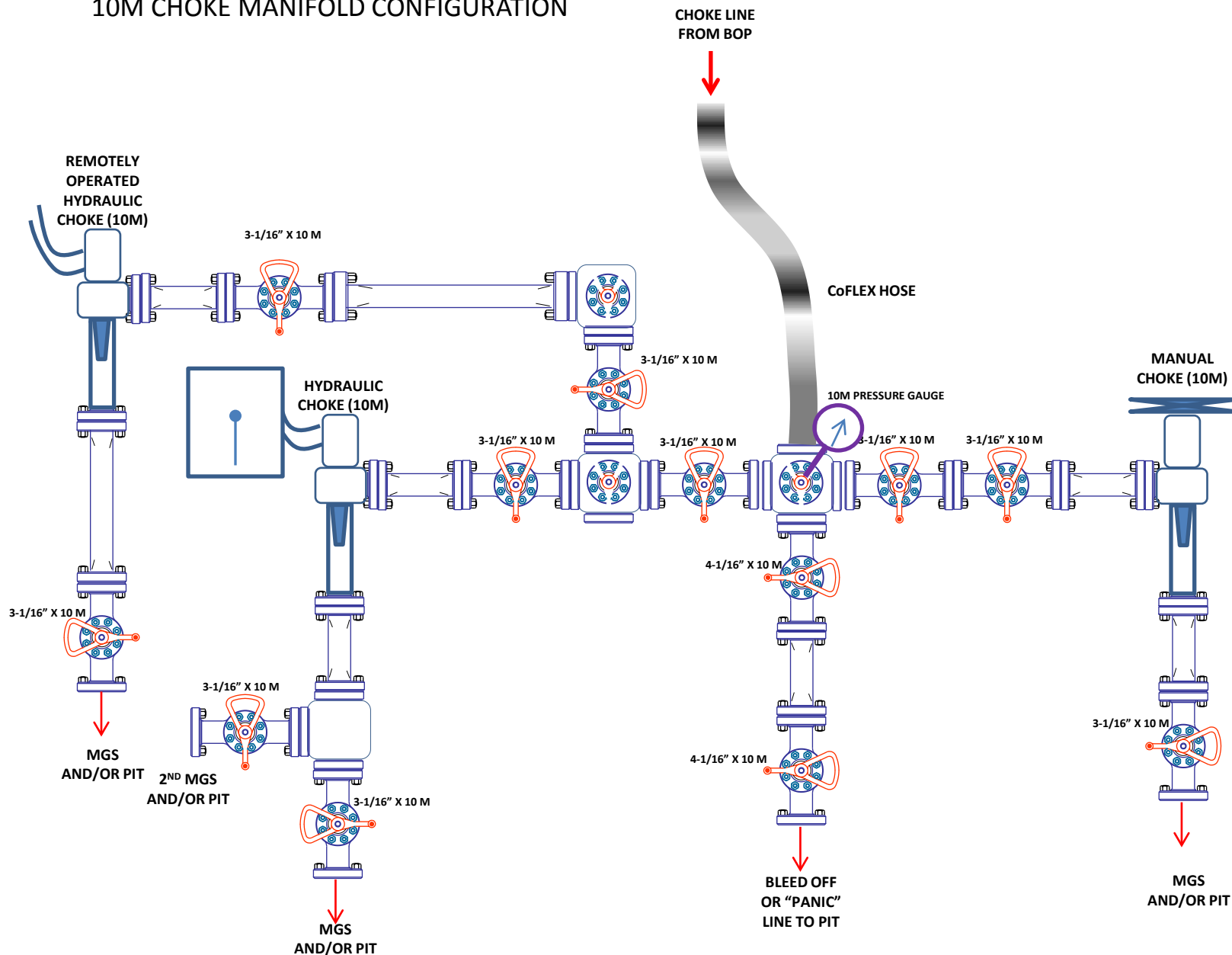
LAST TAKE POINT
100' FSL & 2,505' FEL
NAD 83 X = 744,025.84'
NAD 83 Y = 364,534.05'
NAD 83 LAT = 32.000499°
NAD 83 LONG = -103.679478°

BOTTOM HOLE LOCATION
50' FSL & 2,505' FEL
NAD 83 X = 744,026.02'
NAD 83 Y = 364,484.05'
NAD 83 LAT = 32.000362°
NAD 83 LONG = -103.679478°

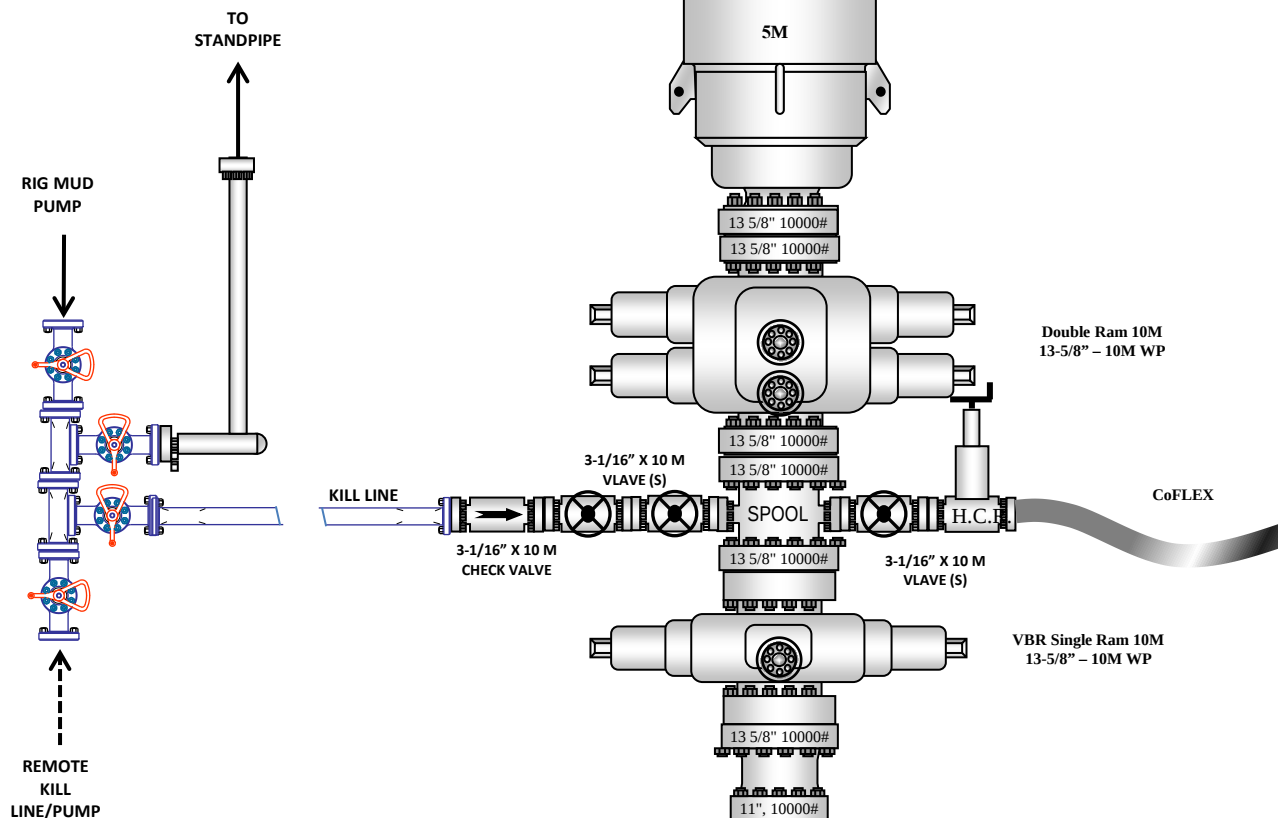
CORNER COORDINATES
NEW MEXICO EAST - NAD 83

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

10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



ConocoPhillips Company - Zia Hills Unit 2832 WC 707H

1. Geologic Formations

TVD of target	11,787' EOL	Pilot hole depth	NA
MD at TD:	19,650'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	693	Water	
Top of Salt	968	Salt	
Base of Salt	4174	Salt	
Lamar	4405	Salt Water	
Bell Canyon	4434	Salt Water	
Cherry Canyon	5343	Oil/Gas	
Brushy Canyon	6797	Oil/Gas	
Bone Spring	8465	Oil/Gas	
1st Bone Spring Sand	9438	Oil/Gas	
2nd Bone Spring Sand	10103	Oil/Gas	
3rd Bone Spring Sand	11226	Oil/Gas	
Wolfcamp	11606	Target	
Wolfcamp A	11808	Not Penetrated	
Wolfcamp B	12151	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	820	13.375"	54.5	J55	BTC	3.01	1.51	19.09	20.34
12.25"	0	4310	9.625"	40	L80-IC	BTC	1.73	1.29	5.31	5.49
8.75"	4110	11400	7.625"	29.7	P110-ICY	W513	1.24	1.56	3.15	1.89
6.75"	0	11200	5.5"	23	P110-CY	BTC	1.85	2.16	2.83	2.83
6.75"	11200	19,650	5.5"	23	P110-CY	W441	1.76	2.05	2.69	2.44
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

ConocoPhillips Company - Zia Hills Unit 2832 WC 707H

	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 707H

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	620	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	810	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	640	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	4,110'	20%
Production	10,900'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 707H

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 707H

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 707H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8275 psi at 11787' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

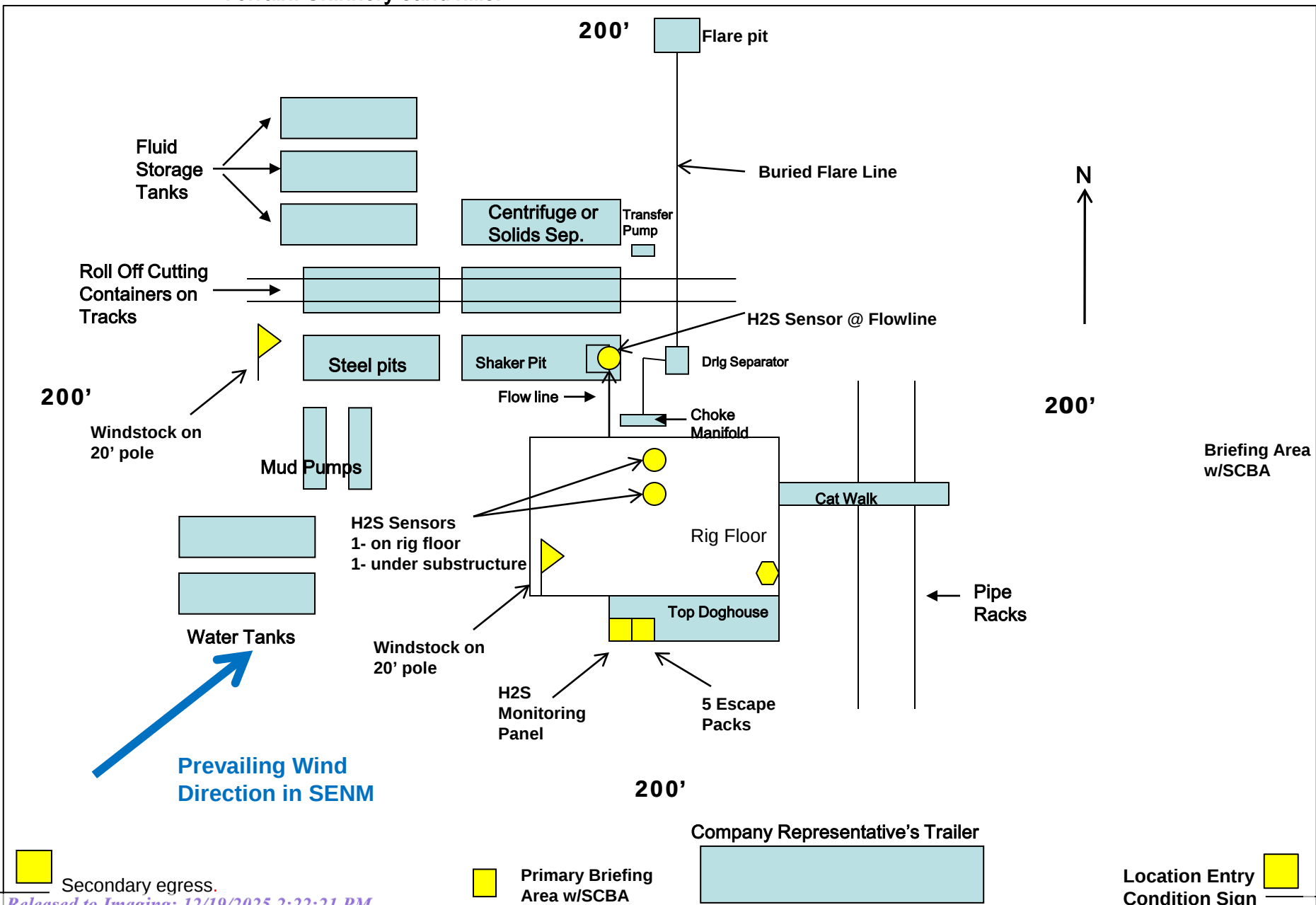
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

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

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

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



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 707H

OWB

PWP0

Anticollision Report

26 February, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

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

Survey Tool Program	Date	2/25/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,649.5	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corri

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						Out of range
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	11,533.5	11,502.6	873.5	833.8	22.038 CC	
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	19,649.9	19,602.2	873.5	743.9	6.738 ES, SF	
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	11,550.0	11,576.4	325.6	260.4	4.996 ES	
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	11,567.0	11,593.4	325.6	260.4	4.997 CC	
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	19,649.9	19,888.2	483.8	329.3	3.132 SF	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	2,000.0	2,002.0	20.0	7.0	1.544 Caution - Monitor Closely, CC	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	2,004.4	2,006.5	20.0	7.0	1.543 Caution - Monitor Closely, ES, SF	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	2,000.0	2,001.8	39.9	27.0	3.084 CC	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0	2,004.4	2,006.3	39.9	27.0	3.081 ES, SF	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,000.0	2,001.5	60.0	47.0	4.629 CC, ES	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0	2,100.0	2,101.5	61.2	47.9	4.622 SF	
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0	2,000.0	2,001.5	79.9	67.7	6.538 CC	
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0	2,004.4	2,006.0	79.9	67.7	6.531 ES	
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0	2,100.0	2,101.7	81.1	68.5	6.469 SF	
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	1,866.0	1,868.0	99.9	87.4	7.941 CC	
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	2,000.0	2,001.5	100.2	87.2	7.737 ES	
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0	2,100.0	2,100.8	102.3	89.1	7.730 SF	
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	1,965.3	1,969.3	20.0	7.2	1.556 Caution - Monitor Closely, CC	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	2,000.0	2,004.0	20.0	7.1	1.545 Caution - Monitor Closely, ES, SF	
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0	2,000.0	2,001.6	119.9	107.0	9.262 CC, ES	
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0	2,100.0	2,101.6	121.2	107.9	9.155 SF	
PAYNE FEDERAL 1_PA - OWB - AWP						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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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

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						
RED HILLS WEST '21' FEDERAL COM 1H - OWB - AW						Out of range
RED HILLS WEST 21 'BO' FEDERAL COM 1H - OWB -	9,565.8	13,717.0	190.9	74.0	1.634	Caution - Monitor Closely, CC, ES, SF
RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP	9,175.5	13,296.8	567.2	452.2	4.935	CC, ES, SF
RED HILLS WEST 21 W0AP FEDERAL COM 003H - OW						Out of range
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW	12,100.0	16,815.0	342.2	213.2	2.653	Normal Operations, ES, SF
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW	12,111.3	16,815.0	342.0	213.3	2.657	Normal Operations, CC
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW						Out of range
RED HILLS WEST 21 W1AP FEDERAL COM 002H - OW						Out of range
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW	12,171.8	17,085.0	848.3	731.0	7.227	CC, ES
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW	12,175.0	17,085.0	848.4	731.0	7.227	SF
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,125.0	16,960.0	618.9	495.0	4.997	SF
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,150.0	16,960.0	617.1	493.8	5.004	ES
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,164.4	16,960.0	616.8	493.9	5.018	CC
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O						Out of range
WILDER FEDERAL 28 1H - OWB - AWP	850.8	843.2	238.4	186.8	4.617	CC, ES, SF
WILDER FEDERAL 28 1H - ST01 - AWP	850.8	843.2	238.4	186.8	4.617	CC, ES, SF
WILDER FEDERAL 28 2H - OWB - AWP	5,844.1	5,719.7	376.6	353.1	16.028	CC, ES
WILDER FEDERAL 28 2H - OWB - AWP	6,000.0	5,859.7	381.3	357.3	15.891	SF
WILDER FEDERAL AC COM 28 3H - OWB - AWP						Out of range

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWPO												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
8,200.0	7,972.7	8,265.0	8,064.2	18.5	17.5	-28.39	792.9	-2,400.0	988.3	953.9	34.45	28.685	
8,300.0	8,071.2	8,349.7	8,148.5	18.7	17.6	-28.43	797.1	-2,392.6	964.7	929.9	34.80	27.723	
8,400.0	8,170.0	8,435.2	8,233.7	18.9	17.8	-28.48	800.7	-2,386.2	943.9	908.8	35.13	26.867	
8,500.0	8,269.1	8,521.4	8,319.7	19.1	17.9	-28.55	803.7	-2,380.9	925.9	890.4	35.46	26.114	
8,600.0	8,368.4	8,608.2	8,406.3	19.2	18.0	-28.64	806.1	-2,376.7	910.6	874.9	35.76	25.463	
8,700.0	8,467.9	8,700.0	8,498.1	19.4	18.2	-28.74	807.9	-2,373.5	898.2	862.2	36.06	24.911	
8,800.0	8,567.5	8,783.1	8,581.1	19.6	18.3	-28.85	809.0	-2,371.7	888.6	852.3	36.33	24.461	
8,900.0	8,667.3	8,871.0	8,669.1	19.7	18.4	-28.97	809.4	-2,371.0	881.9	845.4	36.56	24.123	
9,000.0	8,767.2	8,969.1	8,767.2	19.9	18.4	-29.10	809.4	-2,370.9	877.6	840.8	36.76	23.875	
9,100.0	8,867.1	9,069.1	8,867.1	20.0	18.5	-29.19	809.4	-2,370.9	874.8	837.9	36.94	23.679	
9,200.0	8,967.1	9,169.1	8,967.1	20.1	18.5	-29.23	809.4	-2,370.9	873.5	836.4	37.11	23.540	
9,232.9	9,000.0	9,201.9	9,000.0	20.1	18.6	-90.35	809.4	-2,370.9	873.5	836.3	37.14	23.517	
9,300.0	9,067.1	9,269.1	9,067.1	20.2	18.6	-90.35	809.4	-2,370.9	873.5	836.3	37.20	23.480	
9,400.0	9,167.1	9,369.1	9,167.1	20.2	18.6	-90.35	809.4	-2,370.9	873.5	836.2	37.31	23.413	
9,500.0	9,267.1	9,469.1	9,267.1	20.3	18.7	-90.35	809.4	-2,370.9	873.5	836.1	37.41	23.347	
9,600.0	9,367.1	9,569.1	9,367.1	20.3	18.8	-90.35	809.4	-2,370.9	873.5	835.9	37.52	23.281	
9,700.0	9,467.1	9,669.1	9,467.1	20.4	18.8	-90.35	809.4	-2,370.9	873.5	835.8	37.63	23.215	
9,800.0	9,567.1	9,769.1	9,567.1	20.5	18.9	-90.35	809.4	-2,370.9	873.5	835.7	37.73	23.149	
9,900.0	9,667.1	9,869.1	9,667.1	20.5	18.9	-90.35	809.4	-2,370.9	873.5	835.6	37.84	23.083	
10,000.0	9,767.1	9,969.1	9,767.1	20.6	19.0	-90.35	809.4	-2,370.9	873.5	835.5	37.95	23.017	
10,100.0	9,867.1	10,069.1	9,867.1	20.6	19.0	-90.35	809.4	-2,370.9	873.5	835.4	38.06	22.952	
10,200.0	9,967.1	10,169.1	9,967.1	20.7	19.1	-90.35	809.4	-2,370.9	873.5	835.3	38.17	22.886	
10,300.0	10,067.1	10,269.1	10,067.1	20.7	19.2	-90.35	809.4	-2,370.9	873.5	835.2	38.27	22.821	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
10,400.0	10,167.1	10,369.1	10,167.1	20.8	19.2	-90.35	809.4	-2,370.9	873.5	835.1	38.38	22.756		
10,500.0	10,267.1	10,469.1	10,267.1	20.9	19.3	-90.35	809.4	-2,370.9	873.5	835.0	38.49	22.691		
10,600.0	10,367.1	10,569.1	10,367.1	20.9	19.3	-90.35	809.4	-2,370.9	873.5	834.9	38.60	22.627		
10,700.0	10,467.1	10,669.1	10,467.1	21.0	19.4	-90.35	809.4	-2,370.9	873.5	834.8	38.71	22.562		
10,800.0	10,567.1	10,769.1	10,567.1	21.0	19.4	-90.35	809.4	-2,370.9	873.5	834.6	38.82	22.498		
10,900.0	10,667.1	10,869.1	10,667.1	21.1	19.5	-90.35	809.4	-2,370.9	873.5	834.5	38.94	22.433		
11,000.0	10,767.1	10,969.1	10,767.1	21.2	19.6	-90.35	809.4	-2,370.9	873.5	834.4	39.05	22.369		
11,100.0	10,867.1	11,069.1	10,867.1	21.2	19.6	-90.35	809.4	-2,370.9	873.5	834.3	39.16	22.305		
11,200.0	10,967.1	11,169.1	10,967.1	21.3	19.7	-90.35	809.4	-2,370.9	873.5	834.2	39.27	22.242		
11,300.0	11,067.1	11,269.1	11,067.1	21.3	19.7	-90.35	809.4	-2,370.9	873.5	834.1	39.38	22.178		
11,400.0	11,167.1	11,369.1	11,167.1	21.4	19.8	-90.35	809.4	-2,370.9	873.5	834.0	39.50	22.115		
11,500.0	11,267.1	11,469.1	11,267.1	21.5	19.9	-90.35	809.4	-2,370.9	873.5	833.9	39.61	22.052		
11,533.5	11,300.6	11,502.6	11,300.6	21.5	19.9	-90.36	809.3	-2,370.9	873.5	833.8	39.63	22.038 CC		
11,542.4	11,309.5	11,511.4	11,309.5	21.5	19.9	-90.37	809.1	-2,370.9	873.5	833.8	39.64	22.037		
11,550.0	11,317.1	11,519.1	11,317.1	21.5	19.9	89.97	808.8	-2,370.9	873.5	833.8	39.64	22.037		
11,575.0	11,342.1	11,544.0	11,342.0	21.5	19.8	89.91	806.9	-2,370.9	873.5	833.8	39.63	22.042		
11,600.0	11,367.0	11,568.9	11,366.6	21.4	19.8	89.85	803.6	-2,370.9	873.5	833.9	39.61	22.051		
11,625.0	11,391.7	11,593.7	11,391.1	21.4	19.8	89.80	799.2	-2,370.9	873.5	833.9	39.59	22.063		
11,650.0	11,416.2	11,618.5	11,415.2	21.4	19.8	89.74	793.4	-2,370.8	873.5	833.9	39.56	22.079		
11,675.0	11,440.4	11,643.3	11,438.9	21.4	19.8	89.68	786.5	-2,370.8	873.5	833.9	39.53	22.097		
11,700.0	11,464.3	11,668.0	11,462.3	21.4	19.7	89.63	778.3	-2,370.8	873.5	834.0	39.49	22.117		
11,725.0	11,487.7	11,692.7	11,485.1	21.3	19.7	89.58	768.9	-2,370.7	873.5	834.0	39.45	22.141		
11,750.0	11,510.6	11,717.3	11,507.4	21.3	19.7	89.52	758.4	-2,370.6	873.5	834.1	39.41	22.166		
11,775.0	11,533.0	11,741.9	11,529.0	21.3	19.7	89.47	746.8	-2,370.6	873.5	834.1	39.36	22.194		
11,800.0	11,554.8	11,766.5	11,550.1	21.3	19.7	89.42	734.1	-2,370.5	873.5	834.2	39.30	22.224		
11,825.0	11,575.9	11,791.0	11,570.4	21.2	19.6	89.38	720.4	-2,370.4	873.5	834.3	39.25	22.256		
11,850.0	11,596.3	11,815.5	11,589.9	21.2	19.6	89.33	705.6	-2,370.3	873.5	834.3	39.19	22.289		
11,875.0	11,615.9	11,839.9	11,608.6	21.2	19.6	89.28	689.9	-2,370.2	873.5	834.4	39.13	22.323		
11,900.0	11,634.6	11,864.3	11,626.5	21.2	19.6	89.24	673.3	-2,370.1	873.5	834.5	39.07	22.358		
11,925.0	11,652.5	11,888.7	11,643.5	21.2	19.6	89.20	655.8	-2,370.0	873.5	834.5	39.01	22.393		
11,950.0	11,669.4	11,913.1	11,659.6	21.2	19.6	89.16	637.5	-2,369.9	873.6	834.6	38.95	22.429		
11,975.0	11,685.3	11,937.4	11,674.7	21.2	19.6	89.13	618.4	-2,369.8	873.6	834.7	38.89	22.465		
12,000.0	11,700.2	11,961.7	11,688.8	21.2	19.6	89.09	598.6	-2,369.6	873.6	834.7	38.83	22.500		
12,025.0	11,714.0	11,986.0	11,701.8	21.2	19.6	89.06	578.1	-2,369.5	873.6	834.8	38.77	22.535		
12,050.0	11,726.8	12,010.2	11,713.8	21.2	19.6	89.03	557.0	-2,369.4	873.6	834.9	38.71	22.568		
12,075.0	11,738.3	12,034.5	11,724.7	21.2	19.6	89.01	535.4	-2,369.2	873.6	834.9	38.65	22.600		
12,100.0	11,748.7	12,058.7	11,734.4	21.2	19.6	88.98	513.2	-2,369.1	873.6	835.0	38.60	22.631		
12,125.0	11,757.9	12,082.9	11,743.0	21.2	19.6	88.96	490.6	-2,369.0	873.6	835.1	38.55	22.659		
12,150.0	11,765.9	12,107.1	11,750.5	21.2	19.6	88.95	467.6	-2,368.8	873.6	835.1	38.51	22.686		
12,175.0	11,772.6	12,131.3	11,756.8	21.2	19.6	88.93	444.2	-2,368.7	873.6	835.1	38.47	22.710		
12,200.0	11,778.1	12,155.5	11,761.9	21.2	19.7	88.92	420.6	-2,368.5	873.6	835.2	38.43	22.732		
12,225.0	11,782.2	12,179.6	11,765.7	21.3	19.7	88.91	396.8	-2,368.4	873.6	835.2	38.40	22.751		
12,250.0	11,785.1	12,203.8	11,768.4	21.3	19.7	88.90	372.8	-2,368.2	873.6	835.2	38.37	22.767		
12,275.0	11,786.6	12,227.9	11,769.9	21.3	19.7	88.90	348.7	-2,368.1	873.6	835.3	38.35	22.781		
12,292.4	11,787.0	12,244.7	11,770.2	21.3	19.8	88.90	331.9	-2,368.0	873.6	835.3	38.34	22.789		
12,300.0	11,787.0	12,252.3	11,770.2	21.3	19.8	88.90	324.3	-2,367.9	873.6	835.3	38.33	22.791		
12,400.0	11,787.0	12,352.3	11,770.2	21.5	19.9	88.90	224.3	-2,367.3	873.6	835.3	38.34	22.789		
12,500.0	11,787.0	12,452.3	11,770.2	21.7	20.1	88.90	124.3	-2,366.7	873.6	835.2	38.42	22.741		
12,600.0	11,787.0	12,552.3	11,770.2	21.8	20.3	88.90	24.3	-2,366.0	873.6	835.0	38.57	22.649		
12,700.0	11,787.0	12,652.3	11,770.2	22.0	20.5	88.90	-75.7	-2,365.4	873.6	834.8	38.80	22.515		
12,800.0	11,787.0	12,752.3	11,770.2	22.2	20.7	88.90	-175.7	-2,364.8	873.6	834.5	39.10	22.341		

