

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. 30-025-55658
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 10/23/2025

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 366 FNL / 696 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019855 / LONG: -103.686363 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 2390 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020587 / LONG: -103.680898 (TVD: 12010 feet, MD: 12534 feet)

BHL: LOT 3 / 50 FSL / 2390 FWL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.000361 / LONG: -103.680892 (TVD: 12010 feet, MD: 19888 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- 55658	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 338328	Property Name ZIA HILLS UNIT 2832 WC	Well Number 706H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,160.45'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL D	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 366' FNL	Ft. from E/W 696' FWL	Latitude 32.019855°	Longitude -103.686363°	County LEA
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Bottom Hole Location

UL LOT 3	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 2,390' FWL	Latitude 32.000361°	Longitude -103.680892°	County LEA
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Dedicated Acres 898.92	Infill or Defining Well Infill	Defining Well API Pending 704H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL N	Section 21	Township 26S	Range 32E	Lot	Ft. from N/S 377' FSL	Ft. from E/W 2,500' FWL	Latitude 32.021898°	Longitude -103.680541°	County LEA
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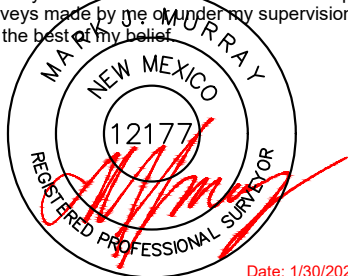
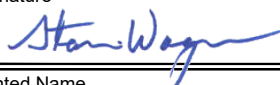
First Take Point (FTP)

UL C	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 2,390' FWL	Latitude 32.020587°	Longitude -103.680898°	County LEA
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Last Take Point (LTP)

UL LOT 3	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 2,390' FWL	Latitude 32.000499°	Longitude -103.680892°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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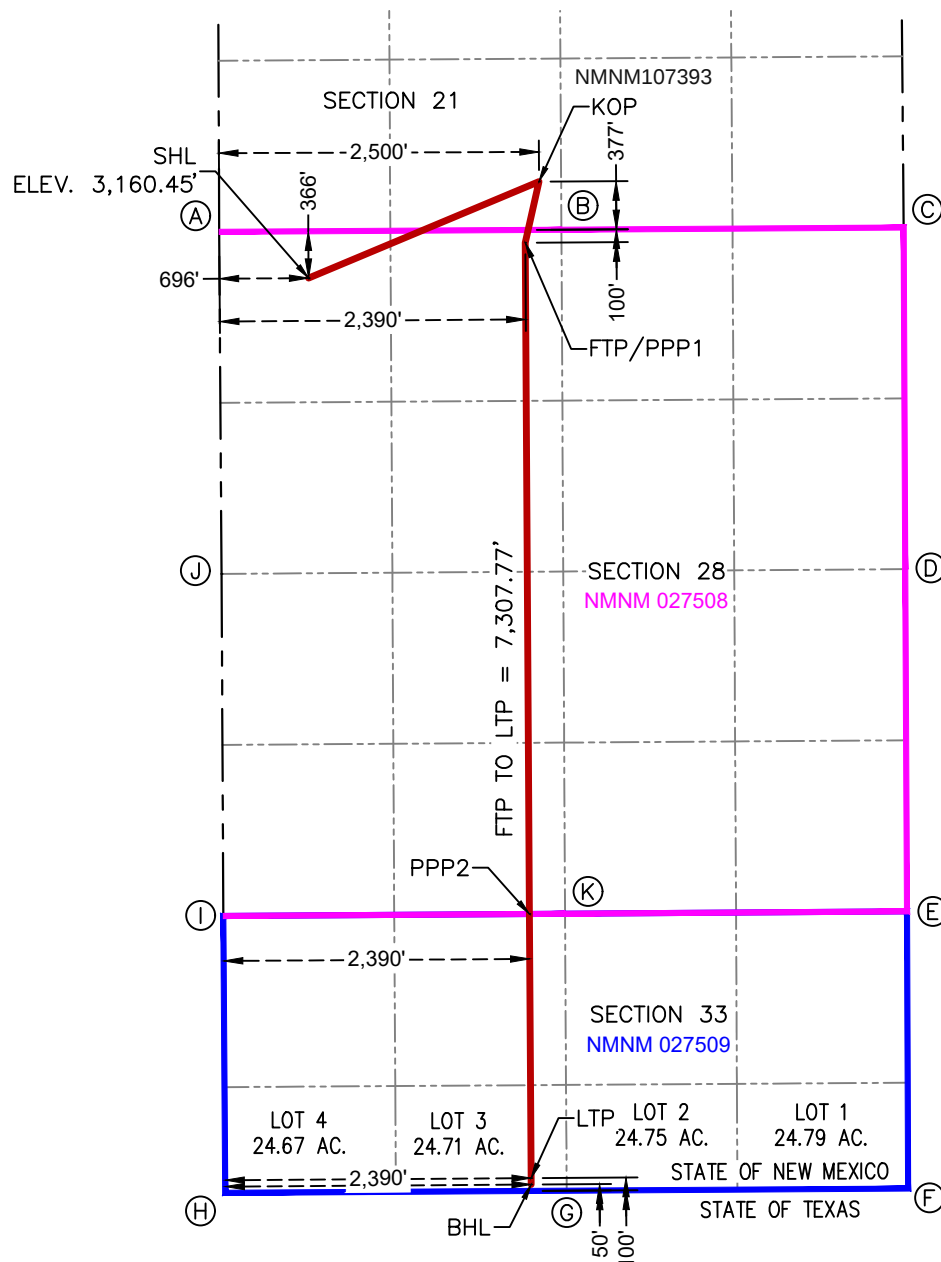
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 1/30/2025	
Signature 	Date 4/15/25	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner		Certificate Number 12177	Date of Survey 1/30/2025
Email Address			

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

ACREAGE DEDICATION PLATS

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

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



SURFACE HOLE LOCATION
366' FNL & 696' FWL
ELEV.=3,160.45'

NAD 83 X = 741,849.31'
NAD 83 Y = 371,562.39'
NAD 83 LAT = 32.019855°
NAD 83 LONG = -103.686363°

KICK-OFF POINT
377' FSL & 2,500' FWL
NAD 83 X = 743,649.15'
NAD 83 Y = 372,316.34'
NAD 83 LAT = 32.021898°
NAD 83 LONG = -103.680541°

FIRST TAKE POINT & PENETRATION POINT 1
100' FNL & 2,390' FWL
NAD 83 X = 743,541.44'
NAD 83 Y = 371,838.90'
NAD 83 LAT = 32.020587°
NAD 83 LONG = -103.680898°

PENETRATION POINT 2
0' FNL & 2,390' FWL
NAD 83 X = 743,573.34'
NAD 83 Y = 366,595.15'
NAD 83 LAT = 32.006172°
NAD 83 LONG = -103.680897°

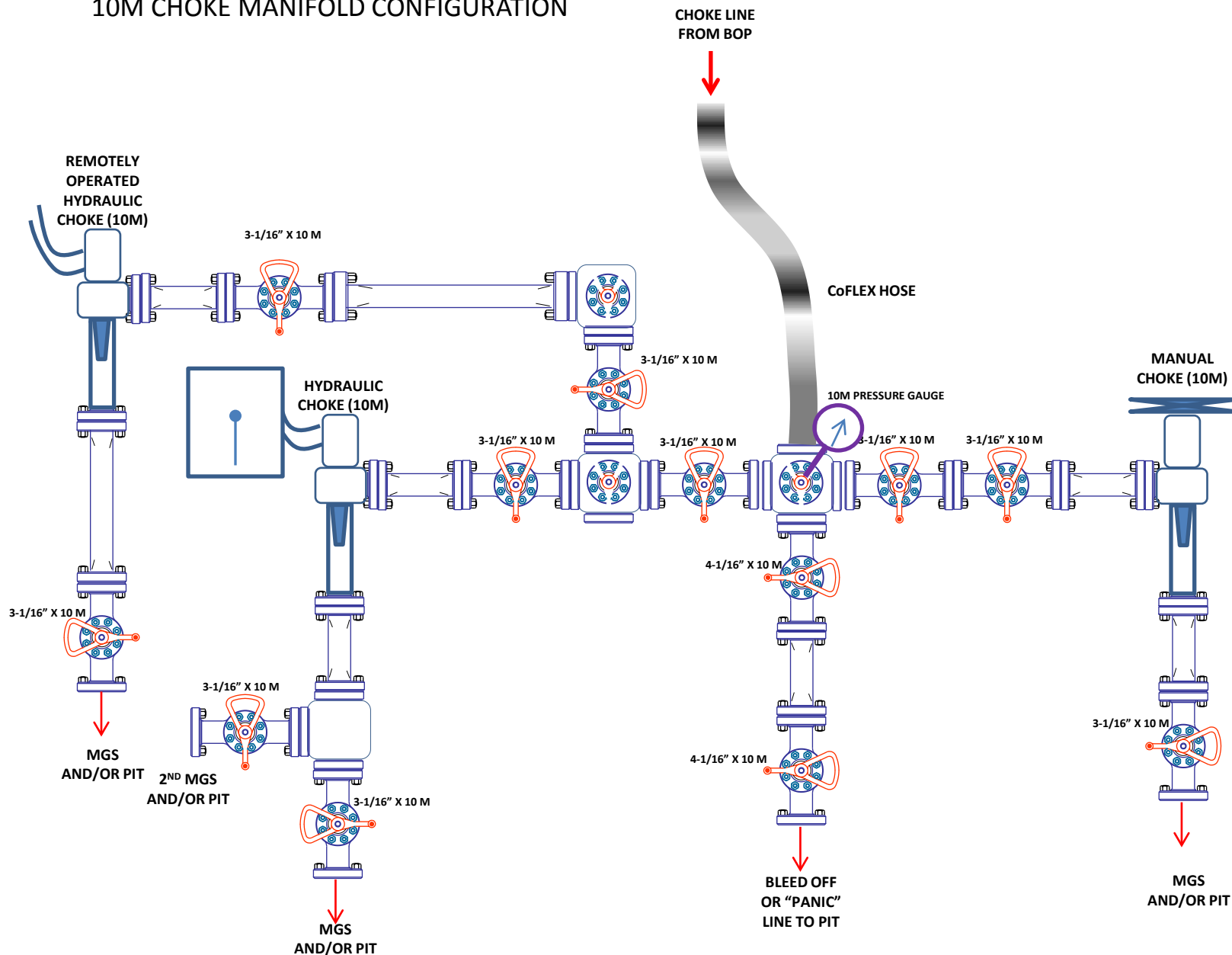
LAST TAKE POINT
100' FSL & 2,390' FWL
NAD 83 X = 743,587.31'
NAD 83 Y = 364,531.28'
NAD 83 LAT = 32.000499°
NAD 83 LONG = -103.680892°

BOTTOM HOLE LOCATION
50' FSL & 2,390' FWL
NAD 83 X = 743,587.65'
NAD 83 Y = 364,481.28'
NAD 83 LAT = 32.000361°
NAD 83 LONG = -103.680892°

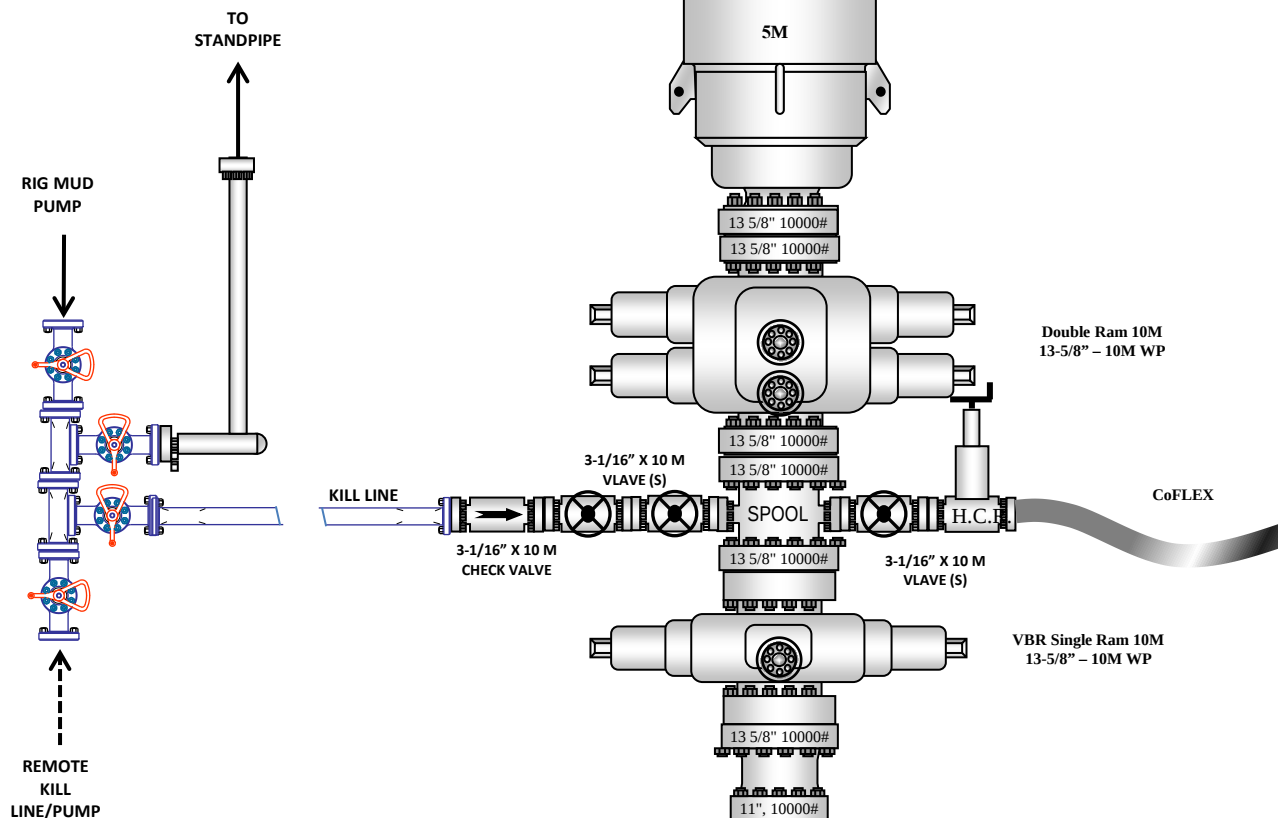
**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

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 706H

1. Geologic Formations

TVD of target	12,010' EOL	Pilot hole depth	NA
MD at TD:	19,888'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	961	Water	
Top of Salt	1292	Salt	
Base of Salt	3944	Salt	
Lamar	4396	Salt Water	
Bell Canyon	4409	Salt Water	
Cherry Canyon	5312	Oil/Gas	
Brushy Canyon	6805	Oil/Gas	
Bone Spring	8456	Oil/Gas	
1st Bone Spring Sand	9442	Oil/Gas	
2nd Bone Spring Sand	10109	Oil/Gas	
3rd Bone Spring Sand	11236	Oil/Gas	
Wolfcamp	11618	Oil/Gas	
Wolfcamp A	11819	Target	
Wolfcamp B	12164	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	1150	13.375"	54.5	J55	BTC	2.15	1.51	13.61	14.50
12.25"	0	4300	9.625"	40	L80-IC	BTC	1.73	1.27	5.33	5.51
8.75"	4100	11600	7.625"	29.7	P110-ICY	W513	1.22	1.53	3.10	1.86
6.75"	0	11400	5.5"	23	P110-CY	BTC	1.82	2.12	2.78	2.78
6.75"	11400	19,888	5.5"	23	P110-CY	W441	1.72	2.01	2.64	2.40
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 706H

	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 706H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	690	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	630	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	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	4,100'	20%
Production	11,100'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 706H

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 706H

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 706H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8435 psi at 12010' 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

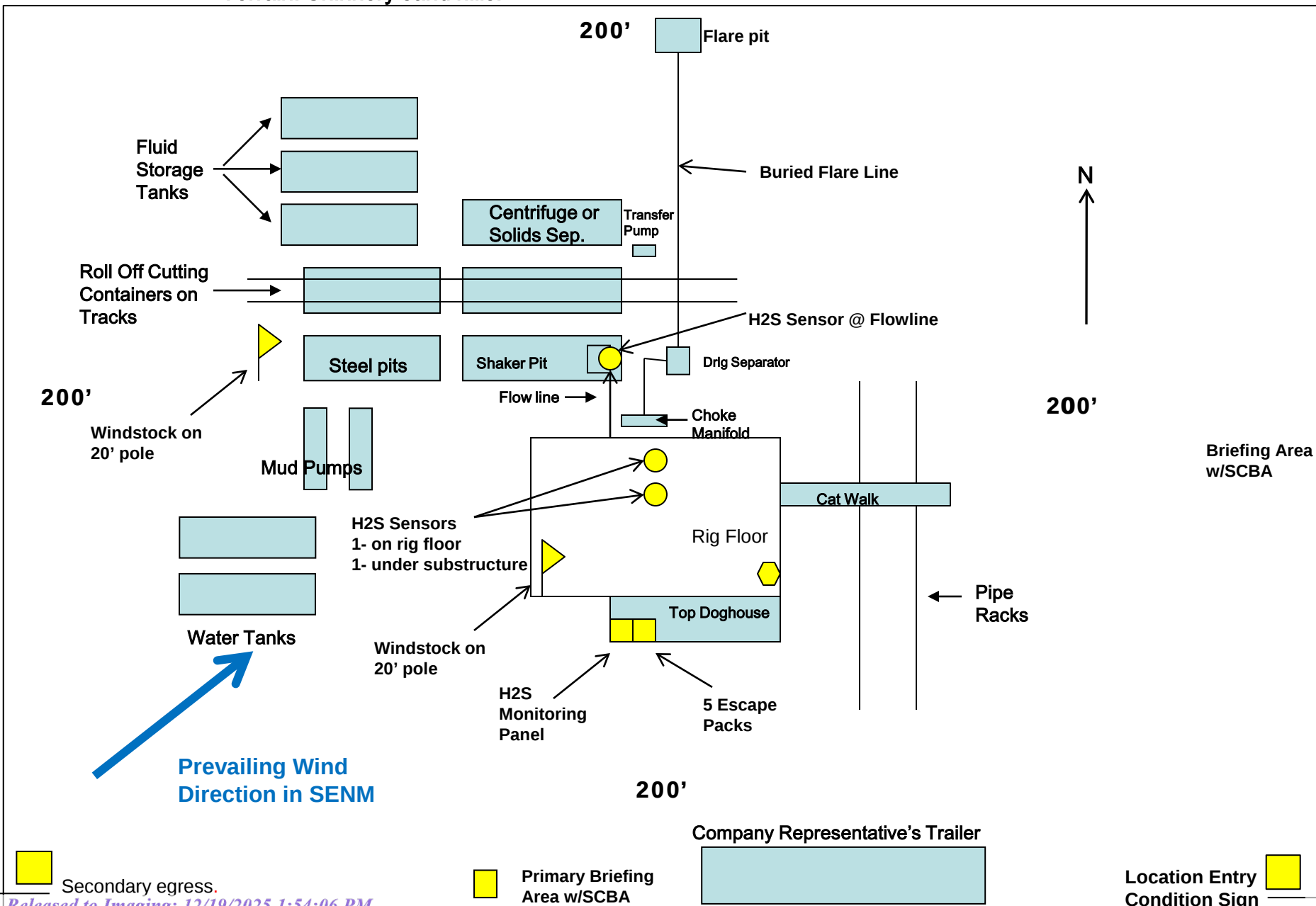
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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 706H

OWB

PWP0

Anticollision Report

26 February, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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	2/26/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	19,887.8	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
BATTLE AXE 27 FEDERAL COM 18H - JC						
BATTLE AXE 27 FEDERAL COM 18H - JC - Original Hol						Out of range
RED HILLS WEST						
RED HILLS WEST 21 DM FEDERAL COM #1H - OWB -						Out of range
RED HILLS WEST 21 W0DM FEDERAL COM #3H - OW						Out of range
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,176.2	2,183.6	357.7	342.6	23.678 CC	
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,200.0	2,206.5	357.8	342.6	23.512 ES	
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,900.0	2,899.3	406.9	388.1	21.697 SF	
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	2,923.1	2,962.8	247.1	228.8	13.482 CC, ES	
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	3,300.0	3,333.5	264.5	243.9	12.837 SF	
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP						Out of range
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,000.0	1,998.6	100.0	87.1	7.721 CC, ES	
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,100.0	2,096.6	101.2	88.0	7.656 SF	
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	2,000.0	1,999.2	80.0	67.0	6.177 CC, ES	
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	2,100.0	2,099.1	80.3	67.1	6.082 SF	
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	2,000.0	1,998.9	60.0	47.0	4.633 CC	
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	2,228.6	2,228.5	60.3	46.8	4.461 ES	
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	2,300.0	2,300.0	60.7	47.0	4.438 SF	
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0	2,409.9	2,411.1	34.1	20.2	2.459 Caution - Monitor Closely, CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	2,062.3	2,061.8	20.0	8.2	1.703 Caution - Monitor Closely, CC	
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	2,100.0	2,099.5	20.0	8.2	1.697 Caution - Monitor Closely, ES, SF	
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0	11,593.7	11,567.3	325.6	260.4	4.997 CC, ES	
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0	19,888.8	19,649.9	483.8	329.3	3.132 SF	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	12,412.6	12,470.7	867.0	799.4	12.830 CC	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0	19,888.8	19,812.8	878.5	719.6	5.528 ES, SF	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 711H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 712H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0	1,966.6	1,966.8	20.0	7.1	1.555 Caution - Monitor Closely, CC	
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0	2,000.0	2,000.2	20.0	7.0	1.544 Caution - Monitor Closely, ES, SF	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	11,773.3	11,744.5	365.9	294.9	5.158 CC, ES	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0	19,888.3	20,513.9	647.6	493.1	4.190 SF	
_ZIA HILLS UNIT 2832 WC 803H - OWB - PWP0						Out of range
RED HILLS WEST '21' DM FEDERAL COM 1H - OWB -						Out of range
RED HILLS WEST 21 'BO' FEDERAL COM 1H - OWB -	9,700.0	13,760.0	718.8	595.0	5.807 SF	
RED HILLS WEST 21 'BO' FEDERAL COM 1H - OWB -	9,744.9	13,760.0	717.4	594.6	5.842 CC, ES	
RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP	9,186.1	13,367.0	125.4	53.0	1.732 Caution - Monitor Closely, CC, ES, SF	
RED HILLS WEST 21 W0AP FEDERAL COM 003H - OW						Out of range
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW	12,031.7	16,629.4	680.6	546.0	5.057 CC, ES	
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW	12,050.0	16,640.2	680.8	546.0	5.051 SF	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	12,300.0	16,790.0	770.4	638.6	5.846 SF	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	12,350.0	16,790.0	768.1	637.0	5.860 ES	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	12,384.5	16,790.0	767.6	637.2	5.887 CC	
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW						Out of range
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,350.0	16,960.0	194.6	65.0	1.501 Caution - Monitor Closely, ES, SF	
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,374.3	16,960.0	192.8	67.5	1.539 Caution - Monitor Closely, CC	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O						Out of range
RED HILLS WEST 21 W1DM FEDERAL COM 003H - O						Out of range
WILDER FEDERAL 28 2H - OWB - AWP						Out of range
WILDER FEDERAL AC COM 28 3H - OWB - AWP	6,600.0	6,488.5	168.3	140.1	5.967 SF	
WILDER FEDERAL AC COM 28 3H - OWB - AWP	6,775.6	6,659.1	162.6	136.2	6.147 CC, ES	