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation	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)	Distance (usft)	Factor	
12,900.0	11,787.0	12,852.3	11,770.2	22.5	21.0	88.90	-275.7	-2,364.2	873.6	834.1	39.48	22.130	
13,000.0	11,787.0	12,952.3	11,770.2	22.7	21.2	88.90	-375.7	-2,363.5	873.6	833.7	39.92	21.884	
13,100.0	11,787.0	13,052.3	11,770.2	23.0	21.5	88.90	-475.7	-2,362.9	873.6	833.2	40.43	21.608	
13,200.0	11,787.0	13,152.3	11,770.2	23.2	21.8	88.90	-575.7	-2,362.3	873.6	832.6	41.00	21.306	
13,300.0	11,787.0	13,252.3	11,770.2	23.5	22.2	88.90	-675.7	-2,361.7	873.6	832.0	41.64	20.981	
13,400.0	11,787.0	13,352.3	11,770.2	23.9	22.5	88.90	-775.7	-2,361.0	873.6	831.3	42.33	20.637	
13,500.0	11,787.0	13,452.3	11,770.2	24.2	22.9	88.90	-875.7	-2,360.4	873.6	830.5	43.08	20.277	
13,600.0	11,787.0	13,552.3	11,770.2	24.6	23.3	88.90	-975.7	-2,359.8	873.6	829.7	43.89	19.906	
13,700.0	11,787.0	13,652.3	11,770.2	25.0	23.7	88.90	-1,075.7	-2,359.2	873.6	828.9	44.74	19.527	
13,800.0	11,787.0	13,752.3	11,770.2	25.4	24.1	88.90	-1,175.7	-2,358.5	873.6	828.0	45.64	19.141	
13,900.0	11,787.0	13,852.3	11,770.2	25.8	24.6	88.90	-1,275.7	-2,357.9	873.6	827.0	46.58	18.753	
14,000.0	11,787.0	13,952.3	11,770.2	26.2	25.1	88.90	-1,375.7	-2,357.3	873.6	826.0	47.57	18.364	
14,100.0	11,787.0	14,052.3	11,770.2	26.7	25.6	88.90	-1,475.7	-2,356.7	873.6	825.0	48.60	17.976	
14,200.0	11,787.0	14,152.3	11,770.2	27.2	26.1	88.90	-1,575.7	-2,356.0	873.6	823.9	49.66	17.591	
14,300.0	11,787.0	14,252.3	11,770.2	27.7	26.6	88.90	-1,675.7	-2,355.4	873.6	822.8	50.76	17.211	
14,400.0	11,787.0	14,352.3	11,770.2	28.2	27.2	88.90	-1,775.7	-2,354.8	873.6	821.7	51.89	16.836	
14,500.0	11,787.0	14,452.3	11,770.2	28.7	27.7	88.90	-1,875.7	-2,354.1	873.6	820.5	53.05	16.468	
14,600.0	11,787.0	14,552.3	11,770.2	29.3	28.3	88.90	-1,975.7	-2,353.5	873.6	819.4	54.24	16.107	
14,700.0	11,787.0	14,652.3	11,770.2	29.8	28.9	88.90	-2,075.7	-2,352.9	873.6	818.1	55.45	15.755	
14,800.0	11,787.0	14,752.3	11,770.2	30.4	29.5	88.90	-2,175.7	-2,352.3	873.6	816.9	56.69	15.410	
14,900.0	11,787.0	14,852.3	11,770.2	31.0	30.1	88.90	-2,275.7	-2,351.6	873.6	815.6	57.95	15.074	
15,000.0	11,787.0	14,952.3	11,770.2	31.6	30.7	88.90	-2,375.7	-2,351.0	873.6	814.4	59.24	14.748	
15,100.0	11,787.0	15,052.3	11,770.2	32.2	31.4	88.90	-2,475.7	-2,350.4	873.6	813.0	60.54	14.430	
15,200.0	11,787.0	15,152.3	11,770.2	32.8	32.0	88.90	-2,575.7	-2,349.8	873.6	811.7	61.86	14.121	
15,300.0	11,787.0	15,252.3	11,770.2	33.4	32.7	88.90	-2,675.7	-2,349.1	873.6	810.4	63.20	13.822	
15,400.0	11,787.0	15,352.3	11,770.2	34.1	33.4	88.90	-2,775.7	-2,348.5	873.6	809.0	64.56	13.531	
15,500.0	11,787.0	15,452.3	11,770.2	34.7	34.0	88.90	-2,875.7	-2,347.9	873.6	807.6	65.93	13.249	
15,600.0	11,787.0	15,552.3	11,770.2	35.4	34.7	88.90	-2,975.7	-2,347.3	873.6	806.3	67.32	12.976	
15,700.0	11,787.0	15,652.3	11,770.2	36.0	35.4	88.90	-3,075.7	-2,346.6	873.6	804.9	68.72	12.712	
15,800.0	11,787.0	15,752.3	11,770.2	36.7	36.1	88.90	-3,175.7	-2,346.0	873.6	803.4	70.14	12.455	
15,900.0	11,787.0	15,852.3	11,770.2	37.4	36.8	88.90	-3,275.7	-2,345.4	873.6	802.0	71.56	12.207	
16,000.0	11,787.0	15,952.3	11,770.2	38.1	37.5	88.90	-3,375.7	-2,344.8	873.6	800.6	73.00	11.967	
16,100.0	11,787.0	16,052.3	11,770.2	38.8	38.3	88.90	-3,475.7	-2,344.1	873.6	799.1	74.45	11.734	
16,200.0	11,787.0	16,152.3	11,770.2	39.5	39.0	88.90	-3,575.7	-2,343.5	873.6	797.7	75.91	11.508	
16,300.0	11,787.0	16,252.3	11,770.2	40.2	39.7	88.90	-3,675.7	-2,342.9	873.6	796.2	77.38	11.290	
16,400.0	11,787.0	16,352.3	11,770.2	40.9	40.5	88.90	-3,775.7	-2,342.3	873.6	794.7	78.85	11.078	
16,500.0	11,787.0	16,452.3	11,770.2	41.6	41.2	88.90	-3,875.7	-2,341.6	873.6	793.2	80.34	10.873	
16,600.0	11,787.0	16,552.3	11,770.2	42.4	41.9	88.90	-3,975.7	-2,341.0	873.6	791.7	81.83	10.675	
16,700.0	11,787.0	16,652.3	11,770.2	43.1	42.7	88.90	-4,075.7	-2,340.4	873.6	790.2	83.34	10.483	
16,800.0	11,787.0	16,752.3	11,770.2	43.8	43.5	88.90	-4,175.7	-2,339.8	873.6	788.7	84.84	10.296	
16,900.0	11,787.0	16,852.3	11,770.2	44.6	44.2	88.90	-4,275.7	-2,339.1	873.6	787.2	86.36	10.115	
17,000.0	11,787.0	16,952.3	11,770.2	45.3	45.0	88.90	-4,375.6	-2,338.5	873.6	785.7	87.88	9.940	
17,100.0	11,787.0	17,052.3	11,770.2	46.1	45.7	88.90	-4,475.6	-2,337.9	873.6	784.2	89.41	9.770	
17,200.0	11,787.0	17,152.3	11,770.2	46.8	46.5	88.90	-4,575.6	-2,337.3	873.6	782.6	90.94	9.606	
17,300.0	11,787.0	17,252.3	11,770.2	47.6	47.3	88.90	-4,675.6	-2,336.6	873.6	781.1	92.48	9.446	
17,400.0	11,787.0	17,352.3	11,770.2	48.3	48.1	88.90	-4,775.6	-2,336.0	873.6	779.5	94.03	9.290	
17,500.0	11,787.0	17,452.3	11,770.2	49.1	48.8	88.90	-4,875.6	-2,335.4	873.6	778.0	95.58	9.140	
17,600.0	11,787.0	17,552.3	11,770.2	49.9	49.6	88.90	-4,975.6	-2,334.7	873.6	776.4	97.13	8.993	
17,700.0	11,787.0	17,652.3	11,770.2	50.6	50.4	88.90	-5,075.6	-2,334.1	873.6	774.9	98.69	8.851	
17,800.0	11,787.0	17,752.3	11,770.2	51.4	51.2	88.90	-5,175.6	-2,333.5	873.6	773.3	100.25	8.713	
17,900.0	11,787.0	17,852.3	11,770.2	52.2	52.0	88.90	-5,275.6	-2,332.9	873.6	771.7	101.82	8.579	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: 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	
18,000.0	11,787.0	17,952.3	11,770.2	53.0	52.8	88.90	-5,375.6	-2,332.2	873.5	770.2	103.39	8.449		
18,100.0	11,787.0	18,052.3	11,770.2	53.7	53.6	88.90	-5,475.6	-2,331.6	873.5	768.6	104.97	8.322		
18,200.0	11,787.0	18,152.3	11,770.2	54.5	54.4	88.90	-5,575.6	-2,331.0	873.5	767.0	106.55	8.199		
18,300.0	11,787.0	18,252.3	11,770.2	55.3	55.2	88.90	-5,675.6	-2,330.4	873.5	765.4	108.13	8.079		
18,400.0	11,787.0	18,352.3	11,770.2	56.1	56.0	88.90	-5,775.6	-2,329.7	873.5	763.8	109.72	7.962		
18,500.0	11,787.0	18,452.3	11,770.2	56.9	56.8	88.90	-5,875.6	-2,329.1	873.5	762.2	111.30	7.848		
18,600.0	11,787.0	18,552.3	11,770.2	57.7	57.6	88.90	-5,975.6	-2,328.5	873.5	760.6	112.90	7.738		
18,700.0	11,787.0	18,652.3	11,770.2	58.5	58.4	88.90	-6,075.6	-2,327.9	873.5	759.1	114.49	7.630		
18,800.0	11,787.0	18,752.3	11,770.2	59.3	59.2	88.90	-6,175.6	-2,327.2	873.5	757.5	116.09	7.525		
18,900.0	11,787.0	18,852.3	11,770.2	60.0	60.0	88.90	-6,275.6	-2,326.6	873.5	755.9	117.69	7.423		
19,000.0	11,787.0	18,952.3	11,770.2	60.8	60.8	88.90	-6,375.6	-2,326.0	873.5	754.2	119.29	7.323		
19,100.0	11,787.0	19,052.3	11,770.2	61.6	61.6	88.90	-6,475.6	-2,325.4	873.5	752.6	120.90	7.226		
19,200.0	11,787.0	19,152.3	11,770.2	62.4	62.4	88.90	-6,575.6	-2,324.7	873.5	751.0	122.50	7.131		
19,300.0	11,787.0	19,252.3	11,770.2	63.2	63.2	88.90	-6,675.6	-2,324.1	873.5	749.4	124.11	7.038		
19,400.0	11,787.0	19,352.3	11,770.2	64.1	64.0	88.90	-6,775.6	-2,323.5	873.5	747.8	125.72	6.948		
19,500.0	11,787.0	19,452.3	11,770.2	64.9	64.8	88.90	-6,875.6	-2,322.9	873.5	746.2	127.34	6.860		
19,600.0	11,787.0	19,552.3	11,770.2	65.7	65.7	88.90	-6,975.6	-2,322.2	873.5	744.6	128.95	6.774		
19,649.9	11,787.0	19,602.2	11,770.2	66.2	66.1	88.90	-7,025.5	-2,321.9	873.5	743.9	129.64	6.738 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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,100.0	7,874.5	8,311.3	8,115.6	18.3	30.4	-42.11	584.3	-2,331.1	978.1	928.4	49.73	19.671	
8,200.0	7,972.7	8,403.5	8,204.8	18.5	30.8	-42.27	593.8	-2,309.8	939.9	889.5	50.43	18.640	
8,300.0	8,071.2	8,496.2	8,294.5	18.7	31.2	-42.39	603.4	-2,288.4	903.0	851.8	51.13	17.662	
8,400.0	8,170.0	8,589.5	8,384.7	18.9	31.7	-42.47	613.1	-2,266.9	867.2	815.4	51.82	16.734	
8,500.0	8,269.1	8,683.2	8,475.5	19.1	32.2	-42.50	622.8	-2,245.2	832.7	780.2	52.52	15.856	
8,600.0	8,368.4	8,777.5	8,566.6	19.2	32.6	-42.48	632.5	-2,223.5	799.4	746.2	53.20	15.025	
8,700.0	8,467.9	8,872.2	8,658.3	19.4	33.1	-42.39	642.3	-2,201.6	767.3	713.4	53.89	14.239	
8,800.0	8,567.5	8,967.3	8,750.3	19.6	33.5	-42.23	652.2	-2,179.7	736.5	681.9	54.57	13.497	
8,900.0	8,667.3	9,062.8	8,842.7	19.7	34.0	-41.98	662.1	-2,157.6	706.9	651.6	55.24	12.797	
9,000.0	8,767.2	9,158.7	8,935.4	19.9	34.5	-41.64	672.0	-2,135.5	678.5	622.6	55.90	12.138	
9,100.0	8,867.1	9,254.9	9,028.5	20.0	34.9	-41.19	682.0	-2,113.3	651.4	594.9	56.55	11.518	
9,200.0	8,967.1	9,351.4	9,121.9	20.1	35.4	-40.62	692.0	-2,091.0	625.6	568.4	57.19	10.939	
9,232.9	9,000.0	9,383.2	9,152.7	20.1	35.6	-101.53	695.3	-2,083.7	617.4	560.0	57.39	10.758	
9,300.0	9,067.1	9,448.1	9,215.5	20.2	35.9	-101.17	702.0	-2,068.7	600.8	543.0	57.79	10.397	
9,400.0	9,167.1	9,544.9	9,309.1	20.2	36.3	-100.61	712.0	-2,046.3	576.1	517.8	58.38	9.868	
9,500.0	9,267.1	9,641.6	9,402.7	20.3	36.8	-100.00	722.0	-2,024.0	551.5	492.6	58.97	9.352	
9,600.0	9,367.1	9,738.4	9,496.3	20.3	37.3	-99.32	732.0	-2,001.7	527.0	467.4	59.55	8.849	
9,700.0	9,467.1	9,830.5	9,585.4	20.4	37.7	-98.63	741.5	-1,980.6	502.8	442.7	60.09	8.367	
9,800.0	9,567.1	9,920.2	9,672.6	20.5	38.2	-97.94	750.1	-1,961.3	480.0	419.4	60.60	7.921	
9,900.0	9,667.1	10,010.6	9,760.8	20.5	38.6	-97.23	758.3	-1,943.1	458.8	397.7	61.09	7.511	
10,000.0	9,767.1	10,100.0	9,848.3	20.6	39.0	-96.52	765.8	-1,926.3	439.2	377.7	61.53	7.138	
10,100.0	9,867.1	10,193.3	9,939.9	20.6	39.5	-95.78	773.1	-1,910.2	421.1	359.2	61.97	6.796	
10,200.0	9,967.1	10,285.5	10,030.7	20.7	39.9	-95.05	779.6	-1,895.6	404.6	342.3	62.37	6.488	
10,300.0	10,067.1	10,378.2	10,122.2	20.7	40.3	-94.34	785.6	-1,882.2	389.7	327.0	62.74	6.211	
10,400.0	10,167.1	10,471.3	10,214.4	20.8	40.7	-93.65	791.0	-1,870.1	376.4	313.3	63.08	5.966	
10,500.0	10,267.1	10,564.8	10,307.2	20.9	41.1	-93.00	795.8	-1,859.4	364.6	301.2	63.40	5.751	
10,600.0	10,367.1	10,658.8	10,400.5	20.9	41.5	-92.40	800.0	-1,850.0	354.4	290.7	63.70	5.564	
10,700.0	10,467.1	10,753.0	10,494.3	21.0	41.8	-91.86	803.6	-1,842.0	345.7	281.8	63.97	5.405	
10,800.0	10,567.1	10,847.5	10,588.5	21.0	42.2	-91.39	806.6	-1,835.4	338.6	274.4	64.22	5.273	
10,900.0	10,667.1	10,942.2	10,683.1	21.1	42.5	-91.01	808.9	-1,830.2	333.1	268.6	64.45	5.168	
11,000.0	10,767.1	11,037.1	10,777.9	21.2	42.8	-90.72	810.6	-1,826.4	329.1	264.4	64.67	5.089	
11,100.0	10,867.1	11,132.0	10,872.8	21.2	43.1	-90.54	811.7	-1,824.0	326.6	261.7	64.85	5.036	
11,200.0	10,967.1	11,227.1	10,967.8	21.3	43.3	-90.47	812.1	-1,823.1	325.6	260.6	64.96	5.012	
11,239.0	11,006.1	11,265.3	11,006.1	21.3	43.3	-90.47	812.1	-1,823.0	325.6	260.6	64.98	5.010	
11,300.0	11,067.1	11,326.4	11,067.1	21.3	43.3	-90.47	812.1	-1,823.0	325.6	260.5	65.01	5.008	
11,400.0	11,167.1	11,426.4	11,167.1	21.4	43.3	-90.47	812.1	-1,823.0	325.6	260.5	65.08	5.002	
11,500.0	11,267.1	11,526.4	11,267.1	21.5	43.4	-90.47	812.1	-1,823.0	325.6	260.4	65.15	4.997	
11,542.4	11,309.5	11,568.7	11,309.5	21.5	43.4	-90.47	812.1	-1,823.0	325.6	260.4	65.17	4.996	
11,550.0	11,317.1	11,576.4	11,317.1	21.5	43.4	89.90	812.1	-1,823.0	325.6	260.4	65.17	4.996 ES	
11,567.0	11,334.1	11,593.4	11,334.1	21.5	43.4	90.00	812.1	-1,823.0	325.6	260.4	65.15	4.997 CC	
11,575.0	11,342.1	11,601.3	11,342.1	21.5	43.4	90.08	812.1	-1,823.0	325.6	260.4	65.14	4.998	
11,600.0	11,367.0	11,626.2	11,367.0	21.4	43.4	90.50	812.1	-1,823.0	325.6	260.5	65.05	5.005	
11,625.0	11,391.7	11,650.9	11,391.7	21.4	43.4	91.13	812.1	-1,823.0	325.6	260.7	64.91	5.017	
11,650.0	11,416.2	11,675.4	11,416.2	21.4	43.4	91.96	812.1	-1,823.0	325.8	261.1	64.71	5.035	
11,675.0	11,440.4	11,699.7	11,440.4	21.4	43.4	92.99	812.1	-1,823.0	326.0	261.6	64.44	5.059	
11,700.0	11,464.3	11,723.5	11,464.3	21.4	43.4	94.18	812.1	-1,823.0	326.5	262.4	64.11	5.093	
11,725.0	11,487.7	11,746.9	11,487.7	21.3	43.4	95.51	812.1	-1,823.0	327.3	263.6	63.71	5.138	
11,750.0	11,510.6	11,769.9	11,510.6	21.3	43.4	96.96	812.1	-1,823.0	328.5	265.3	63.22	5.196	
11,775.0	11,533.0	11,792.3	11,533.1	21.3	43.4	98.43	811.8	-1,823.1	330.2	267.5	62.68	5.267	
11,800.0	11,554.8	11,815.2	11,555.9	21.3	43.4	99.87	810.3	-1,823.3	332.3	270.2	62.14	5.348	
11,825.0	11,575.9	11,838.5	11,579.1	21.2	43.3	101.27	807.7	-1,823.7	335.1	273.4	61.62	5.438	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,850.0	11,596.3	11,862.4	11,602.6	21.2	43.3	102.64	803.9	-1,824.3	338.3	277.2	61.12	5.535	
11,875.0	11,615.9	11,886.8	11,626.5	21.2	43.2	103.97	798.9	-1,825.1	342.0	281.4	60.65	5.639	
11,900.0	11,634.6	11,911.8	11,650.7	21.2	43.2	105.25	792.4	-1,826.1	346.2	286.0	60.23	5.748	
11,925.0	11,652.5	11,937.5	11,675.0	21.2	43.1	106.48	784.5	-1,827.3	350.9	291.0	59.86	5.861	
11,950.0	11,669.4	11,963.8	11,699.6	21.2	43.0	107.67	775.1	-1,828.8	356.0	296.4	59.55	5.977	
11,975.0	11,685.3	11,990.9	11,724.2	21.2	43.0	108.79	764.0	-1,830.5	361.4	302.1	59.31	6.094	
12,000.0	11,700.2	12,018.8	11,748.9	21.2	42.9	109.86	751.1	-1,832.5	367.2	308.1	59.14	6.210	
12,025.0	11,714.0	12,047.6	11,773.5	21.2	42.8	110.87	736.4	-1,834.8	373.4	314.3	59.04	6.324	
12,050.0	11,726.8	12,077.3	11,797.9	21.2	42.8	111.82	719.7	-1,837.4	379.7	320.7	59.03	6.433	
12,075.0	11,738.3	12,107.9	11,822.0	21.2	42.7	112.69	700.9	-1,840.3	386.3	327.2	59.11	6.536	
12,100.0	11,748.7	12,139.6	11,845.5	21.2	42.6	113.50	680.0	-1,843.5	393.1	333.8	59.27	6.631	
12,125.0	11,757.9	12,172.4	11,868.3	21.2	42.6	114.23	656.7	-1,847.1	399.9	340.4	59.53	6.717	
12,150.0	11,765.9	12,206.3	11,890.1	21.2	42.5	114.88	631.1	-1,851.1	406.8	346.9	59.89	6.793	
12,175.0	11,772.6	12,241.4	11,910.7	21.2	42.4	115.44	603.0	-1,855.4	413.7	353.4	60.34	6.856	
12,200.0	11,778.1	12,277.7	11,929.8	21.2	42.4	115.91	572.4	-1,860.2	420.5	359.6	60.88	6.908	
12,225.0	11,782.2	12,315.3	11,947.0	21.3	42.4	116.27	539.4	-1,865.3	427.2	365.7	61.50	6.947	
12,250.0	11,785.1	12,354.1	11,961.9	21.3	42.3	116.53	504.1	-1,870.7	433.7	371.5	62.19	6.974	
12,275.0	11,786.6	12,394.0	11,974.2	21.3	42.3	116.68	466.5	-1,876.6	439.9	377.0	62.94	6.989	
12,292.4	11,787.0	12,422.4	11,980.9	21.3	42.3	116.70	439.2	-1,880.8	444.1	380.6	63.49	6.995	
12,300.0	11,787.0	12,435.1	11,983.4	21.3	42.3	116.88	427.0	-1,882.7	445.8	382.1	63.74	6.995	
12,400.0	11,787.0	12,579.1	11,991.6	21.5	42.4	116.53	285.1	-1,904.1	461.8	395.9	65.90	7.007	
12,500.0	11,787.0	12,695.5	11,991.6	21.7	42.5	115.77	169.5	-1,917.3	472.5	405.6	66.91	7.063	
12,600.0	11,787.0	12,812.8	11,991.6	21.8	42.6	115.29	52.5	-1,925.9	479.7	411.8	67.92	7.062	
12,700.0	11,787.0	12,930.6	11,991.6	22.0	42.8	115.06	-65.3	-1,929.6	483.1	414.2	68.95	7.007	
12,800.0	11,787.0	13,038.3	11,991.6	22.2	42.9	115.03	-173.0	-1,929.4	483.5	413.8	69.70	6.937	
12,900.0	11,787.0	13,138.3	11,991.6	22.5	43.1	115.03	-273.0	-1,928.8	483.5	413.2	70.27	6.881	
13,000.0	11,787.0	13,238.3	11,991.6	22.7	43.3	115.03	-373.0	-1,928.2	483.5	412.6	70.87	6.822	
13,100.0	11,787.0	13,338.3	11,991.6	23.0	43.5	115.03	-473.0	-1,927.5	483.5	412.0	71.51	6.761	
13,200.0	11,787.0	13,438.3	11,991.6	23.2	43.8	115.03	-573.0	-1,926.9	483.5	411.3	72.19	6.698	
13,300.0	11,787.0	13,538.3	11,991.6	23.5	44.0	115.03	-673.0	-1,926.3	483.5	410.6	72.90	6.632	
13,400.0	11,787.0	13,638.3	11,991.6	23.9	44.3	115.03	-773.0	-1,925.7	483.5	409.9	73.65	6.565	
13,500.0	11,787.0	13,738.3	11,991.6	24.2	44.6	115.03	-873.0	-1,925.1	483.5	409.1	74.43	6.497	
13,600.0	11,787.0	13,838.3	11,991.6	24.6	44.9	115.03	-973.0	-1,924.4	483.5	408.3	75.24	6.427	
13,700.0	11,787.0	13,938.3	11,991.6	25.0	45.2	115.03	-1,073.0	-1,923.8	483.5	407.5	76.08	6.356	
13,800.0	11,787.0	14,038.3	11,991.6	25.4	45.5	115.03	-1,173.0	-1,923.2	483.5	406.6	76.94	6.284	
13,900.0	11,787.0	14,138.3	11,991.6	25.8	45.9	115.03	-1,273.0	-1,922.6	483.5	405.7	77.84	6.212	
14,000.0	11,787.0	14,238.3	11,991.6	26.2	46.3	115.03	-1,373.0	-1,922.0	483.5	404.8	78.77	6.139	
14,100.0	11,787.0	14,338.3	11,991.6	26.7	46.6	115.03	-1,473.0	-1,921.3	483.5	403.8	79.72	6.066	
14,200.0	11,787.0	14,438.3	11,991.6	27.2	47.0	115.03	-1,573.0	-1,920.7	483.5	402.9	80.69	5.992	
14,300.0	11,787.0	14,538.3	11,991.6	27.7	47.5	115.03	-1,673.0	-1,920.1	483.6	401.9	81.69	5.919	
14,400.0	11,787.0	14,638.3	11,991.6	28.2	47.9	115.03	-1,773.0	-1,919.5	483.6	400.8	82.72	5.846	
14,500.0	11,787.0	14,738.3	11,991.6	28.7	48.3	115.03	-1,872.9	-1,918.9	483.6	399.8	83.77	5.773	
14,600.0	11,787.0	14,838.3	11,991.6	29.3	48.8	115.03	-1,972.9	-1,918.2	483.6	398.7	84.84	5.700	
14,700.0	11,787.0	14,938.3	11,991.6	29.8	49.3	115.03	-2,072.9	-1,917.6	483.6	397.6	85.93	5.628	
14,800.0	11,787.0	15,038.3	11,991.6	30.4	49.8	115.03	-2,172.9	-1,917.0	483.6	396.5	87.04	5.556	
14,900.0	11,787.0	15,138.3	11,991.6	31.0	50.3	115.03	-2,272.9	-1,916.4	483.6	395.4	88.17	5.485	
15,000.0	11,787.0	15,238.3	11,991.6	31.6	50.8	115.03	-2,372.9	-1,915.8	483.6	394.3	89.32	5.414	
15,100.0	11,787.0	15,338.3	11,991.6	32.2	51.3	115.03	-2,472.9	-1,915.1	483.6	393.1	90.48	5.344	
15,200.0	11,787.0	15,438.3	11,991.6	32.8	51.8	115.03	-2,572.9	-1,914.5	483.6	391.9	91.67	5.275	
15,300.0	11,787.0	15,538.3	11,991.6	33.4	52.4	115.03	-2,672.9	-1,913.9	483.6	390.7	92.87	5.207	
15,400.0	11,787.0	15,638.3	11,991.6	34.1	53.0	115.03	-2,772.9	-1,913.3	483.6	389.5	94.09	5.140	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,500.0	11,787.0	15,738.3	11,991.6	34.7	53.5	115.03	-2,872.9	-1,912.7	483.6	388.3	95.32	5.073	
15,600.0	11,787.0	15,838.3	11,991.6	35.4	54.1	115.03	-2,972.9	-1,912.0	483.6	387.0	96.57	5.008	
15,700.0	11,787.0	15,938.3	11,991.6	36.0	54.7	115.03	-3,072.9	-1,911.4	483.6	385.8	97.83	4.943	
15,800.0	11,787.0	16,038.3	11,991.6	36.7	55.3	115.03	-3,172.9	-1,910.8	483.6	384.5	99.11	4.880	
15,900.0	11,787.0	16,138.3	11,991.6	37.4	55.9	115.03	-3,272.9	-1,910.2	483.6	383.2	100.40	4.817	
16,000.0	11,787.0	16,238.3	11,991.6	38.1	56.6	115.03	-3,372.9	-1,909.6	483.6	381.9	101.70	4.755	
16,100.0	11,787.0	16,338.3	11,991.6	38.8	57.2	115.03	-3,472.9	-1,908.9	483.6	380.6	103.01	4.695	
16,200.0	11,787.0	16,438.3	11,991.6	39.5	57.8	115.03	-3,572.9	-1,908.3	483.6	379.3	104.34	4.635	
16,300.0	11,787.0	16,538.3	11,991.6	40.2	58.5	115.03	-3,672.9	-1,907.7	483.6	378.0	105.68	4.577	
16,400.0	11,787.0	16,638.3	11,991.6	40.9	59.1	115.03	-3,772.9	-1,907.1	483.6	376.6	107.02	4.519	
16,500.0	11,787.0	16,738.3	11,991.6	41.6	59.8	115.03	-3,872.9	-1,906.5	483.6	375.3	108.38	4.462	
16,600.0	11,787.0	16,838.3	11,991.6	42.4	60.5	115.03	-3,972.9	-1,905.8	483.6	373.9	109.75	4.407	
16,700.0	11,787.0	16,938.3	11,991.6	43.1	61.2	115.03	-4,072.9	-1,905.2	483.6	372.5	111.13	4.352	
16,800.0	11,787.0	17,038.3	11,991.6	43.8	61.9	115.03	-4,172.9	-1,904.6	483.7	371.1	112.52	4.298	
16,900.0	11,787.0	17,138.3	11,991.6	44.6	62.6	115.03	-4,272.9	-1,904.0	483.7	369.7	113.92	4.246	
17,000.0	11,787.0	17,238.3	11,991.6	45.3	63.3	115.03	-4,372.9	-1,903.4	483.7	368.3	115.32	4.194	
17,100.0	11,787.0	17,338.3	11,991.6	46.1	64.0	115.03	-4,472.9	-1,902.7	483.7	366.9	116.73	4.143	
17,200.0	11,787.0	17,438.3	11,991.6	46.8	64.7	115.03	-4,572.9	-1,902.1	483.7	365.5	118.16	4.093	
17,300.0	11,787.0	17,538.3	11,991.6	47.6	65.4	115.03	-4,672.9	-1,901.5	483.7	364.1	119.59	4.045	
17,400.0	11,787.0	17,638.3	11,991.6	48.3	66.2	115.02	-4,772.9	-1,900.9	483.7	362.7	121.02	3.997	
17,500.0	11,787.0	17,738.3	11,991.6	49.1	66.9	115.02	-4,872.9	-1,900.3	483.7	361.2	122.47	3.949	
17,600.0	11,787.0	17,838.3	11,991.6	49.9	67.6	115.02	-4,972.9	-1,899.6	483.7	359.8	123.92	3.903	
17,700.0	11,787.0	17,938.3	11,991.6	50.6	68.4	115.02	-5,072.9	-1,899.0	483.7	358.3	125.38	3.858	
17,800.0	11,787.0	18,038.3	11,991.6	51.4	69.1	115.02	-5,172.9	-1,898.4	483.7	356.8	126.84	3.813	
17,900.0	11,787.0	18,138.3	11,991.6	52.2	69.9	115.02	-5,272.9	-1,897.8	483.7	355.4	128.31	3.770	
18,000.0	11,787.0	18,238.3	11,991.6	53.0	70.7	115.02	-5,372.9	-1,897.2	483.7	353.9	129.79	3.727	
18,100.0	11,787.0	18,338.3	11,991.6	53.7	71.4	115.02	-5,472.9	-1,896.5	483.7	352.4	131.27	3.685	
18,200.0	11,787.0	18,438.3	11,991.6	54.5	72.2	115.02	-5,572.9	-1,895.9	483.7	350.9	132.76	3.643	
18,300.0	11,787.0	18,538.3	11,991.6	55.3	73.0	115.02	-5,672.9	-1,895.3	483.7	349.5	134.26	3.603	
18,400.0	11,787.0	18,638.3	11,991.6	56.1	73.8	115.02	-5,772.9	-1,894.7	483.7	348.0	135.76	3.563	
18,500.0	11,787.0	18,738.3	11,991.6	56.9	74.6	115.02	-5,872.9	-1,894.1	483.7	346.5	137.26	3.524	
18,600.0	11,787.0	18,838.3	11,991.6	57.7	75.4	115.02	-5,972.9	-1,893.4	483.7	345.0	138.77	3.486	
18,700.0	11,787.0	18,938.3	11,991.6	58.5	76.2	115.02	-6,072.9	-1,892.8	483.7	343.4	140.28	3.448	
18,800.0	11,787.0	19,038.3	11,991.6	59.3	77.0	115.02	-6,172.9	-1,892.2	483.7	341.9	141.80	3.411	
18,900.0	11,787.0	19,138.3	11,991.6	60.0	77.8	115.02	-6,272.9	-1,891.6	483.7	340.4	143.33	3.375	
19,000.0	11,787.0	19,238.3	11,991.6	60.8	78.6	115.02	-6,372.9	-1,891.0	483.7	338.9	144.85	3.339	
19,100.0	11,787.0	19,338.3	11,991.6	61.6	79.4	115.02	-6,472.9	-1,890.3	483.7	337.4	146.39	3.305	
19,200.0	11,787.0	19,438.3	11,991.6	62.4	80.2	115.02	-6,572.9	-1,889.7	483.7	335.8	147.92	3.270	
19,300.0	11,787.0	19,538.3	11,991.6	63.2	81.0	115.02	-6,672.9	-1,889.1	483.8	334.3	149.46	3.237	
19,400.0	11,787.0	19,638.3	11,991.6	64.1	81.8	115.02	-6,772.9	-1,888.5	483.8	332.7	151.01	3.204	
19,500.0	11,787.0	19,738.3	11,991.6	64.9	82.7	115.02	-6,872.9	-1,887.9	483.8	331.2	152.55	3.171	
19,600.0	11,787.0	19,838.3	11,991.6	65.7	83.4	115.02	-6,972.9	-1,887.2	483.8	329.8	153.96	3.142	
19,649.9	11,787.0	19,888.2	11,991.6	66.2	83.8	115.02	-7,022.7	-1,886.9	483.8	329.3	154.47	3.132 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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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	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	2.0	0.0	3.0	3.0	126.05	-11.8	16.2	20.0				
100.0	100.0	102.0	100.0	3.1	3.1	126.05	-11.8	16.2	20.0	13.4	6.61	3.024	
200.0	200.0	202.0	200.0	3.3	3.3	126.05	-11.8	16.2	20.0	12.9	7.07	2.831 Normal Operations	
300.0	300.0	302.0	300.0	3.6	3.6	126.05	-11.8	16.2	20.0	12.5	7.49	2.670 Normal Operations	
400.0	400.0	402.0	400.0	3.8	3.8	126.05	-11.8	16.2	20.0	12.1	7.90	2.533 Normal Operations	
500.0	500.0	502.0	500.0	4.0	4.0	126.05	-11.8	16.2	20.0	11.7	8.28	2.414 Caution - Monitor Closely	
600.0	600.0	602.0	600.0	4.1	4.1	126.05	-11.8	16.2	20.0	11.3	8.66	2.311 Caution - Monitor Closely	
700.0	700.0	702.0	700.0	4.3	4.3	126.05	-11.8	16.2	20.0	11.0	9.01	2.219 Caution - Monitor Closely	
800.0	800.0	802.0	800.0	4.5	4.5	126.05	-11.8	16.2	20.0	10.6	9.36	2.136 Caution - Monitor Closely	
900.0	900.0	902.0	900.0	4.7	4.7	126.05	-11.8	16.2	20.0	10.3	9.70	2.062 Caution - Monitor Closely	
1,000.0	1,000.0	1,002.0	1,000.0	4.8	4.8	126.05	-11.8	16.2	20.0	10.0	10.03	1.995 Caution - Monitor Closely	
1,100.0	1,100.0	1,102.0	1,100.0	5.0	5.0	126.05	-11.8	16.2	20.0	9.7	10.35	1.933 Caution - Monitor Closely	
1,200.0	1,200.0	1,202.0	1,200.0	5.2	5.2	126.05	-11.8	16.2	20.0	9.3	10.66	1.876 Caution - Monitor Closely	
1,300.0	1,300.0	1,302.0	1,300.0	5.3	5.3	126.05	-11.8	16.2	20.0	9.0	10.96	1.824 Caution - Monitor Closely	
1,400.0	1,400.0	1,402.0	1,400.0	5.5	5.5	126.05	-11.8	16.2	20.0	8.7	11.26	1.776 Caution - Monitor Closely	
1,500.0	1,500.0	1,502.0	1,500.0	5.6	5.6	126.05	-11.8	16.2	20.0	8.4	11.56	1.731 Caution - Monitor Closely	
1,600.0	1,600.0	1,602.0	1,600.0	5.8	5.8	126.05	-11.8	16.2	20.0	8.2	11.84	1.689 Caution - Monitor Closely	
1,700.0	1,700.0	1,702.0	1,700.0	5.9	5.9	126.05	-11.8	16.2	20.0	7.9	12.13	1.649 Caution - Monitor Closely	
1,800.0	1,800.0	1,802.0	1,800.0	6.0	6.0	126.05	-11.8	16.2	20.0	7.6	12.41	1.612 Caution - Monitor Closely	
1,900.0	1,900.0	1,902.0	1,900.0	6.2	6.2	126.05	-11.8	16.2	20.0	7.3	12.68	1.577 Caution - Monitor Closely	
2,000.0	2,000.0	2,002.0	2,000.0	6.3	6.3	126.05	-11.8	16.2	20.0	7.0	12.95	1.544 Caution - Monitor Closely, CC	
2,004.4	2,004.4	2,006.5	2,004.5	6.3	6.3	-158.97	-11.8	16.2	20.0	7.0	12.96	1.543 Caution - Monitor Closely, ES, SF	
2,100.0	2,100.0	2,102.2	2,100.1	6.5	6.5	-163.76	-10.5	16.5	20.8	7.6	13.24	1.571 Caution - Monitor Closely	
2,200.0	2,199.9	2,202.1	2,200.0	6.6	6.7	-175.60	-6.6	17.6	24.0	10.5	13.52	1.773 Caution - Monitor Closely	
2,300.0	2,299.7	2,301.6	2,299.3	6.8	6.9	171.15	-0.3	19.3	30.8	17.0	13.79	2.233 Caution - Monitor Closely	
2,333.3	2,332.9	2,334.7	2,332.3	6.8	6.9	167.25	2.4	20.0	34.0	20.2	13.83	2.462 Caution - Monitor Closely	
2,400.0	2,399.3	2,401.7	2,399.0	6.9	7.0	157.15	8.3	20.7	41.1	27.1	13.97	2.942 Normal Operations	
2,500.0	2,498.5	2,502.5	2,499.3	7.1	7.2	148.10	18.3	19.1	51.7	37.4	14.32	3.613	
2,600.0	2,597.2	2,603.6	2,599.7	7.3	7.4	142.88	29.5	14.1	62.1	47.5	14.64	4.244	
2,700.0	2,695.3	2,705.1	2,700.0	7.5	7.7	139.73	42.0	5.8	72.0	57.0	14.92	4.824	
2,800.0	2,792.6	2,807.0	2,800.2	7.6	7.9	137.83	55.8	-6.0	81.2	66.0	15.19	5.348	
2,900.0	2,889.2	2,909.1	2,900.1	7.8	8.2	136.76	70.8	-21.1	89.8	74.4	15.46	5.810	
2,932.6	2,920.4	2,942.4	2,932.6	7.9	8.3	136.55	76.0	-26.8	92.5	77.0	15.52	5.959	
3,000.0	2,985.0	3,011.6	2,999.6	7.9	8.5	136.42	87.1	-39.6	97.3	81.6	15.66	6.212	
3,100.0	3,080.7	3,112.2	3,096.6	8.1	8.8	135.60	104.0	-60.3	102.6	86.8	15.89	6.461	
3,200.0	3,176.4	3,212.1	3,192.9	8.2	9.1	134.82	120.8	-80.9	107.9	91.7	16.19	6.667	
3,300.0	3,272.2	3,311.9	3,289.1	8.4	9.4	134.11	137.6	-101.5	113.2	96.7	16.51	6.861	
3,400.0	3,367.9	3,411.8	3,385.4	8.5	9.7	133.47	154.3	-122.2	118.6	101.7	16.84	7.043	
3,500.0	3,463.7	3,511.6	3,481.6	8.7	10.1	132.88	171.1	-142.8	123.9	106.7	17.18	7.214	
3,600.0	3,559.4	3,611.5	3,577.9	8.9	10.4	132.34	187.9	-163.4	129.3	111.7	17.53	7.373	
3,700.0	3,655.1	3,711.3	3,674.1	9.0	10.8	131.84	204.7	-184.0	134.6	116.7	17.90	7.523	
3,800.0	3,750.9	3,811.2	3,770.4	9.2	11.2	131.38	221.5	-204.6	140.0	121.7	18.27	7.663	
3,900.0	3,846.6	3,911.0	3,866.6	9.4	11.5	130.96	238.3	-225.2	145.4	126.7	18.65	7.793	
4,000.0	3,942.4	4,010.9	3,962.9	9.5	11.9	130.57	255.0	-245.9	150.8	131.7	19.05	7.916	
4,100.0	4,038.1	4,110.7	4,059.1	9.7	12.3	130.20	271.8	-266.5	156.2	136.7	19.45	8.030	
4,200.0	4,133.9	4,210.6	4,155.3	9.9	12.8	129.86	288.6	-287.1	161.6	141.7	19.85	8.137	
4,300.0	4,229.6	4,310.4	4,251.6	10.1	13.2	129.54	305.4	-307.7	167.0	146.7	20.27	8.237	
4,400.0	4,325.3	4,410.3	4,347.8	10.3	13.6	129.24	322.2	-328.3	172.4	151.7	20.69	8.331	
4,500.0	4,421.1	4,510.1	4,444.1	10.5	14.0	128.95	339.0	-348.9	177.8	156.7	21.12	8.419	
4,600.0	4,516.8	4,610.0	4,540.3	10.7	14.5	128.69	355.7	-369.6	183.2	161.7	21.55	8.501	
4,700.0	4,612.6	4,709.8	4,636.6	10.9	14.9	128.44	372.5	-390.2	188.6	166.6	21.99	8.578	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		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	4,708.3	4,809.7	4,732.8	11.1	15.3	128.20	389.3	-410.8	194.1	171.6	22.43	8.651	
4,900.0	4,804.0	4,909.5	4,829.1	11.3	15.8	127.98	406.1	-431.4	199.5	176.6	22.88	8.718	
5,000.0	4,899.8	5,009.4	4,925.3	11.5	16.2	127.77	422.9	-452.0	204.9	181.6	23.33	8.782	
5,100.0	4,995.5	5,109.2	5,021.6	11.7	16.7	127.57	439.7	-472.6	210.4	186.6	23.79	8.842	
5,200.0	5,091.3	5,209.1	5,117.8	11.9	17.1	127.38	456.4	-493.3	215.8	191.5	24.25	8.898	
5,300.0	5,187.0	5,308.9	5,214.0	12.1	17.6	127.20	473.2	-513.9	221.2	196.5	24.71	8.951	
5,400.0	5,282.8	5,408.8	5,310.3	12.3	18.0	127.02	490.0	-534.5	226.7	201.5	25.18	9.001	
5,500.0	5,378.5	5,508.6	5,406.5	12.5	18.5	126.86	506.8	-555.1	232.1	206.5	25.65	9.048	
5,600.0	5,474.2	5,608.5	5,502.8	12.7	19.0	126.70	523.6	-575.7	237.6	211.4	26.13	9.093	
5,700.0	5,570.0	5,708.3	5,599.0	12.9	19.4	126.55	540.4	-596.3	243.0	216.4	26.60	9.135	
5,800.0	5,665.7	5,808.2	5,695.3	13.2	19.9	126.41	557.1	-617.0	248.5	221.4	27.08	9.174	
5,900.0	5,761.5	5,908.0	5,791.5	13.4	20.4	126.27	573.9	-637.6	253.9	226.3	27.56	9.211	
6,000.0	5,857.2	6,007.9	5,887.8	13.6	20.8	126.14	590.7	-658.2	259.4	231.3	28.05	9.247	
6,100.0	5,953.0	6,107.7	5,984.0	13.8	21.3	126.02	607.5	-678.8	264.8	236.3	28.53	9.280	
6,200.0	6,048.7	6,207.6	6,080.3	14.0	21.8	125.89	624.3	-699.4	270.3	241.2	29.02	9.312	
6,300.0	6,144.4	6,307.4	6,176.5	14.3	22.2	125.78	641.1	-720.0	275.7	246.2	29.51	9.342	
6,400.0	6,240.2	6,407.3	6,272.8	14.5	22.7	125.67	657.8	-740.7	281.2	251.2	30.01	9.370	
6,500.0	6,335.9	6,507.1	6,369.0	14.7	23.2	125.56	674.6	-761.3	286.6	256.1	30.50	9.397	
6,600.0	6,431.7	6,607.0	6,465.2	14.9	23.7	125.46	691.4	-781.9	292.1	261.1	30.99	9.424	
6,700.0	6,527.4	6,704.8	6,559.7	15.2	24.1	125.48	707.4	-801.6	297.9	266.4	31.50	9.456	
6,800.0	6,623.1	6,802.3	6,654.3	15.4	24.6	125.79	722.4	-819.9	304.4	272.3	32.03	9.503	
6,900.0	6,718.9	6,900.0	6,749.5	15.6	25.0	126.36	736.3	-837.0	311.6	279.1	32.59	9.563	
7,000.0	6,814.6	6,996.9	6,844.2	15.8	25.5	127.16	749.1	-852.8	319.7	286.5	33.17	9.638	
7,100.0	6,910.4	7,093.7	6,939.2	16.1	25.9	128.18	760.9	-867.3	328.6	294.9	33.79	9.726	
7,200.0	7,006.1	7,190.3	7,034.2	16.3	26.4	129.38	771.7	-880.5	338.5	304.1	34.44	9.828	
7,300.0	7,101.9	7,286.4	7,129.1	16.5	26.8	130.74	781.4	-892.4	349.4	314.3	35.13	9.946	
7,400.0	7,197.6	7,382.1	7,223.9	16.8	27.2	132.24	790.1	-903.1	361.3	325.5	35.84	10.081	
7,500.0	7,293.3	7,477.3	7,318.3	17.0	27.6	133.83	797.7	-912.5	374.4	337.9	36.58	10.235	
7,554.9	7,345.9	7,529.3	7,370.0	17.1	27.8	134.74	801.4	-917.1	382.2	345.2	36.99	10.331	
7,600.0	7,389.1	7,572.0	7,412.4	17.2	28.0	135.53	804.3	-920.6	388.7	351.3	37.33	10.413	
7,700.0	7,485.3	7,666.4	7,506.4	17.4	28.3	137.20	809.9	-927.4	403.1	365.1	38.07	10.589	
7,800.0	7,582.0	7,760.6	7,600.3	17.7	28.7	138.77	814.5	-933.1	417.6	378.8	38.79	10.766	
7,900.0	7,679.1	7,854.5	7,694.0	17.9	29.0	140.26	818.1	-937.6	432.1	392.6	39.48	10.945	
8,000.0	7,776.6	7,948.1	7,787.6	18.1	29.3	141.66	820.8	-940.8	446.6	406.5	40.14	11.126	
8,100.0	7,874.5	8,041.6	7,880.9	18.3	29.6	143.00	822.5	-942.9	461.0	420.3	40.76	11.311	
8,200.0	7,972.7	8,134.7	7,974.1	18.5	29.8	144.27	823.2	-943.8	475.4	434.1	41.30	11.510	
8,300.0	8,071.2	8,231.9	8,071.2	18.7	29.8	145.49	823.2	-943.8	489.4	447.6	41.77	11.716	
8,400.0	8,170.0	8,330.7	8,170.0	18.9	29.9	146.55	823.2	-943.8	502.2	460.0	42.21	11.896	
8,500.0	8,269.1	8,429.7	8,269.1	19.1	29.9	147.44	823.2	-943.8	513.6	471.0	42.61	12.054	
8,600.0	8,368.4	8,529.0	8,368.4	19.2	29.9	148.20	823.2	-943.8	523.7	480.7	42.97	12.188	
8,700.0	8,467.9	8,628.5	8,467.9	19.4	30.0	148.82	823.2	-943.8	532.4	489.1	43.30	12.296	
8,800.0	8,567.5	8,728.2	8,567.5	19.6	30.0	149.32	823.2	-943.8	539.6	496.0	43.59	12.380	
8,900.0	8,667.3	8,827.9	8,667.3	19.7	30.1	149.70	823.2	-943.8	545.4	501.5	43.85	12.437	
9,000.0	8,767.2	8,927.8	8,767.2	19.9	30.1	149.98	823.2	-943.8	549.6	505.6	44.08	12.469	
9,100.0	8,867.1	9,027.8	8,867.1	20.0	30.1	150.16	823.2	-943.8	552.4	508.1	44.28	12.476	
9,200.0	8,967.1	9,127.7	8,967.1	20.1	30.2	150.24	823.2	-943.8	553.7	509.2	44.44	12.458	
9,232.9	9,000.0	9,160.6	9,000.0	20.1	30.2	89.13	823.2	-943.8	553.7	509.3	44.47	12.451	
9,300.0	9,067.1	9,227.7	9,067.1	20.2	30.2	89.13	823.2	-943.8	553.7	509.2	44.53	12.436	
9,400.0	9,167.1	9,327.7	9,167.1	20.2	30.3	89.13	823.2	-943.8	553.7	509.1	44.62	12.409	
9,500.0	9,267.1	9,427.7	9,267.1	20.3	30.3	89.13	823.2	-943.8	553.7	509.0	44.72	12.382	
9,600.0	9,367.1	9,527.7	9,367.1	20.3	30.3	89.13	823.2	-943.8	553.7	508.9	44.82	12.355	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		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	9,467.1	9,627.7	9,467.1	20.4	30.4	89.13	823.2	-943.8	553.7	508.8	44.92	12.327	
9,800.0	9,567.1	9,727.7	9,567.1	20.5	30.4	89.13	823.2	-943.8	553.7	508.7	45.02	12.300	
9,900.0	9,667.1	9,827.7	9,667.1	20.5	30.5	89.13	823.2	-943.8	553.7	508.6	45.12	12.273	
10,000.0	9,767.1	9,927.7	9,767.1	20.6	30.5	89.13	823.2	-943.8	553.7	508.5	45.22	12.246	
10,100.0	9,867.1	10,027.7	9,867.1	20.6	30.5	89.13	823.2	-943.8	553.7	508.4	45.32	12.219	
10,200.0	9,967.1	10,127.7	9,967.1	20.7	30.6	89.13	823.2	-943.8	553.7	508.3	45.42	12.193	
10,300.0	10,067.1	10,227.7	10,067.1	20.7	30.6	89.13	823.2	-943.8	553.7	508.2	45.52	12.166	
10,400.0	10,167.1	10,327.7	10,167.1	20.8	30.7	89.13	823.2	-943.8	553.7	508.1	45.62	12.139	
10,500.0	10,267.1	10,427.7	10,267.1	20.9	30.7	89.13	823.2	-943.8	553.7	508.0	45.72	12.112	
10,600.0	10,367.1	10,527.7	10,367.1	20.9	30.7	89.13	823.2	-943.8	553.7	507.9	45.82	12.085	
10,700.0	10,467.1	10,627.7	10,467.1	21.0	30.8	89.13	823.2	-943.8	553.7	507.8	45.92	12.058	
10,800.0	10,567.1	10,727.7	10,567.1	21.0	30.8	89.13	823.2	-943.8	553.7	507.7	46.02	12.031	
10,900.0	10,667.1	10,827.7	10,667.1	21.1	30.9	89.13	823.2	-943.8	553.7	507.6	46.13	12.005	
11,000.0	10,767.1	10,927.7	10,767.1	21.2	30.9	89.13	823.2	-943.8	553.7	507.5	46.23	11.978	
11,100.0	10,867.1	11,027.7	10,867.1	21.2	31.0	89.13	823.2	-943.8	553.7	507.4	46.33	11.951	
11,200.0	10,967.1	11,127.7	10,967.1	21.3	31.0	89.13	823.2	-943.8	553.7	507.3	46.44	11.925	
11,300.0	11,067.1	11,227.7	11,067.1	21.3	31.0	89.13	823.2	-943.8	553.7	507.2	46.54	11.898	
11,400.0	11,167.1	11,327.7	11,167.1	21.4	31.1	89.13	823.2	-943.8	553.7	507.1	46.64	11.871	
11,500.0	11,267.1	11,427.7	11,267.1	21.5	31.1	89.13	823.2	-943.8	553.7	507.0	46.75	11.845	
11,542.4	11,309.5	11,470.1	11,309.5	21.5	31.1	89.13	823.2	-943.8	553.7	506.9	46.78	11.836	
11,550.0	11,317.1	11,477.7	11,317.1	21.5	31.1	-90.52	823.2	-943.8	553.7	506.9	46.79	11.835	
11,575.0	11,342.1	11,502.7	11,342.1	21.5	31.2	-90.63	823.2	-943.8	553.7	507.0	46.77	11.839	
11,600.0	11,367.0	11,527.6	11,367.0	21.4	31.2	-90.87	823.2	-943.8	553.8	507.1	46.72	11.852	
11,625.0	11,391.7	11,552.3	11,391.7	21.4	31.2	-91.23	823.2	-943.8	553.8	507.2	46.64	11.874	
11,650.0	11,416.2	11,576.8	11,416.2	21.4	31.2	-91.72	823.2	-943.8	554.0	507.4	46.53	11.906	
11,675.0	11,440.4	11,601.0	11,440.4	21.4	31.2	-92.31	823.2	-943.8	554.2	507.8	46.38	11.949	
11,700.0	11,464.3	11,624.9	11,464.3	21.4	31.2	-93.01	823.2	-943.8	554.6	508.4	46.20	12.003	
11,725.0	11,487.7	11,648.3	11,487.7	21.3	31.2	-93.78	823.2	-943.8	555.1	509.1	45.99	12.070	
11,750.0	11,510.6	11,671.3	11,510.6	21.3	31.2	-94.63	823.2	-943.8	555.9	510.2	45.75	12.150	
11,775.0	11,533.0	11,694.3	11,533.7	21.3	31.2	-95.55	823.2	-943.8	557.0	511.5	45.49	12.245	
11,800.0	11,554.8	11,727.2	11,566.6	21.3	31.2	-96.94	822.0	-944.0	558.2	512.9	45.31	12.322	
11,825.0	11,575.9	11,761.5	11,600.7	21.2	31.1	-98.36	818.3	-944.6	559.4	514.2	45.17	12.384	
11,850.0	11,596.3	11,797.4	11,635.9	21.2	31.0	-99.79	811.8	-945.6	560.4	515.3	45.09	12.428	
11,875.0	11,615.9	11,834.9	11,672.1	21.2	30.9	-101.23	802.3	-947.1	561.3	516.2	45.09	12.449	
11,900.0	11,634.6	11,874.1	11,709.1	21.2	30.8	-102.66	789.4	-949.1	562.0	516.9	45.16	12.444	
11,925.0	11,652.5	11,915.0	11,746.3	21.2	30.7	-104.09	772.8	-951.7	562.4	517.1	45.33	12.408	
11,950.0	11,669.4	11,957.6	11,783.5	21.2	30.6	-105.48	752.2	-955.0	562.6	517.0	45.59	12.338	
11,975.0	11,685.3	12,001.8	11,819.9	21.2	30.5	-106.84	727.4	-958.8	562.3	516.3	45.97	12.233	
12,000.0	11,700.2	12,047.6	11,855.0	21.2	30.4	-108.12	698.4	-963.4	561.6	515.2	46.45	12.090	
12,025.0	11,714.0	12,094.7	11,888.1	21.2	30.3	-109.32	665.2	-968.6	560.4	513.4	47.04	11.914	
12,050.0	11,726.8	12,143.0	11,918.3	21.2	30.2	-110.42	628.1	-974.4	558.7	511.0	47.72	11.708	
12,075.0	11,738.3	12,192.1	11,945.0	21.2	30.1	-111.39	587.4	-980.8	556.4	508.0	48.47	11.479	
12,100.0	11,748.7	12,241.6	11,967.5	21.2	30.1	-112.21	543.9	-987.6	553.5	504.3	49.27	11.234	
12,125.0	11,757.9	12,291.2	11,985.3	21.2	30.0	-112.89	498.2	-994.7	550.0	499.9	50.09	10.980	
12,150.0	11,765.9	12,340.4	11,998.2	21.2	30.0	-113.40	451.2	-1,002.1	545.9	495.0	50.90	10.726	
12,175.0	11,772.6	12,389.0	12,006.0	21.2	30.0	-113.75	403.9	-1,009.5	541.2	489.5	51.66	10.477	
12,200.0	11,778.1	12,436.6	12,008.9	21.2	30.1	-113.94	356.9	-1,016.8	535.9	483.6	52.35	10.239	
12,225.0	11,782.2	12,460.5	12,009.0	21.3	30.1	-114.30	333.3	-1,020.5	530.6	478.2	52.41	10.125	
12,250.0	11,785.1	12,481.6	12,009.0	21.3	30.1	-114.72	312.5	-1,023.5	526.0	473.6	52.41	10.036	
12,275.0	11,786.6	12,500.0	12,009.0	21.3	30.1	-115.16	294.3	-1,026.1	522.1	469.8	52.36	9.972	
12,292.4	11,787.0	12,517.5	12,009.0	21.3	30.1	-115.48	276.9	-1,028.4	519.8	467.4	52.47	9.908	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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)			
12,300.0	11,787.0	12,524.0	12,009.0	21.3	30.2	-115.53	270.4	-1,029.2	518.9	466.4	52.48	9.887	
12,400.0	11,787.0	12,609.5	12,009.0	21.5	30.3	-116.02	185.5	-1,038.8	508.3	455.6	52.69	9.646	
12,500.0	11,787.0	12,700.0	12,009.0	21.7	30.4	-116.42	95.3	-1,046.1	500.4	447.4	53.05	9.433	
12,600.0	11,787.0	12,781.9	12,009.0	21.8	30.5	-116.66	13.5	-1,050.3	495.2	442.1	53.11	9.324	
12,700.0	11,787.0	12,868.5	12,009.0	22.0	30.7	-116.78	-73.1	-1,052.1	492.7	439.4	53.30	9.244	
12,742.2	11,787.0	12,905.2	12,009.0	22.1	30.7	-116.79	-109.8	-1,052.1	492.5	439.1	53.37	9.227	
12,800.0	11,787.0	12,962.9	12,009.0	22.2	30.8	-116.79	-167.5	-1,051.8	492.5	438.7	53.76	9.160	
12,900.0	11,787.0	13,062.9	12,009.0	22.5	31.0	-116.79	-267.5	-1,051.1	492.5	438.0	54.47	9.041	
13,000.0	11,787.0	13,162.9	12,009.0	22.7	31.2	-116.79	-367.5	-1,050.5	492.5	437.2	55.23	8.917	
13,100.0	11,787.0	13,262.9	12,009.0	23.0	31.5	-116.79	-467.5	-1,049.9	492.5	436.5	56.03	8.790	
13,200.0	11,787.0	13,362.9	12,009.0	23.2	31.7	-116.79	-567.5	-1,049.2	492.5	435.6	56.87	8.660	
13,300.0	11,787.0	13,462.9	12,009.0	23.5	32.0	-116.79	-667.5	-1,048.6	492.5	434.7	57.74	8.529	
13,400.0	11,787.0	13,562.9	12,009.0	23.9	32.3	-116.79	-767.5	-1,048.0	492.5	433.8	58.66	8.396	
13,500.0	11,787.0	13,662.9	12,009.0	24.2	32.6	-116.79	-867.5	-1,047.4	492.5	432.9	59.60	8.263	
13,600.0	11,787.0	13,762.9	12,009.0	24.6	32.9	-116.79	-967.5	-1,046.7	492.5	431.9	60.59	8.129	
13,700.0	11,787.0	13,862.9	12,009.0	25.0	33.3	-116.79	-1,067.5	-1,046.1	492.5	430.9	61.60	7.995	
13,800.0	11,787.0	13,962.9	12,009.0	25.4	33.7	-116.79	-1,167.5	-1,045.5	492.5	429.9	62.64	7.862	
13,900.0	11,787.0	14,062.9	12,009.0	25.8	34.1	-116.79	-1,267.5	-1,044.8	492.5	428.8	63.72	7.730	
14,000.0	11,787.0	14,162.9	12,009.0	26.2	34.5	-116.79	-1,367.5	-1,044.2	492.5	427.7	64.82	7.599	
14,100.0	11,787.0	14,262.9	12,009.0	26.7	35.0	-116.79	-1,467.5	-1,043.6	492.5	426.6	65.94	7.469	
14,200.0	11,787.0	14,362.9	12,009.0	27.2	35.4	-116.79	-1,567.5	-1,042.9	492.5	425.4	67.09	7.341	
14,300.0	11,787.0	14,462.9	12,009.0	27.7	35.9	-116.79	-1,667.5	-1,042.3	492.5	424.3	68.26	7.215	
14,400.0	11,787.0	14,562.9	12,009.0	28.2	36.5	-116.79	-1,767.5	-1,041.7	492.5	423.1	69.46	7.091	
14,500.0	11,787.0	14,662.9	12,009.0	28.7	37.0	-116.79	-1,867.5	-1,041.1	492.6	421.9	70.68	6.969	
14,600.0	11,787.0	14,762.9	12,009.0	29.3	37.6	-116.79	-1,967.5	-1,040.4	492.6	420.6	71.91	6.849	
14,700.0	11,787.0	14,862.9	12,009.0	29.8	38.1	-116.79	-2,067.5	-1,039.8	492.6	419.4	73.17	6.732	
14,800.0	11,787.0	14,962.9	12,009.0	30.4	38.7	-116.79	-2,167.5	-1,039.2	492.6	418.1	74.44	6.617	
14,900.0	11,787.0	15,062.9	12,009.0	31.0	39.3	-116.79	-2,267.5	-1,038.5	492.6	416.8	75.73	6.504	
15,000.0	11,787.0	15,162.9	12,009.0	31.6	40.0	-116.79	-2,367.4	-1,037.9	492.6	415.5	77.04	6.394	
15,100.0	11,787.0	15,262.9	12,009.0	32.2	40.6	-116.79	-2,467.4	-1,037.3	492.6	414.2	78.36	6.286	
15,200.0	11,787.0	15,362.9	12,009.0	32.8	41.3	-116.79	-2,567.4	-1,036.6	492.6	412.9	79.70	6.181	
15,300.0	11,787.0	15,462.9	12,009.0	33.4	41.9	-116.79	-2,667.4	-1,036.0	492.6	411.6	81.05	6.078	
15,400.0	11,787.0	15,562.9	12,009.0	34.1	42.6	-116.79	-2,767.4	-1,035.4	492.6	410.2	82.41	5.978	
15,500.0	11,787.0	15,662.9	12,009.0	34.7	43.3	-116.79	-2,867.4	-1,034.7	492.6	408.8	83.78	5.879	
15,600.0	11,787.0	15,762.9	12,009.0	35.4	44.0	-116.79	-2,967.4	-1,034.1	492.6	407.4	85.17	5.784	
15,700.0	11,787.0	15,862.9	12,009.0	36.0	44.7	-116.79	-3,067.4	-1,033.5	492.6	406.0	86.57	5.690	
15,800.0	11,787.0	15,962.9	12,009.0	36.7	45.5	-116.79	-3,167.4	-1,032.9	492.6	404.6	87.98	5.599	
15,900.0	11,787.0	16,062.9	12,009.0	37.4	46.2	-116.78	-3,267.4	-1,032.2	492.6	403.2	89.40	5.510	
16,000.0	11,787.0	16,162.9	12,009.0	38.1	47.0	-116.78	-3,367.4	-1,031.6	492.6	401.8	90.83	5.424	
16,100.0	11,787.0	16,262.9	12,009.0	38.8	47.7	-116.78	-3,467.4	-1,031.0	492.6	400.4	92.27	5.339	
16,200.0	11,787.0	16,362.9	12,009.0	39.5	48.5	-116.78	-3,567.4	-1,030.3	492.6	398.9	93.72	5.257	
16,300.0	11,787.0	16,462.9	12,009.0	40.2	49.3	-116.78	-3,667.4	-1,029.7	492.7	397.5	95.18	5.176	
16,400.0	11,787.0	16,562.9	12,009.0	40.9	50.0	-116.78	-3,767.4	-1,029.1	492.7	396.0	96.64	5.098	
16,500.0	11,787.0	16,662.9	12,009.0	41.6	50.8	-116.78	-3,867.4	-1,028.4	492.7	394.5	98.11	5.021	
16,600.0	11,787.0	16,762.9	12,009.0	42.4	51.6	-116.78	-3,967.4	-1,027.8	492.7	393.1	99.59	4.947	
16,700.0	11,787.0	16,862.9	12,009.0	43.1	52.4	-116.78	-4,067.4	-1,027.2	492.7	391.6	101.08	4.874	
16,800.0	11,787.0	16,962.9	12,009.0	43.8	53.2	-116.78	-4,167.4	-1,026.5	492.7	390.1	102.57	4.803	
16,900.0	11,787.0	17,062.9	12,009.0	44.6	54.1	-116.78	-4,267.4	-1,025.9	492.7	388.6	104.07	4.734	
17,000.0	11,787.0	17,162.9	12,009.0	45.3	54.9	-116.78	-4,367.4	-1,025.3	492.7	387.1	105.58	4.666	
17,100.0	11,787.0	17,262.9	12,009.0	46.1	55.7	-116.78	-4,467.4	-1,024.7	492.7	385.6	107.09	4.601	
17,200.0	11,787.0	17,362.9	12,009.0	46.8	56.5	-116.78	-4,567.4	-1,024.0	492.7	384.1	108.61	4.536	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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)			
17,300.0	11,787.0	17,462.9	12,009.0	47.6	57.4	-116.78	-4,667.4	-1,023.4	492.7	382.6	110.14	4.474	
17,400.0	11,787.0	17,562.9	12,009.0	48.3	58.2	-116.78	-4,767.4	-1,022.8	492.7	381.0	111.66	4.412	
17,500.0	11,787.0	17,662.9	12,009.0	49.1	59.0	-116.78	-4,867.4	-1,022.1	492.7	379.5	113.20	4.353	
17,600.0	11,787.0	17,762.9	12,009.0	49.9	59.9	-116.78	-4,967.4	-1,021.5	492.7	378.0	114.74	4.294	
17,700.0	11,787.0	17,862.9	12,009.0	50.6	60.7	-116.78	-5,067.4	-1,020.9	492.7	376.4	116.28	4.237	
17,800.0	11,787.0	17,962.9	12,009.0	51.4	61.6	-116.78	-5,167.4	-1,020.2	492.7	374.9	117.83	4.182	
17,900.0	11,787.0	18,062.9	12,009.0	52.2	62.5	-116.78	-5,267.4	-1,019.6	492.7	373.4	119.38	4.127	
18,000.0	11,787.0	18,162.9	12,009.0	53.0	63.3	-116.78	-5,367.4	-1,019.0	492.7	371.8	120.94	4.074	
18,100.0	11,787.0	18,262.9	12,009.0	53.7	64.2	-116.78	-5,467.4	-1,018.4	492.7	370.3	122.50	4.023	
18,200.0	11,787.0	18,362.9	12,009.0	54.5	65.1	-116.78	-5,567.4	-1,017.7	492.8	368.7	124.06	3.972	
18,300.0	11,787.0	18,462.9	12,009.0	55.3	65.9	-116.78	-5,667.4	-1,017.1	492.8	367.1	125.63	3.922	
18,400.0	11,787.0	18,562.9	12,009.0	56.1	66.8	-116.78	-5,767.4	-1,016.5	492.8	365.6	127.20	3.874	
18,500.0	11,787.0	18,662.9	12,009.0	56.9	67.7	-116.78	-5,867.4	-1,015.8	492.8	364.0	128.77	3.827	
18,600.0	11,787.0	18,762.9	12,009.0	57.7	68.6	-116.78	-5,967.4	-1,015.2	492.8	362.4	130.35	3.780	
18,700.0	11,787.0	18,862.9	12,009.0	58.5	69.4	-116.78	-6,067.4	-1,014.6	492.8	360.8	131.93	3.735	
18,800.0	11,787.0	18,962.9	12,009.0	59.3	70.3	-116.78	-6,167.4	-1,013.9	492.8	359.3	133.51	3.691	
18,900.0	11,787.0	19,062.9	12,009.0	60.0	71.2	-116.78	-6,267.4	-1,013.3	492.8	357.7	135.10	3.648	
19,000.0	11,787.0	19,162.9	12,009.0	60.8	72.1	-116.78	-6,367.4	-1,012.7	492.8	356.1	136.69	3.605	
19,100.0	11,787.0	19,262.9	12,009.0	61.6	73.0	-116.77	-6,467.4	-1,012.0	492.8	354.5	138.28	3.564	
19,200.0	11,787.0	19,362.9	12,009.0	62.4	73.9	-116.77	-6,567.4	-1,011.4	492.8	352.9	139.88	3.523	
19,300.0	11,787.0	19,462.9	12,009.0	63.2	74.8	-116.77	-6,667.4	-1,010.8	492.8	351.3	141.48	3.483	
19,400.0	11,787.0	19,562.9	12,009.0	64.1	75.7	-116.77	-6,767.4	-1,010.2	492.8	349.7	143.08	3.444	
19,500.0	11,787.0	19,662.9	12,009.0	64.9	76.6	-116.77	-6,867.4	-1,009.5	492.8	348.1	144.68	3.406	
19,600.0	11,787.0	19,762.9	12,009.0	65.7	77.5	-116.77	-6,967.4	-1,008.9	492.8	346.5	146.28	3.369	
19,649.9	11,787.0	19,812.8	12,009.0	66.2	77.9	-116.77	-7,017.2	-1,008.6	492.8	345.9	146.94	3.354	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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	1.8	0.0	3.0	3.0	125.88	-23.4	32.4	39.9				
100.0	100.0	101.8	100.0	3.1	3.1	125.88	-23.4	32.4	39.9	33.3	6.61	6.039	
200.0	200.0	201.8	200.0	3.3	3.3	125.88	-23.4	32.4	39.9	32.9	7.07	5.653	
300.0	300.0	301.8	300.0	3.6	3.6	125.88	-23.4	32.4	39.9	32.4	7.49	5.332	
400.0	400.0	401.8	400.0	3.8	3.8	125.88	-23.4	32.4	39.9	32.0	7.90	5.058	
500.0	500.0	501.8	500.0	4.0	4.0	125.88	-23.4	32.4	39.9	31.7	8.28	4.822	
600.0	600.0	601.8	600.0	4.1	4.1	125.88	-23.4	32.4	39.9	31.3	8.66	4.614	
700.0	700.0	701.8	700.0	4.3	4.3	125.88	-23.4	32.4	39.9	30.9	9.01	4.431	
800.0	800.0	801.8	800.0	4.5	4.5	125.88	-23.4	32.4	39.9	30.6	9.36	4.266	
900.0	900.0	901.8	900.0	4.7	4.7	125.88	-23.4	32.4	39.9	30.2	9.70	4.118	
1,000.0	1,000.0	1,001.8	1,000.0	4.8	4.8	125.88	-23.4	32.4	39.9	29.9	10.03	3.983	
1,100.0	1,100.0	1,101.8	1,100.0	5.0	5.0	125.88	-23.4	32.4	39.9	29.6	10.35	3.860	
1,200.0	1,200.0	1,201.8	1,200.0	5.2	5.2	125.88	-23.4	32.4	39.9	29.3	10.66	3.747	
1,300.0	1,300.0	1,301.8	1,300.0	5.3	5.3	125.88	-23.4	32.4	39.9	29.0	10.96	3.643	
1,400.0	1,400.0	1,401.8	1,400.0	5.5	5.5	125.88	-23.4	32.4	39.9	28.7	11.26	3.546	
1,500.0	1,500.0	1,501.8	1,500.0	5.6	5.6	125.88	-23.4	32.4	39.9	28.4	11.56	3.456	
1,600.0	1,600.0	1,601.8	1,600.0	5.8	5.8	125.88	-23.4	32.4	39.9	28.1	11.84	3.372	
1,700.0	1,700.0	1,701.8	1,700.0	5.9	5.9	125.88	-23.4	32.4	39.9	27.8	12.13	3.293	
1,800.0	1,800.0	1,801.8	1,800.0	6.0	6.0	125.88	-23.4	32.4	39.9	27.5	12.41	3.220	
1,900.0	1,900.0	1,901.8	1,900.0	6.2	6.2	125.88	-23.4	32.4	39.9	27.3	12.68	3.150	
2,000.0	2,000.0	2,001.8	2,000.0	6.3	6.3	125.88	-23.4	32.4	39.9	27.0	12.95	3.084 CC	
2,004.4	2,004.4	2,006.3	2,004.5	6.3	6.3	-159.13	-23.4	32.4	39.9	27.0	12.96	3.081 ES, SF	
2,100.0	2,100.0	2,102.0	2,100.1	6.5	6.5	-161.64	-22.2	32.9	40.9	27.7	13.24	3.093	
2,200.0	2,199.9	2,201.9	2,200.0	6.6	6.7	-168.31	-18.6	34.6	44.4	30.9	13.51	3.285	
2,300.0	2,299.7	2,301.3	2,299.2	6.8	6.9	-177.15	-12.6	37.4	51.2	37.4	13.79	3.714	
2,333.3	2,332.9	2,334.3	2,332.1	6.8	6.9	179.83	-10.2	38.5	54.4	40.6	13.83	3.934	
2,400.0	2,399.3	2,401.7	2,399.2	6.9	7.0	170.36	-4.4	40.3	61.4	47.5	13.97	4.399	
2,500.0	2,498.5	2,503.0	2,500.0	7.1	7.2	160.69	5.7	40.4	72.6	58.3	14.34	5.063	
2,600.0	2,597.2	2,604.6	2,600.9	7.3	7.4	154.17	17.6	37.4	84.1	69.4	14.67	5.734	
2,700.0	2,695.3	2,706.6	2,701.7	7.5	7.7	149.51	31.4	31.2	95.7	80.7	14.97	6.395	
2,800.0	2,792.6	2,808.8	2,802.3	7.6	7.9	146.04	47.0	21.9	107.2	92.0	15.24	7.038	
2,900.0	2,889.2	2,908.5	2,900.0	7.8	8.1	143.78	63.3	10.9	119.6	104.1	15.49	7.721	
2,932.6	2,920.4	2,940.8	2,931.6	7.9	8.2	143.36	68.6	7.3	124.2	108.6	15.56	7.983	
3,000.0	2,985.0	3,007.5	2,997.0	7.9	8.4	143.24	79.5	-0.2	134.0	118.3	15.71	8.528	
3,100.0	3,080.7	3,106.4	3,094.0	8.1	8.7	143.10	95.7	-11.2	148.4	132.5	15.98	9.289	
3,200.0	3,176.4	3,205.4	3,191.0	8.2	9.0	142.97	112.0	-22.2	162.9	146.7	16.26	10.018	
3,300.0	3,272.2	3,304.3	3,288.0	8.4	9.3	142.87	128.2	-33.3	177.4	160.9	16.56	10.715	
3,400.0	3,367.9	3,403.3	3,385.0	8.5	9.6	142.79	144.4	-44.3	191.9	175.0	16.86	11.381	
3,500.0	3,463.7	3,502.2	3,481.9	8.7	9.9	142.71	160.6	-55.3	206.4	189.2	17.17	12.017	
3,600.0	3,559.4	3,601.2	3,578.9	8.9	10.3	142.65	176.9	-66.3	220.9	203.4	17.49	12.625	
3,700.0	3,655.1	3,700.1	3,675.9	9.0	10.6	142.59	193.1	-77.4	235.3	217.5	17.82	13.204	
3,800.0	3,750.9	3,799.1	3,772.9	9.2	11.0	142.54	209.3	-88.4	249.8	231.7	18.16	13.756	
3,900.0	3,846.6	3,898.0	3,869.9	9.4	11.4	142.50	225.5	-99.4	264.3	245.8	18.51	14.282	
4,000.0	3,942.4	3,996.9	3,966.9	9.5	11.7	142.46	241.7	-110.5	278.8	259.9	18.86	14.784	
4,100.0	4,038.1	4,095.9	4,063.8	9.7	12.1	142.42	258.0	-121.5	293.3	274.1	19.22	15.262	
4,200.0	4,133.9	4,194.8	4,160.8	9.9	12.5	142.39	274.2	-132.5	307.8	288.2	19.58	15.718	
4,300.0	4,229.6	4,293.8	4,257.8	10.1	12.9	142.36	290.4	-143.5	322.3	302.3	19.95	16.152	
4,400.0	4,325.3	4,392.7	4,354.8	10.3	13.3	142.33	306.6	-154.6	336.7	316.4	20.33	16.566	
4,500.0	4,421.1	4,491.7	4,451.8	10.5	13.7	142.31	322.8	-165.6	351.2	330.5	20.71	16.961	
4,600.0	4,516.8	4,590.6	4,548.7	10.7	14.1	142.28	339.1	-176.6	365.7	344.6	21.09	17.337	
4,700.0	4,612.6	4,689.6	4,645.7	10.9	14.5	142.26	355.3	-187.7	380.2	358.7	21.48	17.696	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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)				
4,800.0	4,708.3	4,788.5	4,742.7	11.1	14.9	142.24	371.5	-198.7	394.7	372.8	21.88	18.039		
4,900.0	4,804.0	4,887.5	4,839.7	11.3	15.3	142.22	387.7	-209.7	409.2	386.9	22.28	18.366		
5,000.0	4,899.8	4,986.4	4,936.7	11.5	15.8	142.21	404.0	-220.7	423.6	401.0	22.68	18.678		
5,100.0	4,995.5	5,085.3	5,033.6	11.7	16.2	142.19	420.2	-231.8	438.1	415.0	23.09	18.976		
5,200.0	5,091.3	5,184.3	5,130.6	11.9	16.6	142.18	436.4	-242.8	452.6	429.1	23.50	19.261		
5,300.0	5,187.0	5,283.2	5,227.6	12.1	17.0	142.16	452.6	-253.8	467.1	443.2	23.91	19.534		
5,400.0	5,282.8	5,382.2	5,324.6	12.3	17.5	142.15	468.8	-264.8	481.6	457.3	24.33	19.794		
5,500.0	5,378.5	5,481.1	5,421.6	12.5	17.9	142.14	485.1	-275.9	496.1	471.3	24.75	20.044		
5,600.0	5,474.2	5,580.1	5,518.6	12.7	18.3	142.12	501.3	-286.9	510.6	485.4	25.17	20.283		
5,700.0	5,570.0	5,679.0	5,615.5	12.9	18.7	142.11	517.5	-297.9	525.0	499.4	25.60	20.511		
5,800.0	5,665.7	5,778.0	5,712.5	13.2	19.2	142.10	533.7	-309.0	539.5	513.5	26.03	20.730		
5,900.0	5,761.5	5,876.9	5,809.5	13.4	19.6	142.09	549.9	-320.0	554.0	527.6	26.46	20.941		
6,000.0	5,857.2	5,975.8	5,906.5	13.6	20.1	142.08	566.2	-331.0	568.5	541.6	26.89	21.142		
6,100.0	5,953.0	6,074.8	6,003.5	13.8	20.5	142.08	582.4	-342.0	583.0	555.7	27.32	21.336		
6,200.0	6,048.7	6,173.7	6,100.4	14.0	20.9	142.07	598.6	-353.1	597.5	569.7	27.76	21.521		
6,300.0	6,144.4	6,272.7	6,197.4	14.3	21.4	142.06	614.8	-364.1	612.0	583.8	28.20	21.700		
6,400.0	6,240.2	6,371.6	6,294.4	14.5	21.8	142.05	631.1	-375.1	626.4	597.8	28.64	21.871		
6,500.0	6,335.9	6,470.6	6,391.4	14.7	22.3	142.04	647.3	-386.2	640.9	611.8	29.09	22.036		
6,600.0	6,431.7	6,569.5	6,488.4	14.9	22.7	142.04	663.5	-397.2	655.4	625.9	29.53	22.195		
6,700.0	6,527.4	6,668.5	6,585.4	15.2	23.2	142.03	679.7	-408.2	669.9	639.9	29.98	22.347		
6,800.0	6,623.1	6,767.4	6,682.3	15.4	23.6	142.02	695.9	-419.2	684.4	654.0	30.43	22.494		
6,900.0	6,718.9	6,866.4	6,779.3	15.6	24.0	142.02	712.2	-430.3	698.9	668.0	30.87	22.636		
7,000.0	6,814.6	6,964.6	6,875.6	15.8	24.5	142.01	728.2	-441.2	713.4	682.1	31.31	22.786		
7,100.0	6,910.4	7,058.3	6,967.6	16.1	24.9	142.08	742.8	-451.1	728.3	696.6	31.74	22.946		
7,200.0	7,006.1	7,151.8	7,059.7	16.3	25.3	142.25	756.1	-460.1	744.0	711.8	32.19	23.109		
7,300.0	7,101.9	7,244.9	7,151.8	16.5	25.7	142.51	768.1	-468.3	760.3	727.7	32.66	23.283		
7,400.0	7,197.6	7,337.8	7,243.7	16.8	26.1	142.87	778.8	-475.6	777.4	744.3	33.13	23.467		
7,500.0	7,293.3	7,430.2	7,335.4	17.0	26.5	143.31	788.3	-482.0	795.3	761.7	33.61	23.662		
7,554.9	7,345.9	7,480.8	7,385.6	17.1	26.7	143.58	792.9	-485.2	805.4	771.6	33.87	23.782		
7,600.0	7,389.1	7,522.2	7,426.9	17.2	26.8	143.86	796.5	-487.6	813.8	779.7	34.08	23.881		
7,700.0	7,485.3	7,614.1	7,518.4	17.4	27.2	144.49	803.4	-492.3	831.9	797.4	34.56	24.073		
7,800.0	7,582.0	7,705.8	7,609.8	17.7	27.5	145.10	809.2	-496.2	849.5	814.4	35.03	24.251		
7,900.0	7,679.1	7,800.0	7,703.8	17.9	27.9	145.74	813.8	-499.4	866.5	831.0	35.50	24.405		
8,000.0	7,776.6	7,888.7	7,792.4	18.1	28.2	146.34	817.0	-501.6	882.9	846.9	35.93	24.570		
8,100.0	7,874.5	7,979.9	7,883.6	18.3	28.4	146.95	819.1	-503.0	898.7	862.3	36.36	24.716		
8,200.0	7,972.7	8,070.9	7,974.6	18.5	28.6	147.57	820.0	-503.6	914.0	877.2	36.74	24.875		
8,300.0	8,071.2	8,167.5	8,071.2	18.7	28.7	148.19	820.1	-503.6	928.5	891.3	37.14	24.999		
8,400.0	8,170.0	8,266.3	8,170.0	18.9	28.7	148.75	820.1	-503.6	941.6	904.1	37.50	25.108		
8,500.0	8,269.1	8,365.4	8,269.1	19.1	28.8	149.24	820.1	-503.6	953.3	915.5	37.83	25.202		
8,600.0	8,368.4	8,464.7	8,368.4	19.2	28.8	149.65	820.1	-503.6	963.5	925.4	38.13	25.270		
8,700.0	8,467.9	8,564.2	8,467.9	19.4	28.8	150.00	820.1	-503.6	972.3	933.9	38.42	25.311		
8,800.0	8,567.5	8,663.8	8,567.5	19.6	28.9	150.28	820.1	-503.6	979.6	941.0	38.68	25.326		
8,900.0	8,667.3	8,763.6	8,667.3	19.7	28.9	150.50	820.1	-503.6	985.4	946.5	38.93	25.315		
9,000.0	8,767.2	8,863.5	8,767.2	19.9	29.0	150.66	820.1	-503.6	989.7	950.6	39.15	25.279		
9,100.0	8,867.1	8,963.4	8,867.1	20.0	29.0	150.77	820.1	-503.6	992.5	953.2	39.36	25.219		
9,200.0	8,967.1	9,063.4	8,967.1	20.1	29.1	150.81	820.1	-503.6	993.8	954.3	39.53	25.139		
9,232.9	9,000.0	9,096.3	9,000.0	20.1	29.1	89.70	820.1	-503.6	993.9	954.3	39.57	25.118		
9,300.0	9,067.1	9,163.4	9,067.1	20.2	29.1	89.70	820.1	-503.6	993.9	954.2	39.63	25.078		
9,400.0	9,167.1	9,263.4	9,167.1	20.2	29.2	89.70	820.1	-503.6	993.9	954.1	39.74	25.007		
9,500.0	9,267.1	9,363.4	9,267.1	20.3	29.2	89.70	820.1	-503.6	993.9	954.0	39.86	24.937		
9,600.0	9,367.1	9,463.4	9,367.1	20.3	29.2	89.70	820.1	-503.6	993.9	953.9	39.97	24.867		