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 141-MWD - OWSG R1													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	9.4	3.0	3.0	-84.66	34.2	-366.0	367.7				
100.0	100.0	89.6	99.0	3.1	3.0	-84.68	34.1	-366.2	367.7	360.9	6.84	53.754	
200.0	200.0	189.2	198.6	3.3	3.0	-84.72	33.9	-366.5	368.1	361.0	7.09	51.889	
300.0	300.0	289.2	298.6	3.6	3.1	-84.80	33.4	-367.0	368.5	361.1	7.38	49.930	
400.0	400.0	389.5	398.9	3.8	3.2	-85.00	32.2	-367.4	368.8	361.1	7.69	47.948	
500.0	500.0	490.1	499.5	4.0	3.3	-85.37	29.8	-367.9	369.1	361.0	8.03	45.970	
600.0	600.0	590.3	599.6	4.1	3.5	-85.93	26.2	-368.2	369.2	360.8	8.38	44.028	
700.0	700.0	687.3	696.5	4.3	3.7	-86.57	22.1	-368.9	369.6	360.9	8.75	42.224	
800.0	800.0	786.2	795.3	4.5	3.9	-87.26	17.8	-370.3	370.8	361.6	9.14	40.556	
900.0	900.0	875.7	884.7	4.7	4.1	-87.87	13.9	-372.8	373.4	363.8	9.52	39.231	
1,000.0	1,000.0	972.2	981.0	4.8	4.4	-88.46	10.2	-377.5	378.2	368.4	9.76	38.740	
1,100.0	1,100.0	1,071.3	1,079.9	5.0	4.7	-88.81	7.9	-382.7	383.3	373.1	10.18	37.659	
1,200.0	1,200.0	1,185.6	1,194.2	5.2	5.0	-88.70	8.8	-386.5	386.7	376.0	10.64	36.345	
1,300.0	1,300.0	1,293.8	1,302.1	5.3	5.3	-87.67	15.7	-386.7	387.0	375.9	11.07	34.957	
1,400.0	1,400.0	1,402.3	1,409.9	5.5	5.5	-85.81	28.2	-384.6	385.8	374.3	11.51	33.522	
1,500.0	1,500.0	1,510.4	1,516.9	5.6	5.9	-83.63	42.3	-379.1	381.8	369.9	11.96	31.933	
1,600.0	1,600.0	1,610.4	1,615.9	5.8	6.2	-81.62	55.0	-373.1	377.4	365.0	12.40	30.431	
1,700.0	1,700.0	1,710.0	1,714.6	5.9	6.5	-79.66	67.0	-367.1	373.4	360.6	12.86	29.037	
1,800.0	1,800.0	1,810.3	1,814.0	6.0	6.8	-77.75	78.3	-360.9	369.6	356.2	13.33	27.731	
1,900.0	1,900.0	1,912.6	1,915.5	6.2	7.1	-75.78	89.7	-354.1	365.6	351.8	13.81	26.478	
2,000.0	2,000.0	2,012.3	2,014.3	6.3	7.5	-73.85	100.5	-346.9	361.4	347.1	14.29	25.293	
2,100.0	2,100.0	2,110.0	2,111.3	6.5	7.8	118.20	110.4	-340.2	358.5	343.7	14.76	24.286	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		141-MWD - OWSG R1						Rule Assigned:				Offset Well Error:	3.0 usft	
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)				
2,176.2	2,176.1	2,183.6	2,184.4	6.6	8.1	119.89	117.5	-335.6	357.7	342.6	15.11	23.678 CC		
2,200.0	2,199.9	2,206.5	2,207.2	6.6	8.1	120.44	119.7	-334.3	357.8	342.6	15.22	23.512 ES		
2,300.0	2,299.7	2,304.3	2,304.5	6.8	8.5	122.73	127.5	-329.5	359.6	343.9	15.69	22.925		
2,333.3	2,332.9	2,336.5	2,336.6	6.8	8.6	123.43	129.4	-328.3	360.7	344.9	15.81	22.809		
2,400.0	2,399.4	2,401.0	2,401.1	6.9	8.8	139.50	132.5	-326.4	363.8	347.7	16.10	22.595		
2,500.0	2,499.1	2,501.8	2,501.8	7.0	9.1	166.83	135.6	-324.3	369.9	353.3	16.59	22.290		
2,600.0	2,598.7	2,602.4	2,602.3	7.2	9.5	-169.94	138.0	-322.1	377.2	360.0	17.11	22.046		
2,700.0	2,698.2	2,702.5	2,702.4	7.4	9.8	-154.76	139.7	-320.2	385.6	367.9	17.65	21.847		
2,800.0	2,797.4	2,801.3	2,801.2	7.6	10.1	-145.68	140.7	-318.6	395.4	377.2	18.20	21.723		
2,900.0	2,896.2	2,899.3	2,899.1	7.7	10.5	-140.36	141.3	-317.4	406.9	388.1	18.75	21.697 SF		
3,000.0	2,994.5	2,997.0	2,996.9	7.9	10.8	-137.32	142.0	-316.4	420.2	400.9	19.31	21.758		
3,100.0	3,092.1	3,094.8	3,094.7	8.2	11.1	-135.80	142.4	-315.7	435.6	415.7	19.89	21.905		
3,162.7	3,152.9	3,156.8	3,156.7	8.3	11.3	-135.41	142.6	-315.1	446.2	426.0	20.23	22.061		
3,200.0	3,189.0	3,192.9	3,192.8	8.4	11.4	-136.21	142.7	-314.8	452.8	432.3	20.42	22.173		
3,300.0	3,285.8	3,289.8	3,289.7	8.6	11.8	-138.22	143.1	-313.8	470.8	449.8	21.00	22.423		
3,400.0	3,382.5	3,387.3	3,387.2	8.9	12.1	-140.09	143.6	-312.8	489.3	467.7	21.59	22.661		
3,500.0	3,479.3	3,482.3	3,482.2	9.2	12.4	-141.77	144.2	-311.8	508.3	486.2	22.19	22.908		
3,600.0	3,576.0	3,575.6	3,575.4	9.5	12.7	-143.39	144.1	-311.7	528.6	505.8	22.79	23.196		
3,700.0	3,672.8	3,673.9	3,673.8	9.9	13.0	-145.00	143.8	-311.8	549.4	526.0	23.42	23.461		
3,800.0	3,769.5	3,775.2	3,775.1	10.2	13.4	-146.59	143.0	-311.3	569.9	545.9	24.08	23.671		
3,900.0	3,866.3	3,875.2	3,875.0	10.6	13.7	-148.02	142.3	-310.1	590.2	565.4	24.75	23.850		
4,000.0	3,963.0	3,973.4	3,973.2	10.9	14.0	-149.35	141.4	-308.6	610.4	585.0	25.42	24.015		
4,100.0	4,059.7	4,074.7	4,074.5	11.3	14.4	-150.67	140.0	-306.8	630.6	604.5	26.11	24.148		
4,200.0	4,156.5	4,172.1	4,171.8	11.7	14.7	-151.87	138.5	-304.5	650.5	623.7	26.80	24.271		
4,300.0	4,253.2	4,263.5	4,263.2	12.1	15.0	-152.93	137.2	-302.7	671.1	643.7	27.47	24.434		
4,400.0	4,350.0	4,359.4	4,359.0	12.5	15.4	-153.97	135.9	-301.6	692.7	664.5	28.16	24.595		
4,500.0	4,446.7	4,453.4	4,453.0	12.9	15.7	-154.91	134.9	-300.5	714.6	685.9	28.68	24.910		
4,600.0	4,543.5	4,541.4	4,541.0	13.3	16.0	-155.69	134.6	-300.3	737.4	708.0	29.34	25.128		
4,700.0	4,640.2	4,631.7	4,631.4	13.7	16.3	-156.35	135.5	-301.0	761.4	731.4	30.02	25.363		
4,800.0	4,737.0	4,727.1	4,726.7	14.1	16.6	-156.96	137.0	-302.3	786.0	755.3	30.73	25.575		
4,900.0	4,833.7	4,825.1	4,824.7	14.5	16.9	-157.56	138.5	-303.5	810.6	779.2	31.47	25.759		
5,000.0	4,930.5	4,920.5	4,920.1	15.0	17.3	-158.11	139.9	-304.7	835.3	803.1	32.19	25.946		
5,100.0	5,027.2	5,016.4	5,016.0	15.4	17.6	-158.63	141.2	-306.0	860.2	827.2	32.93	26.124		
5,200.0	5,124.0	5,113.4	5,113.0	15.8	17.9	-159.15	142.4	-307.3	885.1	851.4	33.67	26.287		
5,300.0	5,220.7	5,210.4	5,209.9	16.3	18.2	-159.63	143.7	-308.6	910.1	875.6	34.42	26.439		
5,400.0	5,317.4	5,304.1	5,303.6	16.7	18.6	-160.07	144.9	-309.9	935.2	900.0	35.15	26.604		
5,500.0	5,414.2	5,400.5	5,400.1	17.2	18.9	-160.51	145.9	-311.5	960.5	924.6	35.91	26.752		
5,600.0	5,510.9	5,499.3	5,498.8	17.6	19.2	-160.93	147.1	-312.9	985.8	949.1	36.68	26.876		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 174-MWD - OWSG R1													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	7.4	3.0	0.0	-77.12	83.9	-366.9	376.4				
100.0	100.0	90.6	98.0	3.1	0.1	-77.11	84.0	-367.1	376.6	371.4	5.15	73.061	
200.0	200.0	188.5	195.9	3.3	0.3	-77.09	84.3	-367.9	377.4	371.9	5.49	68.747	
300.0	300.0	287.8	295.2	3.6	0.7	-77.10	84.5	-369.0	378.6	372.8	5.86	64.633	
400.0	400.0	388.2	395.5	3.8	1.0	-77.19	84.2	-370.4	379.9	373.6	6.25	60.779	
500.0	500.0	488.2	495.6	4.0	1.4	-77.33	83.6	-371.7	381.0	374.3	6.66	57.208	
600.0	600.0	588.8	596.1	4.1	1.8	-77.57	82.2	-373.1	382.1	375.0	7.09	53.930	
700.0	700.0	688.6	695.9	4.3	2.1	-77.91	80.2	-374.6	383.1	375.6	7.52	50.940	
800.0	800.0	786.4	793.7	4.5	2.5	-78.25	78.3	-376.4	384.5	376.5	7.96	48.282	
900.0	900.0	878.0	885.2	4.7	2.8	-78.60	76.5	-379.3	387.2	378.8	8.40	46.123	
1,000.0	1,000.0	968.4	975.5	4.8	3.1	-78.96	75.0	-384.3	392.3	383.7	8.67	45.254	
1,100.0	1,100.0	1,071.4	1,078.2	5.0	3.5	-79.39	73.3	-390.9	398.3	389.2	9.15	43.539	
1,200.0	1,200.0	1,198.7	1,205.4	5.2	4.0	-80.00	69.5	-394.3	400.4	390.7	9.71	41.252	
1,300.0	1,300.0	1,321.4	1,328.0	5.3	4.4	-80.39	65.9	-389.4	396.0	385.7	10.21	38.769	
1,400.0	1,400.0	1,432.7	1,438.8	5.5	4.7	-80.50	63.6	-380.0	387.2	376.5	10.68	36.239	
1,500.0	1,500.0	1,540.6	1,546.0	5.6	5.1	-80.42	62.1	-367.9	375.9	364.8	11.15	33.716	
1,600.0	1,600.0	1,644.3	1,648.9	5.8	5.4	-80.20	61.2	-354.5	363.0	351.4	11.62	31.255	
1,700.0	1,700.0	1,742.7	1,746.4	5.9	5.8	-79.96	60.4	-341.3	349.7	337.6	12.09	28.933	
1,800.0	1,800.0	1,839.3	1,842.1	6.0	6.1	-79.71	59.7	-328.7	336.8	324.2	12.56	26.817	
1,900.0	1,900.0	1,936.3	1,938.4	6.2	6.5	-79.34	59.7	-316.9	324.7	311.7	13.04	24.909	
2,000.0	2,000.0	2,037.1	2,038.5	6.3	6.9	-78.75	60.5	-304.4	312.7	299.2	13.52	23.134	
2,100.0	2,100.0	2,139.8	2,140.3	6.5	7.2	112.35	61.5	-290.8	300.4	286.4	13.99	21.477	
2,200.0	2,199.9	2,242.3	2,241.6	6.6	7.6	114.00	62.0	-275.9	287.9	273.4	14.44	19.932	
2,300.0	2,299.7	2,341.3	2,339.5	6.8	8.0	116.13	61.9	-261.0	276.0	261.0	14.91	18.504	
2,333.3	2,332.9	2,373.6	2,371.5	6.8	8.2	116.87	61.5	-256.3	272.4	257.4	15.05	18.102	
2,400.0	2,399.4	2,436.8	2,434.1	6.9	8.4	132.79	60.2	-247.6	266.3	251.0	15.35	17.349	
2,500.0	2,499.1	2,532.2	2,528.8	7.0	8.8	160.04	58.3	-236.1	260.5	244.6	15.86	16.418	
2,600.0	2,598.7	2,633.9	2,629.7	7.2	9.2	-176.17	58.8	-223.8	257.2	240.8	16.40	15.681	
2,700.0	2,698.2	2,739.9	2,734.5	7.4	9.6	-159.79	61.4	-207.8	253.7	236.7	16.98	14.937	
2,800.0	2,797.4	2,843.5	2,836.6	7.6	10.0	-149.78	63.0	-190.4	249.8	232.2	17.58	14.206	
2,900.0	2,896.2	2,940.8	2,932.6	7.7	10.4	-144.58	61.0	-175.0	247.2	229.0	18.19	13.591	
2,923.1	2,919.0	2,962.8	2,954.3	7.8	10.5	-143.91	60.1	-172.0	247.1	228.8	18.33	13.482 CC, ES	
3,000.0	2,994.5	3,037.4	3,028.2	7.9	10.8	-142.62	56.9	-162.1	248.0	229.2	18.79	13.198	
3,100.0	3,092.1	3,137.7	3,127.5	8.2	11.2	-142.46	53.1	-148.9	251.6	232.2	19.40	12.966	
3,162.7	3,152.9	3,199.5	3,188.8	8.3	11.5	-142.79	51.6	-140.2	254.9	235.1	19.77	12.897	
3,200.0	3,189.0	3,236.1	3,225.0	8.4	11.6	-143.85	51.3	-135.1	257.3	237.3	19.98	12.881	
3,300.0	3,285.8	3,333.5	3,321.4	8.6	12.0	-146.36	51.6	-121.4	264.5	243.9	20.60	12.837 SF	
3,400.0	3,382.5	3,429.6	3,416.7	8.9	12.4	-148.66	52.1	-108.6	273.0	251.8	21.25	12.850	
3,500.0	3,479.3	3,523.8	3,510.2	9.2	12.8	-150.87	52.3	-97.5	283.4	261.5	21.90	12.941	
3,600.0	3,576.0	3,621.9	3,607.7	9.5	13.2	-152.92	53.1	-86.9	295.1	272.6	22.57	13.079	
3,700.0	3,672.8	3,724.7	3,709.8	9.9	13.6	-154.58	55.6	-75.1	306.7	283.4	23.26	13.185	
3,800.0	3,769.5	3,826.3	3,810.5	10.2	14.0	-156.01	58.6	-62.3	317.4	293.4	23.97	13.242	
3,900.0	3,866.3	3,924.0	3,907.5	10.6	14.4	-157.45	60.5	-49.9	328.1	303.4	24.68	13.295	
4,000.0	3,963.0	4,020.9	4,003.6	10.9	14.8	-158.98	61.4	-38.0	339.5	314.1	25.39	13.370	
4,100.0	4,059.7	4,118.3	4,100.3	11.3	15.1	-160.54	61.4	-26.6	351.7	325.6	26.12	13.463	
4,200.0	4,156.5	4,215.0	4,196.4	11.7	15.5	-162.06	60.9	-15.5	364.6	337.8	26.86	13.575	
4,300.0	4,253.2	4,311.2	4,292.1	12.1	15.9	-163.31	61.4	-5.5	378.5	350.9	27.60	13.716	
4,400.0	4,350.0	4,412.9	4,393.2	12.5	16.3	-164.24	63.9	5.1	392.4	364.0	28.36	13.835	
4,500.0	4,446.7	4,515.9	4,495.4	12.9	16.7	-165.16	66.3	16.8	405.4	376.5	28.97	13.996	
4,600.0	4,543.5	4,618.1	4,596.9	13.3	17.1	-166.11	68.2	29.2	417.9	388.2	29.75	14.047	
4,700.0	4,640.2	4,720.0	4,697.9	13.7	17.5	-167.04	69.9	42.6	429.5	399.0	30.54	14.063	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 174-MWD - OWSG R1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,800.0	4,737.0	4,816.7	4,793.7	14.1	17.9	-167.90	71.3	55.4	441.2	409.8	31.32	14.086		
4,900.0	4,833.7	4,912.4	4,888.7	14.5	18.3	-168.69	72.7	67.3	453.7	421.6	32.09	14.136		
5,000.0	4,930.5	5,011.3	4,986.9	15.0	18.7	-169.44	74.3	79.1	466.7	433.8	32.89	14.192		
5,100.0	5,027.2	5,109.8	5,084.6	15.4	19.1	-170.13	76.0	91.0	479.8	446.1	33.68	14.245		
5,200.0	5,124.0	5,207.1	5,181.3	15.8	19.5	-170.85	77.0	102.6	493.1	458.6	34.47	14.304		
5,300.0	5,220.7	5,304.0	5,277.4	16.3	19.9	-171.66	76.8	114.1	506.9	471.6	35.27	14.373		
5,400.0	5,317.4	5,398.7	5,371.5	16.7	20.3	-172.40	76.6	124.8	521.4	485.3	36.05	14.460		
5,500.0	5,414.2	5,496.5	5,468.8	17.2	20.7	-173.09	76.5	135.3	536.4	499.6	36.86	14.554		
5,600.0	5,510.9	5,593.5	5,565.3	17.6	21.0	-173.71	76.6	145.5	551.7	514.1	37.66	14.651		
5,700.0	5,607.7	5,692.4	5,663.6	18.1	21.4	-174.29	76.8	155.6	567.3	528.8	38.47	14.744		
5,800.0	5,704.4	5,808.0	5,778.4	18.5	21.9	-174.94	77.5	169.3	581.3	541.9	39.39	14.757		
5,900.0	5,801.2	5,913.9	5,883.2	19.0	22.3	-175.59	78.1	184.2	593.2	553.0	40.25	14.737		
6,000.0	5,897.9	6,010.7	5,979.0	19.4	22.7	-176.21	78.3	198.2	605.0	563.9	41.07	14.729		
6,100.0	5,994.7	6,105.2	6,072.6	19.9	23.1	-176.80	78.1	211.4	617.4	575.5	41.89	14.741		
6,200.0	6,091.4	6,201.3	6,167.8	20.3	23.5	-177.40	77.5	224.2	630.6	587.9	42.70	14.768		
6,300.0	6,188.2	6,304.0	6,269.6	20.8	24.0	-177.97	77.4	237.9	643.9	600.3	43.56	14.780		
6,400.0	6,284.9	6,406.1	6,370.7	21.3	24.4	-178.45	78.2	251.9	656.3	611.9	44.41	14.777		
6,500.0	6,381.7	6,501.4	6,465.1	21.7	24.8	-178.89	78.8	264.9	669.0	623.7	45.23	14.790		
6,600.0	6,478.4	6,594.5	6,557.5	22.2	25.2	-179.28	79.3	276.9	682.4	636.4	46.04	14.824		
6,700.0	6,575.2	6,687.4	6,649.7	22.7	25.5	-179.66	79.5	288.1	696.8	650.0	46.83	14.878		
6,800.0	6,671.9	6,780.5	6,742.2	23.1	25.9	-179.96	79.3	298.6	712.0	664.4	47.63	14.948		
6,900.0	6,768.6	6,870.4	6,831.6	23.6	26.3	-179.59	78.5	308.2	728.2	679.8	48.40	15.043		
7,000.0	6,865.4	6,956.7	6,917.5	24.1	26.6	-179.27	77.4	316.1	745.8	696.7	49.14	15.179		
7,100.0	6,962.1	7,041.6	7,002.2	24.6	26.9	-179.03	76.5	322.4	765.1	715.2	49.85	15.349		
7,200.0	7,058.9	7,121.3	7,081.8	25.0	27.2	-178.89	75.9	326.2	786.5	736.0	50.48	15.578		
7,300.0	7,155.6	7,210.0	7,170.5	25.5	27.5	-178.82	75.6	328.7	809.5	758.3	51.20	15.809		
7,400.0	7,252.4	7,304.0	7,264.4	26.0	27.8	-178.79	75.4	330.5	833.2	781.2	51.98	16.030		
7,500.0	7,349.1	7,399.6	7,360.1	26.5	28.1	-178.75	75.0	332.1	857.2	804.4	52.77	16.244		
7,600.0	7,445.9	7,500.0	7,460.4	26.9	28.5	-178.73	74.8	333.8	881.0	827.4	53.61	16.434		
7,700.0	7,542.6	7,600.4	7,560.8	27.4	28.8	-178.74	75.2	335.7	904.5	850.1	54.46	16.610		
7,800.0	7,639.4	7,694.0	7,654.4	27.9	29.1	-178.78	76.0	337.2	928.0	872.8	55.23	16.804		
7,900.0	7,736.1	7,785.8	7,746.2	28.4	29.4	-178.84	76.9	338.1	952.1	896.1	55.98	17.009		
8,000.0	7,832.9	7,882.6	7,843.0	28.9	29.8	-178.89	77.7	338.8	976.4	919.6	56.78	17.196		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	1.4	3.0	3.0	-90.36	-0.6	-100.0	100.0				
100.0	100.0	98.6	100.0	3.1	3.1	-90.36	-0.6	-100.0	100.0	93.4	6.62	15.111	
200.0	200.0	198.6	200.0	3.3	3.3	-90.36	-0.6	-100.0	100.0	92.9	7.07	14.150	
300.0	300.0	298.6	300.0	3.6	3.6	-90.36	-0.6	-100.0	100.0	92.5	7.49	13.345	
400.0	400.0	398.6	400.0	3.8	3.8	-90.36	-0.6	-100.0	100.0	92.1	7.90	12.661	
500.0	500.0	498.6	500.0	4.0	4.0	-90.36	-0.6	-100.0	100.0	91.7	8.29	12.069	
600.0	600.0	598.6	600.0	4.1	4.1	-90.36	-0.6	-100.0	100.0	91.3	8.66	11.551	
700.0	700.0	698.6	700.0	4.3	4.3	-90.36	-0.6	-100.0	100.0	91.0	9.02	11.091	
800.0	800.0	798.6	800.0	4.5	4.5	-90.36	-0.6	-100.0	100.0	90.6	9.36	10.680	
900.0	900.0	898.6	900.0	4.7	4.7	-90.36	-0.6	-100.0	100.0	90.3	9.70	10.309	
1,000.0	1,000.0	998.6	1,000.0	4.8	4.8	-90.36	-0.6	-100.0	100.0	90.0	10.03	9.972	
1,100.0	1,100.0	1,098.6	1,100.0	5.0	5.0	-90.36	-0.6	-100.0	100.0	89.7	10.35	9.664	
1,200.0	1,200.0	1,198.6	1,200.0	5.2	5.2	-90.36	-0.6	-100.0	100.0	89.3	10.66	9.381	
1,300.0	1,300.0	1,298.6	1,300.0	5.3	5.3	-90.36	-0.6	-100.0	100.0	89.0	10.97	9.120	
1,400.0	1,400.0	1,398.6	1,400.0	5.5	5.5	-90.36	-0.6	-100.0	100.0	88.7	11.26	8.878	
1,500.0	1,500.0	1,498.6	1,500.0	5.6	5.6	-90.36	-0.6	-100.0	100.0	88.4	11.56	8.653	
1,600.0	1,600.0	1,598.6	1,600.0	5.8	5.8	-90.36	-0.6	-100.0	100.0	88.2	11.85	8.442	
1,700.0	1,700.0	1,698.6	1,700.0	5.9	5.9	-90.36	-0.6	-100.0	100.0	87.9	12.13	8.245	
1,800.0	1,800.0	1,798.6	1,800.0	6.0	6.0	-90.36	-0.6	-100.0	100.0	87.6	12.41	8.060	
1,900.0	1,900.0	1,898.6	1,900.0	6.2	6.2	-90.36	-0.6	-100.0	100.0	87.3	12.68	7.886	
2,000.0	2,000.0	1,998.6	2,000.0	6.3	6.3	-90.36	-0.6	-100.0	100.0	87.1	12.95	7.721 CC, ES	
2,100.0	2,100.0	2,096.6	2,098.0	6.5	6.5	101.10	0.7	-100.9	101.2	88.0	13.22	7.656 SF	
2,200.0	2,199.9	2,194.1	2,195.3	6.6	6.7	105.28	4.8	-103.7	105.2	91.8	13.47	7.811	
2,300.0	2,299.7	2,290.5	2,291.4	6.8	7.0	111.43	11.5	-108.4	113.1	99.4	13.75	8.227	
2,333.3	2,332.9	2,322.3	2,323.0	6.8	7.0	113.74	14.3	-110.3	116.8	103.0	13.83	8.450	
2,400.0	2,399.4	2,385.5	2,385.7	6.9	7.2	133.11	20.7	-114.8	126.2	112.2	14.01	9.007	
2,500.0	2,499.1	2,479.2	2,478.4	7.0	7.4	164.53	32.2	-122.8	145.1	130.7	14.36	10.105	
2,600.0	2,598.7	2,575.5	2,573.3	7.2	7.7	-169.26	45.8	-132.2	167.9	153.1	14.83	11.321	
2,700.0	2,698.2	2,672.4	2,668.7	7.4	8.0	-152.21	59.5	-141.7	192.4	177.1	15.29	12.583	
2,800.0	2,797.4	2,769.0	2,763.9	7.6	8.2	-141.90	73.1	-151.1	218.0	202.3	15.73	13.864	
2,900.0	2,896.2	2,865.3	2,858.8	7.7	8.5	-135.73	86.7	-160.6	244.8	228.7	16.17	15.142	
3,000.0	2,994.5	2,961.2	2,953.2	7.9	8.8	-132.07	100.3	-170.0	272.8	256.2	16.62	16.420	
3,100.0	3,092.1	3,056.5	3,047.1	8.2	9.1	-129.99	113.7	-179.3	302.1	285.1	17.07	17.702	
3,162.7	3,152.9	3,115.8	3,105.6	8.3	9.2	-129.25	122.1	-185.1	321.2	303.9	17.32	18.543	
3,200.0	3,189.0	3,151.1	3,140.3	8.4	9.4	-129.95	127.1	-188.5	332.8	315.3	17.47	19.050	
3,300.0	3,285.8	3,245.6	3,233.4	8.6	9.7	-131.61	140.4	-197.8	364.0	346.1	17.93	20.307	
3,400.0	3,382.5	3,340.2	3,326.5	8.9	10.0	-133.01	153.8	-207.1	395.5	377.1	18.40	21.492	
3,500.0	3,479.3	3,434.7	3,419.6	9.2	10.3	-134.21	167.1	-216.3	427.1	408.2	18.89	22.607	
3,600.0	3,576.0	3,529.2	3,512.7	9.5	10.6	-135.24	180.5	-225.6	458.9	439.5	19.40	23.654	
3,700.0	3,672.8	3,623.7	3,605.8	9.9	11.0	-136.13	193.8	-234.8	490.8	470.9	19.92	24.636	
3,800.0	3,769.5	3,718.2	3,698.9	10.2	11.3	-136.92	207.1	-244.1	522.8	502.4	20.46	25.555	
3,900.0	3,866.3	3,812.7	3,792.0	10.6	11.6	-137.62	220.5	-253.3	554.9	533.9	21.01	26.415	
4,000.0	3,963.0	3,907.2	3,885.2	10.9	12.0	-138.24	233.8	-262.6	587.1	565.5	21.57	27.221	
4,100.0	4,059.7	4,001.7	3,978.3	11.3	12.3	-138.80	247.2	-271.8	619.3	597.1	22.14	27.974	
4,200.0	4,156.5	4,096.2	4,071.4	11.7	12.7	-139.30	260.5	-281.1	651.5	628.8	22.72	28.679	
4,300.0	4,253.2	4,190.7	4,164.5	12.1	13.1	-139.76	273.9	-290.3	683.8	660.5	23.31	29.339	
4,400.0	4,350.0	4,285.2	4,257.6	12.5	13.4	-140.17	287.2	-299.6	716.1	692.2	23.91	29.958	
4,500.0	4,446.7	4,379.8	4,350.7	12.9	13.8	-140.55	300.5	-308.8	748.5	724.0	24.51	30.537	
4,600.0	4,543.5	4,474.3	4,443.8	13.3	14.2	-140.90	313.9	-318.1	780.9	755.8	25.12	31.081	
4,700.0	4,640.2	4,568.8	4,536.9	13.7	14.6	-141.22	327.2	-327.3	813.3	787.6	25.74	31.591	
4,800.0	4,737.0	4,663.3	4,630.0	14.1	15.0	-141.51	340.6	-336.6	845.7	819.4	26.37	32.071	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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	4,833.7	4,757.8	4,723.1	14.5	15.3	-141.78	353.9	-345.9	878.2	851.2	27.00	32.522		
5,000.0	4,930.5	4,852.3	4,816.2	15.0	15.7	-142.04	367.3	-355.1	910.6	883.0	27.64	32.946		
5,100.0	5,027.2	4,946.8	4,909.3	15.4	16.1	-142.28	380.6	-364.4	943.1	914.8	28.28	33.345		
5,200.0	5,124.0	5,041.3	5,002.4	15.8	16.5	-142.50	394.0	-373.6	975.6	946.7	28.93	33.722		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.8	3.0	3.0	-90.36	-0.5	-80.0	80.0				
100.0	100.0	99.2	100.0	3.1	3.1	-90.36	-0.5	-80.0	80.0	73.4	6.62	12.087	
200.0	200.0	199.2	200.0	3.3	3.3	-90.36	-0.5	-80.0	80.0	72.9	7.07	11.317	
300.0	300.0	299.2	300.0	3.6	3.6	-90.36	-0.5	-80.0	80.0	72.5	7.49	10.674	
400.0	400.0	399.2	400.0	3.8	3.8	-90.36	-0.5	-80.0	80.0	72.1	7.90	10.127	
500.0	500.0	499.2	500.0	4.0	4.0	-90.36	-0.5	-80.0	80.0	71.7	8.29	9.654	
600.0	600.0	599.2	600.0	4.1	4.1	-90.36	-0.5	-80.0	80.0	71.3	8.66	9.239	
700.0	700.0	699.2	700.0	4.3	4.3	-90.36	-0.5	-80.0	80.0	71.0	9.02	8.872	
800.0	800.0	799.2	800.0	4.5	4.5	-90.36	-0.5	-80.0	80.0	70.6	9.36	8.543	
900.0	900.0	899.2	900.0	4.7	4.7	-90.36	-0.5	-80.0	80.0	70.3	9.70	8.246	
1,000.0	1,000.0	999.2	1,000.0	4.8	4.8	-90.36	-0.5	-80.0	80.0	70.0	10.03	7.977	
1,100.0	1,100.0	1,099.2	1,100.0	5.0	5.0	-90.36	-0.5	-80.0	80.0	69.7	10.35	7.731	
1,200.0	1,200.0	1,199.2	1,200.0	5.2	5.2	-90.36	-0.5	-80.0	80.0	69.3	10.66	7.504	
1,300.0	1,300.0	1,299.2	1,300.0	5.3	5.3	-90.36	-0.5	-80.0	80.0	69.0	10.97	7.295	
1,400.0	1,400.0	1,399.2	1,400.0	5.5	5.5	-90.36	-0.5	-80.0	80.0	68.7	11.27	7.102	
1,500.0	1,500.0	1,499.2	1,500.0	5.6	5.6	-90.36	-0.5	-80.0	80.0	68.4	11.56	6.922	
1,600.0	1,600.0	1,599.2	1,600.0	5.8	5.8	-90.36	-0.5	-80.0	80.0	68.2	11.85	6.753	
1,700.0	1,700.0	1,699.2	1,700.0	5.9	5.9	-90.36	-0.5	-80.0	80.0	67.9	12.13	6.596	
1,800.0	1,800.0	1,799.2	1,800.0	6.0	6.0	-90.36	-0.5	-80.0	80.0	67.6	12.41	6.448	
1,900.0	1,900.0	1,899.2	1,900.0	6.2	6.2	-90.36	-0.5	-80.0	80.0	67.3	12.68	6.308	
2,000.0	2,000.0	1,999.2	2,000.0	6.3	6.3	-90.36	-0.5	-80.0	80.0	67.0	12.95	6.177 CC, ES	
2,100.0	2,100.0	2,099.1	2,099.9	6.5	6.5	101.78	1.2	-80.0	80.3	67.1	13.20	6.082 SF	
2,200.0	2,199.9	2,198.4	2,199.1	6.6	6.8	108.05	6.4	-80.1	81.8	68.4	13.43	6.091	
2,300.0	2,299.7	2,296.6	2,296.9	6.8	7.0	117.63	14.8	-80.1	86.4	72.7	13.68	6.311	
2,333.3	2,332.9	2,329.0	2,329.1	6.8	7.1	121.29	18.4	-80.2	89.0	75.2	13.76	6.469	
2,400.0	2,399.4	2,393.3	2,392.9	6.9	7.2	143.22	26.5	-80.2	96.3	82.3	13.94	6.905	
2,500.0	2,499.1	2,490.3	2,488.8	7.0	7.4	177.69	40.8	-80.3	111.5	97.3	14.25	7.826	
2,600.0	2,598.7	2,588.2	2,585.6	7.2	7.6	-154.63	55.7	-80.5	129.1	114.4	14.64	8.816	
2,700.0	2,698.2	2,686.4	2,682.6	7.4	7.8	-136.88	70.6	-80.6	147.6	132.5	15.05	9.802	
2,800.0	2,797.4	2,784.6	2,779.6	7.6	8.1	-126.41	85.5	-80.7	166.4	151.0	15.45	10.772	
2,900.0	2,896.2	2,882.7	2,876.6	7.7	8.4	-120.44	100.4	-80.8	185.6	169.7	15.83	11.724	
3,000.0	2,994.5	2,980.6	2,973.4	7.9	8.6	-117.27	115.2	-80.9	205.0	188.8	16.19	12.662	
3,100.0	3,092.1	3,078.3	3,070.0	8.2	8.9	-115.91	130.0	-81.1	225.0	208.5	16.55	13.595	
3,162.7	3,152.9	3,139.3	3,130.2	8.3	9.1	-115.70	139.3	-81.1	238.0	221.2	16.75	14.208	
3,200.0	3,189.0	3,175.5	3,166.1	8.4	9.2	-116.67	144.8	-81.2	245.8	229.0	16.86	14.580	
3,300.0	3,285.8	3,272.7	3,262.1	8.6	9.6	-118.98	159.5	-81.3	267.1	249.9	17.22	15.509	
3,400.0	3,382.5	3,369.9	3,358.2	8.9	9.9	-120.96	174.3	-81.4	288.8	271.2	17.60	16.406	
3,500.0	3,479.3	3,467.0	3,454.2	9.2	10.2	-122.65	189.0	-81.5	310.8	292.8	18.00	17.267	
3,600.0	3,576.0	3,564.2	3,550.3	9.5	10.5	-124.13	203.7	-81.6	333.0	314.6	18.41	18.090	
3,700.0	3,672.8	3,661.4	3,646.3	9.9	10.9	-125.42	218.5	-81.8	355.4	336.5	18.83	18.875	
3,800.0	3,769.5	3,758.6	3,742.4	10.2	11.2	-126.56	233.2	-81.9	377.9	358.6	19.26	19.621	
3,900.0	3,866.3	3,855.7	3,838.4	10.6	11.6	-127.57	248.0	-82.0	400.5	380.8	19.70	20.329	
4,000.0	3,963.0	3,952.9	3,934.5	10.9	11.9	-128.47	262.7	-82.1	423.3	403.1	20.16	21.000	
4,100.0	4,059.7	4,050.1	4,030.5	11.3	12.3	-129.28	277.4	-82.2	446.2	425.5	20.62	21.635	
4,200.0	4,156.5	4,147.2	4,126.5	11.7	12.7	-130.01	292.2	-82.4	469.1	448.0	21.09	22.237	
4,300.0	4,253.2	4,244.4	4,222.6	12.1	13.0	-130.68	306.9	-82.5	492.1	470.5	21.58	22.806	
4,400.0	4,350.0	4,341.6	4,318.6	12.5	13.4	-131.28	321.6	-82.6	515.1	493.1	22.07	23.345	
4,500.0	4,446.7	4,438.7	4,414.7	12.9	13.8	-131.83	336.4	-82.7	538.2	515.7	22.56	23.854	
4,600.0	4,543.5	4,535.9	4,510.7	13.3	14.2	-132.34	351.1	-82.8	561.4	538.3	23.07	24.336	
4,700.0	4,640.2	4,633.1	4,606.8	13.7	14.6	-132.81	365.9	-83.0	584.6	561.0	23.58	24.792	
4,800.0	4,737.0	4,730.2	4,702.8	14.1	15.0	-133.24	380.6	-83.1	607.8	583.7	24.10	25.223	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			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		
4,900.0	4,833.7	4,827.4	4,798.9	14.5	15.3	-133.64	395.3	-83.2	631.0	606.4	24.62	25.632			
5,000.0	4,930.5	4,924.6	4,894.9	15.0	15.7	-134.01	410.1	-83.3	654.3	629.2	25.15	26.019			
5,100.0	5,027.2	5,021.7	4,990.9	15.4	16.1	-134.36	424.8	-83.4	677.6	651.9	25.68	26.386			
5,200.0	5,124.0	5,118.9	5,087.0	15.8	16.5	-134.68	439.6	-83.6	700.9	674.7	26.22	26.734			
5,300.0	5,220.7	5,216.1	5,183.0	16.3	16.9	-134.98	454.3	-83.7	724.3	697.5	26.76	27.064			
5,400.0	5,317.4	5,313.3	5,279.1	16.7	17.3	-135.26	469.0	-83.8	747.6	720.3	27.31	27.377			
5,500.0	5,414.2	5,410.4	5,375.1	17.2	17.7	-135.53	483.8	-83.9	771.0	743.1	27.86	27.674			
5,600.0	5,510.9	5,507.6	5,471.2	17.6	18.1	-135.78	498.5	-84.0	794.4	766.0	28.41	27.957			
5,700.0	5,607.7	5,604.8	5,567.2	18.1	18.5	-136.02	513.3	-84.1	817.8	788.8	28.97	28.226			
5,800.0	5,704.4	5,701.9	5,663.3	18.5	18.9	-136.24	528.0	-84.3	841.2	811.7	29.53	28.482			
5,900.0	5,801.2	5,799.1	5,759.3	19.0	19.3	-136.45	542.7	-84.4	864.6	834.5	30.10	28.726			
6,000.0	5,897.9	5,896.3	5,855.4	19.4	19.7	-136.65	557.5	-84.5	888.1	857.4	30.67	28.958			
6,100.0	5,994.7	5,993.4	5,951.4	19.9	20.1	-136.84	572.2	-84.6	911.5	880.3	31.24	29.180			
6,200.0	6,091.4	6,090.6	6,047.4	20.3	20.5	-137.02	586.9	-84.7	935.0	903.2	31.81	29.391			
6,300.0	6,188.2	6,187.8	6,143.5	20.8	21.0	-137.19	601.7	-84.9	958.4	926.1	32.39	29.593			
6,400.0	6,284.9	6,284.9	6,239.5	21.3	21.4	-137.36	616.4	-85.0	981.9	949.0	32.97	29.786			

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Reference Depth (usft)	Measured Depth (usft)	Offset Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	1.1	3.0	3.0	-90.36	-0.4	-60.0	60.0					
100.0	100.0	98.9	100.0	3.1	3.1	-90.36	-0.4	-60.0	60.0	53.4	6.62	9.066		
200.0	200.0	198.9	200.0	3.3	3.3	-90.36	-0.4	-60.0	60.0	52.9	7.07	8.489		
300.0	300.0	298.9	300.0	3.6	3.6	-90.36	-0.4	-60.0	60.0	52.5	7.49	8.006		
400.0	400.0	398.9	400.0	3.8	3.8	-90.36	-0.4	-60.0	60.0	52.1	7.90	7.596		
500.0	500.0	498.9	500.0	4.0	4.0	-90.36	-0.4	-60.0	60.0	51.7	8.29	7.241		
600.0	600.0	598.9	600.0	4.1	4.1	-90.36	-0.4	-60.0	60.0	51.3	8.66	6.930		
700.0	700.0	698.9	700.0	4.3	4.3	-90.36	-0.4	-60.0	60.0	51.0	9.02	6.654		
800.0	800.0	798.9	800.0	4.5	4.5	-90.36	-0.4	-60.0	60.0	50.6	9.36	6.408		
900.0	900.0	898.9	900.0	4.7	4.7	-90.36	-0.4	-60.0	60.0	50.3	9.70	6.185		
1,000.0	1,000.0	998.9	1,000.0	4.8	4.8	-90.36	-0.4	-60.0	60.0	50.0	10.03	5.983		
1,100.0	1,100.0	1,098.9	1,100.0	5.0	5.0	-90.36	-0.4	-60.0	60.0	49.7	10.35	5.798		
1,200.0	1,200.0	1,198.9	1,200.0	5.2	5.2	-90.36	-0.4	-60.0	60.0	49.3	10.66	5.628		
1,300.0	1,300.0	1,298.9	1,300.0	5.3	5.3	-90.36	-0.4	-60.0	60.0	49.0	10.97	5.472		
1,400.0	1,400.0	1,398.9	1,400.0	5.5	5.5	-90.36	-0.4	-60.0	60.0	48.7	11.26	5.327		
1,500.0	1,500.0	1,498.9	1,500.0	5.6	5.6	-90.36	-0.4	-60.0	60.0	48.4	11.56	5.191		
1,600.0	1,600.0	1,598.9	1,600.0	5.8	5.8	-90.36	-0.4	-60.0	60.0	48.2	11.85	5.065		
1,700.0	1,700.0	1,698.9	1,700.0	5.9	5.9	-90.36	-0.4	-60.0	60.0	47.9	12.13	4.947		
1,800.0	1,800.0	1,798.9	1,800.0	6.0	6.0	-90.36	-0.4	-60.0	60.0	47.6	12.41	4.836		
1,900.0	1,900.0	1,898.9	1,900.0	6.2	6.2	-90.36	-0.4	-60.0	60.0	47.3	12.68	4.731		
2,000.0	2,000.0	1,998.9	2,000.0	6.3	6.3	-90.36	-0.4	-60.0	60.0	47.0	12.95	4.633 CC		
2,100.0	2,100.0	2,098.9	2,100.0	6.5	6.5	100.86	-0.4	-60.0	60.2	47.0	13.20	4.564		
2,200.0	2,199.9	2,199.8	2,200.9	6.6	6.7	105.96	1.1	-59.0	60.3	46.8	13.44	4.486		
2,228.6	2,228.5	2,228.5	2,229.6	6.7	6.7	108.40	2.0	-58.4	60.3	46.8	13.51	4.461 ES		
2,300.0	2,299.7	2,300.0	2,300.9	6.8	6.9	116.34	5.5	-56.2	60.7	47.0	13.67	4.438 SF		
2,333.3	2,332.9	2,333.1	2,334.0	6.8	7.0	120.86	7.6	-54.8	61.4	47.6	13.73	4.470		
2,400.0	2,399.4	2,399.2	2,399.7	6.9	7.1	144.90	12.7	-51.4	64.2	50.3	13.88	4.628		
2,500.0	2,499.1	2,497.7	2,497.5	7.0	7.4	-177.02	22.7	-44.9	72.1	57.9	14.20	5.077		
2,600.0	2,598.7	2,595.7	2,594.3	7.2	7.6	-145.16	35.4	-36.6	83.3	68.7	14.57	5.715		
2,700.0	2,698.2	2,693.1	2,690.0	7.4	7.9	-123.20	50.8	-26.5	97.0	82.0	14.97	6.478		
2,800.0	2,797.4	2,789.9	2,784.4	7.6	8.2	-108.66	68.8	-14.7	112.4	97.1	15.33	7.334		
2,900.0	2,896.2	2,886.5	2,877.8	7.7	8.4	-98.79	89.3	-1.2	129.2	113.6	15.62	8.273		
3,000.0	2,994.5	2,985.0	2,972.7	7.9	8.7	-92.48	111.3	13.2	145.8	129.9	15.94	9.149		
3,100.0	3,092.1	3,083.8	3,067.9	8.2	9.0	-88.91	133.3	27.6	161.4	145.1	16.27	9.921		
3,162.7	3,152.9	3,145.8	3,127.6	8.3	9.2	-87.67	147.2	36.7	170.5	154.1	16.45	10.369		
3,200.0	3,189.0	3,182.7	3,163.2	8.4	9.3	-88.07	155.4	42.1	175.9	159.3	16.55	10.627		
3,300.0	3,285.8	3,281.6	3,258.6	8.6	9.7	-89.01	177.5	56.5	190.2	173.3	16.89	11.259		
3,400.0	3,382.5	3,380.6	3,353.9	8.9	10.0	-89.83	199.5	71.0	204.5	187.3	17.25	11.859		
3,500.0	3,479.3	3,479.5	3,449.3	9.2	10.4	-90.53	221.6	85.4	218.9	201.3	17.61	12.429		
3,600.0	3,576.0	3,578.4	3,544.6	9.5	10.7	-91.15	243.6	99.9	233.3	215.3	17.99	12.969		
3,700.0	3,672.8	3,677.3	3,640.0	9.9	11.1	-91.70	265.7	114.3	247.7	229.4	18.38	13.480		
3,800.0	3,769.5	3,776.3	3,735.3	10.2	11.5	-92.19	287.8	128.8	262.2	243.4	18.78	13.964		
3,900.0	3,866.3	3,875.2	3,830.7	10.6	11.9	-92.62	309.8	143.2	276.7	257.5	19.18	14.422		
4,000.0	3,963.0	3,974.1	3,926.0	10.9	12.3	-93.02	331.9	157.7	291.2	271.6	19.60	14.856		
4,100.0	4,059.7	4,073.0	4,021.4	11.3	12.7	-93.37	354.0	172.2	305.7	285.6	20.02	15.267		
4,200.0	4,156.5	4,172.0	4,116.7	11.7	13.1	-93.70	376.0	186.6	320.2	299.7	20.45	15.656		
4,300.0	4,253.2	4,270.9	4,212.0	12.1	13.5	-93.99	398.1	201.1	334.7	313.8	20.89	16.024		
4,400.0	4,350.0	4,369.8	4,307.4	12.5	14.0	-94.26	420.1	215.5	349.2	327.9	21.33	16.373		
4,500.0	4,446.7	4,468.7	4,402.7	12.9	14.4	-94.51	442.2	230.0	363.7	342.0	21.78	16.703		
4,600.0	4,543.5	4,567.7	4,498.1	13.3	14.8	-94.74	464.3	244.4	378.3	356.1	22.23	17.017		
4,700.0	4,640.2	4,666.6	4,593.4	13.7	15.3	-94.95	486.3	258.9	392.8	370.1	22.69	17.314		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
4,800.0	4,737.0	4,765.5	4,688.8	14.1	15.7	-95.15	508.4	273.3	407.4	384.2	23.15	17.596		
4,900.0	4,833.7	4,864.5	4,784.1	14.5	16.1	-95.34	530.5	287.8	421.9	398.3	23.62	17.864		
5,000.0	4,930.5	4,963.6	4,879.7	15.0	16.6	-95.51	552.6	302.3	436.5	412.4	24.07	18.133		
5,100.0	5,027.2	5,066.0	4,978.7	15.4	17.0	-95.79	574.6	316.7	450.6	426.1	24.54	18.360		
5,200.0	5,124.0	5,168.6	5,078.2	15.8	17.5	-96.27	595.1	330.2	464.0	439.0	25.01	18.550		
5,300.0	5,220.7	5,271.2	5,178.3	16.3	18.0	-96.92	614.2	342.7	476.7	451.2	25.47	18.718		
5,400.0	5,317.4	5,373.8	5,278.7	16.7	18.4	-97.73	631.8	354.2	488.7	462.8	25.90	18.866		
5,500.0	5,414.2	5,476.4	5,379.5	17.2	18.8	-98.69	647.8	364.7	500.0	473.7	26.32	18.998		
5,600.0	5,510.9	5,578.8	5,480.4	17.6	19.3	-99.80	662.3	374.2	510.9	484.2	26.73	19.115		
5,700.0	5,607.7	5,681.0	5,581.4	18.1	19.7	-101.05	675.3	382.7	521.3	494.2	27.13	19.218		
5,800.0	5,704.4	5,782.9	5,682.4	18.5	20.1	-102.43	686.8	390.2	531.3	503.8	27.52	19.309		
5,900.0	5,801.2	5,884.5	5,783.3	19.0	20.5	-103.93	696.7	396.7	541.1	513.2	27.91	19.388		
6,000.0	5,897.9	5,985.7	5,884.0	19.4	20.9	-105.55	705.1	402.2	550.7	522.4	28.31	19.454		
6,100.0	5,994.7	6,086.5	5,984.4	19.9	21.3	-107.28	711.9	406.7	560.3	531.6	28.73	19.506		
6,200.0	6,091.4	6,186.7	6,084.5	20.3	21.6	-109.12	717.3	410.2	570.0	540.9	29.17	19.545		
6,300.0	6,188.2	6,286.4	6,184.0	20.8	22.0	-111.05	721.2	412.7	580.0	550.3	29.64	19.568		
6,400.0	6,284.9	6,385.4	6,283.0	21.3	22.3	-113.06	723.6	414.3	590.2	560.1	30.15	19.577		
6,500.0	6,381.7	6,483.8	6,381.4	21.7	22.4	-115.15	724.6	415.0	601.0	570.3	30.71	19.570		
6,600.0	6,478.4	6,580.8	6,478.4	22.2	22.5	-117.24	724.6	415.0	612.5	581.2	31.32	19.556		
6,700.0	6,575.2	6,677.5	6,575.2	22.7	22.6	-119.25	724.6	415.0	624.8	592.8	31.98	19.539		
6,800.0	6,671.9	6,774.3	6,671.9	23.1	22.6	-121.19	724.6	415.0	637.8	605.2	32.67	19.521		
6,900.0	6,768.6	6,871.0	6,768.6	23.6	22.7	-123.05	724.6	415.0	651.6	618.2	33.41	19.506		
7,000.0	6,865.4	6,967.8	6,865.4	24.1	22.7	-124.83	724.6	415.0	666.1	631.9	34.16	19.496		
7,100.0	6,962.1	7,064.5	6,962.1	24.6	22.8	-126.54	724.6	415.0	681.1	646.2	34.95	19.491		
7,200.0	7,058.9	7,161.3	7,058.9	25.0	22.8	-128.18	724.6	415.0	696.8	661.1	35.74	19.494		
7,300.0	7,155.6	7,258.0	7,155.6	25.5	22.8	-129.75	724.6	415.0	713.0	676.5	36.56	19.506		
7,400.0	7,252.4	7,354.8	7,252.4	26.0	22.9	-131.25	724.6	415.0	729.8	692.4	37.38	19.525		
7,500.0	7,349.1	7,451.5	7,349.1	26.5	22.9	-132.68	724.6	415.0	747.0	708.8	38.20	19.554		
7,600.0	7,445.9	7,548.3	7,445.9	26.9	23.0	-134.05	724.6	415.0	764.7	725.7	39.03	19.591		
7,700.0	7,542.6	7,645.0	7,542.6	27.4	23.0	-135.36	724.6	415.0	782.8	742.9	39.86	19.636		
7,800.0	7,639.4	7,741.8	7,639.4	27.9	23.1	-136.61	724.6	415.0	801.3	760.6	40.70	19.689		
7,900.0	7,736.1	7,838.5	7,736.1	28.4	23.1	-137.81	724.6	415.0	820.1	778.6	41.53	19.749		
8,000.0	7,832.9	7,935.2	7,832.9	28.9	23.2	-138.95	724.6	415.0	839.3	797.0	42.35	19.816		
8,100.0	7,929.6	8,032.0	7,929.6	29.3	23.2	-140.05	724.6	415.0	858.8	815.6	43.18	19.890		
8,200.0	8,026.3	8,128.7	8,026.3	29.8	23.3	-141.09	724.6	415.0	878.6	834.6	44.00	19.969		
8,300.0	8,123.1	8,225.5	8,123.1	30.3	23.3	-142.09	724.6	415.0	898.7	853.9	44.82	20.053		
8,400.0	8,219.8	8,322.2	8,219.8	30.8	23.4	-143.05	724.6	415.0	919.0	873.4	45.63	20.142		
8,500.0	8,316.6	8,419.0	8,316.6	31.3	23.4	-143.97	724.6	415.0	939.6	893.2	46.43	20.235		
8,600.0	8,413.3	8,515.7	8,413.3	31.8	23.5	-144.85	724.6	415.0	960.4	913.2	47.24	20.332		
8,700.0	8,510.1	8,612.5	8,510.1	32.2	23.5	-145.69	724.6	415.0	981.4	933.4	48.03	20.432		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	1.0	3.0	3.0	-90.36	-0.2	-40.0	40.0				
100.0	100.0	99.0	100.0	3.1	3.1	-90.36	-0.2	-40.0	40.0	33.4	6.62	6.044	
200.0	200.0	199.0	200.0	3.3	3.3	-90.36	-0.2	-40.0	40.0	32.9	7.07	5.659	
300.0	300.0	299.0	300.0	3.6	3.6	-90.36	-0.2	-40.0	40.0	32.5	7.49	5.337	
400.0	400.0	399.0	400.0	3.8	3.8	-90.36	-0.2	-40.0	40.0	32.1	7.90	5.064	
500.0	500.0	499.0	500.0	4.0	4.0	-90.36	-0.2	-40.0	40.0	31.7	8.29	4.827	
600.0	600.0	599.0	600.0	4.1	4.1	-90.36	-0.2	-40.0	40.0	31.3	8.66	4.620	
700.0	700.0	699.0	700.0	4.3	4.3	-90.36	-0.2	-40.0	40.0	31.0	9.02	4.436	
800.0	800.0	799.0	800.0	4.5	4.5	-90.36	-0.2	-40.0	40.0	30.6	9.36	4.272	
900.0	900.0	899.0	900.0	4.7	4.7	-90.36	-0.2	-40.0	40.0	30.3	9.70	4.123	
1,000.0	1,000.0	999.0	1,000.0	4.8	4.8	-90.36	-0.2	-40.0	40.0	30.0	10.03	3.989	
1,100.0	1,100.0	1,099.0	1,100.0	5.0	5.0	-90.36	-0.2	-40.0	40.0	29.7	10.35	3.865	
1,200.0	1,200.0	1,199.0	1,200.0	5.2	5.2	-90.36	-0.2	-40.0	40.0	29.3	10.66	3.752	
1,300.0	1,300.0	1,299.0	1,300.0	5.3	5.3	-90.36	-0.2	-40.0	40.0	29.0	10.97	3.648	
1,400.0	1,400.0	1,399.0	1,400.0	5.5	5.5	-90.36	-0.2	-40.0	40.0	28.7	11.26	3.551	
1,500.0	1,500.0	1,499.0	1,500.0	5.6	5.6	-90.36	-0.2	-40.0	40.0	28.4	11.56	3.461	
1,600.0	1,600.0	1,599.0	1,600.0	5.8	5.8	-90.36	-0.2	-40.0	40.0	28.2	11.85	3.377	
1,700.0	1,700.0	1,699.0	1,700.0	5.9	5.9	-90.36	-0.2	-40.0	40.0	27.9	12.13	3.298	
1,800.0	1,800.0	1,799.0	1,800.0	6.0	6.0	-90.36	-0.2	-40.0	40.0	27.6	12.41	3.224	
1,900.0	1,900.0	1,899.0	1,900.0	6.2	6.2	-90.36	-0.2	-40.0	40.0	27.3	12.68	3.154	
2,000.0	2,000.0	1,999.0	2,000.0	6.3	6.3	-90.36	-0.2	-40.0	40.0	27.0	12.95	3.088	
2,100.0	2,100.0	2,099.5	2,100.5	6.5	6.4	101.51	-0.2	-39.7	39.9	26.8	13.13	3.041	
2,200.0	2,199.9	2,200.4	2,201.4	6.6	6.5	107.46	-0.2	-37.0	38.3	24.9	13.37	2.864 Normal Operations	
2,300.0	2,299.7	2,301.1	2,301.9	6.8	6.7	118.73	-0.2	-31.7	35.7	22.1	13.63	2.620 Normal Operations	
2,333.3	2,332.9	2,334.6	2,335.3	6.8	6.8	123.95	-0.2	-29.4	35.0	21.3	13.69	2.555 Normal Operations	
2,400.0	2,399.4	2,401.3	2,401.8	6.9	6.8	149.59	-0.2	-23.9	34.1	20.3	13.82	2.467 Caution - Monitor Closely	
2,409.9	2,409.2	2,411.1	2,411.6	6.9	6.9	153.62	-0.1	-23.0	34.1	20.2	13.86	2.459 Caution - Monitor Closely, CC, ES, SF	
2,500.0	2,499.1	2,500.5	2,500.5	7.0	7.1	-168.88	1.9	-14.1	35.7	21.5	14.21	2.509 Normal Operations	
2,600.0	2,598.7	2,599.4	2,598.6	7.2	7.3	-133.74	7.0	-2.9	40.7	26.1	14.57	2.793 Normal Operations	
2,700.0	2,698.2	2,697.9	2,696.0	7.4	7.5	-109.97	15.0	9.9	48.3	33.4	14.86	3.246	
2,800.0	2,797.4	2,796.1	2,792.4	7.6	7.8	-94.99	26.0	24.1	57.6	42.5	15.10	3.811	
2,900.0	2,896.2	2,893.8	2,888.0	7.7	8.1	-85.53	39.9	39.8	68.1	52.8	15.31	4.450	
3,000.0	2,994.5	2,993.3	2,984.8	7.9	8.4	-80.28	55.5	56.4	78.2	62.6	15.62	5.010	
3,100.0	3,092.1	3,092.9	3,081.8	8.2	8.7	-78.38	71.0	73.1	86.6	70.7	15.89	5.448	
3,162.7	3,152.9	3,155.4	3,142.6	8.3	8.9	-78.47	80.8	83.5	90.9	74.9	16.04	5.671	
3,200.0	3,189.0	3,192.6	3,178.8	8.4	9.0	-79.64	86.6	89.7	93.4	77.3	16.12	5.794	
3,300.0	3,285.8	3,292.3	3,275.8	8.6	9.3	-82.47	102.1	106.4	100.1	83.7	16.41	6.102	
3,400.0	3,382.5	3,391.9	3,372.8	8.9	9.7	-84.95	117.7	123.1	107.1	90.4	16.72	6.406	
3,500.0	3,479.3	3,491.6	3,469.8	9.2	10.0	-87.11	133.3	139.7	114.2	97.2	17.04	6.706	
3,600.0	3,576.0	3,591.2	3,566.9	9.5	10.4	-89.02	148.8	156.4	121.5	104.2	17.37	6.998	
3,700.0	3,672.8	3,690.9	3,663.9	9.9	10.7	-90.72	164.4	173.0	128.9	111.2	17.71	7.282	
3,800.0	3,769.5	3,790.6	3,760.9	10.2	11.1	-92.23	179.9	189.7	136.4	118.4	18.05	7.556	
3,900.0	3,866.3	3,890.2	3,857.9	10.6	11.5	-93.58	195.5	206.4	144.0	125.6	18.41	7.821	
4,000.0	3,963.0	3,989.9	3,954.9	10.9	11.9	-94.79	211.1	223.0	151.7	132.9	18.78	8.075	
4,100.0	4,059.7	4,089.5	4,051.9	11.3	12.3	-95.89	226.6	239.7	159.4	140.2	19.16	8.319	
4,200.0	4,156.5	4,189.2	4,148.9	11.7	12.7	-96.89	242.2	256.4	167.2	147.6	19.54	8.552	
4,300.0	4,253.2	4,288.8	4,246.0	12.1	13.1	-97.79	257.7	273.0	175.0	155.0	19.94	8.776	
4,400.0	4,350.0	4,388.5	4,343.0	12.5	13.5	-98.62	273.3	289.7	182.8	162.5	20.34	8.989	
4,500.0	4,446.7	4,488.2	4,440.0	12.9	13.9	-99.38	288.9	306.4	190.7	170.0	20.75	9.193	
4,600.0	4,543.5	4,587.8	4,537.0	13.3	14.4	-100.09	304.4	323.0	198.6	177.5	21.16	9.388	
4,700.0	4,640.2	4,687.5	4,634.0	13.7	14.8	-100.73	320.0	339.7	206.6	185.0	21.58	9.573	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,737.0	4,787.1	4,731.0	14.1	15.2	-101.33	335.5	356.4	214.6	192.6	22.01	9.750	
4,900.0	4,833.7	4,886.8	4,828.0	14.5	15.6	-101.89	351.1	373.0	222.6	200.1	22.44	9.919	
5,000.0	4,930.5	4,986.4	4,925.1	15.0	16.1	-102.40	366.7	389.7	230.6	207.7	22.87	10.080	
5,100.0	5,027.2	5,086.1	5,022.1	15.4	16.5	-102.89	382.2	406.4	238.6	215.3	23.32	10.234	
5,200.0	5,124.0	5,185.8	5,119.1	15.8	17.0	-103.34	397.8	423.0	246.6	222.9	23.76	10.380	
5,300.0	5,220.7	5,285.4	5,216.1	16.3	17.4	-103.76	413.3	439.7	254.7	230.5	24.21	10.520	
5,400.0	5,317.4	5,385.1	5,313.1	16.7	17.9	-104.16	428.9	456.4	262.8	238.1	24.67	10.653	
5,500.0	5,414.2	5,484.7	5,410.1	17.2	18.3	-104.53	444.5	473.0	270.9	245.7	25.13	10.781	
5,600.0	5,510.9	5,584.4	5,507.1	17.6	18.7	-104.88	460.0	489.7	279.0	253.4	25.59	10.902	
5,700.0	5,607.7	5,684.0	5,604.2	18.1	19.2	-105.21	475.6	506.4	287.1	261.0	26.05	11.018	
5,800.0	5,704.4	5,783.7	5,701.2	18.5	19.7	-105.53	491.1	523.0	295.2	268.7	26.52	11.129	
5,900.0	5,801.2	5,883.4	5,798.2	19.0	20.1	-105.82	506.7	539.7	303.3	276.3	27.00	11.235	
6,000.0	5,897.9	5,983.0	5,895.2	19.4	20.6	-106.11	522.2	556.4	311.4	284.0	27.47	11.337	
6,100.0	5,994.7	6,082.7	5,992.2	19.9	21.0	-106.37	537.8	573.0	319.6	291.6	27.95	11.434	
6,200.0	6,091.4	6,182.3	6,089.2	20.3	21.5	-106.63	553.4	589.7	327.7	299.3	28.43	11.527	
6,300.0	6,188.2	6,282.0	6,186.2	20.8	21.9	-106.87	568.9	606.4	335.9	307.0	28.92	11.616	
6,400.0	6,284.9	6,381.6	6,283.3	21.3	22.4	-107.10	584.5	623.0	344.0	314.6	29.40	11.701	
6,500.0	6,381.7	6,481.3	6,380.3	21.7	22.9	-107.32	600.0	639.7	352.2	322.3	29.89	11.783	
6,600.0	6,478.4	6,581.0	6,477.3	22.2	23.3	-107.53	615.6	656.4	360.4	330.0	30.38	11.862	
6,700.0	6,575.2	6,680.6	6,574.3	22.7	23.8	-107.73	631.2	673.0	368.5	337.7	30.87	11.937	
6,800.0	6,671.9	6,780.3	6,671.3	23.1	24.3	-107.92	646.7	689.7	376.7	345.4	31.37	12.009	
6,900.0	6,768.6	6,879.9	6,768.5	23.6	24.7	-108.18	661.9	706.0	384.9	353.0	31.88	12.075	
7,000.0	6,865.4	6,979.5	6,865.9	24.1	25.2	-108.69	676.0	721.0	393.1	360.7	32.42	12.126	
7,100.0	6,962.1	7,079.0	6,963.5	24.6	25.6	-109.42	688.8	734.8	401.3	368.3	33.00	12.162	
7,200.0	7,058.9	7,178.2	7,061.3	25.0	26.1	-110.36	700.5	747.3	409.7	376.1	33.63	12.185	
7,300.0	7,155.6	7,277.2	7,159.0	25.5	26.5	-111.49	711.0	758.5	418.3	384.0	34.30	12.194	
7,400.0	7,252.4	7,375.8	7,256.7	26.0	26.9	-112.81	720.3	768.5	427.2	392.1	35.04	12.190	
7,500.0	7,349.1	7,474.1	7,354.3	26.5	27.3	-114.28	728.5	777.2	436.4	400.6	35.84	12.176	
7,600.0	7,445.9	7,571.9	7,451.6	26.9	27.7	-115.90	735.4	784.7	446.2	409.4	36.71	12.152	
7,700.0	7,542.6	7,669.2	7,548.5	27.4	28.1	-117.65	741.2	790.9	456.5	418.9	37.66	12.123	
7,800.0	7,639.4	7,766.0	7,645.1	27.9	28.4	-119.51	745.9	795.9	467.7	429.0	38.68	12.090	
7,900.0	7,736.1	7,862.2	7,741.1	28.4	28.7	-121.46	749.4	799.7	479.7	439.9	39.77	12.060	
8,000.0	7,832.9	7,957.8	7,836.6	28.9	29.0	-123.49	751.8	802.3	492.6	451.7	40.93	12.035	
8,100.0	7,929.6	8,052.6	7,931.5	29.3	29.3	-125.57	753.2	803.7	506.7	464.6	42.14	12.023	
8,200.0	8,026.3	8,147.5	8,026.3	29.8	29.4	-127.70	753.4	804.0	522.0	478.6	43.39	12.031	
8,300.0	8,123.1	8,244.3	8,123.1	30.3	29.5	-129.79	753.4	804.0	538.1	493.5	44.65	12.054	
8,400.0	8,219.8	8,341.0	8,219.8	30.8	29.5	-131.76	753.4	804.0	555.0	509.1	45.88	12.096	
8,500.0	8,316.6	8,437.8	8,316.6	31.3	29.5	-133.62	753.4	804.0	572.4	525.3	47.09	12.156	
8,600.0	8,413.3	8,534.5	8,413.3	31.8	29.6	-135.36	753.4	804.0	590.5	542.2	48.27	12.233	
8,700.0	8,510.1	8,631.3	8,510.1	32.2	29.6	-137.01	753.4	804.0	609.0	559.6	49.41	12.325	
8,800.0	8,606.8	8,728.0	8,606.8	32.7	29.7	-138.56	753.4	804.0	628.0	577.5	50.53	12.430	
8,900.0	8,703.6	8,824.8	8,703.6	33.2	29.7	-140.03	753.4	804.0	647.5	595.9	51.61	12.546	
9,000.0	8,800.3	8,921.5	8,800.3	33.7	29.7	-141.40	753.4	804.0	667.3	614.7	52.66	12.672	
9,100.0	8,897.1	9,018.3	8,897.1	34.2	29.8	-142.70	753.4	804.0	687.5	633.8	53.69	12.806	
9,200.0	8,993.8	9,115.0	8,993.8	34.7	29.8	-143.93	753.4	804.0	708.0	653.4	54.68	12.948	
9,300.0	9,090.6	9,211.7	9,090.6	35.2	29.8	-145.09	753.4	804.0	728.9	673.2	55.65	13.097	
9,400.0	9,187.3	9,308.5	9,187.3	35.6	29.9	-146.19	753.4	804.0	750.0	693.4	56.60	13.250	
9,500.0	9,284.0	9,405.2	9,284.0	36.1	29.9	-147.22	753.4	804.0	771.3	713.8	57.53	13.408	
9,600.0	9,380.8	9,502.0	9,380.8	36.6	30.0	-148.20	753.4	804.0	792.9	734.5	58.43	13.570	
9,700.0	9,477.5	9,598.7	9,477.5	37.1	30.0	-149.13	753.4	804.0	814.7	755.4	59.32	13.735	
9,775.3	9,550.4	9,671.6	9,550.4	37.5	30.0	-149.80	753.4	804.0	831.3	771.3	59.97	13.861	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.0	9,574.3	9,695.5	9,574.3	37.6	30.0	-150.04	753.4	804.0	836.7	776.5	60.18	13.903	
9,900.0	9,671.4	9,792.6	9,671.4	38.1	30.1	-150.94	753.4	804.0	857.7	796.7	61.01	14.059	
10,000.0	9,768.8	9,890.0	9,768.8	38.6	30.1	-151.74	753.4	804.0	877.5	815.7	61.80	14.198	
10,100.0	9,866.7	9,987.9	9,866.7	39.0	30.2	-152.45	753.4	804.0	895.8	833.2	62.56	14.320	
10,200.0	9,964.9	10,086.1	9,964.9	39.5	30.2	-153.07	753.4	804.0	912.7	849.4	63.27	14.424	
10,300.0	10,063.4	10,184.6	10,063.4	39.9	30.2	-153.62	753.4	804.0	928.1	864.1	63.96	14.511	
10,400.0	10,162.2	10,283.4	10,162.2	40.4	30.3	-154.10	753.4	804.0	942.0	877.4	64.61	14.580	
10,500.0	10,261.2	10,382.4	10,261.2	40.8	30.3	-154.52	753.4	804.0	954.4	889.2	65.23	14.632	
10,600.0	10,360.5	10,481.7	10,360.5	41.2	30.4	-154.87	753.4	804.0	965.3	899.5	65.82	14.667	
10,700.0	10,460.0	10,581.2	10,460.0	41.6	30.4	-155.17	753.4	804.0	974.7	908.3	66.37	14.685	
10,800.0	10,559.6	10,680.8	10,559.6	42.0	30.4	-155.41	753.4	804.0	982.5	915.6	66.89	14.687	
10,900.0	10,659.4	10,780.6	10,659.4	42.4	30.5	-155.60	753.4	804.0	988.7	921.3	67.38	14.674	
11,000.0	10,759.2	10,880.4	10,759.2	42.7	30.5	-155.74	753.4	804.0	993.3	925.5	67.82	14.646	
11,100.0	10,859.2	10,980.4	10,859.2	43.0	30.6	-155.83	753.4	804.0	996.3	928.1	68.21	14.607	
11,200.0	10,959.2	11,080.4	10,959.2	43.3	30.6	-155.87	753.4	804.0	997.8	929.2	68.53	14.560	
11,240.8	11,000.0	11,121.2	11,000.0	43.3	30.6	-90.03	753.4	804.0	997.9	929.3	68.59	14.548	
11,300.0	11,059.2	11,180.4	11,059.2	43.3	30.7	-90.03	753.4	804.0	997.9	929.3	68.63	14.541	
11,400.0	11,159.2	11,280.4	11,159.2	43.3	30.7	-90.03	753.4	804.0	997.9	929.2	68.69	14.528	
11,500.0	11,259.2	11,380.4	11,259.2	43.4	30.7	-90.03	753.4	804.0	997.9	929.1	68.76	14.514	
11,600.0	11,359.2	11,480.4	11,359.2	43.4	30.8	-90.03	753.4	804.0	997.9	929.1	68.82	14.500	
11,700.0	11,459.2	11,580.4	11,459.2	43.4	30.8	-90.03	753.4	804.0	997.9	929.0	68.89	14.486	
11,773.3	11,532.5	11,653.9	11,532.7	43.4	30.8	-90.06	753.0	804.0	997.9	929.0	68.93	14.477	
11,775.0	11,534.2	11,655.6	11,534.4	43.4	30.8	81.14	752.9	804.0	997.9	929.0	68.93	14.477	
11,800.0	11,559.1	11,680.8	11,559.6	43.4	30.8	81.09	751.1	804.0	997.8	928.8	68.94	14.472	
11,825.0	11,584.1	11,706.0	11,584.5	43.4	30.7	81.07	748.0	804.0	997.4	928.5	68.94	14.467	
11,850.0	11,608.8	11,731.1	11,609.2	43.3	30.6	81.07	743.6	804.1	996.9	928.0	68.94	14.461	
11,875.0	11,633.4	11,756.1	11,633.6	43.3	30.6	81.09	737.8	804.1	996.2	927.2	68.93	14.452	
11,900.0	11,657.7	11,781.1	11,657.6	43.2	30.5	81.13	730.9	804.1	995.2	926.3	68.92	14.441	
11,925.0	11,681.6	11,806.0	11,681.1	43.1	30.4	81.20	722.7	804.2	994.1	925.2	68.90	14.428	
11,950.0	11,705.2	11,830.8	11,704.1	43.1	30.4	81.29	713.3	804.3	992.7	923.9	68.87	14.414	
11,975.0	11,728.2	11,855.6	11,726.5	43.0	30.3	81.41	702.8	804.3	991.2	922.4	68.85	14.397	
12,000.0	11,750.7	11,880.2	11,748.2	43.0	30.2	81.54	691.2	804.4	989.5	920.7	68.82	14.379	
12,025.0	11,772.7	11,904.8	11,769.3	42.9	30.1	81.70	678.5	804.5	987.6	918.8	68.78	14.358	
12,050.0	11,793.9	11,929.4	11,789.6	42.8	30.1	81.89	664.8	804.6	985.5	916.8	68.75	14.336	
12,075.0	11,814.5	11,953.8	11,809.2	42.8	30.0	82.09	650.1	804.6	983.3	914.5	68.71	14.311	
12,100.0	11,834.3	11,978.2	11,827.9	42.7	29.9	82.31	634.4	804.7	980.8	912.2	68.66	14.285	
12,125.0	11,853.2	12,002.6	11,845.8	42.7	29.9	82.56	617.9	804.8	978.2	909.6	68.62	14.256	
12,150.0	11,871.3	12,026.8	11,862.7	42.6	29.8	82.83	600.6	805.0	975.5	906.9	68.57	14.226	
12,175.0	11,888.4	12,051.0	11,878.7	42.6	29.8	83.11	582.4	805.1	972.6	904.1	68.52	14.194	
12,200.0	11,904.6	12,075.0	11,893.6	42.5	29.7	83.42	563.6	805.2	969.6	901.1	68.47	14.160	
12,225.0	11,919.8	12,099.2	11,907.7	42.5	29.7	83.74	543.9	805.3	966.5	898.0	68.43	14.124	
12,250.0	11,933.8	12,123.2	11,920.7	42.4	29.6	84.08	523.7	805.4	963.2	894.8	68.38	14.085	
12,275.0	11,946.8	12,147.2	11,932.6	42.4	29.6	84.44	502.9	805.6	959.8	891.5	68.34	14.045	
12,300.0	11,958.7	12,171.1	11,943.4	42.4	29.5	84.82	481.6	805.7	956.3	888.0	68.29	14.003	
12,325.0	11,969.4	12,195.0	11,953.1	42.3	29.5	85.21	459.8	805.8	952.7	884.5	68.25	13.959	
12,350.0	11,978.8	12,218.8	11,961.8	42.3	29.5	85.62	437.6	806.0	949.0	880.8	68.21	13.913	
12,375.0	11,987.1	12,242.6	11,969.3	42.3	29.5	86.03	415.1	806.1	945.3	877.1	68.18	13.865	
12,400.0	11,994.1	12,266.3	11,975.6	42.3	29.5	86.47	392.2	806.3	941.5	873.3	68.15	13.815	
12,425.0	11,999.9	12,290.1	11,980.8	42.3	29.5	86.91	369.0	806.4	937.6	869.5	68.12	13.764	
12,450.0	12,004.3	12,313.8	11,984.9	42.3	29.5	87.36	345.6	806.6	933.7	865.6	68.10	13.710	
12,475.0	12,007.5	12,337.5	11,987.7	42.3	29.5	87.83	322.1	806.7	929.8	861.7	68.09	13.655	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,500.0	12,009.4	12,361.2	11,989.4	42.3	29.5	88.30	298.5	806.8	925.8	857.7	68.08	13.598	
12,523.3	12,010.0	12,383.3	11,990.0	42.3	29.5	88.74	276.4	807.0	922.1	854.0	68.08	13.544	
12,600.0	12,010.0	12,459.1	11,990.0	42.4	29.6	88.73	200.5	807.5	910.9	842.7	68.18	13.361	
12,700.0	12,010.0	12,558.5	11,990.0	42.5	29.7	88.72	101.2	808.1	899.4	831.0	68.35	13.159	
12,800.0	12,010.0	12,658.1	11,990.0	42.6	29.8	88.71	1.6	808.7	891.3	822.8	68.57	12.999	
12,900.0	12,010.0	12,758.0	11,990.0	42.7	29.9	88.71	-98.3	809.3	886.7	817.9	68.84	12.882	
12,981.1	12,010.0	12,839.1	11,990.0	42.9	30.1	88.71	-179.4	809.8	885.6	816.5	69.08	12.820	
13,000.0	12,010.0	12,858.0	11,990.0	42.9	30.1	88.71	-198.3	810.0	885.6	816.5	69.14	12.809	
13,100.0	12,010.0	12,958.0	11,990.0	43.1	30.3	88.71	-298.3	810.6	885.6	816.1	69.49	12.744	
13,200.0	12,010.0	13,058.0	11,990.0	43.2	30.5	88.71	-398.3	811.2	885.6	815.7	69.89	12.671	
13,300.0	12,010.0	13,158.0	11,990.0	43.4	30.8	88.71	-498.3	811.8	885.6	815.2	70.34	12.589	
13,400.0	12,010.0	13,258.0	11,990.0	43.7	31.0	88.71	-598.3	812.5	885.6	814.7	70.84	12.500	
13,500.0	12,010.0	13,358.0	11,990.0	43.9	31.3	88.71	-698.3	813.1	885.6	814.2	71.39	12.404	
13,600.0	12,010.0	13,458.0	11,990.0	44.2	31.6	88.71	-798.3	813.7	885.6	813.6	71.99	12.302	
13,700.0	12,010.0	13,558.0	11,990.0	44.5	31.9	88.71	-898.3	814.3	885.6	812.9	72.62	12.194	
13,800.0	12,010.0	13,658.0	11,990.0	44.8	32.3	88.71	-998.3	815.0	885.5	812.2	73.31	12.080	
13,900.0	12,010.0	13,758.0	11,990.0	45.1	32.7	88.71	-1,098.3	815.6	885.5	811.5	74.03	11.962	
14,000.0	12,010.0	13,858.0	11,990.0	45.4	33.1	88.71	-1,198.3	816.2	885.5	810.7	74.80	11.839	
14,100.0	12,010.0	13,958.0	11,990.0	45.7	33.5	88.71	-1,298.3	816.8	885.5	809.9	75.61	11.712	
14,200.0	12,010.0	14,058.0	11,990.0	46.1	33.9	88.71	-1,398.3	817.5	885.5	809.1	76.45	11.582	
14,300.0	12,010.0	14,158.0	11,990.0	46.5	34.4	88.71	-1,498.3	818.1	885.5	808.2	77.34	11.450	
14,400.0	12,010.0	14,258.0	11,990.0	46.9	34.9	88.71	-1,598.3	818.7	885.5	807.3	78.26	11.315	
14,500.0	12,010.0	14,358.0	11,990.0	47.3	35.4	88.71	-1,698.3	819.3	885.5	806.3	79.21	11.179	
14,600.0	12,010.0	14,458.0	11,990.0	47.7	35.9	88.71	-1,798.3	820.0	885.5	805.3	80.20	11.041	
14,700.0	12,010.0	14,558.0	11,990.0	48.2	36.5	88.71	-1,898.3	820.6	885.5	804.3	81.23	10.902	
14,800.0	12,010.0	14,658.0	11,990.0	48.6	37.0	88.71	-1,998.3	821.2	885.5	803.2	82.28	10.762	
14,900.0	12,010.0	14,758.0	11,990.0	49.1	37.6	88.71	-2,098.3	821.8	885.5	802.1	83.36	10.622	
15,000.0	12,010.0	14,858.0	11,990.0	49.6	38.2	88.71	-2,198.3	822.5	885.5	801.0	84.48	10.482	
15,100.0	12,010.0	14,958.0	11,990.0	50.1	38.8	88.71	-2,298.3	823.1	885.5	799.9	85.62	10.342	
15,200.0	12,010.0	15,058.0	11,990.0	50.6	39.5	88.71	-2,398.3	823.7	885.5	798.7	86.78	10.203	
15,300.0	12,010.0	15,158.0	11,990.0	51.1	40.1	88.71	-2,498.3	824.3	885.5	797.5	87.98	10.065	
15,400.0	12,010.0	15,258.0	11,990.0	51.6	40.8	88.71	-2,598.3	825.0	885.5	796.3	89.20	9.927	
15,500.0	12,010.0	15,358.0	11,990.0	52.2	41.4	88.71	-2,698.3	825.6	885.5	795.0	90.44	9.791	
15,600.0	12,010.0	15,458.0	11,990.0	52.7	42.1	88.71	-2,798.3	826.2	885.4	793.7	91.70	9.656	
15,700.0	12,010.0	15,558.0	11,990.0	53.3	42.8	88.71	-2,898.3	826.8	885.4	792.5	92.99	9.522	
15,800.0	12,010.0	15,658.0	11,990.0	53.9	43.5	88.71	-2,998.3	827.5	885.4	791.1	94.30	9.390	
15,900.0	12,010.0	15,758.0	11,990.0	54.5	44.3	88.71	-3,098.3	828.1	885.4	789.8	95.62	9.260	
16,000.0	12,010.0	15,858.0	11,990.0	55.1	45.0	88.71	-3,198.3	828.7	885.4	788.5	96.97	9.131	
16,100.0	12,010.0	15,958.0	11,990.0	55.7	45.7	88.71	-3,298.3	829.3	885.4	787.1	98.33	9.004	
16,200.0	12,010.0	16,058.0	11,990.0	56.3	46.5	88.71	-3,398.3	830.0	885.4	785.7	99.72	8.879	
16,300.0	12,010.0	16,158.0	11,990.0	56.9	47.3	88.71	-3,498.3	830.6	885.4	784.3	101.11	8.757	
16,400.0	12,010.0	16,258.0	11,990.0	57.6	48.0	88.71	-3,598.3	831.2	885.4	782.9	102.53	8.636	
16,500.0	12,010.0	16,358.0	11,990.0	58.2	48.8	88.71	-3,698.2	831.9	885.4	781.4	103.96	8.517	
16,600.0	12,010.0	16,458.0	11,990.0	58.9	49.6	88.71	-3,798.2	832.5	885.4	780.0	105.41	8.400	
16,700.0	12,010.0	16,558.0	11,990.0	59.6	50.4	88.71	-3,898.2	833.1	885.4	778.5	106.87	8.285	
16,800.0	12,010.0	16,658.0	11,990.0	60.2	51.2	88.71	-3,998.2	833.7	885.4	777.0	108.34	8.172	
16,900.0	12,010.0	16,758.0	11,990.0	60.9	52.0	88.71	-4,098.2	834.4	885.4	775.5	109.83	8.061	
17,000.0	12,010.0	16,858.0	11,990.0	61.6	52.8	88.71	-4,198.2	835.0	885.4	774.0	111.33	7.953	
17,100.0	12,010.0	16,958.0	11,990.0	62.3	53.6	88.71	-4,298.2	835.6	885.4	772.5	112.84	7.846	
17,200.0	12,010.0	17,058.0	11,990.0	63.0	54.4	88.71	-4,398.2	836.2	885.4	771.0	114.36	7.742	
17,300.0	12,010.0	17,158.0	11,990.0	63.7	55.3	88.71	-4,498.2	836.9	885.4	769.5	115.90	7.639	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,400.0	12,010.0	17,258.0	11,990.0	64.4	56.1	88.71	-4,598.2	837.5	885.4	767.9	117.44	7.539	
17,500.0	12,010.0	17,358.0	11,990.0	65.1	56.9	88.71	-4,698.2	838.1	885.3	766.3	119.00	7.440	
17,600.0	12,010.0	17,458.0	11,990.0	65.9	57.8	88.71	-4,798.2	838.7	885.3	764.8	120.57	7.343	
17,700.0	12,010.0	17,558.0	11,990.0	66.6	58.6	88.71	-4,898.2	839.4	885.3	763.2	122.14	7.248	
17,800.0	12,010.0	17,658.0	11,990.0	67.4	59.5	88.71	-4,998.2	840.0	885.3	761.6	123.72	7.156	
17,900.0	12,010.0	17,758.0	11,990.0	68.1	60.3	88.71	-5,098.2	840.6	885.3	760.0	125.32	7.065	
18,000.0	12,010.0	17,858.0	11,990.0	68.9	61.2	88.71	-5,198.2	841.2	885.3	758.4	126.92	6.975	
18,100.0	12,010.0	17,958.0	11,990.0	69.6	62.0	88.71	-5,298.2	841.9	885.3	756.8	128.53	6.888	
18,200.0	12,010.0	18,058.0	11,990.0	70.4	62.9	88.71	-5,398.2	842.5	885.3	755.2	130.15	6.802	
18,300.0	12,010.0	18,158.0	11,990.0	71.1	63.8	88.71	-5,498.2	843.1	885.3	753.5	131.77	6.718	
18,400.0	12,010.0	18,258.0	11,990.0	71.9	64.6	88.71	-5,598.2	843.7	885.3	751.9	133.41	6.636	
18,500.0	12,010.0	18,358.0	11,990.0	72.7	65.5	88.71	-5,698.2	844.4	885.3	750.2	135.05	6.555	
18,600.0	12,010.0	18,458.0	11,990.0	73.5	66.4	88.71	-5,798.2	845.0	885.3	748.6	136.69	6.476	
18,700.0	12,010.0	18,558.0	11,990.0	74.3	67.3	88.71	-5,898.2	845.6	885.3	746.9	138.35	6.399	
18,800.0	12,010.0	18,658.0	11,990.0	75.1	68.1	88.71	-5,998.2	846.2	885.3	745.3	140.00	6.323	
18,900.0	12,010.0	18,758.0	11,990.0	75.8	69.0	88.71	-6,098.2	846.9	885.3	743.6	141.67	6.249	
19,000.0	12,010.0	18,858.0	11,990.0	76.6	69.9	88.71	-6,198.2	847.5	885.3	741.9	143.34	6.176	
19,100.0	12,010.0	18,958.0	11,990.0	77.4	70.8	88.71	-6,298.2	848.1	885.3	740.2	145.02	6.104	
19,200.0	12,010.0	19,058.0	11,990.0	78.3	71.7	88.71	-6,398.2	848.7	885.3	738.6	146.70	6.034	
19,300.0	12,010.0	19,158.0	11,990.0	79.1	72.6	88.71	-6,498.2	849.4	885.2	736.9	148.39	5.966	
19,400.0	12,010.0	19,258.0	11,990.0	79.9	73.5	88.71	-6,598.2	850.0	885.2	735.2	150.08	5.898	
19,500.0	12,010.0	19,358.0	11,990.0	80.7	74.4	88.71	-6,698.2	850.6	885.2	733.5	151.78	5.832	
19,600.0	12,010.0	19,458.0	11,990.0	81.5	75.2	88.71	-6,798.2	851.2	885.2	731.7	153.48	5.768	
19,700.0	12,010.0	19,558.0	11,990.0	82.3	76.1	88.71	-6,898.2	851.9	885.2	730.0	155.19	5.704	
19,800.0	12,010.0	19,658.0	11,990.0	83.2	77.0	88.71	-6,998.2	852.5	885.2	728.3	156.90	5.642	
19,888.3	12,010.0	19,746.3	11,990.0	83.8	77.8	88.71	-7,086.5	853.0	885.2	727.2	158.03	5.602	
19,888.4	12,010.0	19,746.4	11,990.0	83.8	77.8	88.71	-7,086.5	853.0	885.2	727.2	158.03	5.602	
19,888.8	12,010.0	19,746.4	11,990.0	83.8	77.8	88.71	-7,086.5	853.0	885.2	727.2	158.03	5.602	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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		Rule Assigned:		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		
0.0	0.0	0.0	0.6	3.0	3.0	-90.37	-0.1	-20.0	20.0					
100.0	100.0	99.4	100.0	3.1	3.1	-90.37	-0.1	-20.0	20.0	13.4	6.56	3.049		
200.0	200.0	199.4	200.0	3.3	3.2	-90.37	-0.1	-20.0	20.0	13.1	6.91	2.896 Normal Operations		
300.0	300.0	299.4	300.0	3.6	3.3	-90.37	-0.1	-20.0	20.0	12.8	7.24	2.763 Normal Operations		
400.0	400.0	399.4	400.0	3.8	3.4	-90.37	-0.1	-20.0	20.0	12.4	7.56	2.647 Normal Operations		
500.0	500.0	499.4	500.0	4.0	3.6	-90.37	-0.1	-20.0	20.0	12.1	7.86	2.544 Normal Operations		
600.0	600.0	599.4	600.0	4.1	3.7	-90.37	-0.1	-20.0	20.0	11.8	8.16	2.452 Caution - Monitor Closely		
700.0	700.0	699.4	700.0	4.3	3.8	-90.37	-0.1	-20.0	20.0	11.6	8.44	2.369 Caution - Monitor Closely		
800.0	800.0	799.4	800.0	4.5	3.9	-90.37	-0.1	-20.0	20.0	11.3	8.72	2.294 Caution - Monitor Closely		
900.0	900.0	899.4	900.0	4.7	4.0	-90.37	-0.1	-20.0	20.0	11.0	8.99	2.225 Caution - Monitor Closely		
1,000.0	1,000.0	999.4	1,000.0	4.8	4.2	-90.37	-0.1	-20.0	20.0	10.7	9.25	2.162 Caution - Monitor Closely		
1,100.0	1,100.0	1,099.4	1,100.0	5.0	4.3	-90.37	-0.1	-20.0	20.0	10.5	9.51	2.103 Caution - Monitor Closely		
1,200.0	1,200.0	1,199.4	1,200.0	5.2	4.4	-90.37	-0.1	-20.0	20.0	10.2	9.76	2.049 Caution - Monitor Closely		
1,300.0	1,300.0	1,299.4	1,300.0	5.3	4.5	-90.37	-0.1	-20.0	20.0	10.0	10.01	1.999 Caution - Monitor Closely		
1,400.0	1,400.0	1,399.4	1,400.0	5.5	4.6	-90.37	-0.1	-20.0	20.0	9.8	10.25	1.952 Caution - Monitor Closely		
1,500.0	1,500.0	1,499.4	1,500.0	5.6	4.8	-90.37	-0.1	-20.0	20.0	9.5	10.48	1.908 Caution - Monitor Closely		
1,600.0	1,600.0	1,599.4	1,600.0	5.8	4.9	-90.37	-0.1	-20.0	20.0	9.3	10.72	1.866 Caution - Monitor Closely		
1,700.0	1,700.0	1,699.4	1,700.0	5.9	5.0	-90.37	-0.1	-20.0	20.0	9.1	10.95	1.827 Caution - Monitor Closely		
1,800.0	1,800.0	1,799.4	1,800.0	6.0	5.1	-90.37	-0.1	-20.0	20.0	8.8	11.17	1.791 Caution - Monitor Closely		
1,900.0	1,900.0	1,899.4	1,900.0	6.2	5.2	-90.37	-0.1	-20.0	20.0	8.6	11.39	1.756 Caution - Monitor Closely		
2,000.0	2,000.0	1,999.4	2,000.0	6.3	5.3	-90.37	-0.1	-20.0	20.0	8.4	11.61	1.723 Caution - Monitor Closely		
2,062.3	2,062.3	2,061.8	2,062.4	6.4	5.4	102.45	0.4	-19.9	20.0	8.2	11.73	1.703 Caution - Monitor Closely, CC		
2,100.0	2,100.0	2,099.5	2,100.1	6.5	5.5	106.91	1.1	-19.7	20.0	8.2	11.81	1.697 Caution - Monitor Closely, ES, SF		
2,200.0	2,199.9	2,199.2	2,199.7	6.6	5.6	127.10	4.9	-18.7	22.0	9.8	12.15	1.810 Caution - Monitor Closely		
2,300.0	2,299.7	2,298.3	2,298.6	6.8	5.7	149.99	11.0	-16.9	29.5	16.9	12.57	2.347 Caution - Monitor Closely		
2,333.3	2,332.9	2,331.4	2,331.6	6.8	5.8	156.51	13.4	-15.7	33.2	20.5	12.71	2.616 Normal Operations		
2,400.0	2,399.4	2,397.4	2,397.3	6.9	5.9	-178.55	18.5	-12.4	41.5	28.6	12.97	3.203		
2,500.0	2,499.1	2,496.3	2,495.6	7.0	6.1	-143.01	27.0	-4.7	54.2	40.9	13.35	4.064		
2,600.0	2,598.7	2,595.1	2,593.3	7.2	6.2	-114.18	36.4	6.3	66.5	52.7	13.72	4.844		
2,700.0	2,698.2	2,693.8	2,690.4	7.4	6.4	-94.33	46.8	20.5	77.8	63.8	14.03	5.548		
2,800.0	2,797.4	2,792.4	2,786.8	7.6	6.6	-80.83	58.1	37.8	88.3	74.0	14.28	6.181		
2,900.0	2,896.2	2,890.8	2,882.2	7.7	6.8	-71.04	70.3	58.3	97.7	83.2	14.51	6.736		
3,000.0	2,994.5	2,990.2	2,978.1	7.9	6.9	-64.01	83.3	81.0	105.8	91.0	14.74	7.176		
3,100.0	3,092.1	3,090.0	3,074.4	8.2	7.1	-59.72	96.2	103.8	111.3	96.3	14.99	7.426		
3,162.7	3,152.9	3,152.6	3,134.9	8.3	7.2	-58.10	104.4	118.1	113.5	98.4	15.13	7.502		
3,200.0	3,189.0	3,189.9	3,170.9	8.4	7.2	-58.20	109.2	126.6	114.5	99.3	15.20	7.530		
3,300.0	3,285.8	3,289.9	3,267.3	8.6	7.4	-58.48	122.2	149.4	117.1	101.6	15.48	7.563		
3,400.0	3,382.5	3,389.9	3,363.8	8.9	7.5	-58.75	135.2	172.3	119.7	103.9	15.78	7.587		
3,500.0	3,479.3	3,489.8	3,460.2	9.2	7.7	-59.00	148.2	195.1	122.3	106.2	16.09	7.603		
3,600.0	3,576.0	3,589.8	3,556.7	9.5	7.9	-59.24	161.2	217.9	124.9	108.5	16.41	7.613		
3,700.0	3,672.8	3,689.8	3,653.1	9.9	8.1	-59.48	174.2	240.7	127.6	110.8	16.75	7.616		
3,800.0	3,769.5	3,789.7	3,749.6	10.2	8.2	-59.70	187.2	263.6	130.2	113.1	17.10	7.614		
3,900.0	3,866.3	3,889.7	3,846.0	10.6	8.4	-59.92	200.2	286.4	132.8	115.4	17.46	7.607		
4,000.0	3,963.0	3,989.7	3,942.5	10.9	8.6	-60.12	213.2	309.2	135.4	117.6	17.83	7.596		
4,100.0	4,059.7	4,089.6	4,038.9	11.3	8.8	-60.32	226.2	332.1	138.1	119.9	18.21	7.582		
4,200.0	4,156.5	4,189.6	4,135.4	11.7	9.0	-60.51	239.2	354.9	140.7	122.1	18.60	7.564		
4,300.0	4,253.2	4,289.5	4,231.8	12.1	9.2	-60.70	252.2	377.7	143.4	124.4	19.00	7.545		
4,400.0	4,350.0	4,389.5	4,328.3	12.5	9.4	-60.88	265.2	400.5	146.0	126.6	19.41	7.523		
4,500.0	4,446.7	4,489.5	4,424.7	12.9	9.6	-61.05	278.2	423.4	148.6	128.8	19.82	7.499		
4,600.0	4,543.5	4,589.4	4,521.2	13.3	9.7	-61.21	291.2	446.2	151.3	131.0	20.24	7.474		
4,700.0	4,640.2	4,689.4	4,617.6	13.7	9.9	-61.37	304.2	469.0	153.9	133.2	20.66	7.448		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,800.0	4,737.0	4,789.4	4,714.1	14.1	10.1	-61.53	317.2	491.8	156.6	135.5	21.10	7.421	
4,900.0	4,833.7	4,889.3	4,810.5	14.5	10.3	-61.68	330.2	514.7	159.2	137.7	21.53	7.393	
5,000.0	4,930.5	4,989.3	4,907.0	15.0	10.5	-61.82	343.2	537.5	161.8	139.9	21.97	7.365	
5,100.0	5,027.2	5,089.3	5,003.4	15.4	10.7	-61.96	356.2	560.3	164.5	142.1	22.42	7.337	
5,200.0	5,124.0	5,189.2	5,099.9	15.8	11.0	-62.10	369.2	583.2	167.1	144.3	22.87	7.308	
5,300.0	5,220.7	5,289.2	5,196.3	16.3	11.2	-62.23	382.2	606.0	169.8	146.5	23.32	7.279	
5,400.0	5,317.4	5,389.2	5,292.8	16.7	11.4	-62.35	395.2	628.8	172.4	148.7	23.78	7.251	
5,500.0	5,414.2	5,489.1	5,389.2	17.2	11.6	-62.48	408.2	651.6	175.1	150.8	24.24	7.222	
5,600.0	5,510.9	5,589.1	5,485.7	17.6	11.8	-62.60	421.2	674.5	177.7	153.0	24.71	7.194	
5,700.0	5,607.7	5,689.0	5,582.1	18.1	12.0	-62.71	434.2	697.3	180.4	155.2	25.17	7.165	
5,800.0	5,704.4	5,789.0	5,678.6	18.5	12.2	-62.83	447.2	720.1	183.0	157.4	25.64	7.137	
5,900.0	5,801.2	5,889.0	5,775.0	19.0	12.4	-62.94	460.2	743.0	185.7	159.6	26.12	7.110	
6,000.0	5,897.9	5,988.9	5,871.5	19.4	12.6	-63.04	473.2	765.8	188.3	161.7	26.59	7.082	
6,100.0	5,994.7	6,088.9	5,967.9	19.9	12.8	-63.15	486.2	788.6	191.0	163.9	27.07	7.056	
6,200.0	6,091.4	6,188.9	6,064.4	20.3	13.1	-63.25	499.2	811.4	193.6	166.1	27.55	7.029	
6,300.0	6,188.2	6,288.8	6,160.8	20.8	13.3	-63.34	512.2	834.3	196.3	168.3	28.03	7.003	
6,400.0	6,284.9	6,388.8	6,257.3	21.3	13.5	-63.44	525.2	857.1	199.0	170.4	28.52	6.977	
6,500.0	6,381.7	6,488.8	6,353.7	21.7	13.7	-63.53	538.2	879.9	201.6	172.6	29.00	6.952	
6,600.0	6,478.4	6,588.7	6,450.2	22.2	13.9	-63.62	551.2	902.7	204.3	174.8	29.49	6.927	
6,700.0	6,575.2	6,688.7	6,546.7	22.7	14.2	-63.71	564.2	925.6	206.9	176.9	29.98	6.903	
6,800.0	6,671.9	6,788.7	6,643.1	23.1	14.4	-63.80	577.2	948.4	209.6	179.1	30.47	6.879	
6,900.0	6,768.6	6,888.6	6,739.6	23.6	14.6	-63.88	590.2	971.2	212.2	181.3	30.96	6.856	
7,000.0	6,865.4	6,988.6	6,836.0	24.1	14.8	-63.96	603.2	994.1	214.9	183.4	31.45	6.833	
7,100.0	6,962.1	7,088.5	6,932.5	24.6	15.0	-64.04	616.2	1,016.9	217.6	185.6	31.95	6.810	
7,200.0	7,058.9	7,188.5	7,028.9	25.0	15.3	-64.12	629.2	1,039.7	220.2	187.8	32.44	6.788	
7,300.0	7,155.6	7,288.5	7,125.4	25.5	15.5	-64.19	642.2	1,062.5	222.9	189.9	32.94	6.766	
7,400.0	7,252.4	7,389.0	7,222.4	26.0	15.7	-64.28	655.3	1,085.4	225.5	192.1	33.42	6.748	
7,500.0	7,349.1	7,491.1	7,321.2	26.5	15.9	-64.66	667.9	1,107.6	227.5	193.6	33.86	6.717	
7,600.0	7,445.9	7,593.1	7,420.4	26.9	16.1	-65.43	679.6	1,128.1	228.5	194.3	34.23	6.675	
7,700.0	7,542.6	7,694.9	7,519.9	27.4	16.3	-66.58	690.4	1,147.1	228.8	194.2	34.53	6.626	
7,800.0	7,639.4	7,796.7	7,619.6	27.9	16.6	-68.13	700.4	1,164.6	228.3	193.5	34.74	6.571	
7,900.0	7,736.1	7,898.2	7,719.5	28.4	16.8	-70.09	709.4	1,180.5	227.2	192.3	34.89	6.513	
8,000.0	7,832.9	7,999.3	7,819.3	28.9	17.0	-72.48	717.5	1,194.8	225.7	190.7	34.97	6.454	
8,100.0	7,929.6	8,100.2	7,919.1	29.3	17.2	-75.31	724.8	1,207.5	223.9	188.9	35.02	6.395	
8,200.0	8,026.3	8,200.6	8,018.7	29.8	17.3	-78.60	731.1	1,218.6	222.2	187.2	35.06	6.338	
8,300.0	8,123.1	8,300.5	8,118.0	30.3	17.5	-82.34	736.6	1,228.2	220.8	185.7	35.16	6.282	
8,400.0	8,219.8	8,399.9	8,217.0	30.8	17.7	-86.54	741.2	1,236.2	220.2	184.8	35.38	6.223	
8,420.4	8,239.6	8,420.2	8,237.1	30.9	17.7	-87.45	742.0	1,237.7	220.1	184.7	35.44	6.211	
8,500.0	8,316.6	8,498.7	8,315.5	31.3	17.9	-91.15	744.9	1,242.7	220.5	184.7	35.79	6.161	
8,600.0	8,413.3	8,596.9	8,413.5	31.8	18.0	-96.11	747.7	1,247.7	222.4	185.9	36.49	6.095	
8,700.0	8,510.1	8,694.4	8,510.9	32.2	18.2	-101.34	749.7	1,251.3	226.1	188.6	37.50	6.029	
8,800.0	8,606.8	8,791.1	8,607.6	32.7	18.3	-106.72	750.9	1,253.3	232.0	193.2	38.83	5.975	
8,900.0	8,703.6	8,887.1	8,703.6	33.2	18.4	-112.12	751.3	1,254.0	240.5	200.1	40.43	5.949	
9,000.0	8,800.3	8,983.9	8,800.3	33.7	18.4	-117.34	751.3	1,254.0	251.4	209.2	42.20	5.957	
9,100.0	8,897.1	9,080.6	8,897.1	34.2	18.5	-122.10	751.3	1,254.0	264.3	220.3	43.98	6.008	
9,200.0	8,993.8	9,177.4	8,993.8	34.7	18.5	-126.42	751.3	1,254.0	278.8	233.1	45.72	6.099	
9,300.0	9,090.6	9,274.1	9,090.6	35.2	18.6	-130.30	751.3	1,254.0	294.9	247.5	47.37	6.225	
9,400.0	9,187.3	9,370.8	9,187.3	35.6	18.6	-133.79	751.3	1,254.0	312.1	263.2	48.91	6.381	
9,500.0	9,284.0	9,467.6	9,284.0	36.1	18.7	-136.91	751.3	1,254.0	330.4	280.1	50.36	6.561	
9,600.0	9,380.8	9,564.3	9,380.8	36.6	18.8	-139.70	751.3	1,254.0	349.6	297.9	51.70	6.762	
9,700.0	9,477.5	9,661.1	9,477.5	37.1	18.8	-142.21	751.3	1,254.0	369.5	316.5	52.96	6.977	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	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	
9,775.3	9,550.4	9,733.9	9,550.4	37.5	18.9	-143.93	751.3	1,254.0	384.9	331.1	53.85	7.148	
9,800.0	9,574.3	9,757.8	9,574.3	37.6	18.9	-144.49	751.3	1,254.0	390.0	335.9	54.12	7.205	
9,900.0	9,671.4	9,854.9	9,671.4	38.1	18.9	-146.54	751.3	1,254.0	410.0	354.8	55.20	7.427	
10,000.0	9,768.8	9,952.4	9,768.8	38.6	19.0	-148.27	751.3	1,254.0	428.9	372.8	56.19	7.634	
10,100.0	9,866.7	10,050.2	9,866.7	39.0	19.0	-149.75	751.3	1,254.0	446.7	389.6	57.10	7.824	
10,200.0	9,964.9	10,148.4	9,964.9	39.5	19.1	-151.00	751.3	1,254.0	463.3	405.3	57.94	7.995	
10,300.0	10,063.4	10,246.9	10,063.4	39.9	19.1	-152.07	751.3	1,254.0	478.4	419.7	58.73	8.146	
10,400.0	10,162.2	10,345.7	10,162.2	40.4	19.2	-152.98	751.3	1,254.0	492.2	432.7	59.47	8.277	
10,500.0	10,261.2	10,444.8	10,261.2	40.8	19.3	-153.74	751.3	1,254.0	504.5	444.4	60.16	8.386	
10,600.0	10,360.5	10,544.0	10,360.5	41.2	19.3	-154.38	751.3	1,254.0	515.4	454.6	60.82	8.474	
10,700.0	10,460.0	10,643.5	10,460.0	41.6	19.4	-154.90	751.3	1,254.0	524.7	463.3	61.43	8.542	
10,800.0	10,559.6	10,743.1	10,559.6	42.0	19.4	-155.33	751.3	1,254.0	532.5	470.5	61.99	8.589	
10,900.0	10,659.4	10,842.9	10,659.4	42.4	19.5	-155.66	751.3	1,254.0	538.7	476.1	62.52	8.616	
11,000.0	10,759.2	10,942.8	10,759.2	42.7	19.5	-155.90	751.3	1,254.0	543.3	480.3	63.00	8.624	
11,100.0	10,859.2	11,042.7	10,859.2	43.0	19.6	-156.05	751.3	1,254.0	546.3	482.9	63.42	8.615	
11,200.0	10,959.2	11,142.7	10,959.2	43.3	19.7	-156.12	751.3	1,254.0	547.8	484.0	63.76	8.591	
11,240.8	11,000.0	11,183.5	11,000.0	43.3	19.7	-90.29	751.3	1,254.0	547.9	484.1	63.83	8.585	
11,300.0	11,059.2	11,242.7	11,059.2	43.3	19.7	-90.29	751.3	1,254.0	547.9	484.1	63.86	8.580	
11,400.0	11,159.2	11,342.7	11,159.2	43.3	19.8	-90.29	751.3	1,254.0	547.9	484.0	63.92	8.572	
11,500.0	11,259.2	11,442.7	11,259.2	43.4	19.8	-90.29	751.3	1,254.0	547.9	483.9	63.98	8.563	
11,577.7	11,336.9	11,520.4	11,336.9	43.4	19.9	-90.36	750.6	1,254.0	547.9	483.9	64.04	8.555	
11,600.0	11,359.2	11,542.6	11,359.0	43.4	19.8	-90.54	748.9	1,254.0	547.9	483.8	64.09	8.549	
11,700.0	11,459.2	11,638.4	11,452.7	43.4	19.8	-92.53	729.8	1,254.1	548.3	483.9	64.45	8.509	
11,773.3	11,532.5	11,702.2	11,512.2	43.4	19.7	-94.92	706.9	1,254.3	550.0	485.3	64.68	8.504	
11,775.0	11,534.2	11,703.6	11,513.4	43.4	19.7	76.21	706.3	1,254.3	550.1	485.4	64.68	8.504	
11,800.0	11,559.1	11,725.0	11,532.6	43.4	19.7	75.18	696.8	1,254.3	551.0	486.3	64.72	8.514	
11,825.0	11,584.1	11,744.1	11,549.4	43.4	19.7	74.27	687.6	1,254.4	551.9	487.2	64.65	8.536	
11,850.0	11,608.8	11,763.9	11,566.3	43.3	19.7	73.36	677.3	1,254.5	552.7	488.1	64.56	8.560	
11,875.0	11,633.4	11,783.5	11,582.6	43.3	19.6	72.48	666.5	1,254.5	553.4	489.0	64.44	8.589	
11,900.0	11,657.7	11,802.8	11,598.3	43.2	19.6	71.64	655.2	1,254.6	554.1	489.8	64.27	8.621	
11,925.0	11,681.6	11,821.9	11,613.3	43.1	19.6	70.85	643.4	1,254.7	554.7	490.6	64.07	8.657	
11,950.0	11,705.2	11,840.8	11,627.7	43.1	19.6	70.09	631.2	1,254.8	555.2	491.3	63.85	8.696	
11,975.0	11,728.2	11,859.4	11,641.4	43.0	19.6	69.37	618.6	1,254.8	555.6	492.0	63.59	8.737	
12,000.0	11,750.7	11,877.9	11,654.5	43.0	19.6	68.69	605.5	1,254.9	555.8	492.5	63.31	8.780	
12,025.0	11,772.7	11,896.3	11,667.0	42.9	19.6	68.06	592.1	1,255.0	556.0	493.0	63.00	8.824	
12,050.0	11,793.9	11,914.4	11,678.8	42.8	19.6	67.47	578.3	1,255.1	556.0	493.3	62.68	8.870	
12,075.0	11,814.5	11,932.4	11,690.1	42.8	19.6	66.91	564.2	1,255.2	555.8	493.5	62.34	8.915	
12,100.0	11,834.3	11,950.0	11,700.5	42.7	19.6	66.41	550.1	1,255.3	555.5	493.5	61.98	8.962	
12,125.0	11,853.2	11,968.1	11,710.7	42.7	19.6	65.94	535.2	1,255.4	555.0	493.4	61.62	9.006	
12,150.0	11,871.3	11,985.7	11,720.1	42.6	19.6	65.52	520.2	1,255.4	554.3	493.1	61.25	9.050	
12,175.0	11,888.4	12,000.0	11,727.2	42.6	19.6	65.22	507.9	1,255.5	553.5	492.7	60.80	9.104	
12,200.0	11,904.6	12,020.7	11,737.0	42.5	19.6	64.80	489.6	1,255.6	552.5	492.0	60.49	9.133	
12,225.0	11,919.8	12,038.1	11,744.6	42.5	19.6	64.51	474.0	1,255.7	551.2	491.1	60.11	9.171	
12,250.0	11,933.8	12,055.3	11,751.5	42.4	19.6	64.26	458.2	1,255.8	549.8	490.1	59.73	9.206	
12,275.0	11,946.8	12,075.0	11,758.7	42.4	19.6	64.01	439.9	1,255.9	548.2	488.8	59.40	9.229	
12,300.0	11,958.7	12,089.7	11,763.6	42.4	19.6	63.90	426.1	1,256.0	546.4	487.4	58.97	9.265	
12,325.0	11,969.4	12,106.7	11,768.8	42.3	19.6	63.79	409.8	1,256.1	544.4	485.8	58.61	9.289	
12,350.0	11,978.8	12,125.0	11,773.7	42.3	19.6	63.71	392.2	1,256.2	542.2	483.9	58.27	9.304	
12,375.0	11,987.1	12,140.7	11,777.3	42.3	19.6	63.71	376.9	1,256.3	539.8	481.9	57.90	9.323	
12,400.0	11,994.1	12,157.7	11,780.7	42.3	19.7	63.74	360.3	1,256.4	537.1	479.6	57.56	9.332	
12,425.0	11,999.9	12,175.0	11,783.5	42.3	19.7	63.80	343.2	1,256.6	534.3	477.1	57.24	9.335	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR											Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)		
12,450.0	12,004.3	12,191.5	11,785.6	42.3	19.7	63.93	326.9	1,256.7	531.3	474.4	56.92	9.334
12,475.0	12,007.5	12,208.4	11,787.2	42.3	19.7	64.10	310.1	1,256.8	528.0	471.4	56.62	9.326
12,500.0	12,009.4	12,225.0	11,788.2	42.3	19.7	64.32	293.5	1,256.9	524.6	468.3	56.33	9.313
12,523.3	12,010.0	12,241.0	11,788.6	42.3	19.8	64.57	277.5	1,257.0	521.3	465.2	56.09	9.294
12,600.0	12,010.0	12,315.1	11,788.6	42.4	19.9	64.13	203.4	1,257.4	511.2	455.5	55.68	9.181
12,700.0	12,010.0	12,414.4	11,788.6	42.5	20.0	63.65	104.0	1,258.1	500.8	445.5	55.27	9.061
12,800.0	12,010.0	12,514.1	11,788.6	42.6	20.2	63.30	4.4	1,258.7	493.6	438.6	54.95	8.983
12,900.0	12,010.0	12,614.0	11,788.6	42.7	20.4	63.10	-95.5	1,259.3	489.5	434.8	54.72	8.945
12,981.1	12,010.0	12,695.1	11,788.6	42.9	20.6	63.05	-176.6	1,259.8	488.4	433.8	54.61	8.944
13,000.0	12,010.0	12,714.0	11,788.6	42.9	20.6	63.05	-195.5	1,259.9	488.4	433.9	54.59	8.947
13,100.0	12,010.0	12,814.0	11,788.6	43.1	20.9	63.05	-295.5	1,260.6	488.4	433.9	54.54	8.956
13,200.0	12,010.0	12,914.0	11,788.6	43.2	21.1	63.05	-395.5	1,261.2	488.4	433.9	54.53	8.957
13,300.0	12,010.0	13,014.0	11,788.6	43.4	21.4	63.05	-495.5	1,261.8	488.4	433.9	54.58	8.949
13,400.0	12,010.0	13,114.0	11,788.6	43.7	21.7	63.04	-595.5	1,262.4	488.4	433.7	54.68	8.932
13,500.0	12,010.0	13,214.0	11,788.6	43.9	22.0	63.04	-695.5	1,263.1	488.4	433.6	54.84	8.907
13,600.0	12,010.0	13,314.0	11,788.6	44.2	22.4	63.04	-795.5	1,263.7	488.4	433.4	55.05	8.873
13,700.0	12,010.0	13,414.0	11,788.6	44.5	22.7	63.04	-895.5	1,264.3	488.4	433.1	55.31	8.831
13,800.0	12,010.0	13,514.0	11,788.6	44.8	23.1	63.04	-995.5	1,264.9	488.4	432.8	55.62	8.781
13,900.0	12,010.0	13,614.0	11,788.6	45.1	23.5	63.04	-1,095.5	1,265.6	488.4	432.4	55.98	8.724
14,000.0	12,010.0	13,714.0	11,788.6	45.4	24.0	63.04	-1,195.5	1,266.2	488.4	432.0	56.39	8.660
14,100.0	12,010.0	13,814.0	11,788.6	45.7	24.4	63.04	-1,295.5	1,266.8	488.4	431.5	56.85	8.590
14,200.0	12,010.0	13,914.0	11,788.6	46.1	24.9	63.04	-1,395.5	1,267.4	488.4	431.0	57.36	8.514
14,300.0	12,010.0	14,014.0	11,788.6	46.5	25.4	63.04	-1,495.5	1,268.1	488.4	430.5	57.92	8.433
14,400.0	12,010.0	14,114.0	11,788.6	46.9	25.9	63.04	-1,595.5	1,268.7	488.4	429.9	58.51	8.346
14,500.0	12,010.0	14,214.0	11,788.6	47.3	26.4	63.04	-1,695.5	1,269.3	488.4	429.2	59.16	8.256
14,600.0	12,010.0	14,314.0	11,788.6	47.7	26.9	63.04	-1,795.5	1,269.9	488.4	428.5	59.84	8.161
14,700.0	12,010.0	14,414.0	11,788.6	48.2	27.5	63.04	-1,895.5	1,270.6	488.4	427.8	60.56	8.064
14,800.0	12,010.0	14,514.0	11,788.6	48.6	28.1	63.04	-1,995.5	1,271.2	488.4	427.0	61.33	7.963
14,900.0	12,010.0	14,614.0	11,788.6	49.1	28.7	63.04	-2,095.5	1,271.8	488.4	426.2	62.13	7.861
15,000.0	12,010.0	14,714.0	11,788.6	49.6	29.3	63.04	-2,195.5	1,272.4	488.3	425.4	62.96	7.756
15,100.0	12,010.0	14,814.0	11,788.6	50.1	29.9	63.04	-2,295.5	1,273.1	488.3	424.5	63.83	7.650
15,200.0	12,010.0	14,914.0	11,788.6	50.6	30.5	63.04	-2,395.5	1,273.7	488.3	423.6	64.74	7.543
15,300.0	12,010.0	15,014.0	11,788.6	51.1	31.1	63.04	-2,495.5	1,274.3	488.3	422.7	65.67	7.436
15,400.0	12,010.0	15,114.0	11,788.6	51.6	31.8	63.04	-2,595.5	1,274.9	488.3	421.7	66.64	7.328
15,500.0	12,010.0	15,214.0	11,788.6	52.2	32.4	63.04	-2,695.5	1,275.6	488.3	420.7	67.64	7.220
15,600.0	12,010.0	15,314.0	11,788.6	52.7	33.1	63.04	-2,795.5	1,276.2	488.3	419.7	68.66	7.112
15,700.0	12,010.0	15,414.0	11,788.6	53.3	33.8	63.04	-2,895.5	1,276.8	488.3	418.6	69.71	7.005
15,800.0	12,010.0	15,514.0	11,788.6	53.9	34.5	63.04	-2,995.4	1,277.4	488.3	417.5	70.79	6.898
15,900.0	12,010.0	15,614.0	11,788.6	54.5	35.1	63.04	-3,095.4	1,278.1	488.3	416.4	71.89	6.792
16,000.0	12,010.0	15,714.0	11,788.6	55.1	35.8	63.04	-3,195.4	1,278.7	488.3	415.3	73.01	6.688
16,100.0	12,010.0	15,814.0	11,788.6	55.7	36.6	63.04	-3,295.4	1,279.3	488.3	414.1	74.16	6.584
16,200.0	12,010.0	15,914.0	11,788.6	56.3	37.3	63.04	-3,395.4	1,279.9	488.3	413.0	75.33	6.482
16,300.0	12,010.0	16,014.0	11,788.6	56.9	38.0	63.04	-3,495.4	1,280.6	488.3	411.8	76.52	6.381
16,400.0	12,010.0	16,114.0	11,788.6	57.6	38.7	63.04	-3,595.4	1,281.2	488.3	410.6	77.72	6.282
16,500.0	12,010.0	16,214.0	11,788.6	58.2	39.4	63.04	-3,695.4	1,281.8	488.3	409.3	78.95	6.185
16,600.0	12,010.0	16,314.0	11,788.6	58.9	40.2	63.04	-3,795.4	1,282.5	488.3	408.1	80.19	6.089
16,700.0	12,010.0	16,414.0	11,788.6	59.6	40.9	63.04	-3,895.4	1,283.1	488.3	406.8	81.45	5.995
16,800.0	12,010.0	16,514.0	11,788.6	60.2	41.7	63.03	-3,995.4	1,283.7	488.3	405.5	82.72	5.902
16,900.0	12,010.0	16,614.0	11,788.6	60.9	42.4	63.03	-4,095.4	1,284.3	488.3	404.2	84.02	5.811
17,000.0	12,010.0	16,714.0	11,788.6	61.6	43.2	63.03	-4,195.4	1,285.0	488.2	402.9	85.32	5.723
17,100.0	12,010.0	16,814.0	11,788.6	62.3	43.9	63.03	-4,295.4	1,285.6	488.2	401.6	86.64	5.635