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		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	9,467.1	9,563.4	9,467.1	20.4	29.3	89.70	820.1	-503.6	993.9	953.8	40.08	24.797	
9,800.0	9,567.1	9,663.4	9,567.1	20.5	29.3	89.70	820.1	-503.6	993.9	953.7	40.19	24.727	
9,900.0	9,667.1	9,763.4	9,667.1	20.5	29.4	89.70	820.1	-503.6	993.9	953.6	40.31	24.658	
10,000.0	9,767.1	9,863.4	9,767.1	20.6	29.4	89.70	820.1	-503.6	993.9	953.5	40.42	24.588	
10,100.0	9,867.1	9,963.4	9,867.1	20.6	29.5	89.70	820.1	-503.6	993.9	953.3	40.53	24.519	
10,200.0	9,967.1	10,063.4	9,967.1	20.7	29.5	89.70	820.1	-503.6	993.9	953.2	40.65	24.450	
10,300.0	10,067.1	10,163.4	10,067.1	20.7	29.6	89.70	820.1	-503.6	993.9	953.1	40.76	24.381	
10,400.0	10,167.1	10,263.4	10,167.1	20.8	29.6	89.70	820.1	-503.6	993.9	953.0	40.88	24.313	
10,500.0	10,267.1	10,363.4	10,267.1	20.9	29.6	89.70	820.1	-503.6	993.9	952.9	40.99	24.244	
10,600.0	10,367.1	10,463.4	10,367.1	20.9	29.7	89.70	820.1	-503.6	993.9	952.8	41.11	24.176	
10,700.0	10,467.1	10,563.4	10,467.1	21.0	29.7	89.70	820.1	-503.6	993.9	952.6	41.23	24.108	
10,800.0	10,567.1	10,663.4	10,567.1	21.0	29.8	89.70	820.1	-503.6	993.9	952.5	41.34	24.041	
10,900.0	10,667.1	10,763.4	10,667.1	21.1	29.8	89.70	820.1	-503.6	993.9	952.4	41.46	23.973	
11,000.0	10,767.1	10,863.4	10,767.1	21.2	29.9	89.70	820.1	-503.6	993.9	952.3	41.57	23.906	
11,100.0	10,867.1	10,963.4	10,867.1	21.2	29.9	89.70	820.1	-503.6	993.9	952.2	41.69	23.839	
11,200.0	10,967.1	11,063.4	10,967.1	21.3	30.0	89.70	820.1	-503.6	993.9	952.1	41.81	23.772	
11,300.0	11,067.1	11,163.4	11,067.1	21.3	30.0	89.70	820.1	-503.6	993.9	951.9	41.93	23.705	
11,400.0	11,167.1	11,263.4	11,167.1	21.4	30.1	89.70	820.1	-503.6	993.9	951.8	42.04	23.638	
11,500.0	11,267.1	11,363.4	11,267.1	21.5	30.1	89.70	820.1	-503.6	993.9	951.7	42.16	23.572	
11,542.4	11,309.5	11,405.8	11,309.5	21.5	30.1	89.70	820.1	-503.6	993.9	951.7	42.20	23.550	
11,550.0	11,317.1	11,413.4	11,317.1	21.5	30.1	-89.95	820.1	-503.6	993.9	951.7	42.20	23.549	
11,575.0	11,342.1	11,441.8	11,345.5	21.5	30.1	-90.02	820.0	-503.7	993.9	951.7	42.21	23.548	
11,600.0	11,367.0	11,478.2	11,381.8	21.4	30.0	-90.12	817.8	-504.0	993.6	951.4	42.23	23.531	
11,625.0	11,391.7	11,514.7	11,418.0	21.4	29.9	-90.20	812.8	-504.7	993.1	950.9	42.26	23.498	
11,650.0	11,416.2	11,551.2	11,453.7	21.4	29.8	-90.27	805.2	-505.8	992.3	950.0	42.32	23.450	
11,675.0	11,440.4	11,587.6	11,488.5	21.4	29.7	-90.33	794.9	-507.3	991.2	948.9	42.38	23.388	
11,700.0	11,464.3	11,623.8	11,522.3	21.4	29.6	-90.37	782.1	-509.2	989.9	947.4	42.46	23.312	
11,725.0	11,487.7	11,659.7	11,554.7	21.3	29.5	-90.40	766.9	-511.4	988.3	945.7	42.55	23.224	
11,750.0	11,510.6	11,695.2	11,585.6	21.3	29.3	-90.42	749.6	-513.9	986.4	943.7	42.65	23.125	
11,775.0	11,533.0	11,730.3	11,614.8	21.3	29.2	-90.42	730.3	-516.7	984.2	941.5	42.76	23.017	
11,800.0	11,554.8	11,764.9	11,642.0	21.3	29.1	-90.42	709.2	-519.8	981.9	939.0	42.87	22.902	
11,825.0	11,575.9	11,798.9	11,667.3	21.2	29.0	-90.41	686.6	-523.1	979.3	936.3	42.99	22.780	
11,850.0	11,596.3	11,832.4	11,690.5	21.2	28.9	-90.39	662.7	-526.6	976.5	933.4	43.10	22.655	
11,875.0	11,615.9	11,865.3	11,711.5	21.2	28.8	-90.37	637.8	-530.2	973.5	930.3	43.21	22.528	
11,900.0	11,634.6	11,897.5	11,730.4	21.2	28.7	-90.35	612.0	-534.0	970.4	927.0	43.32	22.399	
11,925.0	11,652.5	11,929.1	11,747.3	21.2	28.7	-90.33	585.5	-537.9	967.1	923.6	43.42	22.271	
11,950.0	11,669.4	11,960.1	11,762.0	21.2	28.6	-90.30	558.5	-541.8	963.6	920.1	43.52	22.144	
11,975.0	11,685.3	11,990.4	11,774.6	21.2	28.6	-90.28	531.3	-545.8	960.1	916.5	43.60	22.020	
12,000.0	11,700.2	12,020.1	11,785.3	21.2	28.5	-90.25	503.8	-549.8	956.4	912.7	43.67	21.899	
12,025.0	11,714.0	12,049.2	11,794.1	21.2	28.5	-90.23	476.4	-553.8	952.6	908.9	43.74	21.782	
12,050.0	11,726.8	12,077.7	11,801.0	21.2	28.5	-90.22	449.1	-557.8	948.8	905.0	43.79	21.669	
12,075.0	11,738.3	12,105.6	11,806.2	21.2	28.5	-90.20	421.9	-561.7	944.9	901.1	43.83	21.561	
12,100.0	11,748.7	12,132.9	11,809.7	21.2	28.4	-90.19	395.1	-565.6	941.0	897.1	43.85	21.458	
12,125.0	11,757.9	12,159.8	11,811.7	21.2	28.5	-90.18	368.6	-569.5	937.0	893.2	43.87	21.360	
12,150.0	11,765.9	12,184.5	11,812.2	21.2	28.5	-90.21	344.2	-573.1	933.1	889.2	43.85	21.279	
12,175.0	11,772.6	12,200.0	11,812.2	21.2	28.5	-90.41	328.8	-575.2	929.3	885.6	43.70	21.266	
12,200.0	11,778.1	12,220.7	11,812.2	21.2	28.5	-90.57	308.3	-578.0	925.6	882.0	43.64	21.212	
12,225.0	11,782.2	12,239.2	11,812.2	21.3	28.5	-90.80	290.0	-580.4	922.2	878.6	43.55	21.175	
12,250.0	11,785.1	12,257.8	11,812.2	21.3	28.5	-91.06	271.5	-582.6	918.9	875.5	43.47	21.139	
12,275.0	11,786.6	12,276.6	11,812.2	21.3	28.5	-91.36	252.8	-584.8	915.9	872.5	43.40	21.102	
12,292.4	11,787.0	12,300.0	11,812.2	21.3	28.6	-91.59	229.5	-587.3	914.0	870.4	43.53	20.997	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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)			
12,300.0	11,787.0	12,300.0	11,812.2	21.3	28.6	-91.59	229.5	-587.3	913.0	869.6	43.42	21.028	
12,400.0	11,787.0	12,371.0	11,812.2	21.5	28.6	-91.60	158.9	-593.7	903.2	860.1	43.18	20.919	
12,500.0	11,787.0	12,446.9	11,812.2	21.7	28.7	-91.61	83.1	-598.7	896.1	853.0	43.05	20.816	
12,600.0	11,787.0	12,523.0	11,812.2	21.8	28.8	-91.62	7.0	-601.6	891.6	848.6	42.96	20.755	
12,700.0	11,787.0	12,600.0	11,812.2	22.0	28.8	-91.62	-69.9	-602.6	889.8	846.8	42.92	20.730	
12,719.4	11,787.0	12,614.2	11,812.2	22.1	28.9	-91.62	-84.1	-602.5	889.7	846.8	42.90	20.738	
12,800.0	11,787.0	12,694.7	11,812.2	22.2	28.9	-91.62	-164.6	-602.0	889.7	846.5	43.26	20.569	
12,900.0	11,787.0	12,794.7	11,812.2	22.5	29.1	-91.62	-264.6	-601.4	889.7	846.0	43.77	20.330	
13,000.0	11,787.0	12,894.7	11,812.2	22.7	29.2	-91.62	-364.6	-600.7	889.7	845.4	44.34	20.065	
13,100.0	11,787.0	12,994.7	11,812.2	23.0	29.4	-91.62	-464.6	-600.1	889.7	844.8	44.98	19.779	
13,200.0	11,787.0	13,094.7	11,812.2	23.2	29.5	-91.62	-564.6	-599.5	889.8	844.1	45.69	19.474	
13,300.0	11,787.0	13,194.7	11,812.2	23.5	29.7	-91.62	-664.6	-598.8	889.8	843.3	46.45	19.154	
13,400.0	11,787.0	13,294.7	11,812.2	23.9	30.0	-91.62	-764.6	-598.2	889.8	842.5	47.27	18.821	
13,500.0	11,787.0	13,394.7	11,812.2	24.2	30.2	-91.62	-864.6	-597.6	889.8	841.6	48.15	18.480	
13,600.0	11,787.0	13,494.7	11,812.2	24.6	30.5	-91.62	-964.6	-596.9	889.8	840.7	49.08	18.131	
13,700.0	11,787.0	13,594.7	11,812.2	25.0	30.8	-91.62	-1,064.6	-596.3	889.8	839.8	50.05	17.778	
13,800.0	11,787.0	13,694.7	11,812.2	25.4	31.1	-91.62	-1,164.6	-595.7	889.8	838.7	51.07	17.424	
13,900.0	11,787.0	13,794.7	11,812.2	25.8	31.4	-91.62	-1,264.6	-595.0	889.8	837.7	52.13	17.069	
14,000.0	11,787.0	13,894.7	11,812.2	26.2	31.8	-91.62	-1,364.6	-594.4	889.8	836.6	53.23	16.716	
14,100.0	11,787.0	13,994.7	11,812.2	26.7	32.2	-91.62	-1,464.6	-593.8	889.8	835.5	54.37	16.366	
14,200.0	11,787.0	14,094.7	11,812.2	27.2	32.6	-91.62	-1,564.6	-593.1	889.8	834.3	55.55	16.020	
14,300.0	11,787.0	14,194.7	11,812.2	27.7	33.1	-91.62	-1,664.6	-592.5	889.9	833.1	56.75	15.679	
14,400.0	11,787.0	14,294.7	11,812.2	28.2	33.6	-91.62	-1,764.6	-591.9	889.9	831.9	57.99	15.345	
14,500.0	11,787.0	14,394.7	11,812.2	28.7	34.1	-91.62	-1,864.6	-591.2	889.9	830.6	59.26	15.017	
14,600.0	11,787.0	14,494.7	11,812.2	29.3	34.7	-91.62	-1,964.6	-590.6	889.9	829.3	60.55	14.696	
14,700.0	11,787.0	14,594.7	11,812.2	29.8	35.3	-91.62	-2,064.6	-590.0	889.9	828.0	61.87	14.382	
14,800.0	11,787.0	14,694.7	11,812.2	30.4	35.9	-91.62	-2,164.6	-589.3	889.9	826.7	63.22	14.077	
14,900.0	11,787.0	14,794.7	11,812.2	31.0	36.5	-91.62	-2,264.6	-588.7	889.9	825.3	64.58	13.779	
15,000.0	11,787.0	14,894.7	11,812.2	31.6	37.1	-91.62	-2,364.6	-588.1	889.9	823.9	65.97	13.490	
15,100.0	11,787.0	14,994.7	11,812.2	32.2	37.8	-91.62	-2,464.6	-587.4	889.9	822.6	67.38	13.208	
15,200.0	11,787.0	15,094.7	11,812.2	32.8	38.5	-91.62	-2,564.6	-586.8	889.9	821.1	68.80	12.935	
15,300.0	11,787.0	15,194.7	11,812.2	33.4	39.2	-91.62	-2,664.6	-586.2	889.9	819.7	70.25	12.669	
15,400.0	11,787.0	15,294.7	11,812.2	34.1	39.9	-91.62	-2,764.6	-585.5	890.0	818.3	71.70	12.411	
15,500.0	11,787.0	15,394.7	11,812.2	34.7	40.6	-91.62	-2,864.6	-584.9	890.0	816.8	73.18	12.162	
15,600.0	11,787.0	15,494.7	11,812.2	35.4	41.4	-91.62	-2,964.6	-584.3	890.0	815.3	74.67	11.919	
15,700.0	11,787.0	15,594.7	11,812.2	36.0	42.1	-91.62	-3,064.6	-583.6	890.0	813.8	76.17	11.684	
15,800.0	11,787.0	15,694.7	11,812.2	36.7	42.9	-91.62	-3,164.6	-583.0	890.0	812.3	77.68	11.457	
15,900.0	11,787.0	15,794.7	11,812.2	37.4	43.7	-91.62	-3,264.6	-582.4	890.0	810.8	79.21	11.236	
16,000.0	11,787.0	15,894.7	11,812.2	38.1	44.5	-91.62	-3,364.6	-581.7	890.0	809.3	80.75	11.022	
16,100.0	11,787.0	15,994.7	11,812.2	38.8	45.3	-91.62	-3,464.6	-581.1	890.0	807.7	82.30	10.815	
16,200.0	11,787.0	16,094.7	11,812.2	39.5	46.1	-91.62	-3,564.6	-580.5	890.0	806.2	83.85	10.614	
16,300.0	11,787.0	16,194.7	11,812.2	40.2	46.9	-91.62	-3,664.6	-579.8	890.0	804.6	85.42	10.419	
16,400.0	11,787.0	16,294.7	11,812.2	40.9	47.7	-91.62	-3,764.6	-579.2	890.0	803.0	87.00	10.230	
16,500.0	11,787.0	16,394.7	11,812.2	41.6	48.5	-91.62	-3,864.6	-578.6	890.1	801.5	88.59	10.047	
16,600.0	11,787.0	16,494.7	11,812.2	42.4	49.4	-91.62	-3,964.6	-577.9	890.1	799.9	90.18	9.870	
16,700.0	11,787.0	16,594.7	11,812.2	43.1	50.2	-91.62	-4,064.6	-577.3	890.1	798.3	91.78	9.698	
16,800.0	11,787.0	16,694.7	11,812.2	43.8	51.0	-91.62	-4,164.5	-576.7	890.1	796.7	93.39	9.531	
16,900.0	11,787.0	16,794.7	11,812.2	44.6	51.9	-91.62	-4,264.5	-576.0	890.1	795.1	95.00	9.369	
17,000.0	11,787.0	16,894.7	11,812.2	45.3	52.7	-91.62	-4,364.5	-575.4	890.1	793.5	96.63	9.212	
17,100.0	11,787.0	16,994.7	11,812.2	46.1	53.6	-91.62	-4,464.5	-574.8	890.1	791.9	98.25	9.059	
17,200.0	11,787.0	17,094.7	11,812.2	46.8	54.5	-91.62	-4,564.5	-574.1	890.1	790.2	99.89	8.911	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor
17,300.0	11,787.0	17,194.7	11,812.2	47.6	55.3	-91.62	-4,664.5	-573.5	890.1	788.6	101.53	8.767
17,400.0	11,787.0	17,294.7	11,812.2	48.3	56.2	-91.62	-4,764.5	-572.9	890.1	787.0	103.17	8.628
17,500.0	11,787.0	17,394.7	11,812.2	49.1	57.1	-91.62	-4,864.5	-572.2	890.1	785.3	104.82	8.492
17,600.0	11,787.0	17,494.7	11,812.2	49.9	58.0	-91.62	-4,964.5	-571.6	890.2	783.7	106.48	8.360
17,700.0	11,787.0	17,594.7	11,812.2	50.6	58.8	-91.62	-5,064.5	-571.0	890.2	782.0	108.14	8.232
17,800.0	11,787.0	17,694.7	11,812.2	51.4	59.7	-91.62	-5,164.5	-570.3	890.2	780.4	109.80	8.107
17,900.0	11,787.0	17,794.7	11,812.2	52.2	60.6	-91.62	-5,264.5	-569.7	890.2	778.7	111.47	7.986
18,000.0	11,787.0	17,894.7	11,812.2	53.0	61.5	-91.62	-5,364.5	-569.1	890.2	777.1	113.14	7.868
18,100.0	11,787.0	17,994.7	11,812.2	53.7	62.4	-91.62	-5,464.5	-568.4	890.2	775.4	114.82	7.753
18,200.0	11,787.0	18,094.7	11,812.2	54.5	63.3	-91.62	-5,564.5	-567.8	890.2	773.7	116.50	7.641
18,300.0	11,787.0	18,194.7	11,812.2	55.3	64.2	-91.62	-5,664.5	-567.2	890.2	772.0	118.18	7.533
18,400.0	11,787.0	18,294.7	11,812.2	56.1	65.1	-91.62	-5,764.5	-566.5	890.2	770.4	119.87	7.427
18,500.0	11,787.0	18,394.7	11,812.2	56.9	66.0	-91.62	-5,864.5	-565.9	890.2	768.7	121.56	7.324
18,600.0	11,787.0	18,494.7	11,812.2	57.7	66.9	-91.62	-5,964.5	-565.3	890.2	767.0	123.25	7.223
18,700.0	11,787.0	18,594.7	11,812.2	58.5	67.8	-91.62	-6,064.5	-564.6	890.3	765.3	124.95	7.125
18,800.0	11,787.0	18,694.7	11,812.2	59.3	68.7	-91.62	-6,164.5	-564.0	890.3	763.6	126.65	7.030
18,900.0	11,787.0	18,794.7	11,812.2	60.0	69.6	-91.62	-6,264.5	-563.4	890.3	761.9	128.35	6.936
19,000.0	11,787.0	18,894.7	11,812.2	60.8	70.5	-91.62	-6,364.5	-562.7	890.3	760.2	130.05	6.846
19,100.0	11,787.0	18,994.7	11,812.2	61.6	71.4	-91.62	-6,464.5	-562.1	890.3	758.5	131.76	6.757
19,200.0	11,787.0	19,094.7	11,812.2	62.4	72.3	-91.62	-6,564.5	-561.5	890.3	756.8	133.47	6.671
19,300.0	11,787.0	19,194.7	11,812.2	63.2	73.3	-91.62	-6,664.5	-560.8	890.3	755.1	135.18	6.586
19,400.0	11,787.0	19,294.7	11,812.2	64.1	74.2	-91.62	-6,764.5	-560.2	890.3	753.4	136.89	6.504
19,500.0	11,787.0	19,394.7	11,812.2	64.9	75.1	-91.62	-6,864.5	-559.5	890.3	751.7	138.61	6.423
19,600.0	11,787.0	19,494.7	11,812.2	65.7	76.0	-91.62	-6,964.5	-558.9	890.3	750.0	140.33	6.345
19,649.9	11,787.0	19,544.6	11,812.2	66.2	76.5	-91.62	-7,014.4	-558.6	890.3	749.3	141.08	6.311

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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)			
0.0	0.0	1.5	0.0	3.0	3.0	125.92	-35.2	48.5	60.0				
100.0	100.0	101.5	100.0	3.1	3.1	125.92	-35.2	48.5	60.0	53.3	6.61	9.066	
200.0	200.0	201.5	200.0	3.3	3.3	125.92	-35.2	48.5	60.0	52.9	7.06	8.486	
300.0	300.0	301.5	300.0	3.6	3.6	125.92	-35.2	48.5	60.0	52.5	7.49	8.003	
400.0	400.0	401.5	400.0	3.8	3.8	125.92	-35.2	48.5	60.0	52.1	7.90	7.593	
500.0	500.0	501.5	500.0	4.0	4.0	125.92	-35.2	48.5	60.0	51.7	8.28	7.238	
600.0	600.0	601.5	600.0	4.1	4.1	125.92	-35.2	48.5	60.0	51.3	8.65	6.927	
700.0	700.0	701.5	700.0	4.3	4.3	125.92	-35.2	48.5	60.0	50.9	9.01	6.651	
800.0	800.0	801.5	800.0	4.5	4.5	125.92	-35.2	48.5	60.0	50.6	9.36	6.404	
900.0	900.0	901.5	900.0	4.7	4.7	125.92	-35.2	48.5	60.0	50.3	9.70	6.182	
1,000.0	1,000.0	1,001.5	1,000.0	4.8	4.8	125.92	-35.2	48.5	60.0	49.9	10.03	5.979	
1,100.0	1,100.0	1,101.5	1,100.0	5.0	5.0	125.92	-35.2	48.5	60.0	49.6	10.35	5.795	
1,200.0	1,200.0	1,201.5	1,200.0	5.2	5.2	125.92	-35.2	48.5	60.0	49.3	10.66	5.625	
1,300.0	1,300.0	1,301.5	1,300.0	5.3	5.3	125.92	-35.2	48.5	60.0	49.0	10.96	5.468	
1,400.0	1,400.0	1,401.5	1,400.0	5.5	5.5	125.92	-35.2	48.5	60.0	48.7	11.26	5.323	
1,500.0	1,500.0	1,501.5	1,500.0	5.6	5.6	125.92	-35.2	48.5	60.0	48.4	11.56	5.188	
1,600.0	1,600.0	1,601.5	1,600.0	5.8	5.8	125.92	-35.2	48.5	60.0	48.1	11.84	5.062	
1,700.0	1,700.0	1,701.5	1,700.0	5.9	5.9	125.92	-35.2	48.5	60.0	47.8	12.13	4.944	
1,800.0	1,800.0	1,801.5	1,800.0	6.0	6.0	125.92	-35.2	48.5	60.0	47.5	12.41	4.833	
1,900.0	1,900.0	1,901.5	1,900.0	6.2	6.2	125.92	-35.2	48.5	60.0	47.3	12.68	4.728	
2,000.0	2,000.0	2,001.5	2,000.0	6.3	6.3	125.92	-35.2	48.5	60.0	47.0	12.95	4.629 CC, ES	
2,100.0	2,100.0	2,101.5	2,100.0	6.5	6.5	-159.51	-35.2	48.5	61.2	47.9	13.24	4.622 SF	
2,200.0	2,199.9	2,201.4	2,199.9	6.6	6.6	-160.71	-35.2	48.5	64.9	51.4	13.51	4.800	
2,300.0	2,299.7	2,301.2	2,299.7	6.8	6.7	-162.42	-35.2	48.5	71.1	57.3	13.79	5.153	
2,333.3	2,332.9	2,334.4	2,332.9	6.8	6.8	-163.06	-35.2	48.5	73.7	59.9	13.85	5.322	
2,400.0	2,399.3	2,400.8	2,399.3	6.9	6.8	-168.30	-35.2	48.5	80.1	66.1	14.00	5.718	
2,500.0	2,498.5	2,500.0	2,498.5	7.1	7.0	-173.32	-35.2	48.5	92.5	78.2	14.32	6.461	
2,600.0	2,597.2	2,598.2	2,596.7	7.3	7.2	-177.31	-33.8	49.5	108.6	94.0	14.64	7.422	
2,700.0	2,695.3	2,695.4	2,693.8	7.5	7.4	178.58	-29.7	52.4	128.8	113.8	14.95	8.611	
2,800.0	2,792.6	2,793.9	2,791.9	7.6	7.5	174.58	-22.9	56.8	152.7	137.5	15.22	10.035	
2,900.0	2,889.2	2,895.7	2,893.2	7.8	7.7	171.18	-13.1	59.6	177.8	162.2	15.58	11.410	
2,932.6	2,920.4	2,928.9	2,926.2	7.9	7.7	170.20	-9.3	60.0	186.1	170.4	15.66	11.883	
3,000.0	2,985.0	2,998.3	2,995.0	7.9	7.9	168.77	-0.5	60.1	202.6	186.8	15.82	12.805	
3,100.0	3,080.7	3,102.1	3,097.6	8.1	8.1	166.60	15.0	58.0	224.8	208.7	16.08	13.976	
3,200.0	3,176.4	3,205.1	3,198.9	8.2	8.3	164.38	33.0	53.6	244.3	228.0	16.31	14.984	
3,300.0	3,272.2	3,302.9	3,295.0	8.4	8.5	162.47	50.9	48.8	263.4	246.8	16.59	15.876	
3,400.0	3,367.9	3,400.7	3,391.0	8.5	8.8	160.81	68.7	43.9	282.7	265.8	16.86	16.761	
3,500.0	3,463.7	3,498.6	3,487.1	8.7	9.0	159.36	86.6	39.0	302.2	285.0	17.14	17.625	
3,600.0	3,559.4	3,596.4	3,583.1	8.9	9.3	158.09	104.4	34.2	321.8	304.4	17.43	18.464	
3,700.0	3,655.1	3,694.2	3,679.2	9.0	9.6	156.97	122.2	29.3	341.6	323.9	17.72	19.278	
3,800.0	3,750.9	3,792.0	3,775.2	9.2	9.9	155.97	140.1	24.5	361.5	343.5	18.01	20.068	
3,900.0	3,846.6	3,889.8	3,871.3	9.4	10.2	155.07	157.9	19.6	381.5	363.2	18.31	20.832	
4,000.0	3,942.4	3,987.6	3,967.3	9.5	10.6	154.26	175.8	14.8	401.6	383.0	18.62	21.570	
4,100.0	4,038.1	4,085.4	4,063.4	9.7	10.9	153.53	193.6	9.9	421.7	402.8	18.92	22.284	
4,200.0	4,133.9	4,183.2	4,159.4	9.9	11.2	152.87	211.5	5.0	441.9	422.7	19.24	22.973	
4,300.0	4,229.6	4,281.1	4,255.5	10.1	11.6	152.26	229.3	0.2	462.2	442.6	19.55	23.638	
4,400.0	4,325.3	4,378.9	4,351.5	10.3	11.9	151.70	247.2	-4.7	482.5	462.6	19.87	24.280	
4,500.0	4,421.1	4,476.7	4,447.6	10.5	12.3	151.19	265.0	-9.5	502.8	482.6	20.19	24.899	
4,600.0	4,516.8	4,574.5	4,543.6	10.7	12.7	150.72	282.8	-14.4	523.2	502.7	20.52	25.497	
4,700.0	4,612.6	4,672.3	4,639.7	10.9	13.1	150.29	300.7	-19.2	543.6	522.8	20.85	26.074	
4,800.0	4,708.3	4,770.1	4,735.7	11.1	13.4	149.88	318.5	-24.1	564.1	542.9	21.18	26.630	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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)			
4,900.0	4,804.0	4,867.9	4,831.8	11.3	13.8	149.51	336.4	-29.0	584.5	563.0	21.52	27.166	
5,000.0	4,899.8	4,965.8	4,927.8	11.5	14.2	149.16	354.2	-33.8	605.0	583.1	21.85	27.684	
5,100.0	4,995.5	5,063.6	5,023.9	11.7	14.6	148.83	372.1	-38.7	625.5	603.3	22.19	28.183	
5,200.0	5,091.3	5,161.4	5,119.9	11.9	15.0	148.52	389.9	-43.5	646.0	623.5	22.54	28.665	
5,300.0	5,187.0	5,259.2	5,216.0	12.1	15.4	148.23	407.7	-48.4	666.6	643.7	22.88	29.131	
5,400.0	5,282.8	5,357.0	5,312.0	12.3	15.8	147.96	425.6	-53.2	687.1	663.9	23.23	29.580	
5,500.0	5,378.5	5,454.8	5,408.1	12.5	16.2	147.71	443.4	-58.1	707.7	684.1	23.58	30.013	
5,600.0	5,474.2	5,552.6	5,504.1	12.7	16.6	147.47	461.3	-63.0	728.3	704.4	23.93	30.432	
5,700.0	5,570.0	5,650.5	5,600.2	12.9	17.0	147.24	479.1	-67.8	748.9	724.6	24.29	30.837	
5,800.0	5,665.7	5,748.3	5,696.2	13.2	17.4	147.02	497.0	-72.7	769.5	744.8	24.64	31.228	
5,900.0	5,761.5	5,846.1	5,792.3	13.4	17.9	146.82	514.8	-77.5	790.1	765.1	25.00	31.606	
6,000.0	5,857.2	5,943.9	5,888.3	13.6	18.3	146.63	532.7	-82.4	810.7	785.4	25.36	31.972	
6,100.0	5,953.0	6,041.7	5,984.4	13.8	18.7	146.44	550.5	-87.2	831.4	805.6	25.72	32.325	
6,200.0	6,048.7	6,139.5	6,080.4	14.0	19.1	146.27	568.3	-92.1	852.0	825.9	26.08	32.667	
6,300.0	6,144.4	6,237.3	6,176.5	14.3	19.5	146.10	586.2	-97.0	872.6	846.2	26.45	32.998	
6,400.0	6,240.2	6,335.2	6,272.5	14.5	20.0	145.94	604.0	-101.8	893.3	866.5	26.81	33.319	
6,500.0	6,335.9	6,433.0	6,368.6	14.7	20.4	145.79	621.9	-106.7	914.0	886.8	27.18	33.629	
6,600.0	6,431.7	6,530.8	6,464.6	14.9	20.8	145.64	639.7	-111.5	934.6	907.1	27.55	33.929	
6,700.0	6,527.4	6,628.6	6,560.7	15.2	21.2	145.50	657.6	-116.4	955.3	927.4	27.92	34.220	
6,800.0	6,623.1	6,726.4	6,656.7	15.4	21.7	145.37	675.4	-121.2	976.0	947.7	28.29	34.502	
6,900.0	6,718.9	6,824.2	6,752.8	15.6	22.1	145.24	693.2	-126.1	996.7	968.0	28.66	34.775	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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	1.5	0.0	3.0	0.0	125.79	-46.7	64.8	79.9				
100.0	100.0	101.5	100.0	3.1	0.8	125.79	-46.7	64.8	79.9	75.0	4.96	16.106	
200.0	200.0	201.5	200.0	3.3	1.5	125.79	-46.7	64.8	79.9	74.4	5.56	14.368	
300.0	300.0	301.5	300.0	3.6	1.9	125.79	-46.7	64.8	79.9	73.8	6.10	13.096	
400.0	400.0	401.5	400.0	3.8	2.3	125.79	-46.7	64.8	79.9	73.3	6.60	12.109	
500.0	500.0	501.5	500.0	4.0	2.6	125.79	-46.7	64.8	79.9	72.9	7.07	11.314	
600.0	600.0	601.5	600.0	4.1	2.9	125.79	-46.7	64.8	79.9	72.4	7.50	10.656	
700.0	700.0	701.5	700.0	4.3	3.1	125.79	-46.7	64.8	79.9	72.0	7.92	10.097	
800.0	800.0	801.5	800.0	4.5	3.4	125.79	-46.7	64.8	79.9	71.6	8.31	9.616	
900.0	900.0	901.5	900.0	4.7	3.6	125.79	-46.7	64.8	79.9	71.3	8.69	9.196	
1,000.0	1,000.0	1,001.5	1,000.0	4.8	3.8	125.79	-46.7	64.8	79.9	70.9	9.06	8.824	
1,100.0	1,100.0	1,101.5	1,100.0	5.0	4.0	125.79	-46.7	64.8	79.9	70.5	9.41	8.492	
1,200.0	1,200.0	1,201.5	1,200.0	5.2	4.2	125.79	-46.7	64.8	79.9	70.2	9.76	8.193	
1,300.0	1,300.0	1,301.5	1,300.0	5.3	4.4	125.79	-46.7	64.8	79.9	69.9	10.09	7.922	
1,400.0	1,400.0	1,401.5	1,400.0	5.5	4.6	125.79	-46.7	64.8	79.9	69.5	10.42	7.675	
1,500.0	1,500.0	1,501.5	1,500.0	5.6	4.7	125.79	-46.7	64.8	79.9	69.2	10.73	7.447	
1,600.0	1,600.0	1,601.5	1,600.0	5.8	4.9	125.79	-46.7	64.8	79.9	68.9	11.04	7.238	
1,700.0	1,700.0	1,701.5	1,700.0	5.9	5.1	125.79	-46.7	64.8	79.9	68.6	11.35	7.044	
1,800.0	1,800.0	1,801.5	1,800.0	6.0	5.2	125.79	-46.7	64.8	79.9	68.3	11.65	6.864	
1,900.0	1,900.0	1,901.5	1,900.0	6.2	5.4	125.79	-46.7	64.8	79.9	68.0	11.94	6.696	
2,000.0	2,000.0	2,001.5	2,000.0	6.3	5.6	125.79	-46.7	64.9	79.9	67.7	12.23	6.538 CC	
2,004.4	2,004.4	2,006.0	2,004.5	6.3	5.6	-159.22	-46.7	64.9	79.9	67.7	12.24	6.531 ES	
2,100.0	2,100.0	2,101.7	2,100.2	6.5	5.8	-160.49	-45.6	65.5	81.1	68.5	12.53	6.469 SF	
2,200.0	2,199.9	2,201.6	2,200.0	6.6	5.9	-164.04	-42.1	67.5	84.6	71.8	12.82	6.599	
2,300.0	2,299.7	2,301.0	2,299.2	6.8	6.2	-169.26	-36.5	70.8	91.2	78.1	13.11	6.953	
2,333.3	2,332.9	2,333.9	2,332.0	6.8	6.2	-171.23	-34.1	72.1	94.1	81.0	13.15	7.161	
2,400.0	2,399.3	2,400.4	2,398.2	6.9	6.3	-179.44	-28.3	75.1	101.3	88.0	13.28	7.630	
2,500.0	2,498.5	2,499.5	2,496.4	7.1	6.6	170.70	-16.9	79.9	115.2	101.6	13.62	8.459	
2,600.0	2,597.2	2,597.4	2,593.2	7.3	6.9	162.76	-2.2	85.0	133.1	119.1	13.96	9.531	
2,700.0	2,695.3	2,694.2	2,688.2	7.5	7.2	156.26	15.5	90.4	154.9	140.6	14.30	10.833	
2,800.0	2,792.6	2,789.7	2,781.2	7.6	7.6	150.92	36.1	96.1	180.7	166.1	14.64	12.342	
2,900.0	2,889.2	2,883.9	2,872.3	7.8	7.8	146.51	59.3	102.0	210.2	195.3	14.94	14.072	
2,932.6	2,920.4	2,914.6	2,902.0	7.9	7.9	145.33	67.2	103.9	220.6	205.6	15.01	14.693	
3,000.0	2,985.0	2,978.2	2,963.3	7.9	8.1	143.92	83.5	108.0	242.3	227.1	15.20	15.945	
3,100.0	3,080.7	3,072.6	3,054.3	8.1	8.4	142.24	107.7	114.0	274.8	259.3	15.52	17.705	
3,200.0	3,176.4	3,166.9	3,145.2	8.2	8.8	140.92	131.8	120.0	307.5	291.6	15.86	19.385	
3,300.0	3,272.2	3,261.2	3,236.2	8.4	9.1	139.85	156.0	126.0	340.3	324.1	16.22	20.984	
3,400.0	3,367.9	3,355.5	3,327.1	8.5	9.5	138.97	180.2	132.0	373.1	356.6	16.58	22.504	
3,500.0	3,463.7	3,449.8	3,418.1	8.7	9.8	138.23	204.3	138.1	406.1	389.1	16.96	23.947	
3,600.0	3,559.4	3,544.1	3,509.0	8.9	10.2	137.60	228.5	144.1	439.0	421.7	17.34	25.314	
3,700.0	3,655.1	3,638.4	3,600.0	9.0	10.6	137.06	252.7	150.1	472.1	454.3	17.74	26.609	
3,800.0	3,750.9	3,732.7	3,690.9	9.2	11.0	136.59	276.9	156.1	505.1	487.0	18.15	27.836	
3,900.0	3,846.6	3,827.0	3,781.9	9.4	11.4	136.18	301.0	162.1	538.2	519.6	18.56	28.998	
4,000.0	3,942.4	3,921.3	3,872.8	9.5	11.8	135.81	325.2	168.1	571.3	552.3	18.98	30.098	
4,100.0	4,038.1	4,015.6	3,963.8	9.7	12.2	135.49	349.4	174.2	604.4	585.0	19.41	31.139	
4,200.0	4,133.9	4,109.9	4,054.8	9.9	12.6	135.20	373.5	180.2	637.6	617.7	19.85	32.125	
4,300.0	4,229.6	4,204.2	4,145.7	10.1	13.0	134.93	397.7	186.2	670.7	650.4	20.29	33.060	
4,400.0	4,325.3	4,298.5	4,236.7	10.3	13.4	134.70	421.9	192.2	703.9	683.1	20.74	33.945	
4,500.0	4,421.1	4,392.8	4,327.6	10.5	13.9	134.48	446.1	198.2	737.0	715.9	21.19	34.784	
4,600.0	4,516.8	4,487.1	4,418.6	10.7	14.3	134.28	470.2	204.2	770.2	748.6	21.65	35.581	
4,700.0	4,612.6	4,581.4	4,509.5	10.9	14.7	134.10	494.4	210.3	803.4	781.3	22.11	36.336	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,800.0	4,708.3	4,675.7	4,600.5	11.1	15.1	133.93	518.6	216.3	836.6	814.0	22.58	37.054		
4,900.0	4,804.0	4,770.0	4,691.4	11.3	15.6	133.78	542.7	222.3	869.8	846.8	23.05	37.736		
5,000.0	4,899.8	4,864.3	4,782.4	11.5	16.0	133.64	566.9	228.3	903.0	879.5	23.53	38.384		
5,100.0	4,995.5	4,958.6	4,873.3	11.7	16.4	133.50	591.1	234.3	936.2	912.2	24.01	39.001		
5,200.0	5,091.3	5,052.9	4,964.3	11.9	16.9	133.38	615.3	240.3	969.4	945.0	24.48	39.604		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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)			
0.0	0.0	2.0	0.0	3.0	3.0	125.76	-58.4	81.1	99.9				
100.0	100.0	102.0	100.0	3.1	3.1	125.76	-58.4	81.1	99.9	93.3	6.61	15.112	
200.0	200.0	202.0	200.0	3.3	3.3	125.76	-58.4	81.1	99.9	92.9	7.07	14.145	
300.0	300.0	302.0	300.0	3.6	3.6	125.76	-58.4	81.1	99.9	92.5	7.49	13.341	
400.0	400.0	402.0	400.0	3.8	3.8	125.76	-58.4	81.1	99.9	92.0	7.90	12.657	
500.0	500.0	502.0	500.0	4.0	4.0	125.76	-58.4	81.1	99.9	91.7	8.28	12.065	
600.0	600.0	602.0	600.0	4.1	4.1	125.76	-58.4	81.1	99.9	91.3	8.66	11.547	
700.0	700.0	702.0	700.0	4.3	4.3	125.76	-58.4	81.1	99.9	90.9	9.01	11.087	
800.0	800.0	802.0	800.0	4.5	4.5	125.76	-58.4	81.1	99.9	90.6	9.36	10.676	
900.0	900.0	902.0	900.0	4.7	4.7	125.76	-58.4	81.1	99.9	90.2	9.70	10.305	
1,000.0	1,000.0	1,002.0	1,000.0	4.8	4.8	125.76	-58.4	81.1	99.9	89.9	10.03	9.968	
1,100.0	1,100.0	1,102.0	1,100.0	5.0	5.0	125.76	-58.4	81.1	99.9	89.6	10.35	9.660	
1,200.0	1,200.0	1,202.0	1,200.0	5.2	5.2	125.76	-58.4	81.1	99.9	89.3	10.66	9.377	
1,300.0	1,300.0	1,302.0	1,300.0	5.3	5.3	125.76	-58.4	81.1	99.9	89.0	10.96	9.116	
1,400.0	1,400.0	1,402.0	1,400.0	5.5	5.5	125.76	-58.4	81.1	99.9	88.7	11.26	8.874	
1,500.0	1,500.0	1,502.0	1,500.0	5.6	5.6	125.76	-58.4	81.1	99.9	88.4	11.56	8.649	
1,600.0	1,600.0	1,602.0	1,600.0	5.8	5.8	125.76	-58.4	81.1	99.9	88.1	11.84	8.438	
1,700.0	1,700.0	1,702.0	1,700.0	5.9	5.9	125.76	-58.4	81.1	99.9	87.8	12.13	8.241	
1,800.0	1,800.0	1,802.0	1,800.0	6.0	6.0	125.76	-58.4	81.1	99.9	87.5	12.41	8.056	
1,866.0	1,866.0	1,868.0	1,866.0	6.1	6.1	125.76	-58.4	81.1	99.9	87.4	12.59	7.941 CC	
1,900.0	1,900.0	1,902.0	1,900.0	6.2	6.2	125.76	-58.4	81.1	99.9	87.3	12.68	7.882	
2,000.0	2,000.0	2,001.5	1,999.5	6.3	6.4	124.74	-57.1	82.3	100.2	87.2	12.95	7.737 ES	
2,100.0	2,100.0	2,100.8	2,098.6	6.5	6.6	-163.40	-53.2	85.9	102.3	89.1	13.23	7.730 SF	
2,200.0	2,199.9	2,199.3	2,196.7	6.6	6.8	-168.44	-46.9	91.7	108.2	94.7	13.52	8.003	
2,300.0	2,299.7	2,296.7	2,293.4	6.8	7.1	-174.56	-38.3	99.7	118.7	104.9	13.82	8.589	
2,333.3	2,332.9	2,328.8	2,325.2	6.8	7.2	-176.68	-34.9	102.8	123.3	109.4	13.89	8.880	
2,400.0	2,399.3	2,392.6	2,388.2	6.9	7.4	175.12	-27.4	109.8	134.6	120.6	14.07	9.572	
2,500.0	2,498.5	2,486.6	2,480.6	7.1	7.6	165.96	-14.4	121.7	156.7	142.3	14.43	10.862	
2,600.0	2,597.2	2,579.1	2,570.7	7.3	7.9	159.21	0.4	135.4	184.7	169.9	14.75	12.524	
2,700.0	2,695.3	2,673.2	2,662.4	7.5	8.1	154.41	16.4	150.2	216.9	201.8	15.11	14.355	
2,800.0	2,792.6	2,766.6	2,753.2	7.6	8.4	151.20	32.2	164.8	252.2	236.7	15.49	16.280	
2,900.0	2,889.2	2,859.0	2,843.1	7.8	8.6	149.06	47.9	179.2	290.2	274.3	15.87	18.284	
2,932.6	2,920.4	2,888.9	2,872.2	7.9	8.7	148.53	52.9	183.9	303.1	287.1	15.97	18.984	
3,000.0	2,985.0	2,950.6	2,932.3	7.9	8.9	148.34	63.4	193.5	330.2	314.0	16.18	20.407	
3,100.0	3,080.7	3,042.2	3,021.4	8.1	9.2	148.10	78.9	207.9	370.3	353.8	16.54	22.398	
3,200.0	3,176.4	3,133.8	3,110.5	8.2	9.5	147.91	94.4	222.2	410.5	393.6	16.90	24.286	
3,300.0	3,272.2	3,225.4	3,199.6	8.4	9.9	147.75	109.9	236.5	450.7	433.4	17.28	26.077	
3,400.0	3,367.9	3,316.9	3,288.7	8.5	10.2	147.62	125.4	250.8	490.9	473.2	17.67	27.774	
3,500.0	3,463.7	3,408.5	3,377.8	8.7	10.5	147.51	140.9	265.1	531.0	513.0	18.07	29.382	
3,600.0	3,559.4	3,500.1	3,466.9	8.9	10.9	147.41	156.4	279.5	571.2	552.7	18.48	30.903	
3,700.0	3,655.1	3,591.6	3,556.0	9.0	11.2	147.33	172.0	293.8	611.4	592.5	18.90	32.343	
3,800.0	3,750.9	3,683.2	3,645.1	9.2	11.6	147.26	187.5	308.1	651.6	632.2	19.33	33.706	
3,900.0	3,846.6	3,774.8	3,734.2	9.4	12.0	147.19	203.0	322.4	691.7	672.0	19.77	34.996	
4,000.0	3,942.4	3,866.4	3,823.3	9.5	12.3	147.13	218.5	336.7	731.9	711.7	20.21	36.218	
4,100.0	4,038.1	3,957.9	3,912.4	9.7	12.7	147.08	234.0	351.1	772.1	751.4	20.66	37.375	
4,200.0	4,133.9	4,049.5	4,001.6	9.9	13.1	147.04	249.5	365.4	812.3	791.2	21.11	38.471	
4,300.0	4,229.6	4,141.1	4,090.7	10.1	13.5	146.99	265.0	379.7	852.4	830.9	21.58	39.510	
4,400.0	4,325.3	4,232.6	4,179.8	10.3	13.9	146.96	280.5	394.0	892.6	870.6	22.04	40.495	
4,500.0	4,421.1	4,324.2	4,268.9	10.5	14.3	146.92	296.0	408.3	932.8	910.3	22.52	41.430	
4,600.0	4,516.8	4,415.8	4,358.0	10.7	14.7	146.89	311.6	422.7	973.0	950.0	22.99	42.317	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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	Highside	Rule Assigned:				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	4.0	0.0	3.0	3.0	-54.68	11.6	-16.3	20.0				
100.0	100.0	104.0	100.0	3.1	3.1	-54.68	11.6	-16.3	20.0	13.4	6.62	3.024	
200.0	200.0	204.0	200.0	3.3	3.3	-54.68	11.6	-16.3	20.0	12.9	7.07	2.831 Normal Operations	
300.0	300.0	304.0	300.0	3.6	3.6	-54.68	11.6	-16.3	20.0	12.5	7.50	2.670 Normal Operations	
400.0	400.0	404.0	400.0	3.8	3.8	-54.68	11.6	-16.3	20.0	12.1	7.90	2.533 Normal Operations	
500.0	500.0	504.0	500.0	4.0	4.0	-54.68	11.6	-16.3	20.0	11.7	8.29	2.415 Caution - Monitor Closely	
600.0	600.0	604.0	600.0	4.1	4.1	-54.68	11.6	-16.3	20.0	11.4	8.66	2.311 Caution - Monitor Closely	
700.0	700.0	704.0	700.0	4.3	4.3	-54.68	11.6	-16.3	20.0	11.0	9.02	2.219 Caution - Monitor Closely	
800.0	800.0	804.0	800.0	4.5	4.5	-54.68	11.6	-16.3	20.0	10.6	9.37	2.137 Caution - Monitor Closely	
900.0	900.0	904.0	900.0	4.7	4.7	-54.68	11.6	-16.3	20.0	10.3	9.70	2.063 Caution - Monitor Closely	
1,000.0	1,000.0	1,004.0	1,000.0	4.8	4.8	-54.68	11.6	-16.3	20.0	10.0	10.03	1.995 Caution - Monitor Closely	
1,100.0	1,100.0	1,104.0	1,100.0	5.0	5.0	-54.68	11.6	-16.3	20.0	9.7	10.35	1.934 Caution - Monitor Closely	
1,200.0	1,200.0	1,204.0	1,200.0	5.2	5.2	-54.68	11.6	-16.3	20.0	9.4	10.66	1.877 Caution - Monitor Closely	
1,300.0	1,300.0	1,304.0	1,300.0	5.3	5.3	-54.68	11.6	-16.3	20.0	9.0	10.97	1.825 Caution - Monitor Closely	
1,400.0	1,400.0	1,404.0	1,400.0	5.5	5.5	-54.68	11.6	-16.3	20.0	8.7	11.27	1.776 Caution - Monitor Closely	
1,500.0	1,500.0	1,504.0	1,500.0	5.6	5.6	-54.68	11.6	-16.3	20.0	8.5	11.56	1.731 Caution - Monitor Closely	
1,600.0	1,600.0	1,604.0	1,600.0	5.8	5.8	-54.68	11.6	-16.3	20.0	8.2	11.85	1.689 Caution - Monitor Closely	
1,700.0	1,700.0	1,704.0	1,700.0	5.9	5.9	-54.68	11.6	-16.3	20.0	7.9	12.13	1.650 Caution - Monitor Closely	
1,800.0	1,800.0	1,804.0	1,800.0	6.0	6.0	-54.68	11.6	-16.3	20.0	7.6	12.41	1.613 Caution - Monitor Closely	
1,900.0	1,900.0	1,904.0	1,900.0	6.2	6.2	-54.68	11.6	-16.3	20.0	7.3	12.68	1.578 Caution - Monitor Closely	
1,965.3	1,965.3	1,969.3	1,965.3	6.3	6.3	-54.68	11.6	-16.3	20.0	7.2	12.86	1.556 Caution - Monitor Closely, CC	
2,000.0	2,000.0	2,004.0	2,000.0	6.3	6.3	-54.68	11.6	-16.3	20.0	7.1	12.95	1.545 Caution - Monitor Closely, ES, SF	
2,100.0	2,100.0	2,103.3	2,099.2	6.5	6.5	21.42	12.6	-17.9	20.7	7.4	13.31	1.553 Caution - Monitor Closely	
2,200.0	2,199.9	2,202.5	2,198.3	6.6	6.7	24.41	15.5	-22.3	22.4	8.7	13.64	1.640 Caution - Monitor Closely	
2,300.0	2,299.7	2,301.6	2,297.1	6.8	7.0	28.50	20.4	-29.5	25.2	11.3	13.97	1.806 Caution - Monitor Closely	
2,333.3	2,332.9	2,334.6	2,329.9	6.8	7.1	29.97	22.4	-32.6	26.5	12.4	14.05	1.884 Caution - Monitor Closely	
2,400.0	2,399.3	2,400.6	2,395.3	6.9	7.2	28.57	27.1	-39.6	29.1	14.8	14.23	2.043 Caution - Monitor Closely	
2,500.0	2,498.5	2,500.0	2,493.5	7.1	7.5	28.01	35.7	-52.5	33.1	18.4	14.63	2.260 Caution - Monitor Closely	
2,600.0	2,597.2	2,598.3	2,589.9	7.3	7.8	28.09	46.1	-68.1	37.1	22.1	14.99	2.473 Caution - Monitor Closely	
2,700.0	2,695.3	2,696.9	2,686.1	7.5	8.1	28.40	58.4	-86.5	41.0	25.7	15.38	2.669 Normal Operations	
2,800.0	2,792.6	2,796.0	2,781.9	7.6	8.3	28.90	72.4	-107.5	44.8	29.0	15.72	2.847 Normal Operations	
2,900.0	2,889.2	2,896.0	2,878.4	7.8	8.6	30.84	86.9	-129.3	45.9	29.8	16.16	2.843 Normal Operations	
2,932.6	2,920.4	2,928.5	2,909.8	7.9	8.7	31.89	91.6	-136.4	45.6	29.4	16.26	2.808 Normal Operations	
3,000.0	2,985.0	2,995.9	2,974.8	7.9	8.9	34.83	101.4	-151.0	44.8	28.3	16.48	2.720 Normal Operations	
3,100.0	3,080.7	3,095.8	3,071.3	8.1	9.2	39.37	115.9	-172.8	43.8	27.0	16.83	2.603 Normal Operations	
3,200.0	3,176.4	3,195.8	3,167.7	8.2	9.5	44.10	130.3	-194.5	43.1	25.9	17.16	2.511 Normal Operations	
3,300.0	3,272.2	3,295.7	3,264.2	8.4	9.9	48.96	144.8	-216.2	42.6	25.2	17.46	2.443 Caution - Monitor Closely	
3,385.8	3,354.3	3,381.4	3,347.0	8.5	10.2	53.17	157.3	-234.9	42.5	24.8	17.70	2.403 Caution - Monitor Closely	
3,400.0	3,367.9	3,395.6	3,360.7	8.5	10.3	53.87	159.3	-238.0	42.5	24.8	17.74	2.398 Caution - Monitor Closely	
3,500.0	3,463.7	3,495.6	3,457.1	8.7	10.6	58.78	173.8	-259.7	42.7	24.7	17.99	2.375 Caution - Monitor Closely	
3,600.0	3,559.4	3,595.5	3,553.6	8.9	11.0	63.60	188.3	-281.4	43.2	25.0	18.23	2.372 Caution - Monitor Closely	
3,700.0	3,655.1	3,695.4	3,650.0	9.0	11.4	68.28	202.8	-303.2	44.1	25.6	18.46	2.386 Caution - Monitor Closely	
3,800.0	3,750.9	3,795.4	3,746.5	9.2	11.8	72.76	217.3	-324.9	45.2	26.5	18.70	2.415 Caution - Monitor Closely	
3,900.0	3,846.6	3,895.3	3,843.0	9.4	12.2	77.01	231.8	-346.6	46.5	27.6	18.94	2.455 Caution - Monitor Closely	
4,000.0	3,942.4	3,995.2	3,939.4	9.5	12.6	81.00	246.3	-368.4	48.1	28.9	19.21	2.504 Normal Operations	
4,100.0	4,038.1	4,095.2	4,035.9	9.7	13.0	84.71	260.8	-390.1	49.9	30.4	19.50	2.560 Normal Operations	
4,200.0	4,133.9	4,195.1	4,132.3	9.9	13.5	88.15	275.3	-411.9	51.9	32.1	19.81	2.620 Normal Operations	
4,300.0	4,229.6	4,295.0	4,228.8	10.1	13.9	91.32	289.7	-433.6	54.1	33.9	20.16	2.683 Normal Operations	
4,400.0	4,325.3	4,395.0	4,325.2	10.3	14.3	94.24	304.2	-455.3	56.4	35.9	20.54	2.748 Normal Operations	
4,500.0	4,421.1	4,494.9	4,421.7	10.5	14.8	96.92	318.7	-477.1	58.9	38.0	20.95	2.812 Normal Operations	
4,600.0	4,516.8	4,594.8	4,518.2	10.7	15.2	99.39	333.2	-498.8	61.5	40.1	21.38	2.876 Normal Operations	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,700.0	4,612.6	4,694.8	4,614.6	10.9	15.7	101.65	347.7	-520.5	64.2	42.3	21.83	2.940	Normal Operations	
4,800.0	4,708.3	4,794.7	4,711.1	11.1	16.1	103.72	362.2	-542.3	67.0	44.7	22.31	3.001		
4,900.0	4,804.0	4,894.6	4,807.5	11.3	16.6	105.63	376.7	-564.0	69.8	47.0	22.81	3.061		
5,000.0	4,899.8	4,994.6	4,904.0	11.5	17.0	107.38	391.2	-585.7	72.8	49.4	23.32	3.120		
5,100.0	4,995.5	5,094.5	5,000.5	11.7	17.5	109.00	405.7	-607.5	75.8	51.9	23.85	3.176		
5,200.0	5,091.3	5,194.4	5,096.9	11.9	17.9	110.49	420.2	-629.2	78.8	54.4	24.40	3.230		
5,300.0	5,187.0	5,294.4	5,193.4	12.1	18.4	111.87	434.6	-650.9	81.9	57.0	24.95	3.283		
5,400.0	5,282.8	5,394.3	5,289.8	12.3	18.9	113.15	449.1	-672.7	85.1	59.5	25.52	3.333		
5,500.0	5,378.5	5,494.2	5,386.3	12.5	19.3	114.34	463.6	-694.4	88.2	62.2	26.09	3.382		
5,600.0	5,474.2	5,594.2	5,482.7	12.7	19.8	115.45	478.1	-716.1	91.5	64.8	26.68	3.429		
5,700.0	5,570.0	5,694.1	5,579.2	12.9	20.3	116.47	492.6	-737.9	94.7	67.5	27.27	3.474		
5,800.0	5,665.7	5,794.0	5,675.7	13.2	20.7	117.43	507.1	-759.6	98.0	70.1	27.87	3.517		
5,900.0	5,761.5	5,894.0	5,772.1	13.4	21.2	118.33	521.6	-781.3	101.3	72.8	28.47	3.559		
6,000.0	5,857.2	5,993.9	5,868.6	13.6	21.7	119.17	536.1	-803.1	104.6	75.6	29.08	3.599		
6,100.0	5,953.0	6,093.8	5,965.0	13.8	22.2	119.96	550.6	-824.8	108.0	78.3	29.69	3.637		
6,200.0	6,048.7	6,193.8	6,061.5	14.0	22.6	120.70	565.1	-846.6	111.4	81.1	30.31	3.675		
6,300.0	6,144.4	6,293.7	6,158.0	14.3	23.1	121.40	579.5	-868.3	114.8	83.8	30.93	3.711		
6,400.0	6,240.2	6,393.6	6,254.4	14.5	23.6	122.06	594.0	-890.0	118.2	86.6	31.55	3.745		
6,500.0	6,335.9	6,493.6	6,350.9	14.7	24.1	122.68	608.5	-911.8	121.6	89.4	32.18	3.778		
6,600.0	6,431.7	6,593.5	6,447.3	14.9	24.5	123.27	623.0	-933.5	125.0	92.2	32.81	3.811		
6,700.0	6,527.4	6,693.4	6,543.8	15.2	25.0	123.82	637.5	-955.2	128.5	95.0	33.44	3.842		
6,800.0	6,623.1	6,793.4	6,640.2	15.4	25.5	124.35	652.0	-977.0	131.9	97.8	34.07	3.872		
6,900.0	6,718.9	6,893.3	6,736.7	15.6	26.0	124.85	666.5	-998.7	135.4	100.7	34.71	3.900		
7,000.0	6,814.6	6,993.2	6,833.2	15.8	26.5	125.32	681.0	-1,020.4	138.9	103.5	35.35	3.928		
7,100.0	6,910.4	7,093.2	6,929.6	16.1	27.0	125.77	695.5	-1,042.2	142.3	106.4	35.99	3.955		
7,200.0	7,006.1	7,193.1	7,026.1	16.3	27.4	126.20	710.0	-1,063.9	145.8	109.2	36.63	3.981		
7,300.0	7,101.9	7,293.0	7,122.5	16.5	27.9	126.61	724.4	-1,085.6	149.3	112.1	37.27	4.007		
7,400.0	7,197.6	7,393.0	7,219.0	16.8	28.4	127.00	738.9	-1,107.4	152.8	114.9	37.92	4.031		
7,500.0	7,293.3	7,492.9	7,315.5	17.0	28.9	127.38	753.4	-1,129.1	156.4	117.8	38.56	4.055		
7,554.9	7,345.9	7,547.7	7,368.4	17.1	29.2	127.57	761.4	-1,141.0	158.3	119.4	38.91	4.069		
7,600.0	7,389.1	7,592.8	7,411.9	17.2	29.4	127.70	767.9	-1,150.8	159.8	120.6	39.18	4.078		
7,700.0	7,485.3	7,692.8	7,508.4	17.4	29.9	127.60	782.4	-1,172.6	162.3	122.6	39.71	4.087		
7,800.0	7,582.0	7,792.8	7,604.9	17.7	30.4	127.01	796.9	-1,194.3	163.7	123.6	40.13	4.081		
7,900.0	7,679.1	7,892.7	7,701.4	17.9	30.8	125.93	811.4	-1,216.1	164.2	123.8	40.41	4.063		
8,000.0	7,776.6	7,992.6	7,797.8	18.1	31.3	124.35	825.9	-1,237.8	163.7	123.1	40.57	4.035		
8,100.0	7,874.5	8,092.4	7,894.1	18.3	31.8	122.25	840.4	-1,259.5	162.4	121.8	40.59	4.001		
8,200.0	7,972.7	8,192.1	7,990.4	18.5	32.3	119.57	854.8	-1,281.2	160.4	120.0	40.48	3.964		
8,300.0	8,071.2	8,291.7	8,086.5	18.7	32.8	116.27	869.2	-1,302.8	158.1	117.8	40.25	3.927		
8,400.0	8,170.0	8,391.1	8,182.4	18.9	33.3	112.30	883.7	-1,324.5	155.5	115.6	39.94	3.895		
8,500.0	8,269.1	8,490.2	8,278.1	19.1	33.8	107.63	898.0	-1,346.0	153.3	113.6	39.64	3.867		
8,600.0	8,368.4	8,588.9	8,373.5	19.2	34.3	102.44	912.1	-1,367.1	151.7	112.2	39.49	3.842		
8,684.0	8,452.0	8,671.9	8,454.0	19.4	34.7	98.02	923.2	-1,383.7	151.3	111.7	39.59	3.822		
8,700.0	8,467.9	8,687.7	8,469.4	19.4	34.7	97.18	925.2	-1,386.8	151.3	111.7	39.63	3.818		
8,800.0	8,567.5	8,786.7	8,565.9	19.6	35.2	91.93	937.5	-1,405.2	152.1	112.0	40.11	3.792		
8,900.0	8,667.3	8,885.9	8,663.0	19.7	35.7	86.77	948.8	-1,422.2	154.0	113.1	40.93	3.763		
9,000.0	8,767.2	8,985.4	8,760.7	19.9	36.1	81.75	959.3	-1,437.9	157.0	115.0	42.05	3.734		
9,100.0	8,867.1	9,085.2	8,859.0	20.0	36.6	76.93	968.8	-1,452.1	161.1	117.7	43.41	3.710		
9,200.0	8,967.1	9,185.2	8,957.8	20.1	37.0	72.37	977.4	-1,465.0	166.1	121.2	44.92	3.697		
9,232.9	9,000.0	9,218.1	8,990.4	20.1	37.2	9.80	980.0	-1,469.0	167.9	122.5	45.43	3.696		
9,300.0	9,067.1	9,285.5	9,057.1	20.2	37.4	7.03	985.0	-1,476.5	171.8	125.4	46.45	3.699		
9,400.0	9,167.1	9,386.2	9,157.1	20.2	37.9	3.52	991.8	-1,486.6	177.6	129.7	47.85	3.711		