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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		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
17,200.0	12,010.0	16,914.0	11,788.6	63.0	44.7	63.03	-4,395.4	1,286.2	488.2	400.3	87.97	5.550
17,300.0	12,010.0	17,014.0	11,788.6	63.7	45.4	63.03	-4,495.4	1,286.8	488.2	398.9	89.32	5.466
17,400.0	12,010.0	17,114.0	11,788.6	64.4	46.2	63.03	-4,595.4	1,287.5	488.2	397.6	90.67	5.384
17,500.0	12,010.0	17,214.0	11,788.6	65.1	47.0	63.03	-4,695.4	1,288.1	488.2	396.2	92.04	5.304
17,600.0	12,010.0	17,314.0	11,788.6	65.9	47.8	63.03	-4,795.4	1,288.7	488.2	394.8	93.42	5.226
17,700.0	12,010.0	17,414.0	11,788.6	66.6	48.5	63.03	-4,895.4	1,289.3	488.2	393.4	94.81	5.149
17,800.0	12,010.0	17,514.0	11,788.6	67.4	49.3	63.03	-4,995.4	1,290.0	488.2	392.0	96.21	5.074
17,900.0	12,010.0	17,614.0	11,788.6	68.1	50.1	63.03	-5,095.4	1,290.6	488.2	390.6	97.62	5.001
18,000.0	12,010.0	17,714.0	11,788.6	68.9	50.9	63.03	-5,195.4	1,291.2	488.2	389.2	99.04	4.929
18,100.0	12,010.0	17,814.0	11,788.6	69.6	51.7	63.03	-5,295.4	1,291.8	488.2	387.7	100.47	4.859
18,200.0	12,010.0	17,914.0	11,788.6	70.4	52.5	63.03	-5,395.4	1,292.5	488.2	386.3	101.90	4.791
18,300.0	12,010.0	18,014.0	11,788.6	71.1	53.3	63.03	-5,495.4	1,293.1	488.2	384.8	103.35	4.724
18,400.0	12,010.0	18,114.0	11,788.6	71.9	54.0	63.03	-5,595.4	1,293.7	488.2	383.4	104.80	4.658
18,500.0	12,010.0	18,214.0	11,788.6	72.7	54.8	63.03	-5,695.4	1,294.3	488.2	381.9	106.26	4.594
18,600.0	12,010.0	18,314.0	11,788.6	73.5	55.6	63.03	-5,795.4	1,295.0	488.2	380.4	107.73	4.532
18,700.0	12,010.0	18,414.0	11,788.6	74.3	56.4	63.03	-5,895.4	1,295.6	488.2	379.0	109.20	4.470
18,800.0	12,010.0	18,514.0	11,788.6	75.1	57.2	63.03	-5,995.4	1,296.2	488.2	377.5	110.68	4.411
18,900.0	12,010.0	18,614.0	11,788.6	75.8	58.0	63.03	-6,095.4	1,296.8	488.1	376.0	112.17	4.352
19,000.0	12,010.0	18,714.0	11,788.6	76.6	58.9	63.03	-6,195.4	1,297.5	488.1	374.5	113.66	4.295
19,100.0	12,010.0	18,814.0	11,788.6	77.4	59.7	63.03	-6,295.4	1,298.1	488.1	373.0	115.16	4.239
19,200.0	12,010.0	18,914.0	11,788.6	78.3	60.5	63.03	-6,395.4	1,298.7	488.1	371.5	116.66	4.184
19,300.0	12,010.0	19,014.0	11,788.6	79.1	61.3	63.03	-6,495.4	1,299.3	488.1	370.0	118.17	4.131
19,400.0	12,010.0	19,114.0	11,788.6	79.9	62.1	63.03	-6,595.4	1,300.0	488.1	368.4	119.68	4.078
19,500.0	12,010.0	19,214.0	11,788.6	80.7	62.9	63.03	-6,695.4	1,300.6	488.1	366.9	121.20	4.027
19,600.0	12,010.0	19,314.0	11,788.6	81.5	63.7	63.03	-6,795.4	1,301.2	488.1	365.4	122.73	3.977
19,700.0	12,010.0	19,414.0	11,788.6	82.3	64.5	63.03	-6,895.4	1,301.9	488.1	363.9	124.26	3.928
19,800.0	12,010.0	19,514.0	11,788.6	83.2	65.3	63.03	-6,995.4	1,302.5	488.1	362.3	125.79	3.880
19,888.3	12,010.0	19,602.3	11,788.6	83.8	66.1	63.03	-7,083.7	1,303.0	488.1	361.2	126.90	3.846
19,888.3	12,010.0	19,602.3	11,788.6	83.8	66.1	63.03	-7,083.7	1,303.0	488.1	361.2	126.90	3.846
19,888.8	12,010.0	19,602.3	11,788.6	83.8	66.1	63.03	-7,083.7	1,303.0	488.1	361.2	126.89	3.847