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		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)			
9,500.0	9,267.1	9,487.4	9,257.7	20.3	38.3	0.71	997.5	-1,495.2	183.0	133.9	49.07	3.729	
9,600.0	9,367.1	9,588.9	9,358.8	20.3	38.7	-1.51	1,002.3	-1,502.4	187.8	137.7	50.09	3.748	
9,700.0	9,467.1	9,690.6	9,460.4	20.4	39.0	-3.18	1,006.1	-1,508.1	191.7	140.8	50.92	3.765	
9,800.0	9,567.1	9,792.6	9,562.2	20.5	39.4	-4.38	1,008.9	-1,512.4	194.8	143.2	51.56	3.777	
9,900.0	9,667.1	9,894.7	9,664.3	20.5	39.7	-5.12	1,010.7	-1,515.1	196.7	144.7	52.02	3.782	
10,000.0	9,767.1	9,996.9	9,766.5	20.6	39.9	-5.45	1,011.5	-1,516.3	197.6	145.3	52.28	3.780	
10,100.0	9,867.1	10,097.6	9,867.1	20.6	40.0	-5.47	1,011.6	-1,516.3	197.7	145.3	52.36	3.775	
10,200.0	9,967.1	10,197.6	9,967.1	20.7	40.0	-5.47	1,011.6	-1,516.3	197.7	145.2	52.46	3.768	
10,300.0	10,067.1	10,297.6	10,067.1	20.7	40.0	-5.47	1,011.6	-1,516.3	197.7	145.1	52.56	3.761	
10,400.0	10,167.1	10,397.6	10,167.1	20.8	40.1	-5.47	1,011.6	-1,516.3	197.7	145.0	52.65	3.754	
10,500.0	10,267.1	10,497.6	10,267.1	20.9	40.1	-5.47	1,011.6	-1,516.3	197.7	144.9	52.75	3.747	
10,600.0	10,367.1	10,597.6	10,367.1	20.9	40.1	-5.47	1,011.6	-1,516.3	197.7	144.8	52.85	3.740	
10,700.0	10,467.1	10,697.6	10,467.1	21.0	40.2	-5.47	1,011.6	-1,516.3	197.7	144.7	52.95	3.733	
10,800.0	10,567.1	10,797.6	10,567.1	21.0	40.2	-5.47	1,011.6	-1,516.3	197.7	144.6	53.04	3.727	
10,900.0	10,667.1	10,897.6	10,667.1	21.1	40.2	-5.47	1,011.6	-1,516.3	197.7	144.5	53.14	3.720	
11,000.0	10,767.1	10,997.6	10,767.1	21.2	40.2	-5.47	1,011.6	-1,516.3	197.7	144.4	53.24	3.713	
11,100.0	10,867.1	11,097.6	10,867.1	21.2	40.3	-5.47	1,011.6	-1,516.3	197.7	144.3	53.34	3.706	
11,200.0	10,967.1	11,197.6	10,967.1	21.3	40.3	-5.47	1,011.6	-1,516.3	197.7	144.2	53.44	3.699	
11,300.0	11,067.1	11,297.6	11,067.1	21.3	40.3	-5.47	1,011.6	-1,516.3	197.7	144.1	53.54	3.692	
11,400.0	11,167.1	11,397.6	11,167.1	21.4	40.4	-5.47	1,011.6	-1,516.3	197.7	144.0	53.64	3.685	
11,500.0	11,267.1	11,497.6	11,267.1	21.5	40.4	-5.47	1,011.6	-1,516.3	197.7	143.9	53.74	3.678	
11,542.4	11,309.5	11,539.9	11,309.5	21.5	40.4	-5.47	1,011.6	-1,516.3	197.7	143.9	53.77	3.676	
11,550.0	11,317.1	11,547.6	11,317.1	21.5	40.4	174.89	1,011.6	-1,516.3	197.7	144.0	53.78	3.677	
11,575.0	11,342.1	11,572.5	11,342.1	21.5	40.4	174.91	1,011.6	-1,516.3	198.8	145.0	53.77	3.697	
11,600.0	11,367.0	11,597.4	11,367.0	21.4	40.4	174.94	1,011.6	-1,516.3	201.1	147.4	53.75	3.742	
11,625.0	11,391.7	11,622.2	11,391.7	21.4	40.4	174.99	1,011.6	-1,516.3	204.8	151.1	53.72	3.812	
11,650.0	11,416.2	11,646.7	11,416.2	21.4	40.4	175.06	1,011.6	-1,516.3	209.7	156.0	53.68	3.906	
11,675.0	11,440.4	11,670.9	11,440.4	21.4	40.4	175.14	1,011.6	-1,516.3	215.9	162.3	53.63	4.026	
11,700.0	11,464.3	11,694.7	11,464.3	21.4	40.5	175.22	1,011.6	-1,516.3	223.4	169.8	53.57	4.169	
11,725.0	11,487.7	11,718.1	11,487.7	21.3	40.5	175.31	1,011.6	-1,516.3	232.1	178.5	53.51	4.336	
11,750.0	11,510.6	11,741.1	11,510.6	21.3	40.5	175.40	1,011.6	-1,516.3	242.0	188.5	53.45	4.527	
11,775.0	11,533.0	11,763.5	11,533.0	21.3	40.5	175.49	1,011.6	-1,516.3	253.1	199.7	53.38	4.741	
11,800.0	11,554.8	11,785.2	11,554.8	21.3	40.5	175.57	1,011.6	-1,516.3	265.3	212.0	53.31	4.976	
11,825.0	11,575.9	11,806.4	11,575.9	21.2	40.5	175.64	1,011.6	-1,516.3	278.7	225.4	53.25	5.234	
11,850.0	11,596.3	11,826.7	11,596.3	21.2	40.5	175.70	1,011.6	-1,516.3	293.1	239.9	53.18	5.512	
11,875.0	11,615.9	11,846.3	11,615.9	21.2	40.5	175.74	1,011.6	-1,516.3	308.6	255.5	53.12	5.810	
11,900.0	11,634.6	11,865.1	11,634.6	21.2	40.5	175.77	1,011.6	-1,516.3	325.1	272.1	53.06	6.128	
11,925.0	11,652.5	11,882.9	11,652.5	21.2	40.5	175.77	1,011.6	-1,516.3	342.6	289.6	53.00	6.465	
11,950.0	11,669.4	11,899.8	11,669.4	21.2	40.5	175.75	1,011.6	-1,516.3	361.0	308.1	52.94	6.818	
11,975.0	11,685.3	11,915.8	11,685.3	21.2	40.5	175.70	1,011.6	-1,516.3	380.2	327.3	52.89	7.189	
12,000.0	11,700.2	11,930.7	11,700.2	21.2	40.5	175.62	1,011.6	-1,516.3	400.3	347.4	52.85	7.575	
12,025.0	11,714.0	11,944.5	11,714.0	21.2	40.5	175.50	1,011.6	-1,516.3	421.1	368.3	52.80	7.975	
12,050.0	11,726.8	11,957.2	11,726.8	21.2	40.5	175.32	1,011.6	-1,516.3	442.6	389.8	52.76	8.389	
12,075.0	11,738.3	11,968.8	11,738.3	21.2	40.5	175.07	1,011.6	-1,516.3	464.7	412.0	52.72	8.815	
12,100.0	11,748.7	11,979.2	11,748.7	21.2	40.5	174.74	1,011.6	-1,516.3	487.4	434.8	52.69	9.252	
12,125.0	11,757.9	11,988.4	11,757.9	21.2	40.5	174.27	1,011.6	-1,516.3	510.7	458.0	52.65	9.699	
12,150.0	11,765.9	11,996.3	11,765.9	21.2	40.5	173.60	1,011.6	-1,516.3	534.4	481.7	52.62	10.155	
12,175.0	11,772.6	12,003.1	11,772.6	21.2	40.6	172.62	1,011.6	-1,516.3	558.4	505.8	52.59	10.618	
12,200.0	11,778.1	12,008.5	11,778.1	21.2	40.6	171.07	1,011.6	-1,516.3	582.8	530.2	52.57	11.087	
12,225.0	11,782.2	12,012.7	11,782.2	21.3	40.6	168.35	1,011.6	-1,516.3	607.4	554.9	52.55	11.560	
12,250.0	11,785.1	12,015.5	11,785.1	21.3	40.6	162.56	1,011.6	-1,516.3	632.3	579.7	52.52	12.038	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		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)			
12,275.0	11,786.6	12,017.1	11,786.6	21.3	40.6	143.64	1,011.6	-1,516.3	657.2	604.7	52.50	12.517	
12,292.4	11,787.0	13,156.1	12,456.0	21.3	39.4	-179.20	337.6	-1,485.1	669.1	612.4	56.67	11.807	
12,300.0	11,787.0	13,163.8	12,456.0	21.3	39.4	-179.18	330.0	-1,484.9	669.1	612.4	56.71	11.799	
12,400.0	11,787.0	13,263.8	12,456.0	21.5	39.5	-179.01	230.0	-1,482.3	669.1	611.9	57.24	11.690	
12,500.0	11,787.0	13,364.0	12,456.0	21.7	39.6	-178.92	129.9	-1,480.7	669.1	611.3	57.78	11.581	
12,600.0	11,787.0	13,464.0	12,456.0	21.8	39.8	-178.91	29.8	-1,479.8	669.1	610.8	58.32	11.473	
12,700.0	11,787.0	13,564.0	12,456.0	22.0	39.9	-178.91	-70.2	-1,479.2	669.1	610.2	58.88	11.363	
12,800.0	11,787.0	13,664.0	12,456.0	22.2	40.1	-178.91	-170.2	-1,478.6	669.1	609.7	59.47	11.252	
12,900.0	11,787.0	13,764.0	12,456.0	22.5	40.3	-178.91	-270.2	-1,477.9	669.1	609.0	60.07	11.138	
13,000.0	11,787.0	13,864.0	12,456.0	22.7	40.5	-178.91	-370.2	-1,477.3	669.1	608.4	60.70	11.023	
13,100.0	11,787.0	13,964.0	12,456.0	23.0	40.8	-178.91	-470.2	-1,476.7	669.1	607.8	61.35	10.907	
13,200.0	11,787.0	14,064.0	12,456.0	23.2	41.0	-178.90	-570.2	-1,476.1	669.1	607.1	62.01	10.790	
13,300.0	11,787.0	14,164.0	12,456.0	23.5	41.3	-178.90	-670.2	-1,475.4	669.1	606.4	62.70	10.673	
13,400.0	11,787.0	14,264.0	12,456.0	23.9	41.6	-178.90	-770.2	-1,474.8	669.1	605.7	63.40	10.554	
13,500.0	11,787.0	14,364.0	12,456.0	24.2	41.9	-178.90	-870.2	-1,474.2	669.1	605.0	64.12	10.436	
13,600.0	11,787.0	14,464.0	12,456.0	24.6	42.2	-178.90	-970.2	-1,473.5	669.1	604.3	64.85	10.318	
13,700.0	11,787.0	14,564.0	12,456.0	25.0	42.6	-178.90	-1,070.2	-1,472.9	669.1	603.5	65.61	10.199	
13,800.0	11,787.0	14,664.0	12,456.0	25.4	42.9	-178.90	-1,170.2	-1,472.3	669.1	602.7	66.37	10.081	
13,900.0	11,787.0	14,764.0	12,456.0	25.8	43.3	-178.90	-1,270.2	-1,471.7	669.1	602.0	67.16	9.964	
14,000.0	11,787.0	14,864.0	12,456.0	26.2	43.7	-178.90	-1,370.2	-1,471.0	669.1	601.2	67.95	9.847	
14,100.0	11,787.0	14,964.0	12,456.0	26.7	44.1	-178.90	-1,470.2	-1,470.4	669.1	600.4	68.77	9.730	
14,200.0	11,787.0	15,064.0	12,456.0	27.2	44.5	-178.90	-1,570.2	-1,469.8	669.1	599.5	69.59	9.615	
14,300.0	11,787.0	15,164.0	12,456.0	27.7	45.0	-178.90	-1,670.2	-1,469.1	669.1	598.7	70.43	9.500	
14,400.0	11,787.0	15,264.0	12,456.0	28.2	45.4	-178.90	-1,770.2	-1,468.5	669.1	597.8	71.28	9.387	
14,500.0	11,787.0	15,364.0	12,456.0	28.7	45.9	-178.90	-1,870.1	-1,467.9	669.1	597.0	72.15	9.274	
14,600.0	11,787.0	15,464.0	12,456.0	29.3	46.4	-178.90	-1,970.1	-1,467.3	669.1	596.1	73.02	9.163	
14,700.0	11,787.0	15,564.0	12,456.0	29.8	46.9	-178.90	-2,070.1	-1,466.6	669.1	595.2	73.91	9.053	
14,800.0	11,787.0	15,664.0	12,456.0	30.4	47.5	-178.90	-2,170.1	-1,466.0	669.1	594.3	74.81	8.945	
14,900.0	11,787.0	15,764.0	12,456.0	31.0	48.0	-178.90	-2,270.1	-1,465.4	669.1	593.4	75.72	8.837	
15,000.0	11,787.0	15,864.0	12,456.0	31.6	48.5	-178.90	-2,370.1	-1,464.7	669.1	592.5	76.63	8.731	
15,100.0	11,787.0	15,964.0	12,456.0	32.2	49.1	-178.90	-2,470.1	-1,464.1	669.1	591.6	77.56	8.627	
15,200.0	11,787.0	16,064.0	12,456.0	32.8	49.7	-178.90	-2,570.1	-1,463.5	669.1	590.6	78.50	8.524	
15,300.0	11,787.0	16,164.0	12,456.0	33.4	50.3	-178.90	-2,670.1	-1,462.9	669.1	589.7	79.45	8.422	
15,400.0	11,787.0	16,264.0	12,456.0	34.1	50.9	-178.90	-2,770.1	-1,462.2	669.1	588.7	80.40	8.322	
15,500.0	11,787.0	16,364.0	12,456.0	34.7	51.5	-178.90	-2,870.1	-1,461.6	669.1	587.8	81.37	8.223	
15,600.0	11,787.0	16,464.0	12,456.0	35.4	52.1	-178.90	-2,970.1	-1,461.0	669.1	586.8	82.34	8.126	
15,700.0	11,787.0	16,564.0	12,456.0	36.0	52.8	-178.90	-3,070.1	-1,460.3	669.1	585.8	83.32	8.031	
15,800.0	11,787.0	16,664.0	12,456.0	36.7	53.4	-178.90	-3,170.1	-1,459.7	669.1	584.8	84.31	7.937	
15,900.0	11,787.0	16,764.0	12,456.0	37.4	54.1	-178.90	-3,270.1	-1,459.1	669.1	583.8	85.30	7.844	
16,000.0	11,787.0	16,864.0	12,456.0	38.1	54.8	-178.90	-3,370.1	-1,458.5	669.1	582.8	86.31	7.753	
16,100.0	11,787.0	16,964.0	12,456.0	38.8	55.4	-178.89	-3,470.1	-1,457.8	669.1	581.8	87.32	7.663	
16,200.0	11,787.0	17,064.0	12,456.0	39.5	56.1	-178.89	-3,570.1	-1,457.2	669.1	580.8	88.33	7.575	
16,300.0	11,787.0	17,164.0	12,456.0	40.2	56.8	-178.89	-3,670.1	-1,456.6	669.1	579.8	89.36	7.488	
16,400.0	11,787.0	17,264.0	12,456.0	40.9	57.5	-178.89	-3,770.1	-1,455.9	669.1	578.7	90.38	7.403	
16,500.0	11,787.0	17,364.0	12,456.0	41.6	58.2	-178.89	-3,870.1	-1,455.3	669.1	577.7	91.42	7.319	
16,600.0	11,787.0	17,464.0	12,456.0	42.4	59.0	-178.89	-3,970.1	-1,454.7	669.1	576.7	92.46	7.237	
16,700.0	11,787.0	17,564.0	12,456.0	43.1	59.7	-178.89	-4,070.1	-1,454.1	669.1	575.6	93.51	7.156	
16,800.0	11,787.0	17,664.0	12,456.0	43.8	60.4	-178.89	-4,170.1	-1,453.4	669.1	574.6	94.56	7.076	
16,900.0	11,787.0	17,764.0	12,456.0	44.6	61.2	-178.89	-4,270.1	-1,452.8	669.1	573.5	95.61	6.998	
17,000.0	11,787.0	17,864.0	12,456.0	45.3	61.9	-178.89	-4,370.1	-1,452.2	669.1	572.4	96.68	6.921	
17,100.0	11,787.0	17,964.0	12,456.0	46.1	62.7	-178.89	-4,470.1	-1,451.5	669.1	571.4	97.74	6.846	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,200.0	11,787.0	18,064.0	12,456.0	46.8	63.4	-178.89	-4,570.1	-1,450.9	669.1	570.3	98.81	6.772	
17,300.0	11,787.0	18,164.0	12,456.0	47.6	64.2	-178.89	-4,670.1	-1,450.3	669.1	569.2	99.89	6.699	
17,400.0	11,787.0	18,264.0	12,456.0	48.3	65.0	-178.89	-4,770.1	-1,449.7	669.1	568.2	100.97	6.627	
17,500.0	11,787.0	18,364.0	12,456.0	49.1	65.8	-178.89	-4,870.1	-1,449.0	669.1	567.1	102.05	6.557	
17,600.0	11,787.0	18,464.0	12,456.0	49.9	66.6	-178.89	-4,970.1	-1,448.4	669.1	566.0	103.14	6.487	
17,700.0	11,787.0	18,564.0	12,456.0	50.6	67.3	-178.89	-5,070.1	-1,447.8	669.1	564.9	104.24	6.419	
17,800.0	11,787.0	18,664.0	12,456.0	51.4	68.1	-178.89	-5,170.1	-1,447.1	669.1	563.8	105.33	6.353	
17,900.0	11,787.0	18,764.0	12,456.0	52.2	68.9	-178.89	-5,270.1	-1,446.5	669.1	562.7	106.43	6.287	
18,000.0	11,787.0	18,864.0	12,456.0	53.0	69.7	-178.89	-5,370.1	-1,445.9	669.1	561.6	107.54	6.222	
18,100.0	11,787.0	18,964.0	12,456.0	53.7	70.6	-178.89	-5,470.1	-1,445.3	669.1	560.5	108.64	6.159	
18,200.0	11,787.0	19,064.0	12,456.0	54.5	71.4	-178.89	-5,570.1	-1,444.6	669.1	559.4	109.76	6.097	
18,300.0	11,787.0	19,164.0	12,456.0	55.3	72.2	-178.89	-5,670.1	-1,444.0	669.1	558.3	110.87	6.035	
18,400.0	11,787.0	19,264.0	12,456.0	56.1	73.0	-178.89	-5,770.1	-1,443.4	669.1	557.1	111.99	5.975	
18,500.0	11,787.0	19,364.0	12,456.0	56.9	73.8	-178.89	-5,870.1	-1,442.7	669.1	556.0	113.11	5.916	
18,600.0	11,787.0	19,464.0	12,456.0	57.7	74.7	-178.89	-5,970.1	-1,442.1	669.1	554.9	114.23	5.858	
18,700.0	11,787.0	19,564.0	12,456.0	58.5	75.5	-178.89	-6,070.1	-1,441.5	669.1	553.8	115.36	5.800	
18,800.0	11,787.0	19,664.0	12,456.0	59.3	76.3	-178.89	-6,170.1	-1,440.9	669.1	552.6	116.49	5.744	
18,900.0	11,787.0	19,764.0	12,456.0	60.0	77.2	-178.89	-6,270.1	-1,440.2	669.1	551.5	117.62	5.689	
19,000.0	11,787.0	19,864.0	12,456.0	60.8	78.0	-178.88	-6,370.1	-1,439.6	669.1	550.4	118.75	5.635	
19,100.0	11,787.0	19,964.0	12,456.0	61.6	78.9	-178.88	-6,470.1	-1,439.0	669.1	549.2	119.89	5.581	
19,200.0	11,787.0	20,064.0	12,456.0	62.4	79.7	-178.88	-6,570.1	-1,438.3	669.1	548.1	121.03	5.528	
19,300.0	11,787.0	20,164.0	12,456.0	63.2	80.6	-178.88	-6,670.1	-1,437.7	669.1	547.0	122.18	5.477	
19,400.0	11,787.0	20,264.0	12,456.0	64.1	81.4	-178.88	-6,770.1	-1,437.1	669.1	545.8	123.32	5.426	
19,500.0	11,787.0	20,364.0	12,456.0	64.9	82.3	-178.88	-6,870.0	-1,436.5	669.1	544.7	124.47	5.376	
19,600.0	11,787.0	20,464.0	12,456.0	65.7	83.1	-178.88	-6,970.0	-1,435.8	669.1	543.5	125.62	5.327	
19,649.9	11,787.0	20,513.9	12,456.0	66.2	83.5	-178.88	-7,019.9	-1,435.5	669.1	543.0	126.12	5.305	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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	1.6	0.0	3.0	3.0	125.80	-70.2	97.3	119.9				
100.0	100.0	101.6	100.0	3.1	3.1	125.80	-70.2	97.3	119.9	113.3	6.61	18.138	
200.0	200.0	201.6	200.0	3.3	3.3	125.80	-70.2	97.3	119.9	112.9	7.06	16.978	
300.0	300.0	301.6	300.0	3.6	3.6	125.80	-70.2	97.3	119.9	112.5	7.49	16.013	
400.0	400.0	401.6	400.0	3.8	3.8	125.80	-70.2	97.3	119.9	112.1	7.90	15.192	
500.0	500.0	501.6	500.0	4.0	4.0	125.80	-70.2	97.3	119.9	111.7	8.28	14.481	
600.0	600.0	601.6	600.0	4.1	4.1	125.80	-70.2	97.3	119.9	111.3	8.66	13.859	
700.0	700.0	701.6	700.0	4.3	4.3	125.80	-70.2	97.3	119.9	110.9	9.01	13.307	
800.0	800.0	801.6	800.0	4.5	4.5	125.80	-70.2	97.3	119.9	110.6	9.36	12.813	
900.0	900.0	901.6	900.0	4.7	4.7	125.80	-70.2	97.3	119.9	110.3	9.70	12.368	
1,000.0	1,000.0	1,001.6	1,000.0	4.8	4.8	125.80	-70.2	97.3	119.9	109.9	10.03	11.964	
1,100.0	1,100.0	1,101.6	1,100.0	5.0	5.0	125.80	-70.2	97.3	119.9	109.6	10.35	11.594	
1,200.0	1,200.0	1,201.6	1,200.0	5.2	5.2	125.80	-70.2	97.3	119.9	109.3	10.66	11.254	
1,300.0	1,300.0	1,301.6	1,300.0	5.3	5.3	125.80	-70.2	97.3	119.9	109.0	10.96	10.941	
1,400.0	1,400.0	1,401.6	1,400.0	5.5	5.5	125.80	-70.2	97.3	119.9	108.7	11.26	10.651	
1,500.0	1,500.0	1,501.6	1,500.0	5.6	5.6	125.80	-70.2	97.3	119.9	108.4	11.56	10.380	
1,600.0	1,600.0	1,601.6	1,600.0	5.8	5.8	125.80	-70.2	97.3	119.9	108.1	11.84	10.128	
1,700.0	1,700.0	1,701.6	1,700.0	5.9	5.9	125.80	-70.2	97.3	119.9	107.8	12.13	9.891	
1,800.0	1,800.0	1,801.6	1,800.0	6.0	6.0	125.80	-70.2	97.3	119.9	107.5	12.41	9.669	
1,900.0	1,900.0	1,901.6	1,900.0	6.2	6.2	125.80	-70.2	97.3	119.9	107.3	12.68	9.460	
2,000.0	2,000.0	2,001.6	2,000.0	6.3	6.3	125.80	-70.2	97.3	119.9	107.0	12.95	9.262 CC, ES	
2,100.0	2,100.0	2,101.6	2,100.0	6.5	6.5	-159.42	-70.2	97.3	121.2	107.9	13.24	9.155 SF	
2,200.0	2,199.9	2,201.5	2,199.9	6.6	6.6	-160.03	-70.2	97.3	124.9	111.3	13.51	9.239	
2,300.0	2,299.7	2,301.3	2,299.7	6.8	6.7	-160.98	-70.2	97.3	131.0	117.2	13.79	9.501	
2,333.3	2,332.9	2,334.5	2,332.9	6.8	6.8	-161.35	-70.2	97.3	133.6	119.8	13.85	9.650	
2,400.0	2,399.3	2,400.9	2,399.3	6.9	6.8	-166.16	-70.2	97.3	139.9	125.9	14.00	9.995	
2,500.0	2,498.5	2,500.1	2,498.5	7.1	7.0	-170.83	-70.2	97.3	152.3	138.0	14.32	10.637	
2,600.0	2,597.2	2,598.8	2,597.2	7.3	7.1	-173.87	-70.2	97.3	168.1	153.5	14.64	11.489	
2,700.0	2,695.3	2,696.9	2,695.3	7.5	7.2	-175.97	-70.2	97.3	187.4	172.5	14.95	12.535	
2,800.0	2,792.6	2,794.2	2,792.6	7.6	7.3	-177.47	-70.2	97.3	210.2	194.9	15.27	13.762	
2,900.0	2,889.2	2,890.8	2,889.2	7.8	7.5	-178.57	-70.2	97.3	236.3	220.7	15.59	15.158	
2,932.6	2,920.4	2,922.0	2,920.4	7.9	7.5	-178.86	-70.2	97.3	245.5	229.8	15.65	15.682	
3,000.0	2,985.0	2,986.6	2,985.0	7.9	7.6	-178.94	-70.2	97.3	265.0	249.2	15.80	16.766	
3,100.0	3,080.7	3,082.3	3,080.7	8.1	7.7	-179.05	-70.2	97.3	293.8	277.8	16.06	18.297	
3,200.0	3,176.4	3,178.0	3,176.4	8.2	7.8	-179.13	-70.2	97.3	322.7	306.4	16.32	19.775	
3,300.0	3,272.2	3,273.8	3,272.2	8.4	7.9	-179.20	-70.2	97.3	351.6	335.0	16.58	21.202	
3,400.0	3,367.9	3,369.5	3,367.9	8.5	8.0	-179.26	-70.2	97.3	380.4	363.6	16.85	22.581	
3,500.0	3,463.7	3,465.3	3,463.7	8.7	8.2	-179.32	-70.2	97.3	409.3	392.2	17.12	23.912	
3,600.0	3,559.4	3,561.0	3,559.4	8.9	8.3	-179.36	-70.2	97.3	438.2	420.8	17.39	25.198	
3,700.0	3,655.1	3,656.7	3,655.1	9.0	8.4	-179.40	-70.2	97.3	467.0	449.4	17.66	26.440	
3,800.0	3,750.9	3,752.5	3,750.9	9.2	8.5	-179.44	-70.2	97.3	495.9	478.0	17.94	27.639	
3,900.0	3,846.6	3,848.2	3,846.6	9.4	8.6	-179.47	-70.2	97.3	524.8	506.5	18.22	28.798	
4,000.0	3,942.4	3,944.0	3,942.4	9.5	8.7	-179.49	-70.2	97.3	553.6	535.1	18.51	29.917	
4,100.0	4,038.1	4,043.6	4,042.0	9.7	8.8	-179.50	-70.3	97.1	582.4	563.6	18.80	30.984	
4,200.0	4,133.9	4,149.3	4,147.7	9.9	8.9	-179.31	-71.4	94.6	609.8	590.7	19.08	31.957	
4,300.0	4,229.6	4,255.9	4,254.1	10.1	9.1	-178.92	-73.8	89.5	635.8	616.4	19.37	32.829	
4,400.0	4,325.3	4,360.8	4,358.7	10.3	9.1	-178.37	-77.2	82.0	660.2	640.6	19.62	33.643	
4,500.0	4,421.1	4,460.5	4,458.1	10.5	9.3	-178.06	-78.4	75.2	684.0	664.1	19.91	34.355	
4,600.0	4,516.8	4,560.4	4,557.9	10.7	9.4	-178.05	-76.5	69.9	707.4	687.2	20.23	34.962	
4,700.0	4,612.6	4,660.5	4,657.7	10.9	9.6	-178.32	-71.3	65.9	730.5	709.9	20.59	35.482	
4,800.0	4,708.3	4,760.3	4,757.2	11.1	9.7	-178.85	-63.0	63.4	753.2	732.3	20.95	35.950	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
4,900.0	4,804.0	4,859.8	4,856.0	11.3	9.8	-179.60	-51.6	62.4	775.7	754.4	21.31	36.403		
5,000.0	4,899.8	4,958.6	4,953.7	11.5	9.9	179.45	-37.2	62.8	798.1	776.4	21.65	36.871		
5,100.0	4,995.5	5,056.5	5,050.1	11.7	10.1	178.32	-20.0	64.6	820.4	798.5	21.98	37.325		
5,200.0	5,091.3	5,153.3	5,144.8	11.9	10.3	177.03	0.1	67.7	843.0	820.7	22.31	37.793		
5,300.0	5,187.0	5,248.9	5,237.5	12.1	10.5	175.61	22.7	72.1	865.9	843.3	22.61	38.305		
5,400.0	5,282.8	5,343.5	5,328.8	12.3	10.7	174.14	46.9	77.3	889.4	866.5	22.89	38.852		
5,500.0	5,378.5	5,438.0	5,420.1	12.5	10.9	172.75	71.1	82.5	913.4	890.2	23.20	39.377		
5,600.0	5,474.2	5,532.6	5,511.3	12.7	11.1	171.42	95.3	87.7	937.9	914.4	23.50	39.911		
5,700.0	5,570.0	5,627.2	5,602.6	12.9	11.3	170.16	119.5	93.0	962.9	939.1	23.80	40.452		
5,800.0	5,665.7	5,721.8	5,693.9	13.2	11.6	168.95	143.7	98.2	988.3	964.2	24.11	40.997		

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 `BO` FEDERAL COM 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
8,600.0	8,368.4	13,760.0	9,331.7	19.2	81.8	166.29	779.9	-1,305.0	977.0	912.9	64.08	15.247	
8,700.0	8,467.9	13,754.1	9,331.8	19.4	81.7	164.11	785.8	-1,305.3	880.8	815.7	65.05	13.539	
8,800.0	8,567.5	13,746.9	9,332.0	19.6	81.6	161.47	793.0	-1,305.6	785.0	718.7	66.34	11.832	
8,900.0	8,667.3	13,740.7	9,332.2	19.7	81.5	158.85	799.2	-1,305.8	689.8	621.7	68.06	10.135	
9,000.0	8,767.2	13,735.3	9,332.4	19.9	81.4	156.35	804.6	-1,306.0	595.5	525.0	70.43	8.455	
9,100.0	8,867.1	13,730.9	9,332.5	20.0	81.3	154.06	809.0	-1,306.2	502.7	428.8	73.81	6.810	
9,200.0	8,967.1	13,727.3	9,332.6	20.1	81.3	152.08	812.5	-1,306.4	412.4	333.5	78.89	5.228	
9,232.9	9,000.0	13,726.3	9,332.6	20.1	81.2	90.39	813.5	-1,306.4	383.6	302.5	81.10	4.730	
9,300.0	9,067.1	13,724.5	9,332.7	20.2	81.2	89.83	815.4	-1,306.5	327.1	240.3	86.82	3.768	
9,400.0	9,167.1	13,721.7	9,332.8	20.2	81.2	88.99	818.2	-1,306.6	252.8	153.6	99.15	2.549 Normal Operations	
9,500.0	9,267.1	13,718.9	9,332.8	20.3	81.1	88.15	821.0	-1,306.7	201.9	88.4	113.42	1.780 Caution - Monitor Closely	
9,565.8	9,332.9	13,717.0	9,332.9	20.3	81.1	87.60	822.8	-1,306.8	190.9	74.0	116.83	1.634 Caution - Monitor Closely, CC, ES, SF	
9,600.0	9,367.1	13,716.1	9,332.9	20.3	81.1	87.31	823.7	-1,306.8	193.9	79.0	114.88	1.688 Caution - Monitor Closely	
9,700.0	9,467.1	13,713.3	9,333.0	20.4	81.0	86.48	826.5	-1,307.0	233.3	133.3	100.06	2.332 Caution - Monitor Closely	
9,800.0	9,567.1	13,710.5	9,333.1	20.5	81.0	85.64	829.3	-1,307.1	302.1	216.3	85.77	3.522	
9,900.0	9,667.1	13,707.9	9,333.1	20.5	80.9	84.85	832.0	-1,307.2	384.8	307.8	76.94	5.001	
10,000.0	9,767.1	13,705.3	9,333.2	20.6	80.9	84.09	834.5	-1,307.3	474.2	402.3	71.88	6.597	
10,100.0	9,867.1	13,702.8	9,333.3	20.6	80.9	83.34	837.0	-1,307.4	567.1	498.2	68.93	8.227	
10,200.0	9,967.1	13,700.4	9,333.3	20.7	80.8	82.62	839.4	-1,307.5	662.1	594.9	67.17	9.858	
10,300.0	10,067.1	13,698.0	9,333.4	20.7	80.8	81.91	841.8	-1,307.6	758.4	692.3	66.08	11.477	
10,400.0	10,167.1	13,695.7	9,333.5	20.8	80.7	81.22	844.1	-1,307.7	855.5	790.1	65.40	13.080	
10,500.0	10,267.1	13,693.4	9,333.5	20.9	80.7	80.54	846.4	-1,307.8	953.2	888.2	64.99	14.667	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 2H - 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			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
8,400.0	8,170.0	13,336.2	8,936.1	18.9	80.4	-32.20	811.9	-2,065.9	986.7	899.9	86.82	11.365	
8,500.0	8,269.1	13,331.7	8,936.2	19.1	80.3	-30.93	816.4	-2,065.5	903.6	813.7	89.97	10.043	
8,600.0	8,368.4	13,327.0	8,936.4	19.2	80.3	-29.80	821.1	-2,065.2	825.3	731.6	93.71	8.806	
8,700.0	8,467.9	13,317.0	8,936.7	19.4	80.1	-28.25	831.0	-2,064.6	753.1	655.2	97.94	7.690	
8,800.0	8,567.5	13,317.0	8,936.7	19.6	80.1	-27.85	831.0	-2,064.6	689.1	586.3	102.78	6.705	
8,900.0	8,667.3	13,310.1	8,937.0	19.7	80.0	-26.86	837.9	-2,064.1	635.8	528.2	107.56	5.911	
9,000.0	8,767.2	13,304.4	8,937.2	19.9	79.9	-26.08	843.6	-2,063.7	596.0	484.2	111.74	5.334	
9,100.0	8,867.1	13,299.7	8,937.4	20.0	79.8	-25.50	848.3	-2,063.4	572.6	458.2	114.41	5.005	
9,175.5	8,942.6	13,296.8	8,937.5	20.1	79.8	-25.19	851.2	-2,063.2	567.2	452.2	114.93	4.935 CC, ES, SF	
9,200.0	8,967.1	13,296.0	8,937.5	20.1	79.8	-25.10	852.0	-2,063.2	567.7	453.0	114.79	4.946	
9,232.9	9,000.0	13,294.9	8,937.6	20.1	79.7	-86.13	853.0	-2,063.1	570.3	456.0	114.37	4.987	
9,300.0	9,067.1	13,293.0	8,937.6	20.2	79.7	-85.93	855.0	-2,063.0	581.5	468.8	112.71	5.159	
9,400.0	9,167.1	13,290.2	8,937.7	20.2	79.7	-85.65	857.8	-2,062.8	611.6	502.9	108.71	5.626	
9,500.0	9,267.1	13,287.5	8,937.8	20.3	79.6	-85.39	860.4	-2,062.6	655.7	552.0	103.68	6.324	
9,600.0	9,367.1	13,285.1	8,937.9	20.3	79.6	-85.14	862.9	-2,062.5	711.2	612.7	98.43	7.225	
9,700.0	9,467.1	13,282.7	8,938.0	20.4	79.5	-84.90	865.2	-2,062.3	775.6	682.1	93.48	8.297	
9,800.0	9,567.1	13,280.5	8,938.0	20.5	79.5	-84.68	867.4	-2,062.2	847.0	757.9	89.09	9.507	
9,900.0	9,667.1	13,278.4	8,938.1	20.5	79.5	-84.47	869.5	-2,062.1	923.7	838.4	85.33	10.825	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 W0BO FEDERAL COM 004H - OWB - AWP												Offset Site Error:	0.0 usft	
Survey Program:		829-r.5 MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:		3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
11,200.0	10,967.1	16,553.7	11,812.0	21.3	85.7	92.25	801.3	-1,153.6	912.3	824.1	88.26	10.337		
11,300.0	11,067.1	16,552.5	11,812.0	21.3	85.7	92.05	802.5	-1,153.5	820.6	729.9	90.69	9.048		
11,400.0	11,167.1	16,551.4	11,812.0	21.4	85.6	91.86	803.7	-1,153.5	731.0	637.3	93.73	7.799		
11,500.0	11,267.1	16,550.2	11,812.0	21.5	85.6	91.67	804.8	-1,153.5	644.5	546.9	97.56	6.606		
11,542.4	11,309.5	16,549.7	11,812.1	21.5	85.6	91.59	805.3	-1,153.5	609.1	509.6	99.48	6.123		
11,550.0	11,317.1	16,549.7	11,812.1	21.5	85.6	-89.39	805.3	-1,153.5	602.8	503.0	99.84	6.037		
11,575.0	11,342.1	16,550.6	11,812.0	21.5	85.6	-93.45	804.4	-1,153.5	582.5	481.4	101.10	5.761		
11,600.0	11,367.0	16,552.8	11,812.0	21.4	85.7	-97.02	802.2	-1,153.5	562.5	460.1	102.44	5.491		
11,625.0	11,391.7	16,556.5	11,812.0	21.4	85.7	-100.10	798.5	-1,153.6	543.1	439.2	103.87	5.229		
11,650.0	11,416.2	16,561.5	11,811.9	21.4	85.8	-102.68	793.5	-1,153.7	524.3	418.9	105.37	4.975		
11,675.0	11,440.4	16,567.9	11,811.9	21.4	85.9	-104.79	787.1	-1,153.8	506.1	399.1	106.95	4.732		
11,700.0	11,464.3	16,575.7	11,811.8	21.4	86.0	-106.46	779.3	-1,153.9	488.7	380.1	108.60	4.500		
11,725.0	11,487.7	16,584.8	11,811.7	21.3	86.2	-107.71	770.2	-1,154.1	472.1	361.8	110.30	4.280		
11,750.0	11,510.6	16,595.2	11,811.6	21.3	86.3	-108.58	759.8	-1,154.3	456.4	344.4	112.03	4.074		
11,775.0	11,533.0	16,606.9	11,811.4	21.3	86.5	-109.10	748.2	-1,154.5	441.6	327.8	113.78	3.881		
11,800.0	11,554.8	16,619.8	11,811.3	21.3	86.7	-109.31	735.3	-1,154.8	427.8	312.3	115.54	3.703		
11,825.0	11,575.9	16,633.9	11,811.1	21.2	86.9	-109.23	721.2	-1,155.2	415.1	297.8	117.27	3.540		
11,850.0	11,596.3	16,648.3	11,810.9	21.2	87.1	-108.98	706.8	-1,155.6	403.4	284.4	118.93	3.391		
11,875.0	11,615.9	16,662.5	11,810.8	21.2	87.4	-108.66	692.6	-1,156.0	392.7	272.2	120.50	3.259		
11,900.0	11,634.6	16,677.8	11,810.7	21.2	87.6	-108.11	677.3	-1,156.5	383.2	261.3	121.98	3.142		
11,925.0	11,652.5	16,694.2	11,810.8	21.2	87.8	-107.37	660.9	-1,156.9	374.9	251.5	123.35	3.039		
11,950.0	11,669.4	16,711.6	11,810.9	21.2	88.1	-106.47	643.5	-1,157.4	367.5	242.9	124.61	2.949	Normal Operations	
11,975.0	11,685.3	16,729.9	11,811.1	21.2	88.4	-105.45	625.2	-1,157.8	361.2	235.4	125.74	2.872	Normal Operations	
12,000.0	11,700.2	16,749.4	11,811.4	21.2	88.7	-104.32	605.7	-1,158.3	355.8	229.0	126.75	2.807	Normal Operations	
12,025.0	11,714.0	16,769.8	11,811.9	21.2	89.0	-103.14	585.3	-1,158.8	351.2	223.6	127.65	2.752	Normal Operations	
12,050.0	11,726.8	16,791.7	11,812.4	21.2	89.3	-101.90	563.5	-1,159.3	347.4	218.9	128.46	2.704	Normal Operations	
12,075.0	11,738.3	16,814.1	11,813.0	21.2	89.7	-100.69	541.0	-1,159.9	344.2	215.0	129.18	2.664	Normal Operations	
12,100.0	11,748.7	16,815.0	11,813.0	21.2	89.7	-100.86	540.1	-1,159.9	342.2	213.2	129.01	2.653	Normal Operations, ES, SF	
12,111.3	11,753.0	16,815.0	11,813.0	21.2	89.7	-100.89	540.1	-1,159.9	342.0	213.3	128.73	2.657	Normal Operations, CC	
12,125.0	11,757.9	16,815.0	11,813.0	21.2	89.7	-100.85	540.1	-1,159.9	342.3	214.1	128.23	2.670	Normal Operations	
12,150.0	11,765.9	16,815.0	11,813.0	21.2	89.7	-100.59	540.1	-1,159.9	344.5	217.6	126.86	2.715	Normal Operations	
12,175.0	11,772.6	16,815.0	11,813.0	21.2	89.7	-100.09	540.1	-1,159.9	348.7	223.7	124.96	2.790	Normal Operations	
12,200.0	11,778.1	16,815.0	11,813.0	21.2	89.7	-99.34	540.1	-1,159.9	354.8	232.2	122.58	2.894	Normal Operations	
12,225.0	11,782.2	16,815.0	11,813.0	21.3	89.7	-98.35	540.1	-1,159.9	362.7	242.9	119.83	3.027		
12,250.0	11,785.1	16,815.0	11,813.0	21.3	89.7	-97.11	540.1	-1,159.9	372.4	255.6	116.81	3.188		
12,275.0	11,786.6	16,815.0	11,813.0	21.3	89.7	-95.62	540.1	-1,159.9	383.5	269.9	113.61	3.376		
12,292.4	11,787.0	16,815.0	11,813.0	21.3	89.7	-94.44	540.1	-1,159.9	392.1	280.8	111.34	3.522		
12,300.0	11,787.0	16,815.0	11,813.0	21.3	89.7	-94.44	540.1	-1,159.9	396.1	285.7	110.33	3.590		
12,400.0	11,787.0	16,815.0	11,813.0	21.5	89.7	-94.44	540.1	-1,159.9	456.7	359.2	97.46	4.686		
12,500.0	11,787.0	16,815.0	11,813.0	21.7	89.7	-94.44	540.1	-1,159.9	529.3	442.9	86.44	6.124		
12,600.0	11,787.0	16,815.0	11,813.0	21.8	89.7	-94.44	540.1	-1,159.9	609.8	532.1	77.76	7.843		
12,700.0	11,787.0	16,815.0	11,813.0	22.0	89.7	-94.44	540.1	-1,159.9	695.4	624.3	71.11	9.779		
12,800.0	11,787.0	16,815.0	11,813.0	22.2	89.7	-94.44	540.1	-1,159.9	784.3	718.3	66.05	11.876		
12,900.0	11,787.0	16,815.0	11,813.0	22.5	89.7	-94.44	540.1	-1,159.9	875.7	813.5	62.17	14.085		
13,000.0	11,787.0	16,815.0	11,813.0	22.7	89.7	-94.44	540.1	-1,159.9	968.8	909.6	59.18	16.369		

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 W1BO FEDERAL COM 003H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 100-r.5 MWD		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
11,725.0	11,487.7	16,841.7	12,092.2	21.3	85.3	-106.12	788.5	-706.2	995.6	893.6	102.09	9.752		
11,750.0	11,510.6	16,855.0	12,092.7	21.3	85.5	-107.22	775.3	-706.5	981.9	878.7	103.17	9.517		
11,775.0	11,533.0	16,869.6	12,093.3	21.3	85.7	-108.16	760.6	-706.8	968.8	864.5	104.26	9.292		
11,800.0	11,554.8	16,885.5	12,093.9	21.3	85.9	-108.93	744.7	-707.3	956.3	850.9	105.36	9.076		
11,825.0	11,575.9	16,902.7	12,094.6	21.2	86.2	-109.56	727.6	-707.8	944.4	837.9	106.47	8.870		
11,850.0	11,596.3	16,921.0	12,095.2	21.2	86.5	-110.06	709.3	-708.4	933.2	825.6	107.58	8.674		
11,875.0	11,615.9	16,944.7	12,095.9	21.2	86.8	-110.25	685.6	-709.2	922.5	813.8	108.74	8.484		
11,900.0	11,634.6	16,971.9	12,096.6	21.2	87.3	-110.25	658.5	-710.4	912.4	802.5	109.92	8.300		
11,925.0	11,652.5	17,000.0	12,096.9	21.2	87.7	-110.20	630.4	-711.9	902.7	791.6	111.08	8.127		
11,950.0	11,669.4	17,029.0	12,097.1	21.2	88.1	-110.11	601.4	-713.6	893.5	781.3	112.21	7.963		
11,975.0	11,685.3	17,043.6	12,097.1	21.2	88.3	-110.57	586.8	-714.4	884.9	771.7	113.16	7.820		
12,000.0	11,700.2	17,063.7	12,097.2	21.2	88.7	-110.79	566.8	-715.6	876.9	762.8	114.13	7.683		
12,025.0	11,714.0	17,084.6	12,097.3	21.2	89.0	-110.95	546.0	-716.9	869.5	754.5	115.08	7.556		
12,050.0	11,726.8	17,085.0	12,097.3	21.2	89.0	-111.69	545.6	-716.9	863.0	747.3	115.75	7.456		
12,075.0	11,738.3	17,085.0	12,097.3	21.2	89.0	-112.30	545.6	-716.9	857.7	741.4	116.32	7.373		
12,100.0	11,748.7	17,085.0	12,097.3	21.2	89.0	-112.77	545.6	-716.9	853.5	736.7	116.77	7.309		
12,125.0	11,757.9	17,085.0	12,097.3	21.2	89.0	-113.10	545.6	-716.9	850.5	733.4	117.11	7.263		
12,150.0	11,765.9	17,085.0	12,097.3	21.2	89.0	-113.29	545.6	-716.9	848.8	731.5	117.32	7.235		
12,171.8	11,771.8	17,085.0	12,097.3	21.2	89.0	-113.34	545.6	-716.9	848.3	731.0	117.39	7.227 CC, ES		
12,175.0	11,772.6	17,085.0	12,097.3	21.2	89.0	-113.34	545.6	-716.9	848.4	731.0	117.39	7.227 SF		
12,200.0	11,778.1	17,085.0	12,097.3	21.2	89.0	-113.25	545.6	-716.9	849.2	731.8	117.32	7.238		
12,225.0	11,782.2	17,085.0	12,097.3	21.3	89.0	-113.03	545.6	-716.9	851.2	734.1	117.12	7.268		
12,250.0	11,785.1	17,085.0	12,097.3	21.3	89.0	-112.66	545.6	-716.9	854.5	737.7	116.78	7.317		
12,275.0	11,786.6	17,085.0	12,097.3	21.3	89.0	-112.16	545.6	-716.9	858.9	742.6	116.31	7.385		
12,292.4	11,787.0	17,085.0	12,097.3	21.3	89.0	-111.72	545.6	-716.9	862.8	746.9	115.90	7.444		
12,300.0	11,787.0	17,085.0	12,097.3	21.3	89.0	-111.72	545.6	-716.9	864.6	748.9	115.71	7.472		
12,400.0	11,787.0	17,085.0	12,097.3	21.5	89.0	-111.72	545.6	-716.9	894.3	781.6	112.66	7.938		
12,500.0	11,787.0	17,085.0	12,097.3	21.7	89.0	-111.72	545.6	-716.9	933.8	824.9	108.86	8.577		
12,600.0	11,787.0	17,085.0	12,097.3	21.8	89.0	-111.72	545.6	-716.9	981.9	877.2	104.65	9.382		