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,100.0	7,929.6	8,264.5	8,054.6	29.3	18.6	12.36	717.2	2,198.9	985.3	938.0	47.29	20.836	
8,200.0	8,026.3	8,347.0	8,136.1	29.8	18.8	12.08	723.7	2,187.3	949.0	900.9	48.06	19.747	
8,300.0	8,123.1	8,430.3	8,218.5	30.3	18.9	11.83	729.6	2,176.6	913.7	864.9	48.82	18.714	
8,400.0	8,219.8	8,514.4	8,301.8	30.8	19.1	11.62	734.9	2,166.8	879.4	829.8	49.59	17.734	
8,500.0	8,316.6	8,600.0	8,386.8	31.3	19.2	11.45	739.8	2,158.0	846.2	795.8	50.34	16.809	
8,600.0	8,413.3	8,684.6	8,471.0	31.8	19.4	11.33	744.0	2,150.4	814.0	762.9	51.11	15.928	
8,700.0	8,510.1	8,770.8	8,556.8	32.2	19.5	11.27	747.7	2,143.8	782.9	731.0	51.86	15.096	
8,800.0	8,606.8	8,857.5	8,643.3	32.7	19.7	11.27	750.7	2,138.2	752.8	700.2	52.61	14.311	
8,900.0	8,703.6	8,944.9	8,730.5	33.2	19.8	11.35	753.2	2,133.8	723.9	670.5	53.35	13.568	
9,000.0	8,800.3	9,032.8	8,818.4	33.7	19.9	11.51	755.0	2,130.5	696.0	641.9	54.08	12.868	
9,100.0	8,897.1	9,121.3	8,906.8	34.2	20.0	11.76	756.1	2,128.4	669.2	614.4	54.81	12.210	
9,200.0	8,993.8	9,210.2	8,995.7	34.7	20.1	12.12	756.6	2,127.5	643.6	588.1	55.52	11.592	
9,300.0	9,090.6	9,305.0	9,090.6	35.2	20.2	12.60	756.7	2,127.4	618.8	562.7	56.13	11.024	
9,400.0	9,187.3	9,401.8	9,187.3	35.6	20.2	13.13	756.7	2,127.4	594.1	537.4	56.72	10.474	
9,500.0	9,284.0	9,498.5	9,284.0	36.1	20.3	13.71	756.7	2,127.4	569.4	512.1	57.30	9.937	
9,600.0	9,380.8	9,595.3	9,380.8	36.6	20.3	14.34	756.7	2,127.4	544.8	486.9	57.88	9.413	
9,700.0	9,477.5	9,692.0	9,477.5	37.1	20.4	15.03	756.7	2,127.4	520.3	461.9	58.45	8.902	
9,775.3	9,550.4	9,764.8	9,550.4	37.5	20.4	15.59	756.7	2,127.4	501.9	443.0	58.86	8.526	
9,800.0	9,574.3	9,788.8	9,574.3	37.6	20.4	15.76	756.7	2,127.4	495.9	436.9	59.00	8.406	
9,900.0	9,671.4	9,885.8	9,671.4	38.1	20.5	16.49	756.7	2,127.4	472.8	413.2	59.54	7.941	
10,000.0	9,768.8	9,983.3	9,768.8	38.6	20.6	17.22	756.7	2,127.4	451.3	391.3	60.06	7.515	
10,100.0	9,866.7	10,081.2	9,866.7	39.0	20.6	17.97	756.7	2,127.4	431.6	371.1	60.56	7.127	
10,200.0	9,964.9	10,179.4	9,964.9	39.5	20.7	18.72	756.7	2,127.4	413.6	352.6	61.04	6.776	
10,300.0	10,063.4	10,277.9	10,063.4	39.9	20.7	19.46	756.7	2,127.4	397.3	335.8	61.50	6.461	
10,400.0	10,162.2	10,376.7	10,162.2	40.4	20.8	20.18	756.7	2,127.4	382.8	320.8	61.94	6.179	
10,500.0	10,261.2	10,475.7	10,261.2	40.8	20.8	20.87	756.7	2,127.4	369.9	307.5	62.37	5.930	
10,600.0	10,360.5	10,575.0	10,360.5	41.2	20.9	21.51	756.7	2,127.4	358.6	295.9	62.77	5.713	
10,700.0	10,460.0	10,674.4	10,460.0	41.6	21.0	22.09	756.7	2,127.4	349.1	285.9	63.17	5.526	
10,800.0	10,559.6	10,774.1	10,559.6	42.0	21.0	22.60	756.7	2,127.4	341.2	277.6	63.54	5.369	
10,900.0	10,659.4	10,873.8	10,659.4	42.4	21.1	23.03	756.7	2,127.4	334.9	271.0	63.91	5.240	
11,000.0	10,759.2	10,973.7	10,759.2	42.7	21.1	23.35	756.7	2,127.4	330.2	265.9	64.26	5.138	
11,100.0	10,859.2	11,073.7	10,859.2	43.0	21.2	23.57	756.7	2,127.4	327.1	262.5	64.60	5.064	
11,200.0	10,959.2	11,173.6	10,959.2	43.3	21.3	23.68	756.7	2,127.4	325.7	260.8	64.90	5.018	
11,240.8	11,000.0	11,214.5	11,000.0	43.3	21.3	89.53	756.7	2,127.4	325.6	260.6	64.96	5.011	
11,300.0	11,059.2	11,273.6	11,059.2	43.3	21.3	89.53	756.7	2,127.4	325.6	260.6	65.00	5.009	
11,400.0	11,159.2	11,373.6	11,159.2	43.3	21.4	89.53	756.7	2,127.4	325.6	260.5	65.06	5.004	
11,500.0	11,259.2	11,473.6	11,259.2	43.4	21.4	89.53	756.7	2,127.4	325.6	260.4	65.13	4.999	
11,593.7	11,352.8	11,567.3	11,352.8	43.4	21.5	89.64	756.0	2,127.5	325.6	260.4	65.15	4.997 CC, ES	
11,600.0	11,359.2	11,573.6	11,359.1	43.4	21.5	89.71	755.6	2,127.5	325.6	260.4	65.14	4.998	
11,700.0	11,459.2	11,670.6	11,454.6	43.4	21.4	92.54	739.5	2,127.6	326.0	261.4	64.62	5.045	
11,773.3	11,532.5	11,735.9	11,516.2	43.4	21.3	96.31	718.0	2,127.7	328.2	264.3	63.92	5.135	
11,775.0	11,534.2	11,737.3	11,517.5	43.4	21.3	-92.39	717.4	2,127.7	328.3	264.4	63.90	5.137	
11,800.0	11,559.1	11,758.3	11,536.5	43.4	21.3	-90.79	708.7	2,127.7	329.8	266.1	63.63	5.183	
11,825.0	11,584.1	11,778.9	11,554.9	43.4	21.3	-89.21	699.3	2,127.8	331.7	268.4	63.38	5.234	
11,850.0	11,608.8	11,800.0	11,573.2	43.3	21.3	-87.59	688.8	2,127.9	334.1	271.0	63.12	5.293	
11,875.0	11,633.4	11,819.4	11,589.6	43.3	21.2	-86.09	678.6	2,127.9	336.9	273.9	62.96	5.351	
11,900.0	11,657.7	11,839.2	11,606.0	43.2	21.2	-84.56	667.3	2,128.0	340.0	277.2	62.80	5.414	
11,925.0	11,681.6	11,858.8	11,621.7	43.1	21.2	-83.07	655.6	2,128.1	343.5	280.8	62.68	5.480	
11,950.0	11,705.2	11,878.2	11,636.7	43.1	21.2	-81.61	643.4	2,128.2	347.2	284.6	62.59	5.548	
11,975.0	11,728.2	11,897.3	11,651.1	43.0	21.2	-80.20	630.7	2,128.2	351.3	288.7	62.54	5.617	
12,000.0	11,750.7	11,916.3	11,664.8	43.0	21.2	-78.83	617.6	2,128.3	355.5	293.0	62.52	5.686	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,025.0	11,772.7	11,935.1	11,677.8	42.9	21.2	-77.50	604.0	2,128.4	359.9	297.4	62.54	5.755	
12,050.0	11,793.9	11,953.8	11,690.3	42.8	21.2	-76.23	590.1	2,128.5	364.5	301.9	62.60	5.824	
12,075.0	11,814.5	11,975.0	11,703.7	42.8	21.2	-74.91	573.7	2,128.6	369.3	306.7	62.57	5.902	
12,100.0	11,834.3	11,990.6	11,713.1	42.7	21.2	-73.84	561.3	2,128.7	374.1	311.3	62.80	5.957	
12,125.0	11,853.2	12,008.8	11,723.6	42.7	21.2	-72.72	546.4	2,128.8	379.0	316.1	62.95	6.021	
12,150.0	11,871.3	12,025.0	11,732.4	42.6	21.2	-71.72	532.8	2,128.8	384.0	320.8	63.20	6.075	
12,175.0	11,888.4	12,044.9	11,742.7	42.6	21.2	-70.67	515.7	2,129.0	389.0	325.6	63.32	6.142	
12,200.0	11,904.6	12,062.8	11,751.2	42.5	21.2	-69.73	500.0	2,129.1	393.9	330.4	63.54	6.200	
12,225.0	11,919.8	12,080.6	11,759.2	42.5	21.2	-68.85	484.1	2,129.2	398.9	335.1	63.79	6.254	
12,250.0	11,933.8	12,100.0	11,767.1	42.4	21.2	-68.01	466.4	2,129.3	403.8	339.9	63.98	6.312	
12,275.0	11,946.8	12,115.9	11,773.1	42.4	21.2	-67.27	451.7	2,129.4	408.7	344.4	64.32	6.355	
12,300.0	11,958.7	12,133.5	11,779.2	42.4	21.2	-66.56	435.2	2,129.5	413.5	348.9	64.60	6.401	
12,325.0	11,969.4	12,150.0	11,784.3	42.3	21.2	-65.92	419.5	2,129.6	418.2	353.3	64.93	6.441	
12,350.0	11,978.8	12,168.5	11,789.4	42.3	21.2	-65.32	401.7	2,129.7	422.8	357.6	65.19	6.485	
12,375.0	11,987.1	12,185.9	11,793.5	42.3	21.2	-64.79	384.8	2,129.8	427.2	361.7	65.50	6.523	
12,400.0	11,994.1	12,200.0	11,796.5	42.3	21.2	-64.30	371.0	2,129.9	431.6	365.7	65.90	6.549	
12,425.0	11,999.9	12,220.6	11,800.0	42.3	21.3	-63.88	350.8	2,130.0	435.8	369.6	66.11	6.592	
12,450.0	12,004.3	12,237.9	11,802.3	42.3	21.3	-63.51	333.6	2,130.1	439.8	373.4	66.41	6.623	
12,475.0	12,007.5	12,255.2	11,803.9	42.3	21.3	-63.19	316.4	2,130.2	443.7	377.0	66.71	6.651	
12,500.0	12,009.4	12,275.0	11,805.0	42.3	21.3	-62.94	296.6	2,130.3	447.4	380.5	66.93	6.684	
12,523.3	12,010.0	12,288.6	11,805.3	42.3	21.3	-62.72	283.0	2,130.4	450.7	383.4	67.26	6.701	
12,600.0	12,010.0	12,362.8	11,805.4	42.4	21.4	-63.43	208.8	2,130.9	460.7	393.1	67.61	6.814	
12,700.0	12,010.0	12,462.1	11,805.4	42.5	21.6	-64.15	109.5	2,131.5	471.0	403.0	68.04	6.923	
12,800.0	12,010.0	12,561.8	11,805.4	42.6	21.8	-64.63	9.8	2,132.1	478.3	409.8	68.49	6.984	
12,900.0	12,010.0	12,661.7	11,805.4	42.7	21.9	-64.90	-90.1	2,132.7	482.4	413.5	68.98	6.995	
12,981.1	12,010.0	12,742.8	11,805.4	42.9	22.1	-64.97	-171.1	2,133.2	483.5	414.1	69.39	6.968	
13,000.0	12,010.0	12,761.6	11,805.4	42.9	22.1	-64.97	-190.0	2,133.4	483.5	414.0	69.49	6.958	
13,100.0	12,010.0	12,861.6	11,805.4	43.1	22.4	-64.97	-290.0	2,134.0	483.5	413.5	70.04	6.903	
13,200.0	12,010.0	12,961.6	11,805.4	43.2	22.6	-64.97	-390.0	2,134.6	483.5	412.9	70.64	6.845	
13,300.0	12,010.0	13,061.6	11,805.4	43.4	22.9	-64.97	-490.0	2,135.2	483.5	412.2	71.26	6.785	
13,400.0	12,010.0	13,161.6	11,805.4	43.7	23.1	-64.97	-590.0	2,135.9	483.5	411.6	71.93	6.722	
13,500.0	12,010.0	13,261.6	11,805.4	43.9	23.4	-64.97	-690.0	2,136.5	483.5	410.9	72.63	6.657	
13,600.0	12,010.0	13,361.6	11,805.4	44.2	23.7	-64.97	-790.0	2,137.1	483.5	410.2	73.36	6.591	
13,700.0	12,010.0	13,461.6	11,805.4	44.5	24.1	-64.97	-890.0	2,137.7	483.5	409.4	74.13	6.523	
13,800.0	12,010.0	13,561.6	11,805.4	44.8	24.4	-64.97	-990.0	2,138.4	483.5	408.6	74.92	6.454	
13,900.0	12,010.0	13,661.6	11,805.4	45.1	24.8	-64.97	-1,090.0	2,139.0	483.5	407.8	75.75	6.383	
14,000.0	12,010.0	13,761.6	11,805.4	45.4	25.2	-64.97	-1,190.0	2,139.6	483.5	406.9	76.61	6.312	
14,100.0	12,010.0	13,861.6	11,805.4	45.7	25.6	-64.97	-1,290.0	2,140.2	483.5	406.0	77.49	6.240	
14,200.0	12,010.0	13,961.6	11,805.4	46.1	26.1	-64.97	-1,390.0	2,140.9	483.5	405.1	78.41	6.167	
14,300.0	12,010.0	14,061.6	11,805.4	46.5	26.5	-64.97	-1,490.0	2,141.5	483.5	404.2	79.35	6.094	
14,400.0	12,010.0	14,161.6	11,805.4	46.9	27.0	-64.97	-1,590.0	2,142.1	483.5	403.2	80.32	6.021	
14,500.0	12,010.0	14,261.6	11,805.4	47.3	27.5	-64.97	-1,690.0	2,142.7	483.6	402.2	81.31	5.947	
14,600.0	12,010.0	14,361.6	11,805.4	47.7	28.0	-64.97	-1,790.0	2,143.4	483.6	401.2	82.32	5.874	
14,700.0	12,010.0	14,461.6	11,805.4	48.2	28.5	-64.97	-1,890.0	2,144.0	483.6	400.2	83.36	5.801	
14,800.0	12,010.0	14,561.6	11,805.4	48.6	29.0	-64.97	-1,990.0	2,144.6	483.6	399.1	84.42	5.728	
14,900.0	12,010.0	14,661.6	11,805.4	49.1	29.6	-64.97	-2,090.0	2,145.2	483.6	398.1	85.51	5.655	
15,000.0	12,010.0	14,761.6	11,805.4	49.6	30.2	-64.97	-2,190.0	2,145.9	483.6	397.0	86.61	5.583	
15,100.0	12,010.0	14,861.6	11,805.4	50.1	30.7	-64.97	-2,290.0	2,146.5	483.6	395.8	87.73	5.512	
15,200.0	12,010.0	14,961.6	11,805.4	50.6	31.3	-64.97	-2,390.0	2,147.1	483.6	394.7	88.87	5.441	
15,300.0	12,010.0	15,061.6	11,805.4	51.1	31.9	-64.97	-2,490.0	2,147.7	483.6	393.5	90.04	5.371	
15,400.0	12,010.0	15,161.6	11,805.4	51.6	32.6	-64.97	-2,590.0	2,148.4	483.6	392.4	91.21	5.302	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,500.0	12,010.0	15,261.6	11,805.4	52.2	33.2	-64.97	-2,690.0	2,149.0	483.6	391.2	92.41	5.233	
15,600.0	12,010.0	15,361.6	11,805.4	52.7	33.8	-64.97	-2,790.0	2,149.6	483.6	390.0	93.62	5.165	
15,700.0	12,010.0	15,461.6	11,805.4	53.3	34.5	-64.97	-2,890.0	2,150.2	483.6	388.8	94.85	5.099	
15,800.0	12,010.0	15,561.6	11,805.4	53.9	35.1	-64.97	-2,990.0	2,150.8	483.6	387.5	96.09	5.033	
15,900.0	12,010.0	15,661.6	11,805.4	54.5	35.8	-64.97	-3,090.0	2,151.5	483.6	386.3	97.35	4.968	
16,000.0	12,010.0	15,761.6	11,805.4	55.1	36.5	-64.97	-3,190.0	2,152.1	483.6	385.0	98.62	4.904	
16,100.0	12,010.0	15,861.6	11,805.4	55.7	37.1	-64.97	-3,290.0	2,152.7	483.6	383.7	99.90	4.841	
16,200.0	12,010.0	15,961.6	11,805.4	56.3	37.8	-64.97	-3,390.0	2,153.3	483.6	382.4	101.20	4.779	
16,300.0	12,010.0	16,061.6	11,805.4	56.9	38.5	-64.97	-3,490.0	2,154.0	483.6	381.1	102.51	4.718	
16,400.0	12,010.0	16,161.6	11,805.4	57.6	39.2	-64.97	-3,590.0	2,154.6	483.6	379.8	103.83	4.658	
16,500.0	12,010.0	16,261.6	11,805.4	58.2	39.9	-64.97	-3,690.0	2,155.2	483.6	378.5	105.16	4.599	
16,600.0	12,010.0	16,361.6	11,805.4	58.9	40.6	-64.97	-3,790.0	2,155.8	483.6	377.1	106.51	4.541	
16,700.0	12,010.0	16,461.6	11,805.4	59.6	41.4	-64.97	-3,890.0	2,156.5	483.6	375.8	107.86	4.484	
16,800.0	12,010.0	16,561.6	11,805.4	60.2	42.1	-64.97	-3,990.0	2,157.1	483.6	374.4	109.23	4.428	
16,900.0	12,010.0	16,661.6	11,805.4	60.9	42.8	-64.97	-4,090.0	2,157.7	483.6	373.0	110.60	4.373	
17,000.0	12,010.0	16,761.6	11,805.4	61.6	43.5	-64.97	-4,190.0	2,158.3	483.7	371.7	111.99	4.319	
17,100.0	12,010.0	16,861.6	11,805.4	62.3	44.3	-64.97	-4,290.0	2,159.0	483.7	370.3	113.38	4.266	
17,200.0	12,010.0	16,961.6	11,805.4	63.0	45.0	-64.97	-4,390.0	2,159.6	483.7	368.9	114.78	4.214	
17,300.0	12,010.0	17,061.6	11,805.4	63.7	45.8	-64.97	-4,490.0	2,160.2	483.7	367.5	116.19	4.163	
17,400.0	12,010.0	17,161.6	11,805.4	64.4	46.5	-64.97	-4,590.0	2,160.8	483.7	366.1	117.61	4.112	
17,500.0	12,010.0	17,261.6	11,805.4	65.1	47.3	-64.97	-4,690.0	2,161.5	483.7	364.6	119.04	4.063	
17,600.0	12,010.0	17,361.6	11,805.4	65.9	48.0	-64.98	-4,790.0	2,162.1	483.7	363.2	120.47	4.015	
17,700.0	12,010.0	17,461.6	11,805.4	66.6	48.8	-64.98	-4,890.0	2,162.7	483.7	361.8	121.91	3.967	
17,800.0	12,010.0	17,561.6	11,805.4	67.4	49.6	-64.98	-4,990.0	2,163.3	483.7	360.3	123.36	3.921	
17,900.0	12,010.0	17,661.6	11,805.4	68.1	50.3	-64.98	-5,089.9	2,164.0	483.7	358.9	124.82	3.875	
18,000.0	12,010.0	17,761.6	11,805.4	68.9	51.1	-64.98	-5,189.9	2,164.6	483.7	357.4	126.28	3.830	
18,100.0	12,010.0	17,861.6	11,805.4	69.6	51.9	-64.98	-5,289.9	2,165.2	483.7	355.9	127.75	3.786	
18,200.0	12,010.0	17,961.6	11,805.4	70.4	52.7	-64.98	-5,389.9	2,165.8	483.7	354.5	129.22	3.743	
18,300.0	12,010.0	18,061.6	11,805.4	71.1	53.4	-64.98	-5,489.9	2,166.5	483.7	353.0	130.70	3.701	
18,400.0	12,010.0	18,161.6	11,805.4	71.9	54.2	-64.98	-5,589.9	2,167.1	483.7	351.5	132.19	3.659	
18,500.0	12,010.0	18,261.6	11,805.4	72.7	55.0	-64.98	-5,689.9	2,167.7	483.7	350.0	133.68	3.618	
18,600.0	12,010.0	18,361.6	11,805.4	73.5	55.8	-64.98	-5,789.9	2,168.3	483.7	348.5	135.18	3.578	
18,700.0	12,010.0	18,461.6	11,805.4	74.3	56.6	-64.98	-5,889.9	2,169.0	483.7	347.0	136.68	3.539	
18,800.0	12,010.0	18,561.6	11,805.4	75.1	57.4	-64.98	-5,989.9	2,169.6	483.7	345.5	138.19	3.500	
18,900.0	12,010.0	18,661.6	11,805.4	75.8	58.2	-64.98	-6,089.9	2,170.2	483.7	344.0	139.70	3.463	
19,000.0	12,010.0	18,761.6	11,805.4	76.6	58.9	-64.98	-6,189.9	2,170.8	483.7	342.5	141.22	3.425	
19,100.0	12,010.0	18,861.6	11,805.4	77.4	59.7	-64.98	-6,289.9	2,171.5	483.7	341.0	142.74	3.389	
19,200.0	12,010.0	18,961.6	11,805.4	78.3	60.5	-64.98	-6,389.9	2,172.1	483.7	339.5	144.27	3.353	
19,300.0	12,010.0	19,061.6	11,805.4	79.1	61.3	-64.98	-6,489.9	2,172.7	483.7	337.9	145.80	3.318	
19,400.0	12,010.0	19,161.6	11,805.4	79.9	62.1	-64.98	-6,589.9	2,173.3	483.7	336.4	147.33	3.283	
19,500.0	12,010.0	19,261.6	11,805.4	80.7	62.9	-64.98	-6,689.9	2,174.0	483.7	334.9	148.87	3.249	
19,600.0	12,010.0	19,361.6	11,805.4	81.5	63.7	-64.98	-6,789.9	2,174.6	483.8	333.3	150.42	3.216	
19,700.0	12,010.0	19,461.6	11,805.4	82.3	64.6	-64.98	-6,889.9	2,175.2	483.8	331.8	151.96	3.183	
19,800.0	12,010.0	19,561.6	11,805.4	83.2	65.4	-64.98	-6,989.9	2,175.8	483.8	330.3	153.51	3.151	
19,888.3	12,010.0	19,649.9	11,805.4	83.8	66.2	-64.98	-7,078.1	2,176.4	483.8	329.3	154.47	3.132	
19,888.8	12,010.0	19,649.9	11,805.4	83.8	66.2	-64.98	-7,078.1	2,176.4	483.8	329.3	154.48	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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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)			
10,100.0	9,866.7	10,008.9	9,866.7	39.0	30.5	21.19	765.1	2,681.1	984.2	920.6	63.55	15.488	
10,200.0	9,964.9	10,107.1	9,964.9	39.5	30.6	21.53	765.1	2,681.1	966.5	902.4	64.09	15.081	
10,300.0	10,063.4	10,205.6	10,063.4	39.9	30.6	21.85	765.1	2,681.1	950.5	885.9	64.62	14.709	
10,400.0	10,162.2	10,304.4	10,162.2	40.4	30.7	22.15	765.1	2,681.1	936.1	871.0	65.13	14.372	
10,500.0	10,261.2	10,403.5	10,261.2	40.8	30.7	22.42	765.1	2,681.1	923.4	857.7	65.63	14.069	
10,600.0	10,360.5	10,502.7	10,360.5	41.2	30.7	22.67	765.1	2,681.1	912.2	846.1	66.11	13.798	
10,700.0	10,460.0	10,602.2	10,460.0	41.6	30.8	22.88	765.1	2,681.1	902.8	836.2	66.58	13.559	
10,800.0	10,559.6	10,701.8	10,559.6	42.0	30.8	23.06	765.1	2,681.1	894.9	827.8	67.02	13.352	
10,900.0	10,659.4	10,801.6	10,659.4	42.4	30.9	23.21	765.1	2,681.1	888.6	821.2	67.44	13.176	
11,000.0	10,759.2	10,901.5	10,759.2	42.7	30.9	23.32	765.1	2,681.1	883.9	816.1	67.84	13.030	
11,100.0	10,859.2	11,001.4	10,859.2	43.0	30.9	23.39	765.1	2,681.1	880.9	812.7	68.20	12.916	
11,200.0	10,959.2	11,101.4	10,959.2	43.3	31.0	23.43	765.1	2,681.1	879.4	810.9	68.51	12.837	
11,240.8	11,000.0	11,142.2	11,000.0	43.3	31.0	89.28	765.1	2,681.1	879.3	810.7	68.57	12.823	
11,300.0	11,059.2	11,201.4	11,059.2	43.3	31.0	89.28	765.1	2,681.1	879.3	810.7	68.60	12.817	
11,400.0	11,159.2	11,301.4	11,159.2	43.3	31.1	89.28	765.1	2,681.1	879.3	810.6	68.67	12.805	
11,500.0	11,259.2	11,401.4	11,259.2	43.4	31.1	89.28	765.1	2,681.1	879.3	810.6	68.73	12.793	
11,600.0	11,359.2	11,501.4	11,359.2	43.4	31.2	89.28	765.1	2,681.1	879.3	810.5	68.80	12.780	
11,700.0	11,459.2	11,601.4	11,459.2	43.4	31.2	89.28	765.1	2,681.1	879.3	810.4	68.87	12.768	
11,773.3	11,532.5	11,674.7	11,532.5	43.4	31.2	89.28	765.1	2,681.1	879.3	810.4	68.91	12.760	
11,775.0	11,534.2	11,676.4	11,534.2	43.4	31.2	-99.52	765.1	2,681.1	879.3	810.4	68.91	12.760	
11,800.0	11,559.1	11,705.5	11,563.3	43.4	31.2	-99.56	764.9	2,681.1	879.4	810.5	68.88	12.766	
11,825.0	11,584.1	11,741.7	11,599.4	43.4	31.2	-99.59	762.6	2,680.7	879.5	810.7	68.79	12.785	
11,850.0	11,608.8	11,778.0	11,635.3	43.3	31.1	-99.58	757.5	2,679.9	879.4	810.7	68.68	12.804	
11,875.0	11,633.4	11,814.1	11,670.6	43.3	31.0	-99.52	749.8	2,678.7	879.3	810.7	68.56	12.824	
11,900.0	11,657.7	11,850.1	11,705.0	43.2	30.9	-99.42	739.5	2,677.1	879.0	810.6	68.44	12.844	
11,925.0	11,681.6	11,885.9	11,738.4	43.1	30.8	-99.29	726.8	2,675.1	878.7	810.4	68.31	12.863	
11,950.0	11,705.2	11,921.4	11,770.4	43.1	30.7	-99.11	711.8	2,672.8	878.3	810.1	68.19	12.881	
11,975.0	11,728.2	11,956.4	11,800.9	43.0	30.6	-98.90	694.6	2,670.1	877.8	809.7	68.06	12.898	
12,000.0	11,750.7	11,991.1	11,829.7	43.0	30.5	-98.65	675.6	2,667.1	877.2	809.3	67.94	12.912	
12,025.0	11,772.7	12,025.3	11,856.7	42.9	30.5	-98.37	654.8	2,663.9	876.6	808.8	67.83	12.924	
12,050.0	11,793.9	12,059.0	11,881.7	42.8	30.4	-98.06	632.6	2,660.4	875.9	808.2	67.72	12.934	
12,075.0	11,814.5	12,092.1	11,904.7	42.8	30.3	-97.73	609.1	2,656.7	875.2	807.6	67.63	12.942	
12,100.0	11,834.3	12,124.6	11,925.6	42.7	30.2	-97.37	584.5	2,652.8	874.5	806.9	67.54	12.947	
12,125.0	11,853.2	12,156.5	11,944.4	42.7	30.2	-96.99	559.0	2,648.9	873.7	806.2	67.47	12.949	
12,150.0	11,871.3	12,187.8	11,961.2	42.6	30.1	-96.59	532.9	2,644.8	872.9	805.5	67.41	12.949	
12,175.0	11,888.4	12,218.5	11,976.0	42.6	30.1	-96.17	506.3	2,640.6	872.2	804.8	67.37	12.947	
12,200.0	11,904.6	12,248.6	11,988.7	42.5	30.1	-95.74	479.4	2,636.4	871.4	804.1	67.33	12.942	
12,225.0	11,919.8	12,278.1	11,999.5	42.5	30.0	-95.30	452.3	2,632.1	870.7	803.4	67.31	12.936	
12,250.0	11,933.8	12,307.0	12,008.4	42.4	30.0	-94.85	425.1	2,627.9	870.0	802.7	67.30	12.927	
12,275.0	11,946.8	12,335.3	12,015.5	42.4	30.0	-94.39	398.0	2,623.6	869.4	802.1	67.30	12.917	
12,300.0	11,958.7	12,363.1	12,020.8	42.4	30.0	-93.93	371.1	2,619.4	868.7	801.4	67.32	12.906	
12,325.0	11,969.4	12,390.3	12,024.6	42.3	30.0	-93.46	344.5	2,615.3	868.2	800.9	67.34	12.893	
12,350.0	11,978.8	12,417.0	12,026.7	42.3	30.0	-92.98	318.2	2,611.1	867.7	800.3	67.38	12.879	
12,375.0	11,987.1	12,442.1	12,027.4	42.3	30.1	-92.52	293.4	2,607.3	867.3	799.8	67.43	12.862	
12,400.0	11,994.1	12,461.3	12,027.4	42.3	30.1	-92.20	274.4	2,604.3	867.0	799.5	67.53	12.840	
12,412.6	11,997.2	12,470.7	12,027.4	42.3	30.1	-92.05	265.1	2,603.0	867.0	799.4	67.58	12.830 CC	
12,425.0	11,999.9	12,480.0	12,027.4	42.3	30.1	-91.91	255.9	2,601.6	867.0	799.4	67.62	12.821	
12,450.0	12,004.3	12,500.0	12,027.4	42.3	30.1	-91.65	236.1	2,598.9	867.3	799.5	67.71	12.809	
12,475.0	12,007.5	12,517.9	12,027.4	42.3	30.1	-91.45	218.4	2,596.5	867.7	799.9	67.80	12.798	
12,500.0	12,009.4	12,537.0	12,027.4	42.3	30.2	-91.27	199.4	2,594.1	868.4	800.5	67.88	12.792	
12,523.3	12,010.0	12,554.9	12,027.4	42.3	30.2	-91.15	181.6	2,592.0	869.2	801.2	67.95	12.791	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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)			
12,600.0	12,010.0	12,613.7	12,027.4	42.4	30.3	-91.14	123.2	2,585.8	871.8	803.6	68.17	12.788	
12,700.0	12,010.0	12,700.0	12,027.4	42.5	30.4	-91.14	37.2	2,578.9	874.6	806.1	68.46	12.776	
12,800.0	12,010.0	12,766.9	12,027.4	42.6	30.5	-91.14	-29.6	2,575.3	876.4	807.6	68.83	12.734	
12,900.0	12,010.0	12,843.5	12,027.4	42.7	30.6	-91.14	-106.2	2,573.1	877.5	808.4	69.18	12.685	
12,981.1	12,010.0	12,905.6	12,027.4	42.9	30.7	-91.14	-168.3	2,572.8	877.8	808.4	69.46	12.637	
13,000.0	12,010.0	12,924.5	12,027.4	42.9	30.8	-91.14	-187.2	2,572.9	877.8	808.3	69.53	12.626	
13,100.0	12,010.0	13,024.5	12,027.4	43.1	30.9	-91.14	-287.2	2,573.6	877.8	807.9	69.90	12.559	
13,200.0	12,010.0	13,124.5	12,027.4	43.2	31.1	-91.14	-387.2	2,574.2	877.8	807.5	70.32	12.484	
13,300.0	12,010.0	13,224.5	12,027.4	43.4	31.4	-91.14	-487.2	2,574.8	877.9	807.1	70.79	12.402	
13,400.0	12,010.0	13,324.5	12,027.4	43.7	31.6	-91.14	-587.2	2,575.5	877.9	806.6	71.30	12.312	
13,500.0	12,010.0	13,424.5	12,027.4	43.9	31.9	-91.14	-687.2	2,576.1	877.9	806.0	71.87	12.215	
13,600.0	12,010.0	13,524.5	12,027.4	44.2	32.2	-91.14	-787.2	2,576.7	877.9	805.4	72.48	12.113	
13,700.0	12,010.0	13,624.5	12,027.4	44.5	32.5	-91.14	-887.2	2,577.4	877.9	804.8	73.13	12.005	
13,800.0	12,010.0	13,724.5	12,027.4	44.8	32.8	-91.14	-987.2	2,578.0	877.9	804.1	73.83	11.891	
13,900.0	12,010.0	13,824.5	12,027.4	45.1	33.2	-91.14	-1,087.2	2,578.6	877.9	803.4	74.57	11.774	
14,000.0	12,010.0	13,924.5	12,027.4	45.4	33.5	-91.14	-1,187.2	2,579.2	877.9	802.6	75.35	11.652	
14,100.0	12,010.0	14,024.5	12,027.4	45.7	33.9	-91.14	-1,287.2	2,579.9	877.9	801.8	76.17	11.526	
14,200.0	12,010.0	14,124.5	12,027.4	46.1	34.4	-91.14	-1,387.2	2,580.5	877.9	800.9	77.03	11.398	
14,300.0	12,010.0	14,224.5	12,027.4	46.5	34.8	-91.14	-1,487.2	2,581.1	878.0	800.0	77.92	11.267	
14,400.0	12,010.0	14,324.5	12,027.4	46.9	35.3	-91.14	-1,587.2	2,581.8	878.0	799.1	78.85	11.134	
14,500.0	12,010.0	14,424.5	12,027.4	47.3	35.8	-91.14	-1,687.2	2,582.4	878.0	798.2	79.82	10.999	
14,600.0	12,010.0	14,524.5	12,027.4	47.7	36.3	-91.14	-1,787.2	2,583.0	878.0	797.2	80.82	10.864	
14,700.0	12,010.0	14,624.5	12,027.4	48.2	36.8	-91.14	-1,887.2	2,583.7	878.0	796.1	81.85	10.727	
14,800.0	12,010.0	14,724.5	12,027.4	48.6	37.3	-91.14	-1,987.2	2,584.3	878.0	795.1	82.91	10.589	
14,900.0	12,010.0	14,824.5	12,027.4	49.1	37.9	-91.14	-2,087.2	2,584.9	878.0	794.0	84.01	10.452	
15,000.0	12,010.0	14,924.5	12,027.4	49.6	38.5	-91.14	-2,187.2	2,585.5	878.0	792.9	85.13	10.314	
15,100.0	12,010.0	15,024.5	12,027.4	50.1	39.1	-91.14	-2,287.2	2,586.2	878.0	791.8	86.28	10.177	
15,200.0	12,010.0	15,124.5	12,027.4	50.6	39.7	-91.14	-2,387.2	2,586.8	878.1	790.6	87.45	10.040	
15,300.0	12,010.0	15,224.5	12,027.4	51.1	40.4	-91.14	-2,487.2	2,587.4	878.1	789.4	88.65	9.905	
15,400.0	12,010.0	15,324.5	12,027.4	51.6	41.0	-91.14	-2,587.2	2,588.1	878.1	788.2	89.88	9.770	
15,500.0	12,010.0	15,424.5	12,027.4	52.2	41.7	-91.14	-2,687.2	2,588.7	878.1	787.0	91.12	9.636	
15,600.0	12,010.0	15,524.5	12,027.4	52.7	42.4	-91.14	-2,787.2	2,589.3	878.1	785.7	92.40	9.504	
15,700.0	12,010.0	15,624.5	12,027.4	53.3	43.0	-91.14	-2,887.2	2,590.0	878.1	784.4	93.69	9.373	
15,800.0	12,010.0	15,724.5	12,027.4	53.9	43.7	-91.14	-2,987.2	2,590.6	878.1	783.1	95.00	9.243	
15,900.0	12,010.0	15,824.5	12,027.4	54.5	44.5	-91.14	-3,087.2	2,591.2	878.1	781.8	96.33	9.116	
16,000.0	12,010.0	15,924.5	12,027.4	55.1	45.2	-91.14	-3,187.2	2,591.9	878.1	780.5	97.68	8.990	
16,100.0	12,010.0	16,024.5	12,027.4	55.7	45.9	-91.14	-3,287.2	2,592.5	878.1	779.1	99.05	8.866	
16,200.0	12,010.0	16,124.5	12,027.4	56.3	46.7	-91.14	-3,387.2	2,593.1	878.2	777.7	100.44	8.743	
16,300.0	12,010.0	16,224.5	12,027.4	56.9	47.4	-91.14	-3,487.2	2,593.7	878.2	776.3	101.84	8.623	
16,400.0	12,010.0	16,324.5	12,027.4	57.6	48.2	-91.14	-3,587.2	2,594.4	878.2	774.9	103.26	8.504	
16,500.0	12,010.0	16,424.5	12,027.4	58.2	49.0	-91.14	-3,687.2	2,595.0	878.2	773.5	104.69	8.388	
16,600.0	12,010.0	16,524.5	12,027.4	58.9	49.7	-91.14	-3,787.2	2,595.6	878.2	772.1	106.14	8.274	
16,700.0	12,010.0	16,624.5	12,027.4	59.6	50.5	-91.14	-3,887.2	2,596.3	878.2	770.6	107.61	8.161	
16,800.0	12,010.0	16,724.5	12,027.4	60.2	51.3	-91.14	-3,987.2	2,596.9	878.2	769.1	109.08	8.051	
16,900.0	12,010.0	16,824.5	12,027.4	60.9	52.1	-91.14	-4,087.2	2,597.5	878.2	767.7	110.57	7.942	
17,000.0	12,010.0	16,924.5	12,027.4	61.6	52.9	-91.14	-4,187.2	2,598.2	878.2	766.2	112.08	7.836	
17,100.0	12,010.0	17,024.5	12,027.4	62.3	53.7	-91.14	-4,287.2	2,598.8	878.3	764.7	113.59	7.732	
17,200.0	12,010.0	17,124.5	12,027.4	63.0	54.6	-91.14	-4,387.2	2,599.4	878.3	763.1	115.12	7.629	
17,300.0	12,010.0	17,224.5	12,027.4	63.7	55.4	-91.14	-4,487.2	2,600.1	878.3	761.6	116.65	7.529	
17,400.0	12,010.0	17,324.5	12,027.4	64.4	56.2	-91.14	-4,587.2	2,600.7	878.3	760.1	118.20	7.430	
17,500.0	12,010.0	17,424.5	12,027.4	65.1	57.0	-91.14	-4,687.2	2,601.3	878.3	758.5	119.76	7.334	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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)			
17,600.0	12,010.0	17,524.5	12,027.4	65.9	57.9	-91.14	-4,787.2	2,601.9	878.3	757.0	121.33	7.239	
17,700.0	12,010.0	17,624.5	12,027.4	66.6	58.7	-91.14	-4,887.2	2,602.6	878.3	755.4	122.90	7.146	
17,800.0	12,010.0	17,724.5	12,027.4	67.4	59.6	-91.14	-4,987.1	2,603.2	878.3	753.8	124.49	7.055	
17,900.0	12,010.0	17,824.5	12,027.4	68.1	60.4	-91.14	-5,087.1	2,603.8	878.3	752.2	126.09	6.966	
18,000.0	12,010.0	17,924.5	12,027.4	68.9	61.3	-91.14	-5,187.1	2,604.5	878.3	750.7	127.69	6.879	
18,100.0	12,010.0	18,024.5	12,027.4	69.6	62.1	-91.14	-5,287.1	2,605.1	878.4	749.1	129.30	6.793	
18,200.0	12,010.0	18,124.5	12,027.4	70.4	63.0	-91.14	-5,387.1	2,605.7	878.4	747.4	130.92	6.709	
18,300.0	12,010.0	18,224.5	12,027.4	71.1	63.9	-91.14	-5,487.1	2,606.4	878.4	745.8	132.55	6.627	
18,400.0	12,010.0	18,324.5	12,027.4	71.9	64.7	-91.14	-5,587.1	2,607.0	878.4	744.2	134.18	6.546	
18,500.0	12,010.0	18,424.5	12,027.4	72.7	65.6	-91.14	-5,687.1	2,607.6	878.4	742.6	135.82	6.467	
18,600.0	12,010.0	18,524.5	12,027.4	73.5	66.5	-91.14	-5,787.1	2,608.2	878.4	740.9	137.47	6.390	
18,700.0	12,010.0	18,624.5	12,027.4	74.3	67.3	-91.14	-5,887.1	2,608.9	878.4	739.3	139.12	6.314	
18,800.0	12,010.0	18,724.5	12,027.4	75.1	68.2	-91.13	-5,987.1	2,609.5	878.4	737.6	140.78	6.240	
18,900.0	12,010.0	18,824.5	12,027.4	75.8	69.1	-91.13	-6,087.1	2,610.1	878.4	736.0	142.45	6.167	
19,000.0	12,010.0	18,924.5	12,027.4	76.6	70.0	-91.13	-6,187.1	2,610.8	878.4	734.3	144.12	6.095	
19,100.0	12,010.0	19,024.5	12,027.4	77.4	70.9	-91.13	-6,287.1	2,611.4	878.5	732.7	145.80	6.025	
19,200.0	12,010.0	19,124.5	12,027.4	78.3	71.8	-91.13	-6,387.1	2,612.0	878.5	731.0	147.48	5.956	
19,300.0	12,010.0	19,224.5	12,027.4	79.1	72.6	-91.13	-6,487.1	2,612.7	878.5	729.3	149.17	5.889	
19,400.0	12,010.0	19,324.5	12,027.4	79.9	73.5	-91.13	-6,587.1	2,613.3	878.5	727.6	150.87	5.823	
19,500.0	12,010.0	19,424.5	12,027.4	80.7	74.4	-91.13	-6,687.1	2,613.9	878.5	725.9	152.56	5.758	
19,600.0	12,010.0	19,524.5	12,027.4	81.5	75.3	-91.13	-6,787.1	2,614.6	878.5	724.2	154.27	5.695	
19,700.0	12,010.0	19,624.5	12,027.4	82.3	76.2	-91.13	-6,887.1	2,615.2	878.5	722.5	155.98	5.632	
19,800.0	12,010.0	19,724.5	12,027.4	83.2	77.1	-91.13	-6,987.1	2,615.8	878.5	720.8	157.69	5.571	
19,888.3	12,010.0	19,812.8	12,027.4	83.8	77.9	-91.13	-7,075.4	2,616.4	878.5	719.6	158.91	5.528	
19,888.8	12,010.0	19,812.8	12,027.4	83.8	77.9	-91.13	-7,075.4	2,616.4	878.5	719.6	158.92	5.528 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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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 801H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Reference Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.2	0.0	3.0	3.0	89.66	0.1	20.0	20.0					
100.0	100.0	100.2	100.0	3.1	3.1	89.66	0.1	20.0	20.0	13.4	6.62	3.021		
200.0	200.0	200.2	200.0	3.3	3.3	89.66	0.1	20.0	20.0	12.9	7.07	2.828	Normal Operations	
300.0	300.0	300.2	300.0	3.6	3.6	89.66	0.1	20.0	20.0	12.5	7.50	2.668	Normal Operations	
400.0	400.0	400.2	400.0	3.8	3.8	89.66	0.1	20.0	20.0	12.1	7.90	2.531	Normal Operations	
500.0	500.0	500.2	500.0	4.0	4.0	89.66	0.1	20.0	20.0	11.7	8.29	2.413	Caution - Monitor Closely	
600.0	600.0	600.2	600.0	4.1	4.1	89.66	0.1	20.0	20.0	11.3	8.66	2.309	Caution - Monitor Closely	
700.0	700.0	700.2	700.0	4.3	4.3	89.66	0.1	20.0	20.0	11.0	9.02	2.218	Caution - Monitor Closely	
800.0	800.0	800.2	800.0	4.5	4.5	89.66	0.1	20.0	20.0	10.6	9.37	2.135	Caution - Monitor Closely	
900.0	900.0	900.2	900.0	4.7	4.7	89.66	0.1	20.0	20.0	10.3	9.70	2.061	Caution - Monitor Closely	
1,000.0	1,000.0	1,000.2	1,000.0	4.8	4.8	89.66	0.1	20.0	20.0	10.0	10.03	1.994	Caution - Monitor Closely	
1,100.0	1,100.0	1,100.2	1,100.0	5.0	5.0	89.66	0.1	20.0	20.0	9.6	10.35	1.932	Caution - Monitor Closely	
1,200.0	1,200.0	1,200.2	1,200.0	5.2	5.2	89.66	0.1	20.0	20.0	9.3	10.66	1.876	Caution - Monitor Closely	
1,300.0	1,300.0	1,300.2	1,300.0	5.3	5.3	89.66	0.1	20.0	20.0	9.0	10.97	1.824	Caution - Monitor Closely	
1,400.0	1,400.0	1,400.2	1,400.0	5.5	5.5	89.66	0.1	20.0	20.0	8.7	11.27	1.775	Caution - Monitor Closely	
1,500.0	1,500.0	1,500.2	1,500.0	5.6	5.6	89.66	0.1	20.0	20.0	8.4	11.56	1.730	Caution - Monitor Closely	
1,600.0	1,600.0	1,600.2	1,600.0	5.8	5.8	89.66	0.1	20.0	20.0	8.2	11.85	1.688	Caution - Monitor Closely	
1,700.0	1,700.0	1,700.2	1,700.0	5.9	5.9	89.66	0.1	20.0	20.0	7.9	12.13	1.649	Caution - Monitor Closely	
1,800.0	1,800.0	1,800.2	1,800.0	6.0	6.0	89.66	0.1	20.0	20.0	7.6	12.41	1.612	Caution - Monitor Closely	
1,900.0	1,900.0	1,900.2	1,900.0	6.2	6.2	89.66	0.1	20.0	20.0	7.3	12.68	1.577	Caution - Monitor Closely	
1,966.6	1,966.6	1,966.8	1,966.6	6.3	6.3	89.66	0.1	20.0	20.0	7.1	12.86	1.555	Caution - Monitor Closely, CC	
2,000.0	2,000.0	2,000.2	2,000.0	6.3	6.3	89.66	0.1	20.0	20.0	7.0	12.95	1.544	Caution - Monitor Closely, ES, SF	
2,100.0	2,100.0	2,100.0	2,099.8	6.5	6.5	-88.37	1.7	20.7	20.7	7.5	13.22	1.564	Caution - Monitor Closely	
2,200.0	2,199.9	2,198.9	2,198.6	6.6	6.8	-107.93	6.5	22.7	24.7	11.2	13.51	1.830	Caution - Monitor Closely	
2,300.0	2,299.7	2,297.0	2,296.2	6.8	7.0	-126.78	14.3	26.0	35.4	21.6	13.88	2.553	Normal Operations	
2,333.3	2,332.9	2,329.3	2,328.4	6.8	7.1	-131.51	17.5	27.4	40.6	26.7	13.98	2.907	Normal Operations	
2,400.0	2,399.4	2,393.7	2,392.3	6.9	7.2	-123.86	25.0	30.5	52.3	38.0	14.20	3.679		
2,500.0	2,499.1	2,489.6	2,487.0	7.0	7.5	-104.90	38.6	36.3	70.7	56.1	14.64	4.829		
2,600.0	2,598.7	2,587.2	2,583.1	7.2	7.7	-87.44	54.3	42.9	89.1	74.0	15.05	5.918		
2,700.0	2,698.2	2,685.6	2,680.0	7.4	8.0	-76.69	70.3	49.7	105.1	89.7	15.43	6.811		
2,800.0	2,797.4	2,784.3	2,777.1	7.6	8.2	-71.32	86.3	56.5	119.0	103.2	15.80	7.528		
2,900.0	2,896.2	2,883.1	2,874.4	7.7	8.5	-69.37	102.3	63.3	130.8	114.6	16.16	8.095		
3,000.0	2,994.5	2,981.9	2,971.7	7.9	8.8	-69.64	118.3	70.0	141.0	124.4	16.51	8.539		
3,100.0	3,092.1	3,080.7	3,068.9	8.2	9.1	-71.49	134.3	76.8	149.8	133.0	16.84	8.898		
3,162.7	3,152.9	3,142.4	3,129.7	8.3	9.3	-73.29	144.4	81.1	154.9	137.9	17.01	9.111		
3,200.0	3,189.0	3,179.2	3,165.9	8.4	9.4	-75.34	150.3	83.6	158.0	140.9	17.10	9.244		
3,300.0	3,285.8	3,277.7	3,262.8	8.6	9.7	-80.46	166.3	90.3	167.3	149.9	17.39	9.616		
3,400.0	3,382.5	3,376.2	3,359.8	8.9	10.1	-85.01	182.3	97.1	177.7	160.0	17.69	10.043		
3,500.0	3,479.3	3,474.7	3,456.8	9.2	10.4	-89.05	198.2	103.9	189.1	171.1	18.00	10.509		
3,600.0	3,576.0	3,573.2	3,553.7	9.5	10.7	-92.62	214.2	110.6	201.4	183.1	18.31	11.001		
3,700.0	3,672.8	3,671.7	3,650.7	9.9	11.1	-95.77	230.2	117.4	214.3	195.7	18.63	11.506		
3,800.0	3,769.5	3,770.2	3,747.6	10.2	11.5	-98.57	246.1	124.1	227.9	208.9	18.96	12.017		
3,900.0	3,866.3	3,868.7	3,844.6	10.6	11.8	-101.04	262.1	130.9	241.9	222.6	19.31	12.527		
4,000.0	3,963.0	3,967.2	3,941.6	10.9	12.2	-103.25	278.1	137.7	256.3	236.6	19.67	13.031		
4,100.0	4,059.7	4,065.7	4,038.5	11.3	12.6	-105.22	294.0	144.4	271.0	251.0	20.04	13.525		
4,200.0	4,156.5	4,164.2	4,135.5	11.7	13.0	-106.98	310.0	151.2	286.0	265.6	20.42	14.006		
4,300.0	4,253.2	4,262.7	4,232.4	12.1	13.4	-108.57	326.0	157.9	301.3	280.5	20.82	14.473		
4,400.0	4,350.0	4,361.2	4,329.4	12.5	13.8	-110.01	342.0	164.7	316.7	295.5	21.22	14.924		
4,500.0	4,446.7	4,459.7	4,426.4	12.9	14.2	-111.31	357.9	171.5	332.4	310.8	21.64	15.360		
4,600.0	4,543.5	4,558.2	4,523.3	13.3	14.6	-112.50	373.9	178.2	348.2	326.1	22.07	15.778		
4,700.0	4,640.2	4,656.7	4,620.3	13.7	15.0	-113.58	389.9	185.0	364.1	341.6	22.50	16.180		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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 801H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
4,800.0	4,737.0	4,755.2	4,717.2	14.1	15.4	-114.57	405.8	191.7	380.2	357.2	22.95	16.565		
4,900.0	4,833.7	4,853.7	4,814.2	14.5	15.8	-115.49	421.8	198.5	396.3	372.9	23.40	16.935		
5,000.0	4,930.5	4,952.2	4,911.1	15.0	16.2	-116.33	437.8	205.3	412.6	388.7	23.86	17.288		
5,100.0	5,027.2	5,050.7	5,008.1	15.4	16.6	-117.10	453.7	212.0	428.9	404.5	24.33	17.626		
5,200.0	5,124.0	5,149.2	5,105.1	15.8	17.0	-117.82	469.7	218.8	445.3	420.5	24.81	17.949		
5,300.0	5,220.7	5,247.7	5,202.0	16.3	17.4	-118.49	485.7	225.5	461.7	436.4	25.29	18.259		
5,400.0	5,317.4	5,346.2	5,299.0	16.7	17.8	-119.11	501.7	232.3	478.2	452.5	25.78	18.554		
5,500.0	5,414.2	5,444.7	5,395.9	17.2	18.3	-119.70	517.6	239.0	494.8	468.5	26.27	18.837		
5,600.0	5,510.9	5,543.2	5,492.9	17.6	18.7	-120.24	533.6	245.8	511.4	484.6	26.77	19.107		
5,700.0	5,607.7	5,641.7	5,589.9	18.1	19.1	-120.75	549.6	252.6	528.1	500.8	27.27	19.365		
5,800.0	5,704.4	5,740.2	5,686.8	18.5	19.5	-121.23	565.5	259.3	544.8	517.0	27.78	19.613		
5,900.0	5,801.2	5,838.7	5,783.8	19.0	19.9	-121.68	581.5	266.1	561.5	533.2	28.29	19.849		
6,000.0	5,897.9	5,937.2	5,880.7	19.4	20.4	-122.10	597.5	272.8	578.2	549.4	28.80	20.075		
6,100.0	5,994.7	6,035.7	5,977.7	19.9	20.8	-122.50	613.4	279.6	595.0	565.7	29.32	20.292		
6,200.0	6,091.4	6,134.2	6,074.7	20.3	21.2	-122.88	629.4	286.4	611.8	582.0	29.85	20.500		
6,300.0	6,188.2	6,232.7	6,171.6	20.8	21.7	-123.24	645.4	293.1	628.7	598.3	30.37	20.699		
6,400.0	6,284.9	6,331.2	6,268.6	21.3	22.1	-123.58	661.4	299.9	645.5	614.6	30.90	20.889		
6,500.0	6,381.7	6,429.7	6,365.5	21.7	22.5	-123.90	677.3	306.6	662.4	631.0	31.44	21.072		
6,600.0	6,478.4	6,528.2	6,462.5	22.2	23.0	-124.21	693.3	313.4	679.3	647.3	31.97	21.248		
6,700.0	6,575.2	6,626.7	6,559.5	22.7	23.4	-124.50	709.3	320.2	696.2	663.7	32.51	21.416		
6,800.0	6,671.9	6,725.2	6,656.4	23.1	23.8	-124.77	725.2	326.9	713.2	680.1	33.05	21.578		
6,900.0	6,768.6	6,823.7	6,753.4	23.6	24.2	-125.04	741.2	333.7	730.1	696.5	33.59	21.733		
7,000.0	6,865.4	6,922.1	6,850.3	24.1	24.7	-125.29	757.2	340.4	747.1	712.9	34.14	21.882		
7,100.0	6,962.1	7,020.6	6,947.3	24.6	25.1	-125.53	773.1	347.2	764.1	729.4	34.69	22.026		
7,200.0	7,058.9	7,119.1	7,044.3	25.0	25.6	-125.76	789.1	354.0	781.1	745.8	35.24	22.164		
7,300.0	7,155.6	7,217.6	7,141.2	25.5	26.0	-125.99	805.1	360.7	798.1	762.3	35.79	22.297		
7,400.0	7,252.4	7,316.1	7,238.2	26.0	26.4	-126.20	821.1	367.5	815.1	778.7	36.35	22.425		
7,500.0	7,349.1	7,414.6	7,335.1	26.5	26.9	-126.40	837.0	374.2	832.1	795.2	36.90	22.549		
7,600.0	7,445.9	7,513.1	7,432.1	26.9	27.3	-126.60	853.0	381.0	849.1	811.7	37.46	22.669		
7,700.0	7,542.6	7,612.2	7,529.6	27.4	27.7	-126.79	868.9	387.7	866.2	828.2	38.01	22.790		
7,800.0	7,639.4	7,711.9	7,628.1	27.9	28.2	-127.08	883.7	394.0	883.1	844.5	38.59	22.885		
7,900.0	7,736.1	7,811.6	7,726.7	28.4	28.6	-127.46	896.9	399.6	899.9	860.7	39.18	22.967		
8,000.0	7,832.9	7,911.1	7,825.4	28.9	29.0	-127.94	908.4	404.5	916.6	876.8	39.79	23.034		
8,100.0	7,929.6	8,010.3	7,924.0	29.3	29.4	-128.51	918.4	408.7	933.3	892.9	40.42	23.088		
8,200.0	8,026.3	8,109.2	8,022.5	29.8	29.8	-129.15	926.8	412.2	950.0	908.9	41.07	23.130		
8,300.0	8,123.1	8,207.8	8,120.8	30.3	30.2	-129.88	933.6	415.1	966.7	925.0	41.74	23.161		
8,400.0	8,219.8	8,305.9	8,218.8	30.8	30.5	-130.68	938.8	417.3	983.6	941.1	42.43	23.182		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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)			
8,500.0	8,316.6	8,656.6	8,457.6	31.3	34.6	5.23	863.0	2,244.2	971.0	914.1	56.94	17.055	
8,600.0	8,413.3	8,739.3	8,538.1	31.8	35.0	4.35	873.6	2,228.4	932.6	875.0	57.58	16.195	
8,700.0	8,510.1	8,823.0	8,619.8	32.2	35.4	3.46	883.6	2,213.4	895.1	836.9	58.22	15.376	
8,800.0	8,606.8	8,907.5	8,702.6	32.7	35.8	2.56	893.0	2,199.2	858.7	799.9	58.83	14.596	
8,900.0	8,703.6	8,992.9	8,786.5	33.2	36.2	1.65	901.9	2,186.0	823.3	763.9	59.43	13.853	
9,000.0	8,800.3	9,079.2	8,871.4	33.7	36.5	0.75	910.1	2,173.6	788.9	728.9	60.02	13.144	
9,100.0	8,897.1	9,166.3	8,957.4	34.2	36.9	-0.15	917.7	2,162.2	755.5	694.9	60.59	12.469	
9,200.0	8,993.8	9,254.1	9,044.4	34.7	37.3	-1.04	924.6	2,151.9	723.0	661.8	61.14	11.824	
9,300.0	9,090.6	9,342.8	9,132.3	35.2	37.7	-1.92	930.8	2,142.5	691.4	629.8	61.69	11.209	
9,400.0	9,187.3	9,432.1	9,221.1	35.6	38.0	-2.77	936.4	2,134.2	660.8	598.6	62.22	10.620	
9,500.0	9,284.0	9,522.2	9,310.8	36.1	38.4	-3.58	941.1	2,127.1	631.0	568.3	62.75	10.057	
9,600.0	9,380.8	9,612.9	9,401.2	36.6	38.7	-4.36	945.2	2,121.0	602.1	538.9	63.27	9.517	
9,700.0	9,477.5	9,704.2	9,492.3	37.1	39.1	-5.08	948.4	2,116.2	574.0	510.2	63.79	8.999	
9,775.3	9,550.4	9,773.4	9,561.4	37.5	39.3	-5.57	950.3	2,113.3	553.4	489.2	64.18	8.623	
9,800.0	9,574.3	9,796.1	9,584.2	37.6	39.4	-5.72	950.9	2,112.5	546.8	482.5	64.30	8.503	
9,900.0	9,671.4	9,888.9	9,676.9	38.1	39.7	-6.25	952.5	2,110.0	521.5	456.6	64.83	8.044	
10,000.0	9,768.8	9,982.5	9,770.5	38.6	39.9	-6.64	953.3	2,108.8	498.6	433.2	65.37	7.628	
10,100.0	9,866.7	10,078.7	9,866.7	39.0	40.0	-6.92	953.4	2,108.6	478.0	412.2	65.87	7.257	
10,200.0	9,964.9	10,176.9	9,964.9	39.5	40.0	-7.18	953.4	2,108.6	459.2	392.9	66.35	6.922	
10,300.0	10,063.4	10,275.4	10,063.4	39.9	40.0	-7.44	953.4	2,108.6	442.2	375.3	66.82	6.617	
10,400.0	10,162.2	10,374.2	10,162.2	40.4	40.1	-7.68	953.4	2,108.6	426.8	359.5	67.28	6.344	
10,500.0	10,261.2	10,473.3	10,261.2	40.8	40.1	-7.92	953.4	2,108.6	413.2	345.4	67.74	6.100	
10,600.0	10,360.5	10,572.5	10,360.5	41.2	40.1	-8.14	953.4	2,108.6	401.3	333.1	68.18	5.885	
10,700.0	10,460.0	10,672.0	10,460.0	41.6	40.1	-8.34	953.4	2,108.6	391.1	322.5	68.62	5.699	
10,800.0	10,559.6	10,771.6	10,559.6	42.0	40.2	-8.51	953.4	2,108.6	382.6	313.6	69.04	5.542	
10,900.0	10,659.4	10,871.4	10,659.4	42.4	40.2	-8.65	953.4	2,108.6	375.9	306.4	69.45	5.412	
11,000.0	10,759.2	10,971.3	10,759.2	42.7	40.2	-8.76	953.4	2,108.6	370.9	301.0	69.85	5.310	
11,100.0	10,859.2	11,071.2	10,859.2	43.0	40.3	-8.84	953.4	2,108.6	367.6	297.4	70.21	5.235	
11,200.0	10,959.2	11,171.2	10,959.2	43.3	40.3	-8.87	953.4	2,108.6	366.0	295.5	70.53	5.189	
11,240.8	11,000.0	11,212.0	11,000.0	43.3	40.3	56.97	953.4	2,108.6	365.9	295.3	70.60	5.182	
11,300.0	11,059.2	11,271.2	11,059.2	43.3	40.3	56.97	953.4	2,108.6	365.9	295.2	70.63	5.180	
11,400.0	11,159.2	11,371.2	11,159.2	43.3	40.4	56.97	953.4	2,108.6	365.9	295.2	70.70	5.175	
11,500.0	11,259.2	11,471.2	11,259.2	43.4	40.4	56.97	953.4	2,108.6	365.9	295.1	70.76	5.170	
11,600.0	11,359.2	11,571.2	11,359.2	43.4	40.4	56.97	953.4	2,108.6	365.9	295.0	70.83	5.166	
11,700.0	11,459.2	11,671.2	11,459.2	43.4	40.4	56.97	953.4	2,108.6	365.9	295.0	70.89	5.161	
11,773.3	11,532.5	11,744.5	11,532.5	43.4	40.5	56.97	953.4	2,108.6	365.9	294.9	70.93	5.158 CC, ES	
11,775.0	11,534.2	11,746.2	11,534.2	43.4	40.5	-131.83	953.4	2,108.6	365.9	294.9	70.93	5.158	
11,800.0	11,559.1	11,771.2	11,559.1	43.4	40.5	-131.88	953.4	2,108.6	366.4	295.5	70.88	5.169	
11,825.0	11,584.1	11,796.1	11,584.1	43.4	40.5	-131.99	953.4	2,108.6	367.7	297.0	70.74	5.198	
11,850.0	11,608.8	11,820.9	11,608.8	43.3	40.5	-132.17	953.4	2,108.6	370.0	299.4	70.56	5.244	
11,875.0	11,633.4	11,845.4	11,633.4	43.3	40.5	-132.41	953.4	2,108.6	373.1	302.8	70.32	5.307	
11,900.0	11,657.7	11,869.7	11,657.7	43.2	40.5	-132.71	953.4	2,108.6	377.2	307.2	70.03	5.386	
11,925.0	11,681.6	11,893.7	11,681.6	43.1	40.5	-133.03	953.4	2,108.6	382.2	312.5	69.69	5.484	
11,950.0	11,705.2	11,917.2	11,705.2	43.1	40.5	-133.38	953.4	2,108.6	388.2	318.8	69.32	5.600	
11,975.0	11,728.2	11,940.3	11,728.2	43.0	40.5	-133.74	953.4	2,108.6	395.1	326.2	68.90	5.734	
12,000.0	11,750.7	11,962.8	11,750.7	43.0	40.5	-134.08	953.4	2,108.6	403.0	334.5	68.45	5.888	
12,025.0	11,772.7	11,984.7	11,772.7	42.9	40.5	-134.40	953.4	2,108.6	411.9	343.9	67.97	6.060	
12,050.0	11,793.9	12,006.0	11,793.9	42.8	40.6	-134.66	953.4	2,108.6	421.9	354.4	67.47	6.252	
12,075.0	11,814.5	12,026.5	11,814.5	42.8	40.6	-134.86	953.4	2,108.6	432.8	365.9	66.96	6.464	
12,100.0	11,834.3	12,046.3	11,834.3	42.7	40.6	-134.98	953.4	2,108.6	444.8	378.4	66.43	6.695	
12,125.0	11,853.2	12,065.3	11,853.2	42.7	40.6	-134.98	953.4	2,108.6	457.8	391.9	65.90	6.946	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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			
12,150.0	11,871.3	12,083.3	11,871.3	42.6	40.6	-134.86	953.4	2,108.6	471.8	406.4	65.38	7.216				
12,175.0	11,888.4	12,100.5	11,888.4	42.6	40.6	-134.59	953.4	2,108.6	486.7	421.9	64.86	7.504				
12,200.0	11,904.6	12,116.7	11,904.6	42.5	40.6	-134.15	953.4	2,108.6	502.6	438.3	64.35	7.810				
12,225.0	11,919.8	12,131.8	11,919.8	42.5	40.6	-133.50	953.4	2,108.6	519.5	455.6	63.87	8.134				
12,250.0	11,933.8	12,145.9	11,933.8	42.4	40.6	-132.61	953.4	2,108.6	537.1	473.7	63.40	8.473				
12,275.0	11,946.8	12,158.9	11,946.8	42.4	40.6	-131.44	953.4	2,108.6	555.7	492.7	62.95	8.827				
12,300.0	11,958.7	12,170.7	11,958.7	42.4	40.6	-129.94	953.4	2,108.6	574.9	512.4	62.53	9.194				
12,325.0	11,969.4	12,181.4	11,969.4	42.3	40.6	-128.05	953.4	2,108.6	594.9	532.8	62.14	9.574				
12,350.0	11,978.8	12,190.9	11,978.8	42.3	40.6	-125.72	953.4	2,108.6	615.6	553.8	61.77	9.966				
12,375.0	11,987.1	12,991.6	12,474.4	42.3	39.2	-142.40	444.0	2,133.5	619.6	554.8	64.83	9.557				
12,400.0	11,994.1	13,015.9	12,474.4	42.3	39.2	-141.85	419.6	2,134.6	617.0	551.9	65.16	9.470				
12,425.0	11,999.9	13,040.7	12,474.4	42.3	39.3	-141.29	394.9	2,135.6	615.6	550.1	65.47	9.403				
12,446.8	12,003.8	13,062.5	12,474.4	42.3	39.3	-140.78	373.1	2,136.5	615.2	549.5	65.71	9.362				
12,450.0	12,004.3	13,065.7	12,474.4	42.3	39.3	-140.71	369.9	2,136.6	615.2	549.4	65.75	9.357				
12,475.0	12,007.5	13,091.0	12,474.4	42.3	39.3	-140.13	344.7	2,137.6	615.8	549.8	66.01	9.330				
12,500.0	12,009.4	13,116.4	12,474.4	42.3	39.3	-139.55	319.3	2,138.5	617.5	551.3	66.25	9.321				
12,523.3	12,010.0	13,140.2	12,474.4	42.3	39.4	-139.01	295.5	2,139.3	619.9	553.5	66.44	9.330				
12,600.0	12,010.0	13,218.7	12,474.4	42.4	39.4	-137.96	217.0	2,141.6	628.6	561.5	67.04	9.376				
12,700.0	12,010.0	13,321.9	12,474.4	42.5	39.6	-136.94	113.8	2,143.7	637.4	569.6	67.77	9.405				
12,800.0	12,010.0	13,425.7	12,474.4	42.6	39.7	-136.27	10.1	2,144.9	643.3	574.8	68.45	9.397				
12,900.0	12,010.0	13,525.7	12,474.4	42.7	39.9	-135.93	-90.0	2,145.5	646.4	577.4	69.00	9.369				
12,981.1	12,010.0	13,606.8	12,474.4	42.9	40.0	-135.85	-171.0	2,146.0	647.2	577.8	69.41	9.325				
13,000.0	12,010.0	13,625.7	12,474.4	42.9	40.0	-135.85	-189.9	2,146.1	647.2	577.7	69.51	9.312				
13,100.0	12,010.0	13,725.7	12,474.4	43.1	40.2	-135.85	-289.9	2,146.8	647.2	577.2	70.04	9.241				
13,200.0	12,010.0	13,825.7	12,474.4	43.2	40.4	-135.85	-389.9	2,147.4	647.3	576.6	70.61	9.166				
13,300.0	12,010.0	13,925.7	12,474.4	43.4	40.7	-135.85	-489.9	2,148.0	647.3	576.0	71.22	9.088				
13,400.0	12,010.0	14,025.7	12,474.4	43.7	40.9	-135.85	-589.9	2,148.6	647.3	575.4	71.87	9.006				
13,500.0	12,010.0	14,125.7	12,474.4	43.9	41.2	-135.85	-689.9	2,149.3	647.3	574.7	72.55	8.921				
13,600.0	12,010.0	14,225.7	12,474.4	44.2	41.5	-135.85	-789.9	2,149.9	647.3	574.0	73.27	8.834				
13,700.0	12,010.0	14,325.7	12,474.4	44.5	41.8	-135.85	-889.9	2,150.5	647.3	573.3	74.02	8.745				
13,800.0	12,010.0	14,425.7	12,474.4	44.8	42.1	-135.84	-989.9	2,151.2	647.3	572.5	74.80	8.654				
13,900.0	12,010.0	14,525.7	12,474.4	45.1	42.4	-135.84	-1,089.9	2,151.8	647.3	571.7	75.61	8.560				
14,000.0	12,010.0	14,625.7	12,474.4	45.4	42.8	-135.84	-1,189.9	2,152.4	647.3	570.8	76.46	8.466				
14,100.0	12,010.0	14,725.7	12,474.4	45.7	43.1	-135.84	-1,289.9	2,153.0	647.3	570.0	77.33	8.370				
14,200.0	12,010.0	14,825.7	12,474.4	46.1	43.5	-135.84	-1,389.9	2,153.7	647.3	569.1	78.24	8.274				
14,300.0	12,010.0	14,925.7	12,474.4	46.5	43.9	-135.84	-1,489.9	2,154.3	647.3	568.2	79.17	8.177				
14,400.0	12,010.0	15,025.7	12,474.4	46.9	44.4	-135.84	-1,589.9	2,154.9	647.3	567.2	80.12	8.079				
14,500.0	12,010.0	15,125.7	12,474.4	47.3	44.8	-135.84	-1,689.9	2,155.6	647.3	566.2	81.11	7.981				
14,600.0	12,010.0	15,225.7	12,474.4	47.7	45.3	-135.84	-1,789.9	2,156.2	647.3	565.2	82.11	7.883				
14,700.0	12,010.0	15,325.7	12,474.4	48.2	45.7	-135.84	-1,889.9	2,156.8	647.3	564.2	83.14	7.786				
14,800.0	12,010.0	15,425.7	12,474.4	48.6	46.2	-135.84	-1,989.9	2,157.4	647.3	563.2	84.20	7.688				
14,900.0	12,010.0	15,525.7	12,474.4	49.1	46.7	-135.84	-2,089.9	2,158.1	647.4	562.1	85.27	7.591				
15,000.0	12,010.0	15,625.7	12,474.4	49.6	47.2	-135.84	-2,189.9	2,158.7	647.4	561.0	86.37	7.495				
15,100.0	12,010.0	15,725.7	12,474.4	50.1	47.8	-135.84	-2,289.9	2,159.3	647.4	559.9	87.49	7.399				
15,200.0	12,010.0	15,825.7	12,474.4	50.6	48.3	-135.84	-2,389.9	2,160.0	647.4	558.7	88.63	7.305				
15,300.0	12,010.0	15,925.7	12,474.4	51.1	48.9	-135.84	-2,489.9	2,160.6	647.4	557.6	89.78	7.211				
15,400.0	12,010.0	16,025.7	12,474.4	51.6	49.5	-135.84	-2,589.9	2,161.2	647.4	556.4	90.96	7.117				
15,500.0	12,010.0	16,125.7	12,474.4	52.2	50.1	-135.84	-2,689.9	2,161.8	647.4	555.2	92.15	7.025				
15,600.0	12,010.0	16,225.7	12,474.4	52.7	50.7	-135.84	-2,789.9	2,162.5	647.4	554.0	93.36	6.935				
15,700.0	12,010.0	16,325.7	12,474.4	53.3	51.3	-135.83	-2,889.9	2,163.1	647.4	552.8	94.58	6.845				
15,800.0	12,010.0	16,425.7	12,474.4	53.9	51.9	-135.83	-2,989.9	2,163.7	647.4	551.6	95.82	6.756				

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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)			
15,900.0	12,010.0	16,525.7	12,474.4	54.5	52.5	-135.83	-3,089.9	2,164.4	647.4	550.3	97.08	6.669	
16,000.0	12,010.0	16,625.7	12,474.4	55.1	53.2	-135.83	-3,189.9	2,165.0	647.4	549.1	98.35	6.583	
16,100.0	12,010.0	16,725.7	12,474.4	55.7	53.8	-135.83	-3,289.9	2,165.6	647.4	547.8	99.63	6.498	
16,200.0	12,010.0	16,825.7	12,474.4	56.3	54.5	-135.83	-3,389.9	2,166.2	647.4	546.5	100.93	6.415	
16,300.0	12,010.0	16,925.7	12,474.4	56.9	55.2	-135.83	-3,489.9	2,166.9	647.4	545.2	102.24	6.333	
16,400.0	12,010.0	17,025.7	12,474.4	57.6	55.9	-135.83	-3,589.9	2,167.5	647.4	543.9	103.56	6.252	
16,500.0	12,010.0	17,125.7	12,474.4	58.2	56.5	-135.83	-3,689.9	2,168.1	647.4	542.6	104.90	6.172	
16,600.0	12,010.0	17,225.7	12,474.4	58.9	57.3	-135.83	-3,789.9	2,168.8	647.5	541.2	106.24	6.094	
16,700.0	12,010.0	17,325.7	12,474.4	59.6	58.0	-135.83	-3,889.9	2,169.4	647.5	539.9	107.60	6.017	
16,800.0	12,010.0	17,425.7	12,474.4	60.2	58.7	-135.83	-3,989.9	2,170.0	647.5	538.5	108.96	5.942	
16,900.0	12,010.0	17,525.7	12,474.4	60.9	59.4	-135.83	-4,089.9	2,170.6	647.5	537.1	110.34	5.868	
17,000.0	12,010.0	17,625.7	12,474.4	61.6	60.1	-135.83	-4,189.9	2,171.3	647.5	535.8	111.73	5.795	
17,100.0	12,010.0	17,725.7	12,474.4	62.3	60.9	-135.83	-4,289.9	2,171.9	647.5	534.4	113.12	5.724	
17,200.0	12,010.0	17,825.7	12,474.4	63.0	61.6	-135.83	-4,389.9	2,172.5	647.5	533.0	114.53	5.654	
17,300.0	12,010.0	17,925.7	12,474.4	63.7	62.4	-135.83	-4,489.9	2,173.2	647.5	531.6	115.94	5.585	
17,400.0	12,010.0	18,025.7	12,474.4	64.4	63.2	-135.83	-4,589.9	2,173.8	647.5	530.1	117.36	5.517	
17,500.0	12,010.0	18,125.7	12,474.4	65.1	63.9	-135.82	-4,689.9	2,174.4	647.5	528.7	118.80	5.451	
17,600.0	12,010.0	18,225.7	12,474.4	65.9	64.7	-135.82	-4,789.9	2,175.0	647.5	527.3	120.23	5.385	
17,700.0	12,010.0	18,325.7	12,474.4	66.6	65.5	-135.82	-4,889.9	2,175.7	647.5	525.8	121.68	5.322	
17,800.0	12,010.0	18,425.7	12,474.4	67.4	66.3	-135.82	-4,989.8	2,176.3	647.5	524.4	123.13	5.259	
17,900.0	12,010.0	18,525.7	12,474.4	68.1	67.0	-135.82	-5,089.8	2,176.9	647.5	522.9	124.59	5.197	
18,000.0	12,010.0	18,625.7	12,474.4	68.9	67.8	-135.82	-5,189.8	2,177.6	647.5	521.5	126.06	5.137	
18,100.0	12,010.0	18,725.7	12,474.4	69.6	68.6	-135.82	-5,289.8	2,178.2	647.5	520.0	127.53	5.077	
18,200.0	12,010.0	18,825.7	12,474.4	70.4	69.4	-135.82	-5,389.8	2,178.8	647.5	518.5	129.01	5.019	
18,300.0	12,010.0	18,925.7	12,474.4	71.1	70.2	-135.82	-5,489.8	2,179.4	647.6	517.1	130.50	4.962	
18,400.0	12,010.0	19,025.7	12,474.4	71.9	71.1	-135.82	-5,589.8	2,180.1	647.6	515.6	131.99	4.906	
18,500.0	12,010.0	19,125.7	12,474.4	72.7	71.9	-135.82	-5,689.8	2,180.7	647.6	514.1	133.49	4.851	
18,600.0	12,010.0	19,225.7	12,474.4	73.5	72.7	-135.82	-5,789.8	2,181.3	647.6	512.6	134.99	4.797	
18,700.0	12,010.0	19,325.7	12,474.4	74.3	73.5	-135.82	-5,889.8	2,182.0	647.6	511.1	136.50	4.744	
18,800.0	12,010.0	19,425.7	12,474.4	75.1	74.3	-135.82	-5,989.8	2,182.6	647.6	509.6	138.01	4.692	
18,900.0	12,010.0	19,525.7	12,474.4	75.8	75.2	-135.82	-6,089.8	2,183.2	647.6	508.1	139.53	4.641	
19,000.0	12,010.0	19,625.7	12,474.4	76.6	76.0	-135.82	-6,189.8	2,183.8	647.6	506.5	141.06	4.591	
19,100.0	12,010.0	19,725.7	12,474.4	77.4	76.8	-135.82	-6,289.8	2,184.5	647.6	505.0	142.58	4.542	
19,200.0	12,010.0	19,825.7	12,474.4	78.3	77.7	-135.82	-6,389.8	2,185.1	647.6	503.5	144.12	4.494	
19,300.0	12,010.0	19,925.7	12,474.4	79.1	78.5	-135.82	-6,489.8	2,185.7	647.6	502.0	145.65	4.446	
19,400.0	12,010.0	20,025.7	12,474.4	79.9	79.4	-135.81	-6,589.8	2,186.4	647.6	500.4	147.19	4.400	
19,500.0	12,010.0	20,125.7	12,474.4	80.7	80.2	-135.81	-6,689.8	2,187.0	647.6	498.9	148.74	4.354	
19,600.0	12,010.0	20,225.7	12,474.4	81.5	81.1	-135.81	-6,789.8	2,187.6	647.6	497.3	150.29	4.309	
19,700.0	12,010.0	20,325.7	12,474.4	82.3	81.9	-135.81	-6,889.8	2,188.2	647.6	495.8	151.84	4.265	
19,800.0	12,010.0	20,425.7	12,474.4	83.2	82.8	-135.81	-6,989.8	2,188.9	647.6	494.2	153.40	4.222	
19,888.3	12,010.0	20,513.9	12,474.4	83.8	83.5	-135.81	-7,078.1	2,189.4	647.6	493.1	154.57	4.190 SF	
19,888.8	12,010.0	20,514.0	12,474.4	83.8	83.5	-135.81	-7,078.1	2,189.4	647.6	493.1	154.56	4.190	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 `BO` FEDERAL COM 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	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)		Warning	
9,100.0	8,897.1	13,760.0	9,350.1	34.2	81.8	19.66	721.8	2,319.9	964.7	851.9	112.78	8.553	
9,200.0	8,993.8	13,760.0	9,350.1	34.7	81.8	19.66	721.8	2,319.9	900.9	784.7	116.17	7.755	
9,300.0	9,090.6	13,760.0	9,350.1	35.2	81.8	19.66	721.8	2,319.9	844.2	724.8	119.40	7.070	
9,400.0	9,187.3	13,760.0	9,350.1	35.6	81.8	19.66	721.8	2,319.9	796.0	673.8	122.18	6.515	
9,500.0	9,284.0	13,760.0	9,350.1	36.1	81.8	19.66	721.8	2,319.9	758.1	634.0	124.10	6.109	
9,600.0	9,380.8	13,760.0	9,350.1	36.6	81.8	19.66	721.8	2,319.9	731.9	607.2	124.75	5.867	
9,700.0	9,477.5	13,760.0	9,350.1	37.1	81.8	19.66	721.8	2,319.9	718.8	595.0	123.79	5.807 SF	
9,744.9	9,521.0	13,760.0	9,350.1	37.3	81.8	19.66	721.8	2,319.9	717.4	594.6	122.79	5.842 CC, ES	
9,775.3	9,550.4	13,760.0	9,350.1	37.5	81.8	19.66	721.8	2,319.9	718.0	596.1	121.93	5.889	
9,800.0	9,574.3	13,760.0	9,350.1	37.6	81.8	19.67	721.8	2,319.9	719.6	598.5	121.12	5.941	
9,900.0	9,671.4	13,755.0	9,350.2	38.1	81.7	19.33	726.7	2,319.7	735.2	618.3	116.87	6.291	
10,000.0	9,768.8	13,744.0	9,350.5	38.6	81.5	18.55	737.7	2,319.3	765.1	653.6	111.53	6.860	
10,100.0	9,866.7	13,733.6	9,350.8	39.0	81.4	17.87	748.1	2,318.8	807.7	701.9	105.84	7.631	
10,200.0	9,964.9	13,723.9	9,351.1	39.5	81.2	17.27	757.8	2,318.4	861.2	760.9	100.31	8.585	
10,300.0	10,063.4	13,714.8	9,351.3	39.9	81.0	16.76	766.9	2,318.1	923.5	828.3	95.27	9.694	
10,400.0	10,162.2	13,706.9	9,351.6	40.4	80.9	16.38	774.8	2,317.7	993.2	902.3	90.87	10.929	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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	
8,200.0	8,026.3	13,367.0	8,954.4	29.8	80.9	-35.02	723.0	1,557.0	994.1	926.0	68.02	14.615		
8,300.0	8,123.1	13,367.0	8,954.4	30.3	80.9	-35.02	723.0	1,557.0	894.9	826.5	68.42	13.081		
8,400.0	8,219.8	13,367.0	8,954.4	30.8	80.9	-35.02	723.0	1,557.0	796.1	727.2	68.89	11.556		
8,500.0	8,316.6	13,367.0	8,954.4	31.3	80.9	-35.02	723.0	1,557.0	697.5	628.0	69.47	10.041		
8,600.0	8,413.3	13,367.0	8,954.4	31.8	80.9	-35.02	723.0	1,557.0	599.4	529.2	70.19	8.540		
8,700.0	8,510.1	13,367.0	8,954.4	32.2	80.9	-35.02	723.0	1,557.0	502.0	430.9	71.14	7.057		
8,800.0	8,606.8	13,367.0	8,954.4	32.7	80.9	-35.02	723.0	1,557.0	406.0	333.5	72.44	5.605		
8,900.0	8,703.6	13,367.0	8,954.4	33.2	80.9	-35.02	723.0	1,557.0	312.4	238.1	74.31	4.204		
9,000.0	8,800.3	13,367.0	8,954.4	33.7	80.9	-35.02	723.0	1,557.0	224.4	147.4	76.99	2.915 Normal Operations		
9,100.0	8,897.1	13,367.0	8,954.4	34.2	80.9	-35.02	723.0	1,557.0	152.1	73.0	79.09	1.923 Caution - Monitor Closely		
9,186.1	8,980.4	13,367.0	8,954.4	34.6	80.9	-35.02	723.0	1,557.0	125.4	53.0	72.41	1.732 Caution - Monitor Closely, CC, ES, SF		
9,200.0	8,993.8	13,367.0	8,954.4	34.7	80.9	-35.02	723.0	1,557.0	126.2	55.9	70.24	1.796 Caution - Monitor Closely		
9,300.0	9,090.6	13,367.0	8,954.4	35.2	80.9	-35.02	723.0	1,557.0	169.4	110.1	59.28	2.858 Normal Operations		
9,400.0	9,187.3	13,367.0	8,954.4	35.6	80.9	-35.02	723.0	1,557.0	247.9	189.1	58.84	4.214		
9,500.0	9,284.0	13,367.0	8,954.4	36.1	80.9	-35.02	723.0	1,557.0	338.0	277.7	60.32	5.604		
9,600.0	9,380.8	13,367.0	8,954.4	36.6	80.9	-35.02	723.0	1,557.0	432.5	370.8	61.64	7.016		
9,700.0	9,477.5	13,367.0	8,954.4	37.1	80.9	-35.02	723.0	1,557.0	529.0	466.3	62.67	8.440		
9,775.3	9,550.4	13,367.0	8,954.4	37.5	80.9	-35.02	723.0	1,557.0	602.3	539.0	63.30	9.516		
9,800.0	9,574.3	13,367.0	8,954.4	37.6	80.9	-35.71	723.0	1,557.0	626.6	563.1	63.48	9.870		
9,900.0	9,671.4	13,367.0	8,954.4	38.1	80.9	-39.12	723.0	1,557.0	725.0	660.9	64.10	11.310		
10,000.0	9,768.8	13,367.0	8,954.4	38.6	80.9	-43.78	723.0	1,557.0	824.0	759.4	64.58	12.758		
10,100.0	9,866.7	13,367.0	8,954.4	39.0	80.9	-50.20	723.0	1,557.0	923.3	858.4	64.96	14.213		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
11,400.0	11,159.2	16,559.5	11,830.3	43.3	85.8	91.42	737.4	2,471.3	948.1	836.6	111.45	8.507		
11,500.0	11,259.2	16,558.3	11,830.4	43.4	85.7	91.32	738.6	2,471.3	880.1	764.4	115.72	7.606		
11,600.0	11,359.2	16,557.1	11,830.4	43.4	85.7	91.21	739.8	2,471.3	818.8	698.6	120.22	6.811		
11,700.0	11,459.2	16,555.9	11,830.4	43.4	85.7	91.11	741.0	2,471.4	765.6	640.9	124.68	6.141		
11,773.3	11,532.5	16,555.0	11,830.4	43.4	85.7	91.03	741.9	2,471.4	732.9	605.2	127.70	5.739		
11,775.0	11,534.2	16,554.9	11,830.4	43.4	85.7	-97.86	741.9	2,471.4	732.2	604.4	127.76	5.731		
11,800.0	11,559.1	16,555.5	11,830.4	43.4	85.7	-99.05	741.4	2,471.4	722.5	593.8	128.71	5.614		
11,825.0	11,584.1	16,557.5	11,830.4	43.4	85.7	-99.98	739.4	2,471.3	713.8	584.2	129.62	5.507		
11,850.0	11,608.8	16,561.0	11,830.3	43.3	85.8	-100.65	735.9	2,471.3	706.1	575.6	130.48	5.412		
11,875.0	11,633.4	16,566.0	11,830.3	43.3	85.9	-101.06	730.9	2,471.2	699.4	568.1	131.27	5.327		
11,900.0	11,657.7	16,572.4	11,830.2	43.2	86.0	-101.21	724.5	2,471.1	693.7	561.7	132.01	5.255		
11,925.0	11,681.6	16,580.3	11,830.1	43.1	86.1	-101.13	716.6	2,471.0	689.1	556.4	132.66	5.194		
11,950.0	11,705.2	16,589.5	11,830.0	43.1	86.2	-100.82	707.4	2,470.8	685.5	552.2	133.24	5.145		
11,975.0	11,728.2	16,600.2	11,829.9	43.0	86.4	-100.29	696.7	2,470.6	682.9	549.2	133.74	5.106		
12,000.0	11,750.7	16,612.2	11,829.8	43.0	86.6	-99.57	684.7	2,470.3	681.3	547.1	134.16	5.078		
12,025.0	11,772.7	16,625.5	11,829.6	42.9	86.8	-98.65	671.4	2,470.0	680.6	546.1	134.51	5.060		
12,031.7	11,778.5	16,629.4	11,829.6	42.9	86.8	-98.38	667.5	2,469.9	680.6	546.0	134.59	5.057 CC, ES		
12,050.0	11,793.9	16,640.2	11,829.4	42.8	87.0	-97.57	656.7	2,469.6	680.8	546.0	134.78	5.051 SF		
12,075.0	11,814.5	16,653.9	11,829.3	42.8	87.2	-96.49	643.0	2,469.2	681.8	546.8	134.97	5.052		
12,100.0	11,834.3	16,668.4	11,829.2	42.7	87.4	-95.31	628.5	2,468.7	683.6	548.5	135.10	5.060		
12,125.0	11,853.2	16,684.0	11,829.1	42.7	87.7	-94.02	612.9	2,468.3	686.0	550.8	135.20	5.074		
12,150.0	11,871.3	16,700.7	11,829.2	42.6	87.9	-92.64	596.2	2,467.9	689.1	553.8	135.26	5.094		
12,175.0	11,888.4	16,718.5	11,829.3	42.6	88.2	-91.20	578.5	2,467.4	692.6	557.3	135.31	5.119		
12,200.0	11,904.6	16,737.2	11,829.6	42.5	88.5	-89.72	559.7	2,466.9	696.6	561.2	135.36	5.146		
12,225.0	11,919.8	16,757.8	11,830.0	42.5	88.8	-88.20	539.1	2,466.4	700.9	565.5	135.42	5.176		
12,250.0	11,933.8	16,779.0	11,830.5	42.4	89.2	-86.72	518.0	2,465.9	705.4	569.9	135.50	5.206		
12,275.0	11,946.8	16,800.5	11,831.1	42.4	89.5	-85.30	496.5	2,465.4	710.0	574.4	135.59	5.236		
12,300.0	11,958.7	16,815.0	11,831.4	42.4	89.7	-84.20	482.0	2,465.0	714.8	579.2	135.63	5.270		
12,325.0	11,969.4	16,815.0	11,831.4	42.3	89.7	-83.55	482.0	2,465.0	720.1	584.6	135.45	5.316		
12,350.0	11,978.8	16,815.0	11,831.4	42.3	89.7	-82.81	482.0	2,465.0	726.1	590.9	135.20	5.371		
12,375.0	11,987.1	16,815.0	11,831.4	42.3	89.7	-81.99	482.0	2,465.0	732.7	597.9	134.87	5.433		
12,400.0	11,994.1	16,815.0	11,831.4	42.3	89.7	-81.09	482.0	2,465.0	740.0	605.5	134.47	5.503		
12,425.0	11,999.9	16,815.0	11,831.4	42.3	89.7	-80.12	482.0	2,465.0	747.8	613.8	134.01	5.580		
12,450.0	12,004.3	16,815.0	11,831.4	42.3	89.7	-79.07	482.0	2,465.0	756.2	622.7	133.49	5.665		
12,475.0	12,007.5	16,815.0	11,831.4	42.3	89.7	-77.95	482.0	2,465.0	765.1	632.1	132.91	5.756		
12,500.0	12,009.4	16,815.0	11,831.4	42.3	89.7	-76.78	482.0	2,465.0	774.4	642.1	132.28	5.854		
12,523.3	12,010.0	16,815.0	11,831.4	42.3	89.7	-75.63	482.0	2,465.0	783.4	651.8	131.66	5.950		
12,600.0	12,010.0	16,815.0	11,831.4	42.4	89.7	-75.81	482.0	2,465.0	815.9	686.7	129.21	6.315		
12,700.0	12,010.0	16,815.0	11,831.4	42.5	89.7	-76.08	482.0	2,465.0	864.2	739.0	125.21	6.902		
12,800.0	12,010.0	16,815.0	11,831.4	42.6	89.7	-76.38	482.0	2,465.0	918.1	797.5	120.65	7.610		
12,900.0	12,010.0	16,815.0	11,831.4	42.7	89.7	-76.72	482.0	2,465.0	976.7	860.9	115.80	8.435		