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 W1CN FEDERAL COM 002H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		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)			
11,500.0	11,267.1	16,632.3	12,042.5	21.5	84.6	-84.60	866.8	-2,047.3	951.9	851.3	100.63	9.460	
11,542.4	11,309.5	16,636.8	12,042.9	21.5	84.7	-85.06	862.3	-2,047.1	917.7	815.7	102.06	8.992	
11,550.0	11,317.1	16,637.7	12,043.0	21.5	84.7	96.41	861.4	-2,047.1	911.6	809.3	102.33	8.909	
11,575.0	11,342.1	16,641.5	12,043.3	21.5	84.8	99.83	857.6	-2,047.0	891.9	788.7	103.23	8.641	
11,600.0	11,367.0	16,646.7	12,043.8	21.4	84.9	102.89	852.4	-2,046.8	872.6	768.5	104.17	8.377	
11,625.0	11,391.7	16,653.4	12,044.4	21.4	85.0	105.61	845.8	-2,046.6	853.8	748.6	105.15	8.120	
11,650.0	11,416.2	16,661.3	12,045.0	21.4	85.1	107.99	837.8	-2,046.3	835.4	729.3	106.16	7.869	
11,675.0	11,440.4	16,670.7	12,045.8	21.4	85.2	110.05	828.6	-2,046.0	817.6	710.4	107.21	7.626	
11,700.0	11,464.3	16,681.2	12,046.7	21.4	85.4	111.82	818.0	-2,045.6	800.4	692.1	108.28	7.392	
11,725.0	11,487.7	16,693.0	12,047.6	21.3	85.6	113.33	806.3	-2,045.3	783.9	674.5	109.37	7.167	
11,750.0	11,510.6	16,706.0	12,048.6	21.3	85.8	114.59	793.4	-2,044.9	768.0	657.5	110.48	6.952	
11,775.0	11,533.0	16,721.8	12,049.7	21.3	86.0	115.52	777.6	-2,044.4	752.8	641.2	111.66	6.742	
11,800.0	11,554.8	16,740.5	12,051.0	21.3	86.3	116.13	759.0	-2,043.7	738.3	625.5	112.90	6.540	
11,825.0	11,575.9	16,760.1	12,052.1	21.2	86.6	116.59	739.4	-2,043.0	724.5	610.4	114.14	6.348	
11,850.0	11,596.3	16,780.7	12,053.1	21.2	86.9	116.92	718.8	-2,042.3	711.4	596.1	115.38	6.166	
11,875.0	11,615.9	16,802.2	12,054.0	21.2	87.3	117.12	697.4	-2,041.5	699.0	582.4	116.61	5.995	
11,900.0	11,634.6	16,820.7	12,054.6	21.2	87.6	117.44	678.8	-2,040.7	687.3	569.6	117.71	5.839	
11,925.0	11,652.5	16,839.2	12,055.2	21.2	87.8	117.70	660.5	-2,040.0	676.4	557.6	118.75	5.696	
11,950.0	11,669.4	16,858.5	12,055.8	21.2	88.1	117.87	641.2	-2,039.2	666.3	546.5	119.77	5.563	
11,975.0	11,685.3	16,878.6	12,056.5	21.2	88.5	117.95	621.0	-2,038.3	657.0	536.2	120.77	5.440	
12,000.0	11,700.2	16,899.6	12,057.2	21.2	88.8	117.97	600.1	-2,037.4	648.4	526.7	121.73	5.327	
12,025.0	11,714.0	16,921.0	12,057.9	21.2	89.1	117.94	578.8	-2,036.5	640.6	518.0	122.65	5.223	
12,050.0	11,726.8	16,942.9	12,058.6	21.2	89.5	117.89	556.9	-2,035.5	633.6	510.0	123.53	5.129	
12,075.0	11,738.3	16,960.0	12,059.2	21.2	89.7	117.98	539.8	-2,034.8	627.3	503.1	124.19	5.051	
12,100.0	11,748.7	16,960.0	12,059.2	21.2	89.7	118.52	539.8	-2,034.8	622.3	498.1	124.13	5.013	
12,125.0	11,757.9	16,960.0	12,059.2	21.2	89.7	118.88	539.8	-2,034.8	618.9	495.0	123.85	4.997 SF	
12,150.0	11,765.9	16,960.0	12,059.2	21.2	89.7	119.07	539.8	-2,034.8	617.1	493.8	123.33	5.004 ES	
12,164.4	11,769.9	16,960.0	12,059.2	21.2	89.7	119.10	539.8	-2,034.8	616.8	493.9	122.92	5.018 CC	
12,175.0	11,772.6	16,960.0	12,059.2	21.2	89.7	119.08	539.8	-2,034.8	617.0	494.4	122.58	5.033	
12,200.0	11,778.1	16,960.0	12,059.2	21.2	89.7	118.92	539.8	-2,034.8	618.5	496.9	121.60	5.087	
12,225.0	11,782.2	16,960.0	12,059.2	21.3	89.7	118.59	539.8	-2,034.8	621.6	501.2	120.40	5.163	
12,250.0	11,785.1	16,960.0	12,059.2	21.3	89.7	118.08	539.8	-2,034.8	626.4	507.4	119.00	5.264	
12,275.0	11,786.6	16,960.0	12,059.2	21.3	89.7	117.39	539.8	-2,034.8	632.7	515.3	117.43	5.388	
12,292.4	11,787.0	16,960.0	12,059.2	21.3	89.7	116.80	539.8	-2,034.8	637.9	521.7	116.26	5.487	
12,300.0	11,787.0	16,960.0	12,059.2	21.3	89.7	116.80	539.8	-2,034.8	640.4	524.7	115.72	5.534	
12,400.0	11,787.0	16,960.0	12,059.2	21.5	89.7	116.80	539.8	-2,034.8	680.3	572.2	108.13	6.292	
12,500.0	11,787.0	16,960.0	12,059.2	21.7	89.7	116.80	539.8	-2,034.8	731.8	631.7	100.10	7.311	
12,600.0	11,787.0	16,960.0	12,059.2	21.8	89.7	116.80	539.8	-2,034.8	792.6	700.3	92.34	8.584	
12,700.0	11,787.0	16,960.0	12,059.2	22.0	89.7	116.80	539.8	-2,034.8	860.8	775.5	85.24	10.099	
12,800.0	11,787.0	16,960.0	12,059.2	22.2	89.7	116.80	539.8	-2,034.8	934.7	855.7	78.95	11.839	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	8.0	3.0	0.0	130.62	-162.5	189.4	249.7				
100.0	100.0	92.8	100.8	3.1	4.2	130.57	-162.2	189.4	249.4	241.3	8.12	30.705	
200.0	200.0	193.7	201.7	3.3	8.8	130.41	-161.3	189.5	248.9	235.0	13.95	17.845	
300.0	300.0	294.5	302.5	3.6	13.4	130.12	-159.8	189.7	248.1	227.9	20.14	12.316	
400.0	400.0	395.4	403.3	3.8	18.0	129.71	-157.7	189.9	246.9	220.4	26.44	9.339	
500.0	500.0	496.2	504.1	4.0	22.6	129.18	-155.0	190.2	245.4	212.6	32.77	7.487	
600.0	600.0	597.0	604.8	4.1	27.1	128.51	-151.6	190.5	243.5	204.4	39.12	6.225	
700.0	700.0	697.7	705.5	4.3	31.7	127.72	-147.6	190.9	241.4	195.9	45.49	5.307	
800.0	800.0	798.3	806.0	4.5	36.3	126.78	-143.1	191.4	239.0	187.3	51.70	4.624	
850.8	850.8	843.2	850.8	4.6	36.3	126.35	-141.3	192.0	238.4	186.8	51.63	4.617 CC, ES, SF	
900.0	900.0	888.0	895.6	4.7	36.3	125.96	-140.3	193.4	239.0	187.3	51.64	4.628	
1,000.0	1,000.0	984.7	992.2	4.8	36.3	125.32	-139.7	197.2	241.8	190.1	51.66	4.681	
1,100.0	1,100.0	1,085.1	1,092.6	5.0	36.3	124.88	-140.0	200.8	244.9	193.2	51.72	4.736	
1,200.0	1,200.0	1,186.0	1,193.4	5.2	36.3	124.62	-140.7	203.8	247.8	196.0	51.79	4.784	
1,300.0	1,300.0	1,286.9	1,294.2	5.3	36.4	124.50	-141.7	206.2	250.3	198.4	51.86	4.826	
1,400.0	1,400.0	1,387.9	1,395.3	5.5	36.4	124.52	-143.0	207.8	252.3	200.4	51.93	4.859	
1,500.0	1,500.0	1,488.4	1,495.7	5.6	36.4	124.63	-144.4	209.1	254.1	202.1	52.00	4.888	
1,600.0	1,600.0	1,589.6	1,596.9	5.8	36.4	124.82	-145.9	209.8	256.6	203.5	52.07	4.908	
1,700.0	1,700.0	1,691.0	1,698.3	5.9	36.5	125.08	-147.4	210.0	256.6	204.4	52.14	4.920	
1,800.0	1,800.0	1,792.9	1,800.2	6.0	36.5	125.44	-148.9	209.2	256.8	204.6	52.21	4.919	
1,900.0	1,900.0	1,894.0	1,901.3	6.2	36.5	125.97	-150.6	207.6	256.5	204.2	52.27	4.907	
2,000.0	2,000.0	1,994.9	2,002.1	6.3	36.5	126.64	-152.7	205.3	255.8	203.5	52.33	4.889	
2,037.3	2,037.3	2,032.4	2,039.6	6.4	36.5	-158.14	-153.3	204.4	255.7	203.3	52.35	4.884	
2,100.0	2,100.0	2,094.8	2,102.0	6.5	36.5	-157.84	-154.4	202.9	256.2	203.8	52.39	4.890	
2,200.0	2,199.9	2,195.4	2,202.6	6.6	36.5	-157.59	-155.9	200.7	258.9	206.5	52.44	4.938	
2,300.0	2,299.7	2,296.0	2,303.1	6.8	36.5	-157.64	-156.9	198.4	263.8	211.3	52.51	5.025	
2,333.3	2,332.9	2,329.5	2,336.6	6.8	36.5	-157.71	-157.2	197.6	265.9	213.4	52.52	5.064	
2,400.0	2,399.3	2,396.4	2,403.5	6.9	36.6	-161.91	-157.8	195.9	271.1	218.6	52.55	5.159	
2,500.0	2,498.5	2,496.4	2,503.4	7.1	36.6	-165.81	-158.7	193.1	281.6	229.0	52.62	5.351	
2,600.0	2,597.2	2,594.7	2,601.7	7.3	36.6	-168.28	-159.7	190.4	295.5	242.8	52.69	5.609	
2,700.0	2,695.3	2,692.0	2,699.0	7.5	36.6	-170.04	-160.7	188.0	313.3	260.5	52.77	5.936	
2,800.0	2,792.6	2,789.6	2,796.5	7.6	36.6	-171.41	-161.7	185.9	334.6	281.7	52.85	6.331	
2,900.0	2,889.2	2,883.7	2,890.6	7.8	36.6	-172.54	-162.5	184.4	359.7	306.8	52.93	6.796	
2,932.6	2,920.4	2,913.4	2,920.3	7.9	36.7	-172.87	-162.8	184.1	368.8	315.9	52.94	6.966	
3,000.0	2,985.0	2,974.5	2,981.4	7.9	36.7	-173.16	-163.2	184.1	388.4	335.5	52.96	7.334	
3,100.0	3,080.7	3,063.1	3,070.0	8.1	36.7	-173.66	-163.7	185.6	418.8	365.8	53.00	7.901	
3,200.0	3,176.4	3,156.1	3,162.9	8.2	36.7	-174.31	-163.7	188.9	450.2	397.2	53.06	8.486	
3,300.0	3,272.2	3,252.3	3,259.0	8.4	36.7	-175.08	-162.4	193.1	481.8	428.6	53.14	9.066	
3,400.0	3,367.9	3,347.1	3,353.7	8.5	36.7	-175.83	-160.5	197.4	513.1	459.9	53.22	9.642	
3,500.0	3,463.7	3,446.8	3,453.3	8.7	36.8	-176.54	-158.1	201.8	544.3	490.9	53.32	10.208	
3,600.0	3,559.4	3,547.0	3,553.4	8.9	36.8	-177.04	-156.4	204.6	574.5	521.1	53.42	10.755	
3,700.0	3,655.1	3,646.6	3,653.1	9.0	36.8	-177.39	-155.0	206.3	604.0	550.5	53.51	11.287	
3,800.0	3,750.9	3,731.7	3,738.1	9.2	36.8	-177.62	-154.4	207.8	634.0	580.4	53.57	11.835	
3,900.0	3,846.6	3,819.0	3,825.3	9.4	36.9	-177.82	-154.6	210.4	665.3	611.7	53.63	12.406	
4,000.0	3,942.4	3,912.5	3,918.8	9.5	36.9	-178.01	-155.2	213.7	697.4	643.7	53.73	12.981	
4,100.0	4,038.1	3,999.4	4,005.6	9.7	36.9	-178.14	-156.4	216.9	729.9	676.1	53.79	13.568	
4,200.0	4,133.9	4,086.5	4,092.6	9.9	36.9	-178.22	-158.3	220.7	763.5	709.6	53.87	14.172	
4,300.0	4,229.6	4,187.5	4,193.5	10.1	37.0	-178.23	-161.7	225.0	797.4	743.4	54.03	14.758	
4,400.0	4,325.3	4,286.8	4,292.7	10.3	37.0	-178.17	-165.3	227.6	830.2	776.0	54.17	15.326	
4,500.0	4,421.1	4,399.2	4,405.0	10.5	37.1	-178.23	-167.2	230.3	861.8	807.5	54.36	15.855	
4,600.0	4,516.8	4,496.5	4,502.3	10.7	37.1	-178.25	-168.4	231.5	892.3	837.8	54.49	16.375	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 28 1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 797-r.5 MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,700.0	4,612.6	4,595.4	4,601.2	10.9	37.2	-178.27	-169.7	232.4	922.5	867.9	54.63	16.887		
4,800.0	4,708.3	4,692.1	4,697.9	11.1	37.2	-178.28	-170.8	233.0	952.5	897.7	54.76	17.393		
4,900.0	4,804.0	4,787.9	4,793.6	11.3	37.2	-178.30	-171.8	233.6	982.4	927.5	54.90	17.895		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	8.0	3.0	0.0	130.62	-162.5	189.4	249.7				
100.0	100.0	92.8	100.8	3.1	4.2	130.57	-162.2	189.4	249.4	241.3	8.12	30.705	
200.0	200.0	193.7	201.7	3.3	8.8	130.41	-161.3	189.5	248.9	235.0	13.95	17.845	
300.0	300.0	294.5	302.5	3.6	13.4	130.12	-159.8	189.7	248.1	227.9	20.14	12.316	
400.0	400.0	395.4	403.3	3.8	18.0	129.71	-157.7	189.9	246.9	220.4	26.44	9.339	
500.0	500.0	496.2	504.1	4.0	22.6	129.18	-155.0	190.2	245.4	212.6	32.77	7.487	
600.0	600.0	597.0	604.8	4.1	27.1	128.51	-151.6	190.5	243.5	204.4	39.12	6.225	
700.0	700.0	697.7	705.5	4.3	31.7	127.72	-147.6	190.9	241.4	195.9	45.49	5.307	
800.0	800.0	798.3	806.0	4.5	36.3	126.78	-143.1	191.4	239.0	187.3	51.70	4.624	
850.8	850.8	843.2	850.8	4.6	36.3	126.35	-141.3	192.0	238.4	186.8	51.63	4.617 CC, ES, SF	
900.0	900.0	888.0	895.6	4.7	36.3	125.96	-140.3	193.4	239.0	187.3	51.64	4.628	
1,000.0	1,000.0	984.7	992.2	4.8	36.3	125.32	-139.7	197.2	241.8	190.1	51.66	4.681	
1,100.0	1,100.0	1,085.1	1,092.6	5.0	36.3	124.88	-140.0	200.8	244.9	193.2	51.72	4.736	
1,200.0	1,200.0	1,186.0	1,193.4	5.2	36.3	124.62	-140.7	203.8	247.8	196.0	51.79	4.784	
1,300.0	1,300.0	1,286.9	1,294.2	5.3	36.4	124.50	-141.7	206.2	250.3	198.4	51.86	4.826	
1,400.0	1,400.0	1,387.9	1,395.3	5.5	36.4	124.52	-143.0	207.8	252.3	200.4	51.93	4.859	
1,500.0	1,500.0	1,488.4	1,495.7	5.6	36.4	124.63	-144.4	209.1	254.1	202.1	52.00	4.888	
1,600.0	1,600.0	1,589.6	1,596.9	5.8	36.4	124.82	-145.9	209.8	256.6	203.5	52.07	4.908	
1,700.0	1,700.0	1,691.0	1,698.3	5.9	36.5	125.08	-147.4	210.0	256.6	204.4	52.14	4.920	
1,800.0	1,800.0	1,792.9	1,800.2	6.0	36.5	125.44	-148.9	209.2	256.8	204.6	52.21	4.919	
1,900.0	1,900.0	1,894.0	1,901.3	6.2	36.5	125.97	-150.6	207.6	256.5	204.2	52.27	4.907	
2,000.0	2,000.0	1,994.9	2,002.1	6.3	36.5	126.64	-152.7	205.3	255.8	203.5	52.33	4.889	
2,037.3	2,037.3	2,032.4	2,039.6	6.4	36.5	-158.14	-153.3	204.4	255.7	203.3	52.35	4.884	
2,100.0	2,100.0	2,094.8	2,102.0	6.5	36.5	-157.84	-154.4	202.9	256.2	203.8	52.39	4.890	
2,200.0	2,199.9	2,195.4	2,202.6	6.6	36.5	-157.59	-155.9	200.7	258.9	206.5	52.44	4.938	
2,300.0	2,299.7	2,296.0	2,303.1	6.8	36.5	-157.64	-156.9	198.4	263.8	211.3	52.51	5.025	
2,333.3	2,332.9	2,329.5	2,336.6	6.8	36.5	-157.71	-157.2	197.6	265.9	213.4	52.52	5.064	
2,400.0	2,399.3	2,396.4	2,403.5	6.9	36.6	-161.91	-157.8	195.9	271.1	218.6	52.55	5.159	
2,500.0	2,498.5	2,496.4	2,503.4	7.1	36.6	-165.81	-158.7	193.1	281.6	229.0	52.62	5.351	
2,600.0	2,597.2	2,594.7	2,601.7	7.3	36.6	-168.28	-159.7	190.4	295.5	242.8	52.69	5.609	
2,700.0	2,695.3	2,692.0	2,699.0	7.5	36.6	-170.04	-160.7	188.0	313.3	260.5	52.77	5.936	
2,800.0	2,792.6	2,789.6	2,796.5	7.6	36.6	-171.41	-161.7	185.9	334.6	281.7	52.85	6.331	
2,900.0	2,889.2	2,883.7	2,890.6	7.8	36.6	-172.54	-162.5	184.4	359.7	306.8	52.93	6.796	
2,932.6	2,920.4	2,913.4	2,920.3	7.9	36.7	-172.87	-162.8	184.1	368.8	315.9	52.94	6.966	
3,000.0	2,985.0	2,974.5	2,981.4	7.9	36.7	-173.16	-163.2	184.1	388.4	335.5	52.96	7.334	
3,100.0	3,080.7	3,063.1	3,070.0	8.1	36.7	-173.66	-163.7	185.6	418.8	365.8	53.00	7.901	
3,200.0	3,176.4	3,156.1	3,162.9	8.2	36.7	-174.31	-163.7	188.9	450.2	397.2	53.06	8.486	
3,300.0	3,272.2	3,252.3	3,259.0	8.4	36.7	-175.08	-162.4	193.1	481.8	428.6	53.14	9.066	
3,400.0	3,367.9	3,347.1	3,353.7	8.5	36.7	-175.83	-160.5	197.4	513.1	459.9	53.22	9.642	
3,500.0	3,463.7	3,446.8	3,453.3	8.7	36.8	-176.54	-158.1	201.8	544.3	490.9	53.32	10.208	
3,600.0	3,559.4	3,547.0	3,553.4	8.9	36.8	-177.04	-156.4	204.6	574.5	521.1	53.42	10.755	
3,700.0	3,655.1	3,646.6	3,653.1	9.0	36.8	-177.39	-155.0	206.3	604.0	550.5	53.51	11.287	
3,800.0	3,750.9	3,731.7	3,738.1	9.2	36.8	-177.62	-154.4	207.8	634.0	580.4	53.57	11.835	
3,900.0	3,846.6	3,819.0	3,825.3	9.4	36.9	-177.82	-154.6	210.4	665.3	611.7	53.63	12.406	
4,000.0	3,942.4	3,912.5	3,918.8	9.5	36.9	-178.01	-155.2	213.7	697.4	643.7	53.73	12.981	
4,100.0	4,038.1	3,999.4	4,005.6	9.7	36.9	-178.14	-156.4	216.9	729.9	676.1	53.79	13.568	
4,200.0	4,133.9	4,086.5	4,092.6	9.9	36.9	-178.22	-158.3	220.7	763.5	709.6	53.87	14.172	
4,300.0	4,229.6	4,187.5	4,193.5	10.1	37.0	-178.23	-161.7	225.0	797.4	743.4	54.03	14.758	
4,400.0	4,325.3	4,286.8	4,292.7	10.3	37.0	-178.17	-165.3	227.6	830.2	776.0	54.17	15.326	
4,500.0	4,421.1	4,399.2	4,405.0	10.5	37.1	-178.23	-167.2	230.3	861.8	807.6	54.25	15.887	
4,600.0	4,516.8	4,496.5	4,502.3	10.7	37.1	-178.25	-168.4	231.5	892.3	837.9	54.38	16.408	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 28 1H - ST01 - AWP													Offset Site Error:	0.0 usft
Survey Program: 797-r.5 MWD, 8616-r.5 MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,700.0	4,612.6	4,595.4	4,601.2	10.9	37.2	-178.27	-169.7	232.4	922.5	868.0	54.52	16.921		
4,800.0	4,708.3	4,692.1	4,697.9	11.1	37.2	-178.28	-170.8	233.0	952.5	897.8	54.65	17.428		
4,900.0	4,804.0	4,787.9	4,793.6	11.3	37.2	-178.30	-171.8	233.6	982.4	927.6	54.79	17.931		

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 2H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-GYD-CT-CMS, 4372-r.5 MWD													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
2,800.0	2,792.6	2,785.3	2,774.7	7.6	5.5	-23.47	120.1	-1,078.7	998.2	984.4	13.74	72.657	
2,900.0	2,889.2	2,887.9	2,877.3	7.8	5.6	-25.25	119.2	-1,080.3	975.7	961.7	14.00	69.686	
2,932.6	2,920.4	2,927.0	2,916.3	7.9	5.6	-25.87	119.1	-1,080.7	967.6	953.6	14.07	68.777	
3,000.0	2,985.0	3,013.7	3,003.1	7.9	5.7	-26.55	119.1	-1,080.1	949.5	935.3	14.25	66.654	
3,100.0	3,080.7	3,128.0	3,117.3	8.1	6.0	-27.50	119.0	-1,076.7	920.7	906.1	14.63	62.930	
3,200.0	3,176.4	3,230.8	3,219.9	8.2	6.3	-28.39	119.4	-1,071.9	890.5	875.5	14.99	59.397	
3,300.0	3,272.2	3,323.3	3,312.4	8.4	6.5	-29.20	120.4	-1,067.5	860.4	845.0	15.34	56.073	
3,400.0	3,367.9	3,418.5	3,407.5	8.5	6.8	-30.05	121.9	-1,062.9	830.3	814.6	15.70	52.881	
3,500.0	3,463.7	3,507.2	3,496.0	8.7	7.0	-30.89	123.5	-1,059.0	800.9	784.8	16.06	49.880	
3,600.0	3,559.4	3,597.0	3,585.8	8.9	7.2	-31.81	125.0	-1,055.7	772.3	755.9	16.42	47.046	
3,700.0	3,655.1	3,693.8	3,682.5	9.0	7.4	-32.87	126.7	-1,052.3	744.2	727.4	16.79	44.325	
3,800.0	3,750.9	3,797.8	3,786.4	9.2	7.7	-34.15	127.9	-1,047.9	715.6	698.4	17.18	41.659	
3,900.0	3,846.6	3,888.3	3,876.8	9.4	7.9	-35.44	128.0	-1,043.7	687.0	669.4	17.56	39.122	
4,000.0	3,942.4	3,982.2	3,970.6	9.5	8.2	-36.92	127.7	-1,039.6	659.1	641.1	17.95	36.723	
4,100.0	4,038.1	4,079.0	4,067.3	9.7	8.4	-38.69	126.2	-1,035.1	631.6	613.2	18.34	34.443	
4,200.0	4,133.9	4,175.0	4,163.1	9.9	8.6	-40.70	123.8	-1,030.0	604.2	585.5	18.72	32.268	
4,300.0	4,229.6	4,265.2	4,253.2	10.1	8.9	-42.76	121.5	-1,025.3	577.7	558.5	19.16	30.149	
4,400.0	4,325.3	4,354.8	4,342.7	10.3	9.2	-44.90	119.7	-1,021.6	552.9	533.3	19.60	28.202	
4,500.0	4,421.1	4,445.9	4,433.8	10.5	9.3	-47.20	118.2	-1,018.6	529.6	509.9	19.72	26.856	
4,600.0	4,516.8	4,532.9	4,520.8	10.7	9.4	-49.49	117.1	-1,016.7	508.3	488.3	20.00	25.413	
4,700.0	4,612.6	4,625.9	4,613.7	10.9	9.5	-51.91	117.4	-1,016.5	489.2	469.0	20.27	24.132	
4,800.0	4,708.3	4,720.8	4,708.5	11.1	9.5	-54.42	118.6	-1,016.8	471.3	450.7	20.53	22.955	
4,900.0	4,804.0	4,816.9	4,804.7	11.3	9.6	-57.13	119.9	-1,017.4	454.5	433.7	20.78	21.870	
5,000.0	4,899.8	4,913.2	4,901.0	11.5	9.7	-60.00	121.4	-1,018.0	438.7	417.7	21.04	20.851	
5,100.0	4,995.5	5,005.6	4,993.4	11.7	9.7	-62.91	122.9	-1,018.9	424.5	403.2	21.31	19.924	
5,200.0	5,091.3	5,102.1	5,089.8	11.9	9.8	-66.06	124.6	-1,020.8	412.2	390.6	21.57	19.107	
5,300.0	5,187.0	5,197.8	5,185.5	12.1	9.9	-69.32	126.5	-1,022.6	401.1	379.3	21.85	18.360	
5,400.0	5,282.8	5,288.9	5,276.5	12.3	9.9	-72.55	128.0	-1,025.0	392.2	370.1	22.13	17.721	
5,500.0	5,378.5	5,379.0	5,366.6	12.5	10.0	-75.97	127.9	-1,027.8	386.5	364.1	22.41	17.246	
5,600.0	5,474.2	5,482.4	5,469.9	12.7	10.1	-80.04	127.1	-1,031.1	383.0	360.3	22.71	16.862	
5,700.0	5,570.0	5,581.9	5,569.4	12.9	10.2	-84.02	128.1	-1,033.0	379.2	356.2	23.03	16.471	
5,800.0	5,665.7	5,680.1	5,667.6	13.2	10.3	-87.97	129.4	-1,034.9	377.0	353.6	23.35	16.144	
5,844.1	5,707.9	5,719.7	5,707.2	13.3	10.4	-89.58	130.0	-1,035.6	376.6	353.1	23.49	16.028 CC, ES	
5,900.0	5,761.5	5,768.2	5,755.6	13.4	10.4	-91.55	130.1	-1,036.8	377.2	353.6	23.68	15.933	
6,000.0	5,857.2	5,859.7	5,847.1	13.6	10.5	-95.24	129.1	-1,039.5	381.3	357.3	24.00	15.891 SF	
6,100.0	5,953.0	5,955.4	5,942.7	13.8	10.6	-99.00	127.5	-1,042.6	387.9	363.6	24.32	15.948	
6,200.0	6,048.7	6,051.7	6,039.0	14.0	10.7	-102.65	125.9	-1,045.7	396.2	371.6	24.66	16.069	
6,300.0	6,144.4	6,148.6	6,135.8	14.3	10.8	-106.18	124.4	-1,048.8	406.1	381.1	25.00	16.247	
6,400.0	6,240.2	6,244.8	6,232.0	14.5	10.9	-109.54	122.9	-1,051.6	417.4	392.1	25.33	16.476	
6,500.0	6,335.9	6,341.3	6,328.4	14.7	11.0	-112.72	121.4	-1,054.6	430.2	404.5	25.68	16.753	
6,600.0	6,431.7	6,438.8	6,425.9	14.9	11.2	-115.72	120.1	-1,057.8	444.0	418.0	26.02	17.064	
6,700.0	6,527.4	6,533.0	6,520.0	15.2	11.3	-118.48	118.8	-1,060.6	459.1	432.7	26.35	17.421	
6,800.0	6,623.1	6,628.8	6,615.7	15.4	11.4	-121.11	117.2	-1,063.5	475.5	448.8	26.69	17.818	
6,900.0	6,718.9	6,726.7	6,713.6	15.6	11.6	-123.60	115.6	-1,066.5	492.8	465.8	27.03	18.230	
7,000.0	6,814.6	6,824.2	6,811.1	15.8	11.7	-125.92	114.3	-1,069.7	510.7	483.3	27.38	18.654	
7,100.0	6,910.4	6,935.5	6,922.2	16.1	11.9	-128.33	114.7	-1,073.9	527.6	499.8	27.79	18.983	
7,200.0	7,006.1	7,032.6	7,019.2	16.3	12.1	-130.28	116.2	-1,078.1	544.0	515.8	28.15	19.323	
7,300.0	7,101.9	7,128.2	7,114.8	16.5	12.3	-132.09	117.6	-1,082.2	561.1	532.5	28.51	19.679	
7,400.0	7,197.6	7,223.1	7,209.5	16.8	12.5	-133.78	118.7	-1,086.1	579.0	550.1	28.87	20.054	
7,500.0	7,293.3	7,317.9	7,304.2	17.0	12.7	-135.36	119.3	-1,090.2	597.8	568.5	29.23	20.448	
7,554.9	7,345.9	7,370.5	7,356.8	17.1	12.8	-136.18	119.6	-1,092.5	608.4	578.9	29.42	20.677	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 2H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 4372-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)			
7,600.0	7,389.1	7,413.6	7,399.9	17.2	12.9	-136.89	119.8	-1,094.4	617.1	587.5	29.57	20.866	
7,700.0	7,485.3	7,509.4	7,495.6	17.4	13.1	-138.33	120.1	-1,098.3	635.9	606.0	29.93	21.244	
7,800.0	7,582.0	7,606.1	7,592.2	17.7	13.3	-139.60	120.2	-1,102.2	653.9	623.6	30.29	21.589	
7,900.0	7,679.1	7,702.6	7,688.7	17.9	13.5	-140.71	120.3	-1,105.9	671.0	640.4	30.64	21.903	
8,000.0	7,776.6	7,798.8	7,784.7	18.1	13.7	-141.66	120.1	-1,109.6	687.1	656.2	30.97	22.187	
8,100.0	7,874.5	7,894.2	7,880.1	18.3	13.9	-142.50	119.7	-1,112.8	702.5	671.2	31.29	22.452	
8,200.0	7,972.7	7,992.2	7,978.1	18.5	14.1	-143.19	118.8	-1,116.5	716.8	685.2	31.60	22.682	
8,300.0	8,071.2	8,091.4	8,077.1	18.7	14.4	-143.77	117.9	-1,120.3	729.8	697.9	31.91	22.870	
8,400.0	8,170.0	8,188.1	8,173.8	18.9	14.6	-144.23	117.0	-1,124.0	741.6	709.4	32.20	23.030	
8,500.0	8,269.1	8,287.4	8,273.0	19.1	14.8	-144.60	115.6	-1,127.7	752.3	719.8	32.48	23.161	
8,600.0	8,368.4	8,387.6	8,373.1	19.2	15.0	-144.89	114.5	-1,131.4	761.4	728.6	32.76	23.241	
8,700.0	8,467.9	8,485.9	8,471.3	19.4	15.3	-145.10	113.4	-1,134.8	769.2	736.2	33.03	23.291	
8,800.0	8,567.5	8,565.5	8,550.9	19.6	15.4	-145.17	111.7	-1,137.7	776.5	743.3	33.18	23.400	
8,900.0	8,667.3	8,626.0	8,611.1	19.7	15.5	-144.99	106.8	-1,141.6	786.5	753.3	33.23	23.666	
9,000.0	8,767.2	8,683.4	8,667.6	19.9	15.6	-144.60	98.2	-1,146.4	800.4	767.1	33.25	24.074	
9,100.0	8,867.1	8,736.0	8,718.6	20.0	15.7	-144.04	86.9	-1,152.2	818.0	784.8	33.22	24.621	
9,200.0	8,967.1	8,788.8	8,769.0	20.1	15.9	-143.35	72.3	-1,158.8	839.7	806.6	33.19	25.299	
9,232.9	9,000.0	8,804.7	8,783.9	20.1	15.9	155.75	67.3	-1,160.7	847.9	814.7	33.16	25.569	
9,300.0	9,067.1	8,839.9	8,816.7	20.2	15.9	156.35	55.3	-1,164.9	866.1	833.0	33.11	26.160	
9,400.0	9,167.1	8,892.0	8,864.3	20.2	16.0	157.31	35.1	-1,171.4	897.8	864.7	33.08	27.138	
9,500.0	9,267.1	8,924.0	8,892.7	20.3	16.1	157.92	20.9	-1,175.5	935.0	901.9	33.06	28.280	
9,600.0	9,367.1	8,955.0	8,919.5	20.3	16.2	158.52	5.9	-1,179.1	977.8	944.7	33.09	29.550	

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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 @ 3169.0usft

Offset Depths are relative to Offset Datum

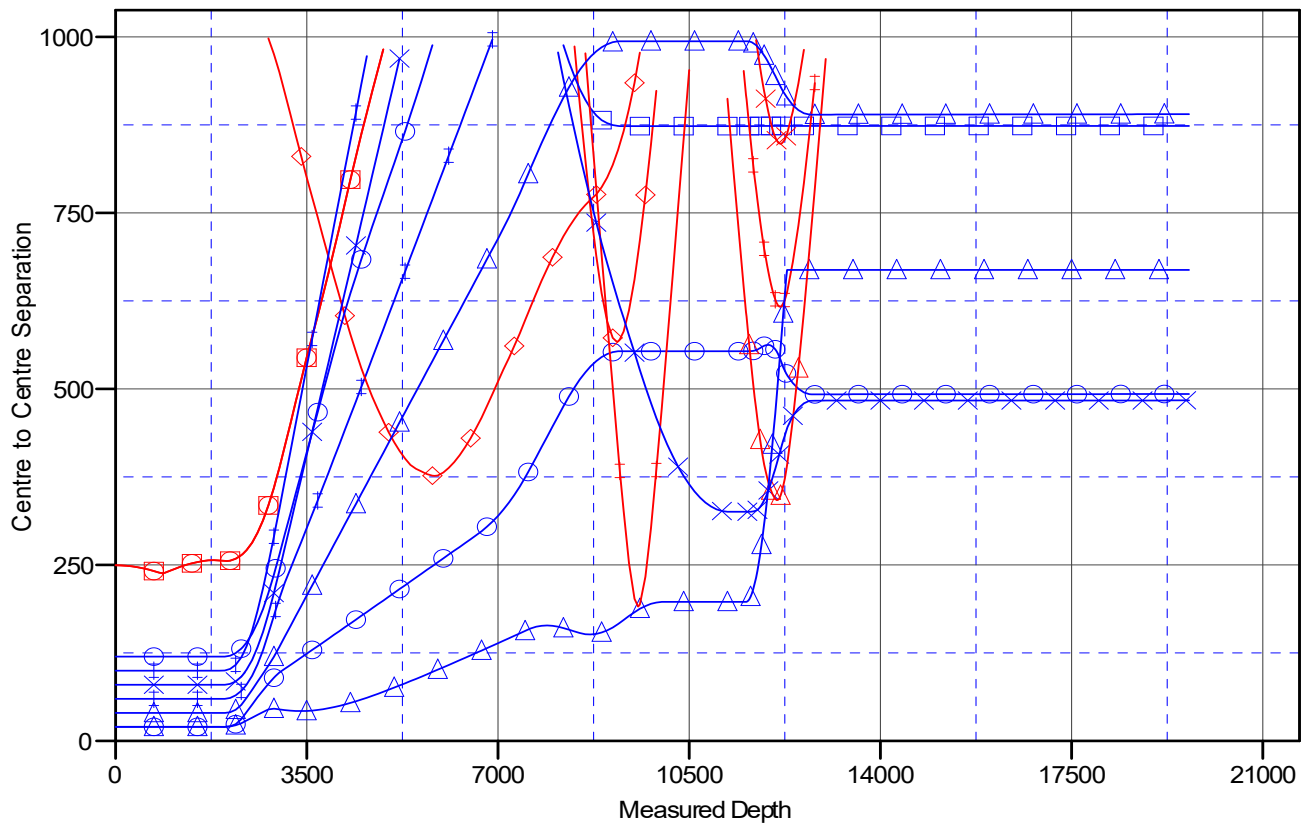
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 707H

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	RED HILLS WEST21 W080 FEDERAL COM 004H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 706H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0	RED HILLS WEST21 W10N FEDERAL COM 002H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 711H OWB, PWP0 V0
RED HILLS WEST21 FEDERAL COM 2H, OWB, AWP V0	WILDER FEDERAL 28 1H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 712H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0	WILDER FEDERAL 28 1H, ST01, AWP V0	_ZIA HILLS UNIT 2832 WC 709H OWB, PWP0 V0
WILDER FEDERAL 28 2H, OWB, AWP V0	RED HILLS WEST21 '80' FEDERAL COM 1H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 802H OWB, PWP0 V0
RED HILLS WEST21 W180 FEDERAL COM 003H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 803H OWB, PWP0 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 707H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3169.0usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3169.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 707H	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 @ 3169.0usft

Offset Depths are relative to Offset Datum

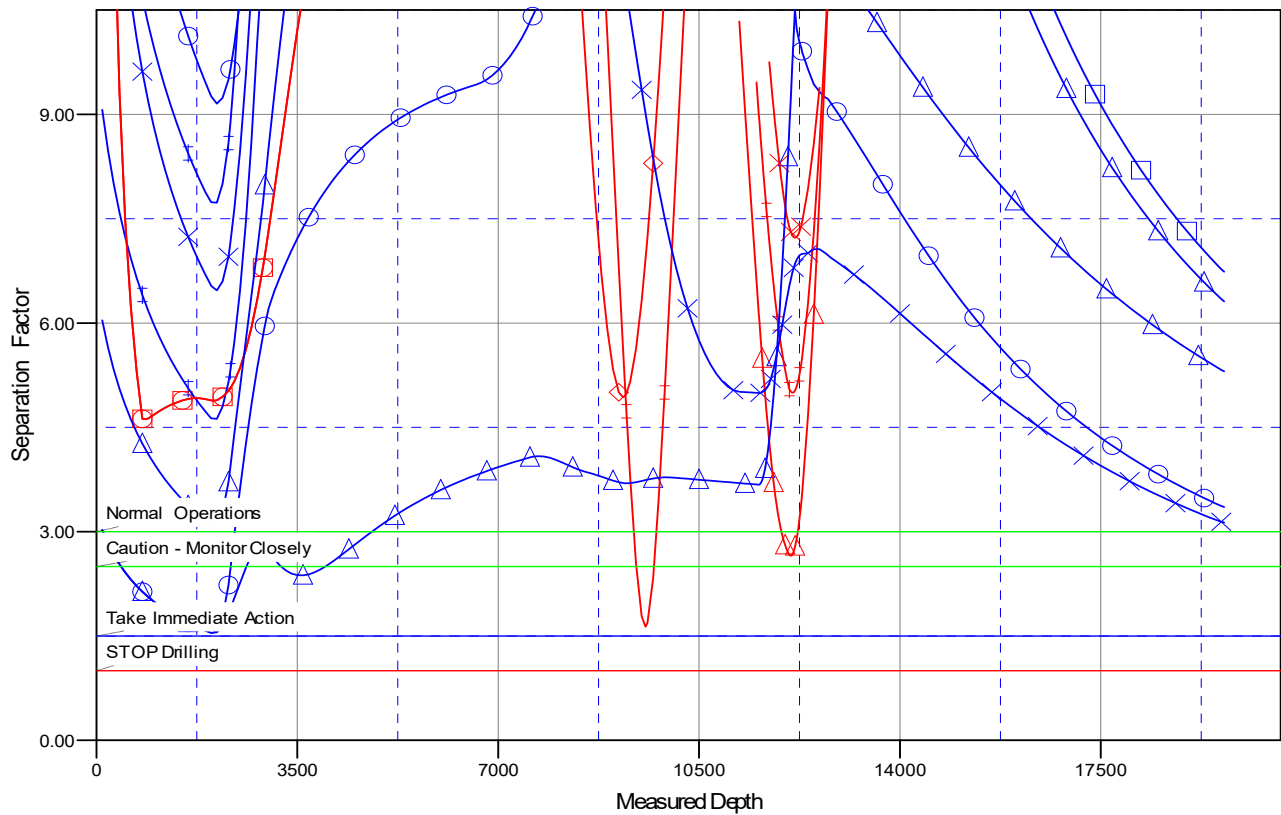
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 707H

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

Grid Convergence at Surface is: 0.35°

Separation Factor Plot



LEGEND

_ZIA HILLS UNIT 2832 WC 710H OWB, PWP0 V0	RED HILLS WEST 21 W0B0 FEDERAL COM 004H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 706H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0	RED HILLS WEST 21 W1C0 FEDERAL COM 002H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 711H OWB, PWP0 V0
RED HILLS WEST 21 FEDERAL COM 2H, OWB, AWP V0	WILDER FEDERAL 28 1H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 712H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0	WILDER FEDERAL 28 1H, ST0, AWP V0	_ZIA HILLS UNIT 2832 WC 709H OWB, PWP0 V0
WILDER FEDERAL 28 2H, OWB, AWP V0	RED HILLS WEST 21 B0 FEDERAL COM 1H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 802H OWB, PWP0 V0
RED HILLS WEST 21 W1B0 FEDERAL COM 003H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 803H OWB, PWP0 V0	

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

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 707H

OWB

Plan: PWP0

Standard Planning Report

26 February, 2025

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3169.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3169.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	10/9/2024	6.27	59.51	47,134.57333702

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	191.66

Plan Survey Tool Program	Date	2/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,649.5 PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	
			ISCWSA MWD + IFR1 + SAG	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,333.3	5.00	285.00	2,332.9	3.8	-14.0	1.50	1.50	0.00	285.00	
2,932.6	16.78	298.88	2,920.4	52.5	-115.4	2.00	1.97	2.32	19.48	
7,554.9	16.78	298.88	7,345.9	697.0	-1,283.9	0.00	0.00	0.00	0.00	
9,232.9	0.00	0.00	9,000.0	814.8	-1,497.5	1.00	-1.00	0.00	180.00	
11,542.4	0.00	0.00	11,309.5	814.8	-1,497.5	0.00	0.00	0.00	0.00	
12,292.4	90.00	179.64	11,787.0	337.3	-1,494.5	12.00	12.00	23.95	179.64	
19,649.9	90.00	179.64	11,787.0	-7,020.0	-1,448.6	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 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3169.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3169.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.50	285.00	2,100.0	0.3	-1.3	-0.1	1.50	1.50	0.00
2,200.0	3.00	285.00	2,199.9	1.4	-5.1	-0.3	1.50	1.50	0.00
2,300.0	4.50	285.00	2,299.7	3.0	-11.4	-0.7	1.50	1.50	0.00
2,333.3	5.00	285.00	2,332.9	3.8	-14.0	-0.8	1.50	1.50	0.00
2,400.0	6.27	289.07	2,399.3	5.7	-20.3	-1.5	2.00	1.91	6.11
2,500.0	8.22	292.80	2,498.5	10.3	-32.0	-3.6	2.00	1.95	3.72
2,600.0	10.18	295.10	2,597.2	16.8	-46.6	-7.0	2.00	1.97	2.30
2,700.0	12.16	296.66	2,695.3	25.3	-64.1	-11.8	2.00	1.98	1.56
2,800.0	14.14	297.79	2,792.6	35.7	-84.3	-17.9	2.00	1.98	1.13
2,900.0	16.13	298.64	2,889.2	48.0	-107.3	-25.4	2.00	1.99	0.86
2,932.6	16.78	298.88	2,920.4	52.5	-115.4	-28.1	2.00	1.99	0.72
3,000.0	16.78	298.88	2,985.0	61.9	-132.4	-33.8	0.00	0.00	0.00
3,100.0	16.78	298.88	3,080.7	75.8	-157.7	-42.4	0.00	0.00	0.00
3,200.0	16.78	298.88	3,176.4	89.8	-183.0	-50.9	0.00	0.00	0.00
3,300.0	16.78	298.88	3,272.2	103.7	-208.3	-59.5	0.00	0.00	0.00
3,400.0	16.78	298.88	3,367.9	117.7	-233.5	-68.0	0.00	0.00	0.00
3,500.0	16.78	298.88	3,463.7	131.6	-258.8	-76.6	0.00	0.00	0.00
3,600.0	16.78	298.88	3,559.4	145.5	-284.1	-85.1	0.00	0.00	0.00
3,700.0	16.78	298.88	3,655.1	159.5	-309.4	-93.7	0.00	0.00	0.00
3,800.0	16.78	298.88	3,750.9	173.4	-334.7	-102.2	0.00	0.00	0.00
3,900.0	16.78	298.88	3,846.6	187.4	-359.9	-110.8	0.00	0.00	0.00
4,000.0	16.78	298.88	3,942.4	201.3	-385.2	-119.3	0.00	0.00	0.00
4,100.0	16.78	298.88	4,038.1	215.3	-410.5	-127.9	0.00	0.00	0.00
4,200.0	16.78	298.88	4,133.9	229.2	-435.8	-136.4	0.00	0.00	0.00
4,300.0	16.78	298.88	4,229.6	243.1	-461.1	-144.9	0.00	0.00	0.00
4,400.0	16.78	298.88	4,325.3	257.1	-486.3	-153.5	0.00	0.00	0.00
4,500.0	16.78	298.88	4,421.1	271.0	-511.6	-162.0	0.00	0.00	0.00
4,600.0	16.78	298.88	4,516.8	285.0	-536.9	-170.6	0.00	0.00	0.00
4,700.0	16.78	298.88	4,612.6	298.9	-562.2	-179.1	0.00	0.00	0.00
4,800.0	16.78	298.88	4,708.3	312.9	-587.5	-187.7	0.00	0.00	0.00
4,900.0	16.78	298.88	4,804.0	326.8	-612.7	-196.2	0.00	0.00	0.00
5,000.0	16.78	298.88	4,899.8	340.7	-638.0	-204.8	0.00	0.00	0.00
5,100.0	16.78	298.88	4,995.5	354.7	-663.3	-213.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3169.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3169.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	16.78	298.88	5,091.3	368.6	-688.6	-221.9	0.00	0.00	0.00
5,300.0	16.78	298.88	5,187.0	382.6	-713.9	-230.4	0.00	0.00	0.00
5,400.0	16.78	298.88	5,282.8	396.5	-739.1	-239.0	0.00	0.00	0.00
5,500.0	16.78	298.88	5,378.5	410.5	-764.4	-247.5	0.00	0.00	0.00
5,600.0	16.78	298.88	5,474.2	424.4	-789.7	-256.1	0.00	0.00	0.00
5,700.0	16.78	298.88	5,570.0	438.3	-815.0	-264.6	0.00	0.00	0.00
5,800.0	16.78	298.88	5,665.7	452.3	-840.3	-273.1	0.00	0.00	0.00
5,900.0	16.78	298.88	5,761.5	466.2	-865.5	-281.7	0.00	0.00	0.00
6,000.0	16.78	298.88	5,857.2	480.2	-890.8	-290.2	0.00	0.00	0.00
6,100.0	16.78	298.88	5,953.0	494.1	-916.1	-298.8	0.00	0.00	0.00
6,200.0	16.78	298.88	6,048.7	508.1	-941.4	-307.3	0.00	0.00	0.00
6,300.0	16.78	298.88	6,144.4	522.0	-966.6	-315.9	0.00	0.00	0.00
6,400.0	16.78	298.88	6,240.2	535.9	-991.9	-324.4	0.00	0.00	0.00
6,500.0	16.78	298.88	6,335.9	549.9	-1,017.2	-333.0	0.00	0.00	0.00
6,600.0	16.78	298.88	6,431.7	563.8	-1,042.5	-341.5	0.00	0.00	0.00
6,700.0	16.78	298.88	6,527.4	577.8	-1,067.8	-350.1	0.00	0.00	0.00
6,800.0	16.78	298.88	6,623.1	591.7	-1,093.0	-358.6	0.00	0.00	0.00
6,900.0	16.78	298.88	6,718.9	605.7	-1,118.3	-367.2	0.00	0.00	0.00
7,000.0	16.78	298.88	6,814.6	619.6	-1,143.6	-375.7	0.00	0.00	0.00
7,100.0	16.78	298.88	6,910.4	633.5	-1,168.9	-384.3	0.00	0.00	0.00
7,200.0	16.78	298.88	7,006.1	647.5	-1,194.2	-392.8	0.00	0.00	0.00
7,300.0	16.78	298.88	7,101.9	661.4	-1,219.4	-401.3	0.00	0.00	0.00
7,400.0	16.78	298.88	7,197.6	675.4	-1,244.7	-409.9	0.00	0.00	0.00
7,500.0	16.78	298.88	7,293.3	689.3	-1,270.0	-418.4	0.00	0.00	0.00
7,554.9	16.78	298.88	7,345.9	697.0	-1,283.9	-423.1	0.00	0.00	0.00
7,600.0	16.33	298.88	7,389.1	703.2	-1,295.1	-426.9	1.00	-1.00	0.00
7,700.0	15.33	298.88	7,485.3	716.4	-1,319.0	-435.0	1.00	-1.00	0.00
7,800.0	14.33	298.88	7,582.0	728.7	-1,341.4	-442.6	1.00	-1.00	0.00
7,900.0	13.33	298.88	7,679.1	740.3	-1,362.4	-449.7	1.00	-1.00	0.00
8,000.0	12.33	298.88	7,776.6	751.0	-1,381.8	-456.2	1.00	-1.00	0.00
8,100.0	11.33	298.88	7,874.5	760.9	-1,399.7	-462.3	1.00	-1.00	0.00
8,200.0	10.33	298.88	7,972.7	770.0	-1,416.2	-467.9	1.00	-1.00	0.00
8,300.0	9.33	298.88	8,071.2	778.2	-1,431.1	-472.9	1.00	-1.00	0.00
8,400.0	8.33	298.88	8,170.0	785.6	-1,444.6	-477.5	1.00	-1.00	0.00
8,500.0	7.33	298.88	8,269.1	792.2	-1,456.5	-481.5	1.00	-1.00	0.00
8,600.0	6.33	298.88	8,368.4	797.9	-1,466.9	-485.0	1.00	-1.00	0.00
8,700.0	5.33	298.88	8,467.9	802.8	-1,475.8	-488.0	1.00	-1.00	0.00
8,800.0	4.33	298.88	8,567.5	806.9	-1,483.2	-490.5	1.00	-1.00	0.00
8,900.0	3.33	298.88	8,667.3	810.1	-1,489.0	-492.5	1.00	-1.00	0.00
9,000.0	2.33	298.88	8,767.2	812.5	-1,493.4	-494.0	1.00	-1.00	0.00
9,100.0	1.33	298.88	8,867.1	814.1	-1,496.2	-494.9	1.00	-1.00	0.00
9,200.0	0.33	298.88	8,967.1	814.8	-1,497.4	-495.3	1.00	-1.00	0.00
9,232.9	0.00	0.00	9,000.0	814.8	-1,497.5	-495.4	1.00	-1.00	0.00
9,300.0	0.00	0.00	9,067.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,167.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,267.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,367.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,467.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,567.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,667.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,767.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,100.0	0.00	0.00	9,867.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,200.0	0.00	0.00	9,967.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,067.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3169.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3169.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 707H	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	10,167.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,267.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,367.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,467.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,567.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,667.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,767.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
11,100.0	0.00	0.00	10,867.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
11,200.0	0.00	0.00	10,967.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,067.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,167.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
11,500.0	0.00	0.00	11,267.1	814.8	-1,497.5	-495.4	0.00	0.00	0.00
11,542.4	0.00	0.00	11,309.5	814.8	-1,497.5	-495.4	0.00	0.00	0.00
11,600.0	6.91	179.64	11,367.0	811.3	-1,497.5	-492.0	12.00	12.00	0.00
11,700.0	18.91	179.64	11,464.3	789.0	-1,497.3	-470.1	12.00	12.00	0.00
11,800.0	30.91	179.64	11,554.8	747.0	-1,497.1	-429.0	12.00	12.00	0.00
11,900.0	42.91	179.64	11,634.6	687.0	-1,496.7	-370.4	12.00	12.00	0.00
12,000.0	54.91	179.64	11,700.2	611.8	-1,496.2	-296.8	12.00	12.00	0.00
12,100.0	66.91	179.64	11,748.7	524.6	-1,495.7	-211.5	12.00	12.00	0.00
12,200.0	78.91	179.64	11,778.1	429.1	-1,495.1	-118.1	12.00	12.00	0.00
12,292.4	90.00	179.64	11,787.0	337.3	-1,494.5	-28.4	12.00	12.00	0.00
12,300.0	90.00	179.64	11,787.0	329.7	-1,494.5	-20.9	0.00	0.00	0.00
12,400.0	90.00	179.64	11,787.0	229.7	-1,493.8	76.9	0.00	0.00	0.00
12,500.0	90.00	179.64	11,787.0	129.7	-1,493.2	174.7	0.00	0.00	0.00
12,600.0	90.00	179.64	11,787.0	29.7	-1,492.6	272.5	0.00	0.00	0.00
12,700.0	90.00	179.64	11,787.0	-70.3	-1,492.0	370.3	0.00	0.00	0.00
12,800.0	90.00	179.64	11,787.0	-170.3	-1,491.3	468.1	0.00	0.00	0.00
12,900.0	90.00	179.64	11,787.0	-270.3	-1,490.7	565.9	0.00	0.00	0.00
13,000.0	90.00	179.64	11,787.0	-370.3	-1,490.1	663.8	0.00	0.00	0.00
13,100.0	90.00	179.64	11,787.0	-470.3	-1,489.5	761.6	0.00	0.00	0.00
13,200.0	90.00	179.64	11,787.0	-570.3	-1,488.9	859.4	0.00	0.00	0.00
13,300.0	90.00	179.64	11,787.0	-670.3	-1,488.2	957.2	0.00	0.00	0.00
13,400.0	90.00	179.64	11,787.0	-770.3	-1,487.6	1,055.0	0.00	0.00	0.00
13,500.0	90.00	179.64	11,787.0	-870.3	-1,487.0	1,152.8	0.00	0.00	0.00
13,600.0	90.00	179.64	11,787.0	-970.2	-1,486.4	1,250.6	0.00	0.00	0.00
13,700.0	90.00	179.64	11,787.0	-1,070.2	-1,485.7	1,348.4	0.00	0.00	0.00
13,800.0	90.00	179.64	11,787.0	-1,170.2	-1,485.1	1,446.2	0.00	0.00	0.00
13,900.0	90.00	179.64	11,787.0	-1,270.2	-1,484.5	1,544.0	0.00	0.00	0.00
14,000.0	90.00	179.64	11,787.0	-1,370.2	-1,483.9	1,641.8	0.00	0.00	0.00
14,100.0	90.00	179.64	11,787.0	-1,470.2	-1,483.2	1,739.7	0.00	0.00	0.00
14,200.0	90.00	179.64	11,787.0	-1,570.2	-1,482.6	1,837.5	0.00	0.00	0.00
14,300.0	90.00	179.64	11,787.0	-1,670.2	-1,482.0	1,935.3	0.00	0.00	0.00
14,400.0	90.00	179.64	11,787.0	-1,770.2	-1,481.4	2,033.1	0.00	0.00	0.00
14,500.0	90.00	179.64	11,787.0	-1,870.2	-1,480.7	2,130.9	0.00	0.00	0.00
14,600.0	90.00	179.64	11,787.0	-1,970.2	-1,480.1	2,228.7	0.00	0.00	0.00
14,700.0	90.00	179.64	11,787.0	-2,070.2	-1,479.5	2,326.5	0.00	0.00	0.00
14,800.0	90.00	179.64	11,787.0	-2,170.2	-1,478.9	2,424.3	0.00	0.00	0.00
14,900.0	90.00	179.64	11,787.0	-2,270.2	-1,478.2	2,522.1	0.00	0.00	0.00
15,000.0	90.00	179.64	11,787.0	-2,370.2	-1,477.6	2,619.9	0.00	0.00	0.00
15,100.0	90.00	179.64	11,787.0	-2,470.2	-1,477.0	2,717.7	0.00	0.00	0.00
15,200.0	90.00	179.64	11,787.0	-2,570.2	-1,476.4	2,815.5	0.00	0.00	0.00
15,300.0	90.00	179.64	11,787.0	-2,670.2	-1,475.7	2,913.4	0.00	0.00	0.00
15,400.0	90.00	179.64	11,787.0	-2,770.2	-1,475.1	3,011.2	0.00	0.00	0.00
15,500.0	90.00	179.64	11,787.0	-2,870.2	-1,474.5	3,109.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3169.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3169.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,600.0	90.00	179.64	11,787.0	-2,970.2	-1,473.9	3,206.8	0.00	0.00	0.00	
15,700.0	90.00	179.64	11,787.0	-3,070.2	-1,473.2	3,304.6	0.00	0.00	0.00	
15,800.0	90.00	179.64	11,787.0	-3,170.2	-1,472.6	3,402.4	0.00	0.00	0.00	
15,900.0	90.00	179.64	11,787.0	-3,270.2	-1,472.0	3,500.2	0.00	0.00	0.00	
16,000.0	90.00	179.64	11,787.0	-3,370.2	-1,471.4	3,598.0	0.00	0.00	0.00	
16,100.0	90.00	179.64	11,787.0	-3,470.2	-1,470.7	3,695.8	0.00	0.00	0.00	
16,200.0	90.00	179.64	11,787.0	-3,570.2	-1,470.1	3,793.6	0.00	0.00	0.00	
16,300.0	90.00	179.64	11,787.0	-3,670.2	-1,469.5	3,891.4	0.00	0.00	0.00	
16,400.0	90.00	179.64	11,787.0	-3,770.2	-1,468.9	3,989.2	0.00	0.00	0.00	
16,500.0	90.00	179.64	11,787.0	-3,870.2	-1,468.2	4,087.1	0.00	0.00	0.00	
16,600.0	90.00	179.64	11,787.0	-3,970.2	-1,467.6	4,184.9	0.00	0.00	0.00	
16,700.0	90.00	179.64	11,787.0	-4,070.2	-1,467.0	4,282.7	0.00	0.00	0.00	
16,800.0	90.00	179.64	11,787.0	-4,170.2	-1,466.4	4,380.5	0.00	0.00	0.00	
16,900.0	90.00	179.64	11,787.0	-4,270.2	-1,465.7	4,478.3	0.00	0.00	0.00	
17,000.0	90.00	179.64	11,787.0	-4,370.2	-1,465.1	4,576.1	0.00	0.00	0.00	
17,100.0	90.00	179.64	11,787.0	-4,470.2	-1,464.5	4,673.9	0.00	0.00	0.00	
17,200.0	90.00	179.64	11,787.0	-4,570.2	-1,463.9	4,771.7	0.00	0.00	0.00	
17,300.0	90.00	179.64	11,787.0	-4,670.2	-1,463.2	4,869.5	0.00	0.00	0.00	
17,400.0	90.00	179.64	11,787.0	-4,770.2	-1,462.6	4,967.3	0.00	0.00	0.00	
17,500.0	90.00	179.64	11,787.0	-4,870.2	-1,462.0	5,065.1	0.00	0.00	0.00	
17,600.0	90.00	179.64	11,787.0	-4,970.2	-1,461.4	5,163.0	0.00	0.00	0.00	
17,700.0	90.00	179.64	11,787.0	-5,070.2	-1,460.7	5,260.8	0.00	0.00	0.00	
17,800.0	90.00	179.64	11,787.0	-5,170.2	-1,460.1	5,358.6	0.00	0.00	0.00	
17,900.0	90.00	179.64	11,787.0	-5,270.2	-1,459.5	5,456.4	0.00	0.00	0.00	
18,000.0	90.00	179.64	11,787.0	-5,370.2	-1,458.9	5,554.2	0.00	0.00	0.00	
18,100.0	90.00	179.64	11,787.0	-5,470.2	-1,458.2	5,652.0	0.00	0.00	0.00	
18,200.0	90.00	179.64	11,787.0	-5,570.2	-1,457.6	5,749.8	0.00	0.00	0.00	
18,300.0	90.00	179.64	11,787.0	-5,670.2	-1,457.0	5,847.6	0.00	0.00	0.00	
18,400.0	90.00	179.64	11,787.0	-5,770.2	-1,456.4	5,945.4	0.00	0.00	0.00	
18,500.0	90.00	179.64	11,787.0	-5,870.2	-1,455.8	6,043.2	0.00	0.00	0.00	
18,600.0	90.00	179.64	11,787.0	-5,970.2	-1,455.1	6,141.0	0.00	0.00	0.00	
18,700.0	90.00	179.64	11,787.0	-6,070.2	-1,454.5	6,238.8	0.00	0.00	0.00	
18,800.0	90.00	179.64	11,787.0	-6,170.1	-1,453.9	6,336.7	0.00	0.00	0.00	
18,900.0	90.00	179.64	11,787.0	-6,270.1	-1,453.3	6,434.5	0.00	0.00	0.00	
19,000.0	90.00	179.64	11,787.0	-6,370.1	-1,452.6	6,532.3	0.00	0.00	0.00	
19,100.0	90.00	179.64	11,787.0	-6,470.1	-1,452.0	6,630.1	0.00	0.00	0.00	
19,200.0	90.00	179.64	11,787.0	-6,570.1	-1,451.4	6,727.9	0.00	0.00	0.00	
19,300.0	90.00	179.64	11,787.0	-6,670.1	-1,450.8	6,825.7	0.00	0.00	0.00	
19,400.0	90.00	179.64	11,787.0	-6,770.1	-1,450.1	6,923.5	0.00	0.00	0.00	
19,500.0	90.00	179.64	11,787.0	-6,870.1	-1,449.5	7,021.3	0.00	0.00	0.00	
19,600.0	90.00	179.64	11,787.0	-6,970.1	-1,448.9	7,119.1	0.00	0.00	0.00	
19,649.9	90.00	179.64	11,787.0	-7,020.0	-1,448.6	7,167.9	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 707H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3169.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3169.0usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 707H	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)		
LTP_ZHU 2832 707H	90.00	0.00	11,787.0	-6,970.0	-1,448.7	364,477.16	702,838.23	32° 0' 1.346 N	103° 40' 44.432 W
- plan misses target center by 0.1usft at 19599.9usft MD (11787.0 TVD, -6970.0 N, -1448.9 E)									
- Circle (radius 50.0)									
FTP_ZHU 2832 707H	0.00	0.00	11,787.0	337.3	-1,482.0	371,784.51	702,804.98	32° 1' 13.662 N	103° 40' 44.304 W
- plan misses target center by 12.5usft at 12292.5usft MD (11787.0 TVD, 337.3 N, -1494.5 E)									
- Circle (radius 50.0)									
PBHL_ZHU 2832 707H	0.00	359.64	11,787.0	-7,020.0	-1,448.6	364,427.16	702,838.41	32° 0' 0.851 N	103° 40' 44.433 W
- plan hits target center									
- Rectangle (sides W100.0 H7,357.7 D20.0)									

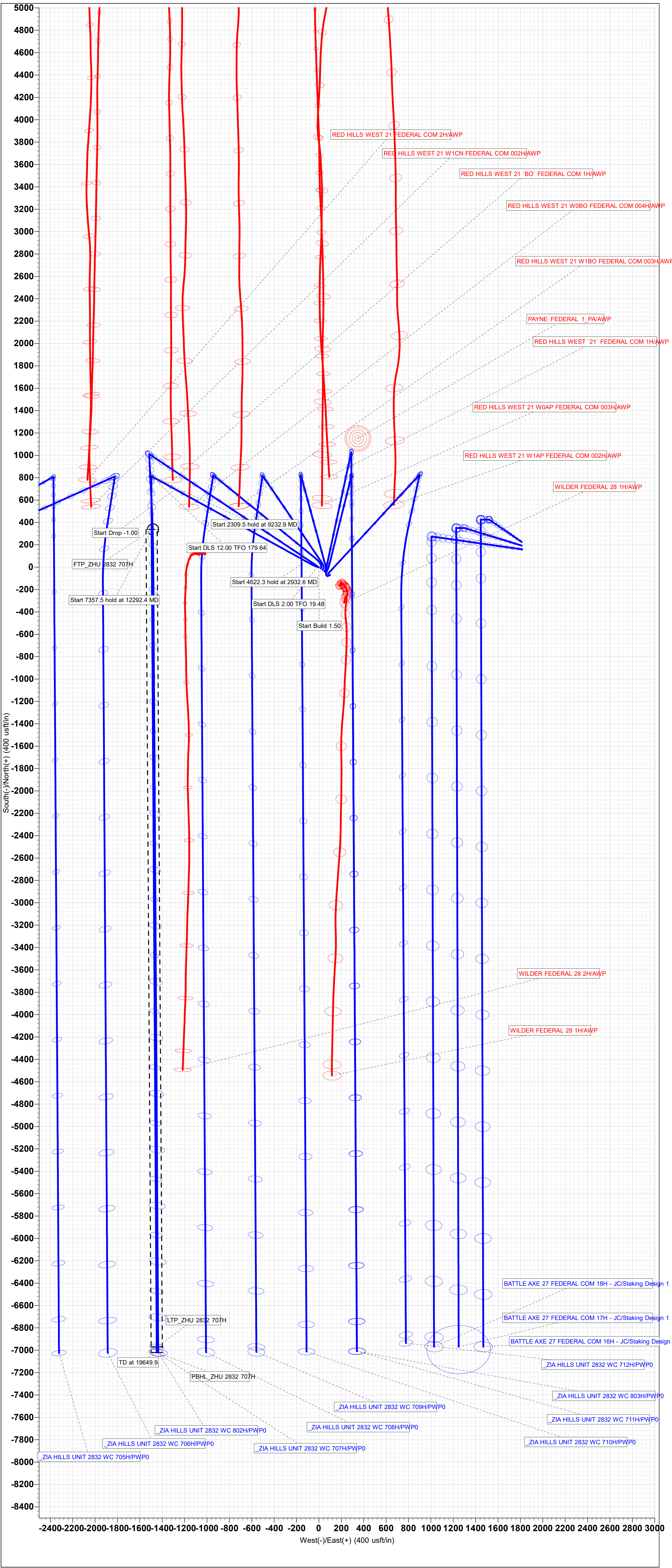
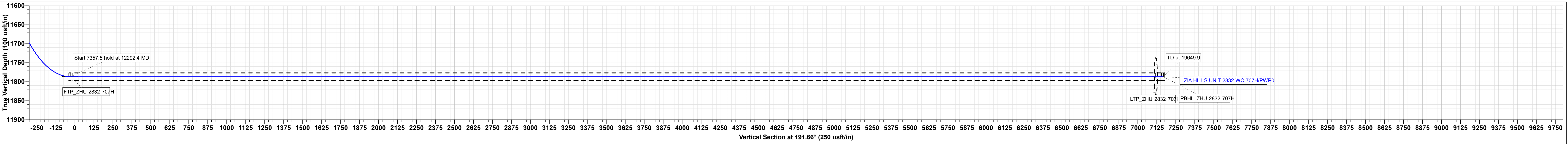
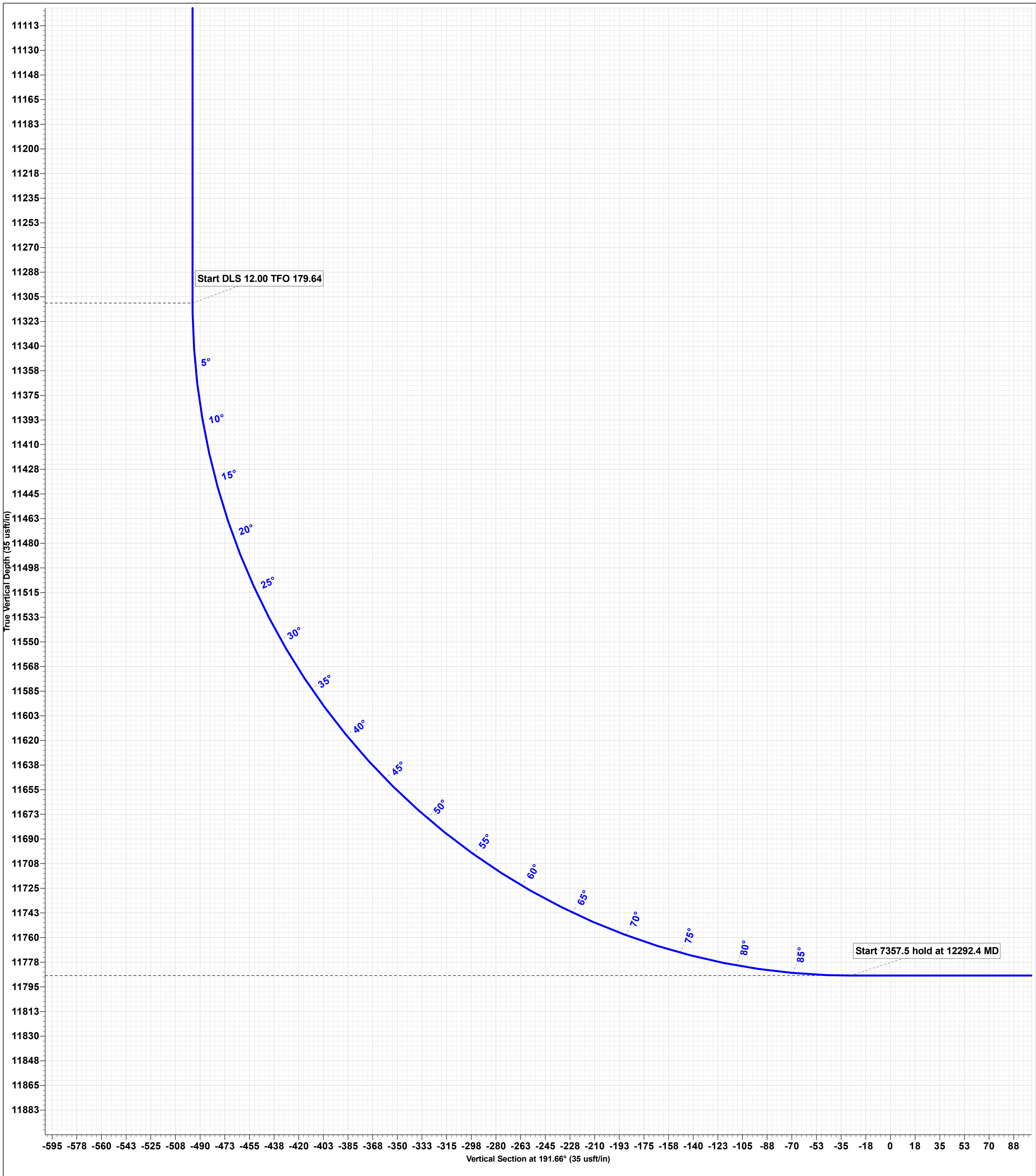
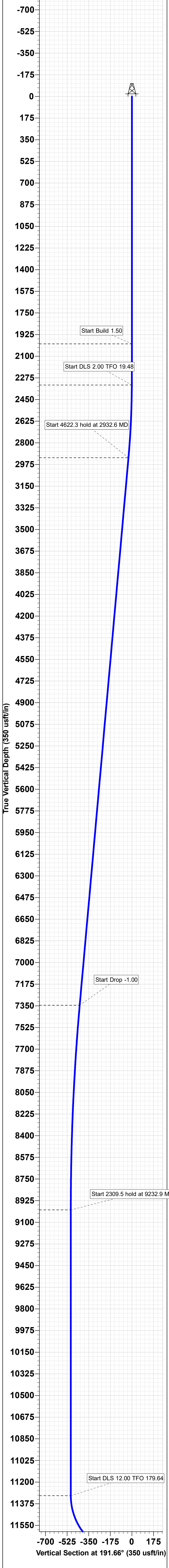
Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	19,649.9	11,787.0	5-1/2" Production Casing	5-1/2	6



Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2832 PROJECT
Well: ZIA HILLS UNIT 2832 WC 707H
Wellbore: OWB
Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0
2333.3	5.00	285.00	2332.9	3.8	-14.0	1.50	285.00	-0.8
2932.6	16.78	298.88	2920.4	52.5	-115.4	2.00	19.48	-28.1
7554.9	16.78	298.88	7345.9	697.0	-1283.9	0.00	0.00	-423.1
9232.9	0.00	0.00	9000.0	814.8	-1497.5	1.00	180.00	-495.4
11542.4	0.00	0.00	11309.5	814.8	-1497.5	0.00	0.00	-495.4
12292.4	90.00	179.64	11787.0	337.3	-1494.5	12.00	179.64	-28.4
19649.9	90.00	179.64	11787.0	-7020.0	-1448.6	0.00	0.00	7167.9



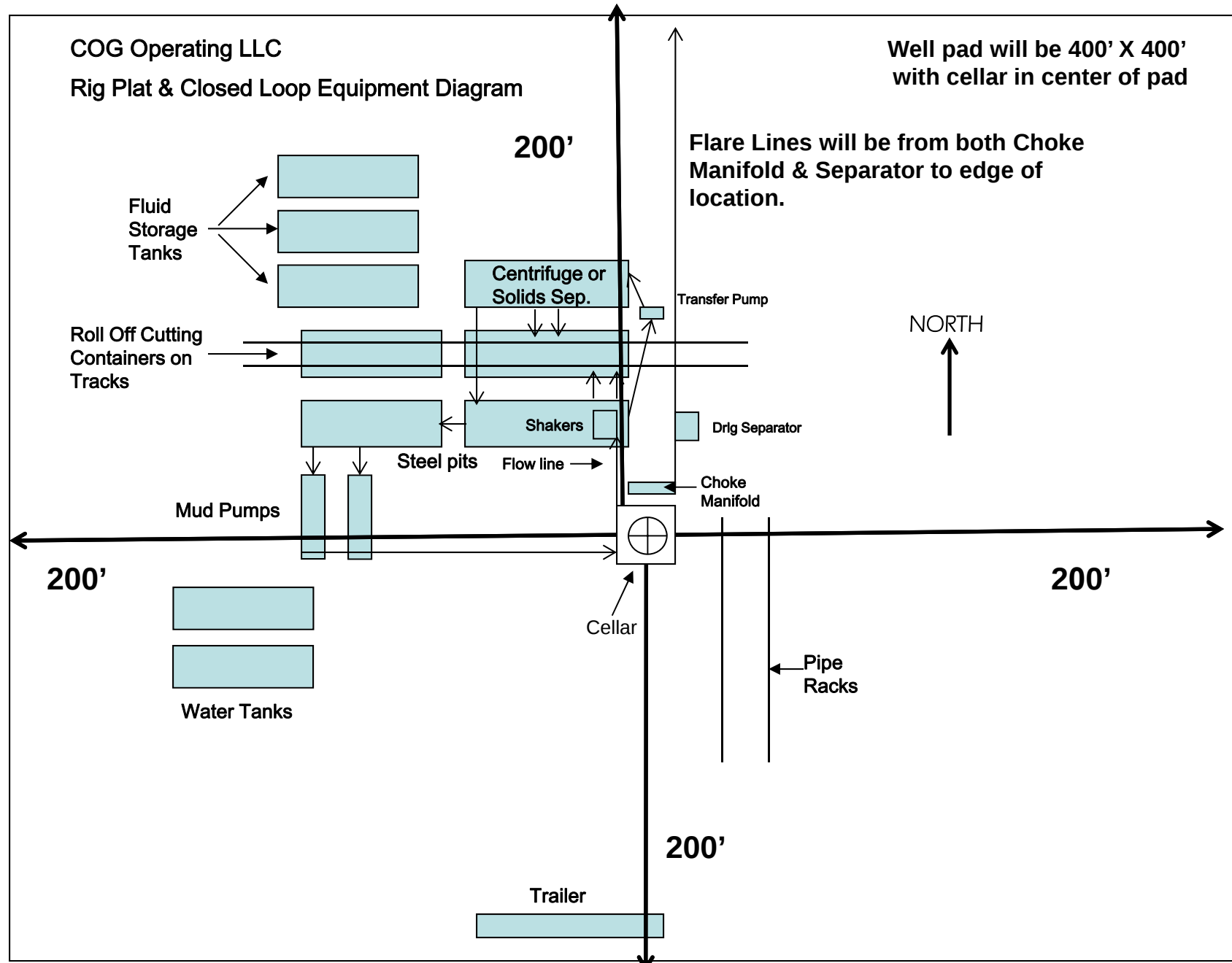


Exhibit 1

"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

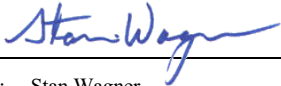
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

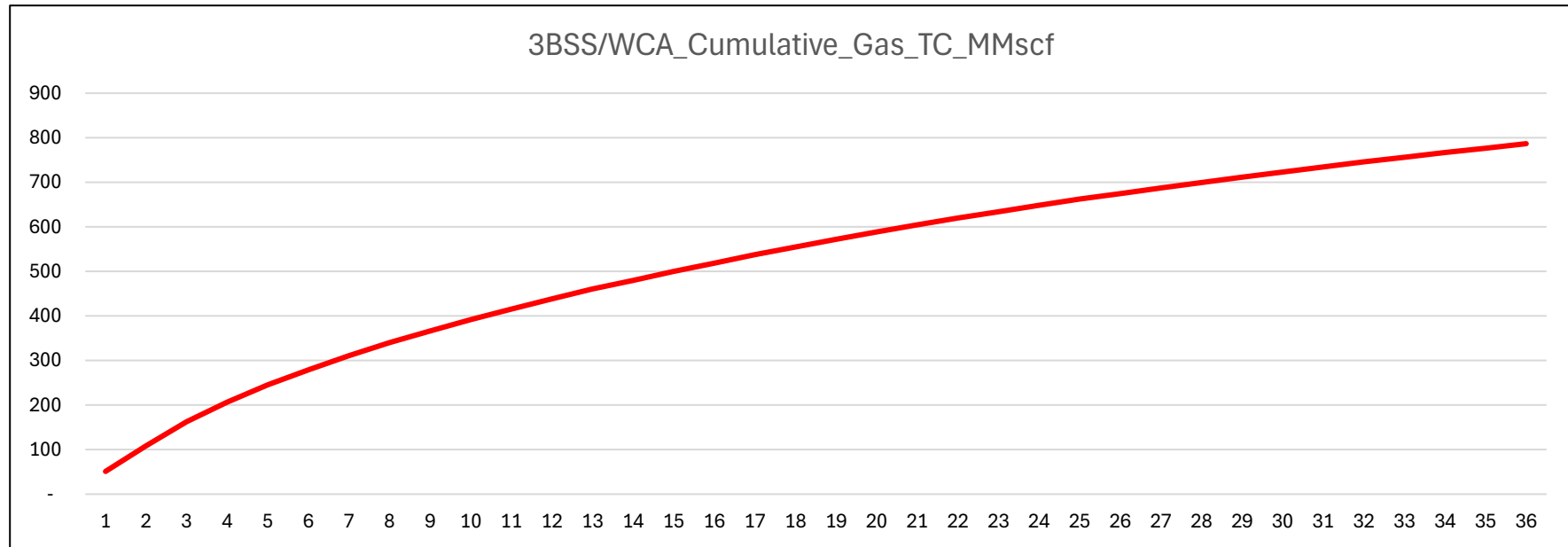
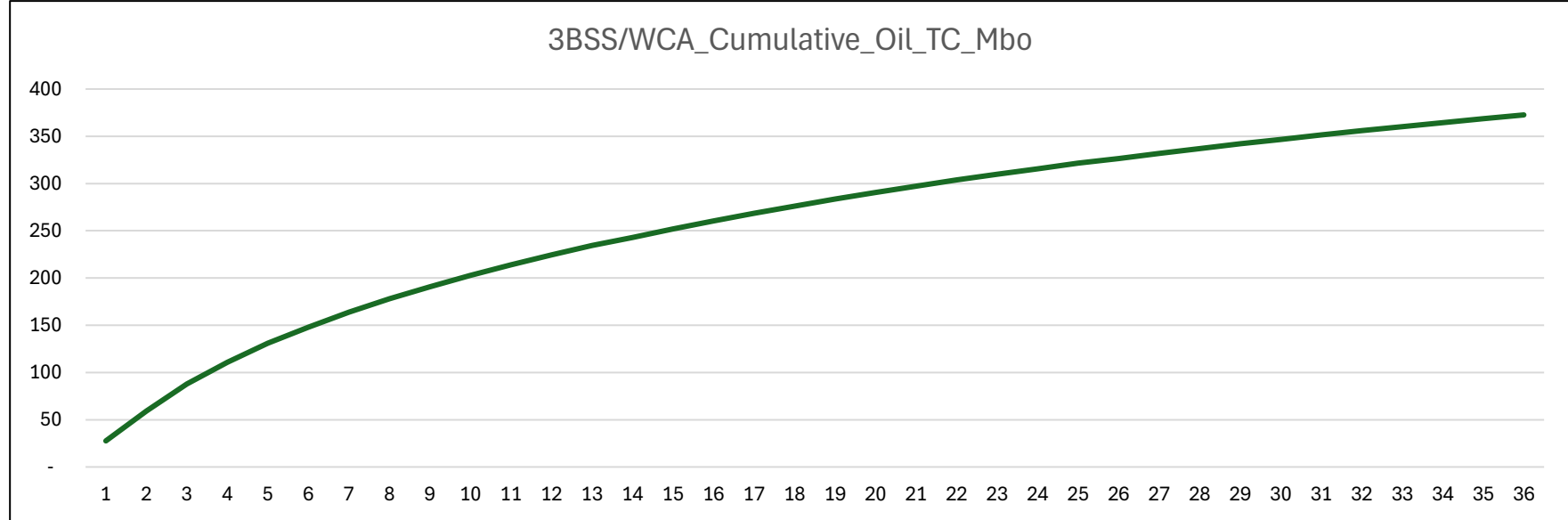
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize 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 707H
LOCATION:	Section 28, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **820 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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

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

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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

BOPE Break Testing Variance

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

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

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

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

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

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review.

These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the

cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.)

created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 7/2/2025

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 520254

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520254
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

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

Action 520254

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520254
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

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