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W0CN FEDERAL COM 001H - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 104-r.5 MWD												Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
11,500.0	11,259.2	16,547.1	11,809.2	43.4	82.3	-92.39	720.2	991.6	979.9	864.1	115.81	8.461	
11,600.0	11,359.2	16,550.5	11,809.2	43.4	82.3	-92.63	716.8	991.8	927.4	807.9	119.52	7.760	
11,700.0	11,459.2	16,553.5	11,809.3	43.4	82.4	-92.84	713.8	992.0	883.2	760.2	123.02	7.180	
11,773.3	11,532.5	16,555.5	11,809.4	43.4	82.4	-92.98	711.9	992.1	856.8	731.5	125.29	6.839	
11,775.0	11,534.2	16,555.5	11,809.4	43.4	82.4	78.29	711.8	992.1	856.3	730.9	125.33	6.832	
11,800.0	11,559.1	16,557.0	11,809.4	43.4	82.4	79.16	710.4	992.2	848.4	722.4	126.03	6.732	
11,825.0	11,584.1	16,559.8	11,809.4	43.4	82.5	79.87	707.5	992.4	841.0	714.3	126.69	6.638	
11,850.0	11,608.8	16,564.0	11,809.5	43.3	82.6	80.43	703.3	992.6	834.0	706.7	127.32	6.551	
11,875.0	11,633.4	16,569.5	11,809.6	43.3	82.7	80.85	697.9	993.0	827.5	699.6	127.91	6.470	
11,900.0	11,657.7	16,576.2	11,809.7	43.2	82.8	81.13	691.2	993.4	821.5	693.0	128.45	6.395	
11,925.0	11,681.6	16,584.0	11,809.8	43.1	82.9	81.27	683.4	993.8	815.9	686.9	128.96	6.327	
11,950.0	11,705.2	16,592.9	11,809.8	43.1	83.0	81.29	674.6	994.4	810.8	681.4	129.42	6.265	
11,975.0	11,728.2	16,602.8	11,809.8	43.0	83.2	81.20	664.7	994.9	806.1	676.3	129.83	6.209	
12,000.0	11,750.7	16,613.6	11,809.7	43.0	83.4	81.00	653.8	995.6	801.8	671.7	130.19	6.159	
12,025.0	11,772.7	16,625.1	11,809.6	42.9	83.5	80.72	642.4	996.3	798.0	667.5	130.50	6.115	
12,050.0	11,793.9	16,637.3	11,809.4	42.8	83.7	80.37	630.2	997.0	794.5	663.8	130.77	6.076	
12,075.0	11,814.5	16,650.5	11,809.2	42.8	84.0	79.94	617.0	997.8	791.4	660.4	130.99	6.042	
12,100.0	11,834.3	16,664.7	11,809.0	42.7	84.2	79.44	602.8	998.6	788.6	657.4	131.18	6.011	
12,125.0	11,853.2	16,679.8	11,808.7	42.7	84.4	78.88	587.8	999.4	786.0	654.7	131.34	5.985	
12,150.0	11,871.3	16,695.8	11,808.4	42.6	84.7	78.28	571.8	1,000.4	783.7	652.2	131.47	5.961	
12,175.0	11,888.4	16,713.0	11,808.0	42.6	85.0	77.63	554.6	1,001.3	781.5	649.9	131.59	5.939	
12,200.0	11,904.6	16,741.8	11,808.3	42.5	85.4	76.50	525.9	1,003.1	779.2	647.4	131.86	5.910	
12,225.0	11,919.8	16,761.5	11,808.7	42.5	85.7	75.88	506.2	1,004.4	776.9	645.0	131.98	5.887	
12,250.0	11,933.8	16,782.0	11,809.1	42.4	86.1	75.28	485.8	1,005.7	774.6	642.5	132.10	5.864	
12,275.0	11,946.8	16,790.0	11,809.3	42.4	86.2	75.23	477.8	1,006.2	772.3	640.3	132.03	5.849	
12,300.0	11,958.7	16,790.0	11,809.3	42.4	86.2	75.45	477.8	1,006.2	770.4	638.6	131.79	5.846 SF	
12,325.0	11,969.4	16,790.0	11,809.3	42.3	86.2	75.62	477.8	1,006.2	769.0	637.5	131.46	5.849	
12,350.0	11,978.8	16,790.0	11,809.3	42.3	86.2	75.72	477.8	1,006.2	768.1	637.0	131.07	5.860 ES	
12,375.0	11,987.1	16,790.0	11,809.3	42.3	86.2	75.77	477.8	1,006.2	767.6	637.0	130.59	5.878	
12,384.5	11,989.9	16,790.0	11,809.3	42.3	86.2	75.78	477.8	1,006.2	767.6	637.2	130.39	5.887 CC	
12,400.0	11,994.1	16,790.0	11,809.3	42.3	86.2	75.77	477.8	1,006.2	767.7	637.7	130.03	5.904	
12,425.0	11,999.9	16,790.0	11,809.3	42.3	86.2	75.70	477.8	1,006.2	768.2	638.8	129.40	5.937	
12,450.0	12,004.3	16,790.0	11,809.3	42.3	86.2	75.58	477.8	1,006.2	769.3	640.6	128.68	5.978	
12,475.0	12,007.5	16,790.0	11,809.3	42.3	86.2	75.40	477.8	1,006.2	770.8	642.9	127.89	6.027	
12,500.0	12,009.4	16,790.0	11,809.3	42.3	86.2	75.17	477.8	1,006.2	772.8	645.8	127.02	6.084	
12,523.3	12,010.0	16,790.0	11,809.3	42.3	86.2	74.90	477.8	1,006.2	775.1	649.0	126.14	6.145	
12,600.0	12,010.0	16,790.0	11,809.3	42.4	86.2	74.84	477.8	1,006.2	788.0	665.2	122.74	6.420	
12,700.0	12,010.0	16,790.0	11,809.3	42.5	86.2	74.67	477.8	1,006.2	818.1	700.8	117.33	6.973	
12,800.0	12,010.0	16,790.0	11,809.3	42.6	86.2	74.41	477.8	1,006.2	861.9	750.5	111.37	7.739	
12,900.0	12,010.0	16,790.0	11,809.3	42.7	86.2	74.05	477.8	1,006.2	917.3	811.9	105.41	8.703	
12,981.1	12,010.0	16,790.0	11,809.3	42.9	86.2	73.67	477.8	1,006.2	969.4	868.5	100.84	9.613	
13,000.0	12,010.0	16,790.0	11,809.3	42.9	86.2	73.67	477.8	1,006.2	982.3	882.4	99.82	9.840	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	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					Rule Assigned:							Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor			
11,400.0	11,159.2	16,618.0	12,059.6	43.3	84.4	-72.96	822.9	1,577.2	930.6	845.7	84.88	10.964			
11,500.0	11,259.2	16,619.2	12,059.7	43.4	84.4	-73.24	821.7	1,577.2	834.2	747.7	86.52	9.642			
11,600.0	11,359.2	16,630.2	12,060.7	43.4	84.6	-75.81	810.7	1,577.6	738.7	649.8	88.92	8.308			
11,700.0	11,459.2	16,640.7	12,061.6	43.4	84.8	-78.32	800.3	1,578.0	644.4	552.4	91.99	7.005			
11,773.3	11,532.5	16,648.0	12,062.3	43.4	84.9	-80.11	793.0	1,578.2	576.4	481.5	94.87	6.076			
11,775.0	11,534.2	16,648.2	12,062.3	43.4	84.9	91.52	792.8	1,578.2	574.9	479.9	94.94	6.055			
11,800.0	11,559.1	16,651.4	12,062.6	43.4	84.9	97.51	789.6	1,578.3	552.0	455.9	96.07	5.746			
11,825.0	11,584.1	16,656.0	12,063.0	43.4	85.0	102.74	785.0	1,578.5	529.4	432.1	97.29	5.441			
11,850.0	11,608.8	16,662.0	12,063.5	43.3	85.1	107.21	779.1	1,578.7	507.0	408.5	98.58	5.143			
11,875.0	11,633.4	16,669.2	12,064.1	43.3	85.2	110.96	771.9	1,578.9	485.1	385.1	99.96	4.853			
11,900.0	11,657.7	16,677.7	12,064.8	43.2	85.3	114.07	763.4	1,579.2	463.5	362.1	101.43	4.570			
11,925.0	11,681.6	16,687.5	12,065.6	43.1	85.5	116.60	753.7	1,579.5	442.5	339.5	102.98	4.297			
11,950.0	11,705.2	16,698.4	12,066.4	43.1	85.7	118.62	742.8	1,579.9	422.0	317.4	104.61	4.034			
11,975.0	11,728.2	16,710.4	12,067.3	43.0	85.8	120.21	730.9	1,580.2	402.1	295.7	106.33	3.781			
12,000.0	11,750.7	16,724.6	12,068.3	43.0	86.1	121.25	716.6	1,580.7	382.8	274.6	108.19	3.538			
12,025.0	11,772.7	16,740.2	12,069.3	42.9	86.3	121.94	701.1	1,581.2	364.1	254.0	110.15	3.306			
12,050.0	11,793.9	16,756.6	12,070.3	42.8	86.6	122.35	684.7	1,581.8	346.1	233.9	112.17	3.085			
12,075.0	11,814.5	16,773.9	12,071.2	42.8	86.8	122.52	667.5	1,582.4	328.8	214.5	114.26	2.878 Normal Operations			
12,100.0	11,834.3	16,792.1	12,072.0	42.7	87.1	122.48	649.4	1,583.1	312.2	195.8	116.39	2.682 Normal Operations			
12,125.0	11,853.2	16,810.9	12,072.6	42.7	87.4	122.23	630.6	1,583.8	296.3	177.8	118.55	2.499 Caution - Monitor Closely			
12,150.0	11,871.3	16,828.1	12,073.2	42.6	87.7	122.10	613.3	1,584.5	281.3	160.7	120.57	2.333 Caution - Monitor Closely			
12,175.0	11,888.4	16,846.7	12,073.8	42.6	88.0	121.75	594.8	1,585.3	267.1	144.5	122.61	2.178 Caution - Monitor Closely			
12,200.0	11,904.6	16,866.0	12,074.5	42.5	88.3	121.26	575.5	1,586.1	253.8	129.2	124.61	2.037 Caution - Monitor Closely			
12,225.0	11,919.8	16,886.2	12,075.1	42.5	88.6	120.66	555.4	1,587.0	241.3	114.8	126.55	1.907 Caution - Monitor Closely			
12,250.0	11,933.8	16,907.0	12,075.8	42.4	88.9	119.99	534.6	1,587.9	229.7	101.3	128.41	1.789 Caution - Monitor Closely			
12,275.0	11,946.8	16,928.4	12,076.5	42.4	89.2	119.29	513.3	1,588.8	219.0	88.8	130.16	1.682 Caution - Monitor Closely			
12,300.0	11,958.7	16,950.3	12,077.3	42.4	89.6	118.60	491.3	1,589.8	209.0	77.2	131.78	1.586 Caution - Monitor Closely			
12,325.0	11,969.4	16,960.0	12,077.6	42.3	89.7	118.84	481.7	1,590.2	200.2	68.2	131.98	1.517 Caution - Monitor Closely			
12,350.0	11,978.8	16,960.0	12,077.6	42.3	89.7	119.44	481.7	1,590.2	194.6	65.0	129.62	1.501 Caution - Monitor Closely, ES, SF			
12,374.3	11,986.9	16,960.0	12,077.6	42.3	89.7	119.63	481.7	1,590.2	192.8	67.5	125.28	1.539 Caution - Monitor Closely, CC			
12,375.0	11,987.1	16,960.0	12,077.6	42.3	89.7	119.63	481.7	1,590.2	192.8	67.7	125.11	1.541 Caution - Monitor Closely			
12,400.0	11,994.1	16,960.0	12,077.6	42.3	89.7	119.42	481.7	1,590.2	194.8	76.2	118.65	1.642 Caution - Monitor Closely			
12,425.0	11,999.9	16,960.0	12,077.6	42.3	89.7	118.79	481.7	1,590.2	200.6	89.9	110.75	1.811 Caution - Monitor Closely			
12,450.0	12,004.3	16,960.0	12,077.6	42.3	89.7	117.74	481.7	1,590.2	209.8	107.7	102.17	2.054 Caution - Monitor Closely			
12,475.0	12,007.5	16,960.0	12,077.6	42.3	89.7	116.24	481.7	1,590.2	222.0	128.4	93.60	2.372 Caution - Monitor Closely			
12,500.0	12,009.4	16,960.0	12,077.6	42.3	89.7	114.27	481.7	1,590.2	236.7	151.1	85.55	2.767 Normal Operations			
12,523.3	12,010.0	16,960.0	12,077.6	42.3	89.7	111.98	481.7	1,590.2	252.2	173.4	78.78	3.201			
12,600.0	12,010.0	16,960.0	12,077.6	42.4	89.7	112.69	481.7	1,590.2	311.1	248.8	62.29	4.995			
12,700.0	12,010.0	16,960.0	12,077.6	42.5	89.7	114.13	481.7	1,590.2	398.5	347.4	51.08	7.800			
12,800.0	12,010.0	16,960.0	12,077.6	42.6	89.7	116.36	481.7	1,590.2	491.7	445.4	46.29	10.622			
12,900.0	12,010.0	16,960.0	12,077.6	42.7	89.7	119.75	481.7	1,590.2	588.0	543.6	44.36	13.256			
12,981.1	12,010.0	16,960.0	12,077.6	42.9	89.7	123.82	481.7	1,590.2	667.3	623.6	43.71	15.268			
13,000.0	12,010.0	16,960.0	12,077.6	42.9	89.7	123.82	481.7	1,590.2	685.9	642.3	43.62	15.726			
13,100.0	12,010.0	16,960.0	12,077.6	43.1	89.7	123.82	481.7	1,590.2	784.6	741.2	43.32	18.110			
13,200.0	12,010.0	16,960.0	12,077.6	43.2	89.7	123.82	481.7	1,590.2	883.5	840.3	43.23	20.439			
13,300.0	12,010.0	16,960.0	12,077.6	43.4	89.7	123.82	481.7	1,590.2	982.6	939.4	43.24	22.728			

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	5.9	0.3	3.0	0.0	80.12	147.4	846.6	859.3				
100.0	100.0	111.6	106.0	3.1	0.1	80.06	148.2	846.0	858.9	853.8	5.15	166.657	
200.0	200.0	216.6	211.0	3.3	0.4	79.94	149.9	844.7	857.9	852.4	5.50	155.894	
300.0	300.0	318.0	312.4	3.6	0.7	79.82	151.4	842.9	856.5	850.6	5.86	146.211	
400.0	400.0	410.3	404.6	3.8	0.9	79.67	153.4	841.6	855.5	849.2	6.21	137.795	
442.5	442.5	448.2	442.5	3.8	1.0	79.59	154.5	841.3	855.3	849.0	6.35	134.683	
500.0	500.0	500.0	494.3	4.0	1.1	79.47	156.3	841.1	855.6	849.0	6.55	130.568	
600.0	600.0	596.2	590.4	4.1	1.4	79.19	160.6	841.2	856.5	849.6	6.90	124.122	
700.0	700.0	687.1	681.1	4.3	1.6	78.86	165.7	841.8	858.1	850.9	7.24	118.491	
800.0	800.0	780.3	774.1	4.5	1.8	78.45	172.3	842.9	860.8	853.2	7.59	113.462	
900.0	900.0	867.9	861.4	4.7	2.1	78.01	179.4	844.7	864.4	856.6	7.77	111.257	
1,000.0	1,000.0	962.7	955.7	4.8	2.4	77.48	188.2	847.6	869.3	861.2	8.15	106.683	
1,100.0	1,100.0	1,063.1	1,055.6	5.0	2.8	76.93	197.4	850.7	874.4	865.9	8.55	102.289	
1,200.0	1,200.0	1,162.1	1,154.2	5.2	3.1	76.45	205.8	853.9	879.6	870.6	8.94	98.337	
1,300.0	1,300.0	1,255.1	1,246.9	5.3	3.5	76.04	213.2	857.4	885.1	875.8	9.33	94.908	
1,400.0	1,400.0	1,351.7	1,343.1	5.5	3.8	75.64	220.7	861.7	891.4	881.6	9.72	91.673	
1,500.0	1,500.0	1,467.1	1,458.2	5.6	4.3	75.25	228.1	866.5	897.0	886.8	10.21	87.822	
1,600.0	1,600.0	1,571.9	1,562.8	5.8	4.7	75.05	232.3	870.2	901.4	890.8	10.63	84.817	
1,700.0	1,700.0	1,677.1	1,667.8	5.9	5.0	74.89	235.8	873.5	905.4	894.3	11.05	81.959	
1,800.0	1,800.0	1,785.8	1,776.5	6.0	5.4	74.73	239.2	876.0	908.4	896.9	11.46	79.259	
1,900.0	1,900.0	1,894.9	1,885.5	6.2	5.7	74.59	242.0	877.7	910.5	898.7	11.86	76.768	
2,000.0	2,000.0	2,002.2	1,992.9	6.3	5.8	74.65	241.4	879.1	911.6	899.4	12.21	74.644	
2,100.0	2,100.0	2,107.1	2,097.7	6.5	5.9	-95.33	239.9	880.0	912.3	899.8	12.48	73.074	
2,200.0	2,199.9	2,210.2	2,200.9	6.6	6.0	-95.55	239.5	880.2	912.7	900.0	12.70	71.885	
2,300.0	2,299.7	2,315.1	2,305.7	6.8	6.1	-95.99	239.7	879.7	913.0	900.1	12.86	71.020	
2,333.3	2,332.9	2,347.9	2,338.5	6.8	6.1	-96.16	239.7	879.5	913.1	900.2	12.87	70.953	
2,400.0	2,399.4	2,413.6	2,404.2	6.9	6.1	-81.67	239.6	879.1	912.6	899.7	12.93	70.576	
2,500.0	2,499.1	2,515.1	2,505.7	7.0	6.1	-55.99	239.4	878.6	909.3	896.2	13.12	69.317	
2,600.0	2,598.7	2,617.3	2,607.9	7.2	6.2	-33.71	239.3	877.6	902.6	889.3	13.29	67.904	
2,700.0	2,698.2	2,716.6	2,707.2	7.4	6.3	-18.78	239.4	876.5	892.5	879.0	13.49	66.163	
2,800.0	2,797.4	2,813.0	2,803.6	7.6	6.3	-9.32	239.7	875.6	879.5	865.8	13.74	64.008	
2,900.0	2,896.2	2,911.4	2,902.0	7.7	6.5	-3.06	240.1	874.7	863.5	849.4	14.04	61.484	
3,000.0	2,994.5	3,006.3	2,996.9	7.9	6.6	1.36	240.6	874.0	844.5	830.1	14.39	58.675	
3,100.0	3,092.1	3,099.1	3,089.7	8.2	6.8	4.71	241.0	873.9	822.9	808.1	14.79	55.626	
3,162.7	3,152.9	3,158.4	3,149.0	8.3	6.9	6.47	241.2	874.1	807.9	792.9	15.02	53.793	
3,200.0	3,189.0	3,193.5	3,184.1	8.4	6.9	6.55	241.2	874.3	798.7	783.6	15.15	52.724	
3,300.0	3,285.8	3,287.2	3,277.8	8.6	7.0	6.77	241.3	875.1	774.4	758.8	15.58	49.709	
3,400.0	3,382.5	3,381.9	3,372.5	8.9	7.2	6.99	241.6	876.2	750.5	734.4	16.04	46.790	
3,500.0	3,479.3	3,482.1	3,472.7	9.2	7.4	7.24	242.1	877.4	726.5	710.0	16.53	43.962	
3,600.0	3,576.0	3,584.2	3,574.8	9.5	7.6	7.48	242.5	877.7	701.9	684.9	17.01	41.270	
3,700.0	3,672.8	3,680.7	3,671.3	9.9	7.7	7.73	242.8	877.7	676.9	659.4	17.49	38.711	
3,800.0	3,769.5	3,775.3	3,765.9	10.2	7.8	8.03	242.9	878.1	652.2	634.2	17.99	36.251	
3,900.0	3,866.3	3,871.6	3,862.1	10.6	7.9	8.40	242.5	878.9	627.7	609.2	18.52	33.895	
4,000.0	3,963.0	3,969.0	3,959.6	10.9	8.0	8.81	242.2	879.6	603.4	584.3	19.05	31.664	
4,100.0	4,059.7	4,065.2	4,055.7	11.3	8.1	9.29	241.4	880.4	578.9	559.3	19.59	29.545	
4,200.0	4,156.5	4,159.0	4,149.6	11.7	8.1	9.88	239.9	881.7	554.8	534.7	20.15	27.541	
4,300.0	4,253.2	4,256.0	4,246.5	12.1	8.2	10.58	238.2	883.5	531.3	510.5	20.71	25.652	
4,400.0	4,350.0	4,355.2	4,345.7	12.5	8.2	11.31	236.9	884.9	507.4	486.1	21.28	23.847	
4,500.0	4,446.7	4,452.6	4,443.1	12.9	8.3	12.04	235.9	885.9	483.3	461.4	21.85	22.116	
4,600.0	4,543.5	4,549.3	4,539.8	13.3	8.4	12.83	235.1	886.8	459.3	436.9	22.42	20.485	
4,700.0	4,640.2	4,639.2	4,629.7	13.7	8.5	13.66	234.2	888.2	436.0	413.0	22.95	18.998	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		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	4,737.0	4,724.2	4,714.6	14.1	8.7	14.56	233.5	891.6	415.1	391.4	23.65	17.547	
4,900.0	4,833.7	4,812.5	4,802.7	14.5	8.9	15.59	233.2	897.8	397.3	373.0	24.37	16.306	
5,000.0	4,930.5	4,908.7	4,898.5	15.0	9.1	16.79	233.0	905.9	381.1	356.0	25.05	15.212	
5,100.0	5,027.2	5,007.8	4,997.2	15.4	9.4	18.14	232.9	914.2	365.0	339.3	25.72	14.190	
5,200.0	5,124.0	5,104.9	5,094.0	15.8	9.6	19.60	232.7	922.2	349.1	322.7	26.40	13.226	
5,300.0	5,220.7	5,203.1	5,191.9	16.3	9.9	21.25	232.3	930.9	334.0	306.9	27.05	12.346	
5,400.0	5,317.4	5,300.2	5,288.6	16.7	10.2	23.00	232.0	939.3	318.9	291.2	27.70	11.515	
5,500.0	5,414.2	5,397.5	5,385.4	17.2	10.5	24.73	232.8	948.4	305.0	276.7	28.33	10.765	
5,600.0	5,510.9	5,496.3	5,483.8	17.6	10.8	26.62	233.7	957.7	291.3	262.4	28.93	10.068	
5,700.0	5,607.7	5,596.6	5,583.7	18.1	11.1	28.72	234.6	966.9	277.7	248.2	29.49	9.419	
5,800.0	5,704.4	5,695.9	5,682.6	18.5	11.4	31.03	235.6	975.4	263.9	234.0	29.99	8.801	
5,900.0	5,801.2	5,794.6	5,780.9	19.0	11.7	33.54	236.7	983.7	250.5	220.1	30.44	8.230	
6,000.0	5,897.9	5,893.6	5,879.6	19.4	12.0	36.40	237.5	991.8	237.4	206.6	30.79	7.711	
6,100.0	5,994.7	5,995.5	5,981.2	19.9	12.3	39.94	237.7	999.1	224.2	193.2	30.97	7.238	
6,200.0	6,091.4	6,094.8	6,080.4	20.3	12.6	44.27	236.6	1,004.5	210.7	179.8	30.95	6.807	
6,300.0	6,188.2	6,193.1	6,178.6	20.8	12.9	49.28	235.1	1,009.3	198.1	167.4	30.71	6.452	
6,400.0	6,284.9	6,293.5	6,278.9	21.3	13.1	55.32	233.3	1,012.8	186.3	156.2	30.13	6.185	
6,500.0	6,381.7	6,391.2	6,376.5	21.7	13.3	62.21	231.2	1,015.0	176.0	146.7	29.27	6.013	
6,600.0	6,478.4	6,488.5	6,473.8	22.2	13.4	69.84	229.1	1,016.8	168.3	140.1	28.20	5.967 SF	
6,700.0	6,575.2	6,585.9	6,571.2	22.7	13.6	78.07	227.1	1,018.3	163.7	136.6	27.12	6.038	
6,775.6	6,648.3	6,659.1	6,644.3	23.0	13.7	84.47	225.6	1,019.4	162.6	136.2	26.46	6.147 CC, ES	
6,800.0	6,671.9	6,682.7	6,667.9	23.1	13.7	86.56	225.2	1,019.7	162.7	136.4	26.30	6.188	
6,900.0	6,768.6	6,779.8	6,765.1	23.6	13.8	95.01	223.2	1,021.0	165.6	139.5	26.02	6.363	
7,000.0	6,865.4	6,877.8	6,863.0	24.1	14.0	103.24	221.7	1,021.7	171.4	145.0	26.42	6.489	
7,100.0	6,962.1	6,974.4	6,959.6	24.6	14.0	110.82	220.4	1,022.1	180.5	153.1	27.41	6.585	
7,200.0	7,058.9	7,070.9	7,056.1	25.0	14.1	117.67	219.0	1,022.2	192.7	163.9	28.80	6.692	
7,300.0	7,155.6	7,167.9	7,153.1	25.5	14.2	123.71	217.7	1,022.3	207.3	176.9	30.36	6.827	
7,400.0	7,252.4	7,264.1	7,249.2	26.0	14.2	128.90	216.4	1,022.4	223.9	192.0	31.95	7.009	
7,500.0	7,349.1	7,360.1	7,345.3	26.5	14.2	133.39	214.9	1,022.3	242.4	209.0	33.44	7.248	
7,600.0	7,445.9	7,456.0	7,441.2	26.9	14.3	137.28	213.3	1,021.9	262.4	227.5	34.85	7.530	
7,700.0	7,542.6	7,552.4	7,537.5	27.4	14.2	140.71	211.7	1,021.2	283.6	247.4	36.17	7.841	
7,800.0	7,639.4	7,649.0	7,634.1	27.9	14.2	143.70	210.3	1,020.4	305.5	268.1	37.39	8.169	
7,900.0	7,736.1	7,744.7	7,729.8	28.4	14.2	146.27	208.7	1,019.5	328.3	289.7	38.51	8.523	
8,000.0	7,832.9	7,840.9	7,825.9	28.9	14.2	148.52	207.1	1,018.5	351.7	312.1	39.56	8.888	
8,100.0	7,929.6	7,936.8	7,921.8	29.3	14.2	150.44	205.3	1,017.8	375.6	335.1	40.54	9.266	
8,200.0	8,026.3	8,032.7	8,017.7	29.8	14.2	152.11	203.3	1,017.1	400.1	358.6	41.46	9.649	
8,300.0	8,123.1	8,128.4	8,113.4	30.3	14.2	153.61	201.3	1,016.2	424.9	382.5	42.34	10.035	
8,400.0	8,219.8	8,223.7	8,208.7	30.8	14.2	154.97	199.3	1,015.0	450.1	407.0	43.18	10.424	
8,500.0	8,316.6	8,319.7	8,304.7	31.3	14.2	156.20	197.2	1,013.7	475.8	431.8	44.01	10.811	
8,600.0	8,413.3	8,415.3	8,400.3	31.8	14.1	157.34	195.3	1,012.2	501.6	456.8	44.81	11.193	
8,700.0	8,510.1	8,508.2	8,493.1	32.2	14.1	158.38	193.6	1,010.2	527.9	482.3	45.55	11.588	
8,800.0	8,606.8	8,598.5	8,583.4	32.7	14.0	159.37	191.8	1,007.3	555.2	508.9	46.25	12.005	
8,900.0	8,703.6	8,688.1	8,672.9	33.2	14.0	160.27	189.4	1,003.7	583.7	536.7	46.91	12.441	
9,000.0	8,800.3	8,758.0	8,742.5	33.7	14.0	160.67	184.9	1,001.8	614.0	566.8	47.18	13.013	
9,100.0	8,897.1	8,821.0	8,804.4	34.2	14.1	160.33	173.3	1,002.2	649.5	602.3	47.19	13.765	
9,200.0	8,993.8	8,872.8	8,854.1	34.7	14.2	159.69	159.0	1,003.5	689.8	642.9	46.92	14.704	
9,300.0	9,090.6	8,916.0	8,894.5	35.2	14.3	158.96	143.6	1,004.4	735.9	689.5	46.47	15.838	
9,400.0	9,187.3	8,965.0	8,939.1	35.6	14.4	158.07	123.4	1,004.5	787.1	741.0	46.12	17.068	
9,500.0	9,284.0	9,011.0	8,979.6	36.1	14.5	157.07	101.5	1,005.4	842.3	796.6	45.73	18.419	
9,600.0	9,380.8	9,042.0	9,005.8	36.6	14.5	156.33	85.1	1,005.9	901.9	856.7	45.17	19.966	
9,700.0	9,477.5	9,088.0	9,043.4	37.1	14.6	155.19	58.6	1,006.8	965.1	920.2	44.88	21.505	

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 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB @ 3187.4usft

Offset Depths are relative to Offset Datum

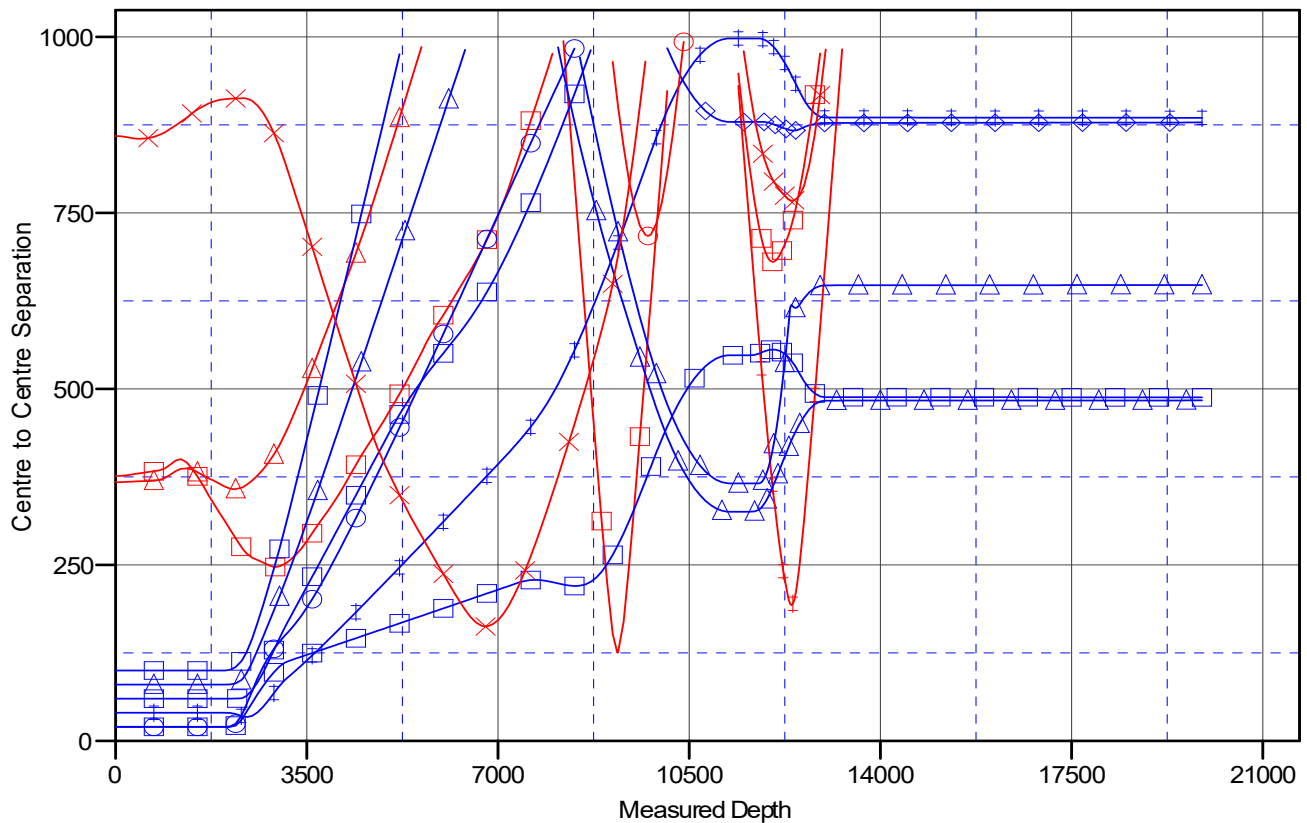
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 706H

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

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

RED HILLS WEST 21 FEDERAL COM 2H, OWB, AWP V0
RED HILLS WEST 21 WICN FEDERAL COM 002H, OWB, AWP V0
WILDER 28 AC FEDERAL COM 004H, OWB, AWP V0
WILDER 28 AC FEDERAL COM 008H, OWB, AWP V0
_ZIA HILLS UNIT 2832 WC 701H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 702H OWB, PWP0 V0

_ZIA HILLS UNIT 2832 WC 703H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 704H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 707H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0
_ZIA HILLS UNIT 2832 WC 801H OWB, PWP0 V0

_ZIA HILLS UNIT 2832 WC 802H OWB, PWP0 V0
RED HILLS WEST 21 BO FEDERAL COM 1H, OWB, AWP V0
RED HILLS WEST 21 WBO FEDERAL COM 004H, OWB, AWP V0
RED HILLS WEST 21 WCN FEDERAL COM 001H, OWB, AWP V0
WILDER FEDERAL AC COM 2 3H, OWB, AWP V0

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3187.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3187.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB @ 3187.4usft

Offset Depths are relative to Offset Datum

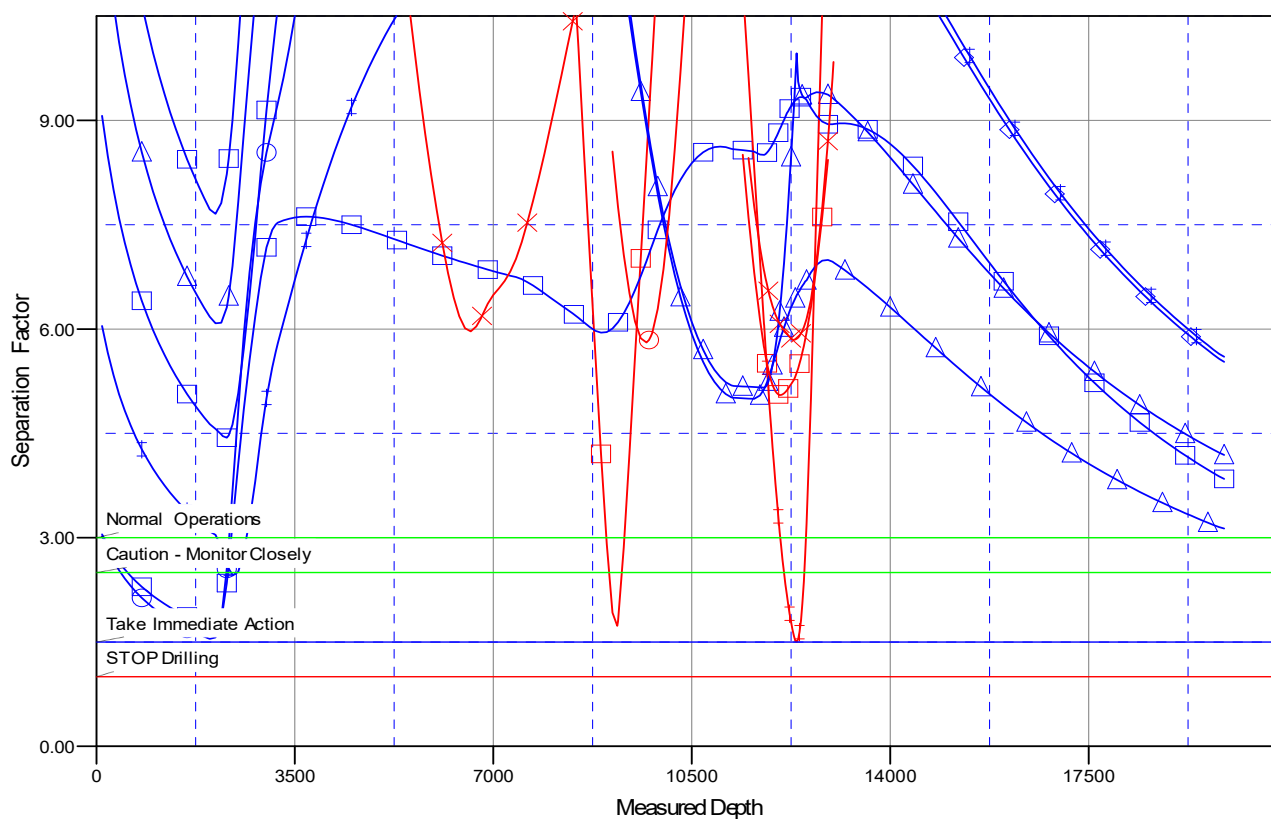
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 706H

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

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

RED HILLS WEST 21 FEDERAL COM 2H, OWB, AWP V0
 RED HILLS WEST 21 WCN FEDERAL COM 002H, OWB, AWP V0
 WILDER 28 AC FEDERAL COM 004H, OWB, AWP V0
 WILDER 28 AC FEDERAL COM 008H, OWB, AWP V0
 _ZIA HILLS UNIT 2832 WC 701H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 702H OWB, PWP0 V0

_ZIA HILLS UNIT 2832 WC 703H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 704H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 707H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 801H OWB, PWP0 V0

_ZIA HILLS UNIT 2832 WC 802H OWB, PWP0 V0
 RED HILLS WEST 21 BOY FEDERAL COM 1H, OWB, AWP V0
 RED HILLS WEST 21 WBO FEDERAL COM 004H, OWB, AWP V0
 RED HILLS WEST 21 WCN FEDERAL COM 001H, OWB, AWP V0
 WILDER FEDERAL AC COM 2 3H, OWB, AWP 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 706H

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 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	10/16/2024	6.27	59.51	47,133.44947695

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	166.21

Plan Survey Tool Program		Date	2/26/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,887.8 PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,333.3	5.00	170.00	2,332.9	-14.3	2.5	1.50	1.50	0.00	170.00	
3,162.7	14.66	65.84	3,152.9	-6.9	105.2	2.00	1.16	-12.56	-120.75	
9,775.3	14.66	65.84	9,550.4	677.7	1,631.8	0.00	0.00	0.00	0.00	
11,240.8	0.00	0.00	11,000.0	754.0	1,801.9	1.00	-1.00	0.00	180.00	
11,773.3	0.00	0.00	11,532.5	754.0	1,801.9	0.00	0.00	0.00	0.00	
12,523.3	90.00	188.80	12,010.0	282.2	1,728.9	12.00	12.00	0.00	188.80	
12,981.1	90.00	179.64	12,010.0	-173.9	1,695.2	2.00	0.00	-2.00	-90.00	
19,888.3	90.00	179.64	12,010.0	-7,080.9	1,738.0	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 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 706H	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	170.00	2,100.0	-1.3	0.2	1.3	1.50	1.50	0.00
2,200.0	3.00	170.00	2,199.9	-5.2	0.9	5.2	1.50	1.50	0.00
2,300.0	4.50	170.00	2,299.7	-11.6	2.0	11.7	1.50	1.50	0.00
2,333.3	5.00	170.00	2,332.9	-14.3	2.5	14.5	1.50	1.50	0.00
2,400.0	4.47	155.12	2,399.4	-19.5	4.1	20.0	2.00	-0.80	-22.31
2,500.0	4.36	128.95	2,499.1	-25.5	8.7	26.8	2.00	-0.10	-26.17
2,600.0	5.11	106.27	2,598.7	-29.1	16.0	32.1	2.00	0.75	-22.68
2,700.0	6.42	91.05	2,698.2	-30.4	25.8	35.7	2.00	1.31	-15.22
2,800.0	8.01	81.40	2,797.4	-29.5	38.3	37.8	2.00	1.60	-9.66
2,900.0	9.76	75.05	2,896.2	-26.3	53.4	38.2	2.00	1.75	-6.35
3,000.0	11.59	70.64	2,994.5	-20.8	71.0	37.1	2.00	1.83	-4.40
3,100.0	13.46	67.44	3,092.1	-13.0	91.3	34.3	2.00	1.88	-3.20
3,162.7	14.66	65.84	3,152.9	-6.9	105.2	31.8	2.00	1.90	-2.54
3,200.0	14.66	65.84	3,189.0	-3.1	113.9	30.1	0.00	0.00	0.00
3,300.0	14.66	65.84	3,285.8	7.3	137.0	25.6	0.00	0.00	0.00
3,400.0	14.66	65.84	3,382.5	17.7	160.0	21.0	0.00	0.00	0.00
3,500.0	14.66	65.84	3,479.3	28.0	183.1	16.5	0.00	0.00	0.00
3,600.0	14.66	65.84	3,576.0	38.4	206.2	11.9	0.00	0.00	0.00
3,700.0	14.66	65.84	3,672.8	48.7	229.3	7.3	0.00	0.00	0.00
3,800.0	14.66	65.84	3,769.5	59.1	252.4	2.8	0.00	0.00	0.00
3,900.0	14.66	65.84	3,866.3	69.4	275.5	-1.8	0.00	0.00	0.00
4,000.0	14.66	65.84	3,963.0	79.8	298.6	-6.3	0.00	0.00	0.00
4,100.0	14.66	65.84	4,059.7	90.1	321.6	-10.9	0.00	0.00	0.00
4,200.0	14.66	65.84	4,156.5	100.5	344.7	-15.4	0.00	0.00	0.00
4,300.0	14.66	65.84	4,253.2	110.8	367.8	-20.0	0.00	0.00	0.00
4,400.0	14.66	65.84	4,350.0	121.2	390.9	-24.5	0.00	0.00	0.00
4,500.0	14.66	65.84	4,446.7	131.5	414.0	-29.1	0.00	0.00	0.00
4,600.0	14.66	65.84	4,543.5	141.9	437.1	-33.6	0.00	0.00	0.00
4,700.0	14.66	65.84	4,640.2	152.2	460.1	-38.2	0.00	0.00	0.00
4,800.0	14.66	65.84	4,737.0	162.6	483.2	-42.7	0.00	0.00	0.00
4,900.0	14.66	65.84	4,833.7	173.0	506.3	-47.3	0.00	0.00	0.00
5,000.0	14.66	65.84	4,930.5	183.3	529.4	-51.8	0.00	0.00	0.00
5,100.0	14.66	65.84	5,027.2	193.7	552.5	-56.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 706H	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	14.66	65.84	5,124.0	204.0	575.6	-60.9	0.00	0.00	0.00
5,300.0	14.66	65.84	5,220.7	214.4	598.7	-65.5	0.00	0.00	0.00
5,400.0	14.66	65.84	5,317.4	224.7	621.7	-70.0	0.00	0.00	0.00
5,500.0	14.66	65.84	5,414.2	235.1	644.8	-74.6	0.00	0.00	0.00
5,600.0	14.66	65.84	5,510.9	245.4	667.9	-79.1	0.00	0.00	0.00
5,700.0	14.66	65.84	5,607.7	255.8	691.0	-83.7	0.00	0.00	0.00
5,800.0	14.66	65.84	5,704.4	266.1	714.1	-88.3	0.00	0.00	0.00
5,900.0	14.66	65.84	5,801.2	276.5	737.2	-92.8	0.00	0.00	0.00
6,000.0	14.66	65.84	5,897.9	286.8	760.3	-97.4	0.00	0.00	0.00
6,100.0	14.66	65.84	5,994.7	297.2	783.3	-101.9	0.00	0.00	0.00
6,200.0	14.66	65.84	6,091.4	307.5	806.4	-106.5	0.00	0.00	0.00
6,300.0	14.66	65.84	6,188.2	317.9	829.5	-111.0	0.00	0.00	0.00
6,400.0	14.66	65.84	6,284.9	328.3	852.6	-115.6	0.00	0.00	0.00
6,500.0	14.66	65.84	6,381.7	338.6	875.7	-120.1	0.00	0.00	0.00
6,600.0	14.66	65.84	6,478.4	349.0	898.8	-124.7	0.00	0.00	0.00
6,700.0	14.66	65.84	6,575.2	359.3	921.9	-129.2	0.00	0.00	0.00
6,800.0	14.66	65.84	6,671.9	369.7	944.9	-133.8	0.00	0.00	0.00
6,900.0	14.66	65.84	6,768.6	380.0	968.0	-138.3	0.00	0.00	0.00
7,000.0	14.66	65.84	6,865.4	390.4	991.1	-142.9	0.00	0.00	0.00
7,100.0	14.66	65.84	6,962.1	400.7	1,014.2	-147.4	0.00	0.00	0.00
7,200.0	14.66	65.84	7,058.9	411.1	1,037.3	-152.0	0.00	0.00	0.00
7,300.0	14.66	65.84	7,155.6	421.4	1,060.4	-156.5	0.00	0.00	0.00
7,400.0	14.66	65.84	7,252.4	431.8	1,083.5	-161.1	0.00	0.00	0.00
7,500.0	14.66	65.84	7,349.1	442.1	1,106.5	-165.6	0.00	0.00	0.00
7,600.0	14.66	65.84	7,445.9	452.5	1,129.6	-170.2	0.00	0.00	0.00
7,700.0	14.66	65.84	7,542.6	462.9	1,152.7	-174.7	0.00	0.00	0.00
7,800.0	14.66	65.84	7,639.4	473.2	1,175.8	-179.3	0.00	0.00	0.00
7,900.0	14.66	65.84	7,736.1	483.6	1,198.9	-183.9	0.00	0.00	0.00
8,000.0	14.66	65.84	7,832.9	493.9	1,222.0	-188.4	0.00	0.00	0.00
8,100.0	14.66	65.84	7,929.6	504.3	1,245.1	-193.0	0.00	0.00	0.00
8,200.0	14.66	65.84	8,026.3	514.6	1,268.1	-197.5	0.00	0.00	0.00
8,300.0	14.66	65.84	8,123.1	525.0	1,291.2	-202.1	0.00	0.00	0.00
8,400.0	14.66	65.84	8,219.8	535.3	1,314.3	-206.6	0.00	0.00	0.00
8,500.0	14.66	65.84	8,316.6	545.7	1,337.4	-211.2	0.00	0.00	0.00
8,600.0	14.66	65.84	8,413.3	556.0	1,360.5	-215.7	0.00	0.00	0.00
8,700.0	14.66	65.84	8,510.1	566.4	1,383.6	-220.3	0.00	0.00	0.00
8,800.0	14.66	65.84	8,606.8	576.7	1,406.7	-224.8	0.00	0.00	0.00
8,900.0	14.66	65.84	8,703.6	587.1	1,429.7	-229.4	0.00	0.00	0.00
9,000.0	14.66	65.84	8,800.3	597.4	1,452.8	-233.9	0.00	0.00	0.00
9,100.0	14.66	65.84	8,897.1	607.8	1,475.9	-238.5	0.00	0.00	0.00
9,200.0	14.66	65.84	8,993.8	618.2	1,499.0	-243.0	0.00	0.00	0.00
9,300.0	14.66	65.84	9,090.6	628.5	1,522.1	-247.6	0.00	0.00	0.00
9,400.0	14.66	65.84	9,187.3	638.9	1,545.2	-252.1	0.00	0.00	0.00
9,500.0	14.66	65.84	9,284.0	649.2	1,568.3	-256.7	0.00	0.00	0.00
9,600.0	14.66	65.84	9,380.8	659.6	1,591.3	-261.2	0.00	0.00	0.00
9,700.0	14.66	65.84	9,477.5	669.9	1,614.4	-265.8	0.00	0.00	0.00
9,775.3	14.66	65.84	9,550.4	677.7	1,631.8	-269.2	0.00	0.00	0.00
9,800.0	14.41	65.84	9,574.3	680.3	1,637.5	-270.3	1.00	-1.00	0.00
9,900.0	13.41	65.84	9,671.4	690.1	1,659.4	-274.7	1.00	-1.00	0.00
10,000.0	12.41	65.84	9,768.8	699.2	1,679.8	-278.7	1.00	-1.00	0.00
10,100.0	11.41	65.84	9,866.7	707.7	1,698.6	-282.4	1.00	-1.00	0.00
10,200.0	10.41	65.84	9,964.9	715.4	1,715.9	-285.8	1.00	-1.00	0.00
10,300.0	9.41	65.84	10,063.4	722.5	1,731.6	-288.9	1.00	-1.00	0.00
10,400.0	8.41	65.84	10,162.2	728.8	1,745.7	-291.7	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	7.41	65.84	10,261.2	734.4	1,758.3	-294.2	1.00	-1.00	0.00
10,600.0	6.41	65.84	10,360.5	739.3	1,769.2	-296.3	1.00	-1.00	0.00
10,700.0	5.41	65.84	10,460.0	743.6	1,778.6	-298.2	1.00	-1.00	0.00
10,800.0	4.41	65.84	10,559.6	747.1	1,786.4	-299.7	1.00	-1.00	0.00
10,900.0	3.41	65.84	10,659.4	749.9	1,792.7	-300.9	1.00	-1.00	0.00
11,000.0	2.41	65.84	10,759.2	751.9	1,797.3	-301.9	1.00	-1.00	0.00
11,100.0	1.41	65.84	10,859.2	753.3	1,800.3	-302.5	1.00	-1.00	0.00
11,200.0	0.41	65.84	10,959.2	753.9	1,801.8	-302.7	1.00	-1.00	0.00
11,240.8	0.00	0.00	11,000.0	754.0	1,801.9	-302.8	1.00	-1.00	0.00
11,300.0	0.00	0.00	11,059.2	754.0	1,801.9	-302.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,159.2	754.0	1,801.9	-302.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,259.2	754.0	1,801.9	-302.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,359.2	754.0	1,801.9	-302.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,459.2	754.0	1,801.9	-302.8	0.00	0.00	0.00
11,773.3	0.00	0.00	11,532.5	754.0	1,801.9	-302.8	0.00	0.00	0.00
11,800.0	3.20	188.80	11,559.1	753.3	1,801.8	-302.1	12.00	12.00	0.00
11,900.0	15.20	188.80	11,657.7	737.5	1,799.3	-287.3	12.00	12.00	0.00
12,000.0	27.20	188.80	11,750.7	701.8	1,793.8	-254.0	12.00	12.00	0.00
12,100.0	39.20	188.80	11,834.3	647.8	1,785.5	-203.6	12.00	12.00	0.00
12,200.0	51.20	188.80	11,904.6	577.8	1,774.6	-138.2	12.00	12.00	0.00
12,300.0	63.20	188.80	11,958.7	494.9	1,761.8	-60.7	12.00	12.00	0.00
12,400.0	75.20	188.80	11,994.1	402.7	1,747.5	25.5	12.00	12.00	0.00
12,500.0	87.20	188.80	12,009.4	305.2	1,732.4	116.5	12.00	12.00	0.00
12,523.3	90.00	188.80	12,010.0	282.2	1,728.9	138.1	12.00	12.00	0.00
12,600.0	90.00	187.27	12,010.0	206.2	1,718.1	209.2	2.00	0.00	-2.00
12,700.0	90.00	185.27	12,010.0	106.8	1,707.2	303.2	2.00	0.00	-2.00
12,800.0	90.00	183.27	12,010.0	7.1	1,699.8	398.2	2.00	0.00	-2.00
12,900.0	90.00	181.27	12,010.0	-92.8	1,695.8	494.3	2.00	0.00	-2.00
12,981.1	90.00	179.64	12,010.0	-173.9	1,695.2	572.9	2.00	0.00	-2.00
13,000.0	90.00	179.64	12,010.0	-192.8	1,695.3	591.3	0.00	0.00	0.00
13,100.0	90.00	179.64	12,010.0	-292.8	1,695.9	688.6	0.00	0.00	0.00
13,200.0	90.00	179.64	12,010.0	-392.8	1,696.5	785.8	0.00	0.00	0.00
13,300.0	90.00	179.64	12,010.0	-492.8	1,697.2	883.1	0.00	0.00	0.00
13,400.0	90.00	179.64	12,010.0	-592.8	1,697.8	980.4	0.00	0.00	0.00
13,500.0	90.00	179.64	12,010.0	-692.8	1,698.4	1,077.6	0.00	0.00	0.00
13,600.0	90.00	179.64	12,010.0	-792.8	1,699.0	1,174.9	0.00	0.00	0.00
13,700.0	90.00	179.64	12,010.0	-892.8	1,699.6	1,272.2	0.00	0.00	0.00
13,800.0	90.00	179.64	12,010.0	-992.8	1,700.3	1,369.4	0.00	0.00	0.00
13,900.0	90.00	179.64	12,010.0	-1,092.8	1,700.9	1,466.7	0.00	0.00	0.00
14,000.0	90.00	179.64	12,010.0	-1,192.8	1,701.5	1,564.0	0.00	0.00	0.00
14,100.0	90.00	179.64	12,010.0	-1,292.8	1,702.1	1,661.2	0.00	0.00	0.00
14,200.0	90.00	179.64	12,010.0	-1,392.8	1,702.7	1,758.5	0.00	0.00	0.00
14,300.0	90.00	179.64	12,010.0	-1,492.8	1,703.4	1,855.7	0.00	0.00	0.00
14,400.0	90.00	179.64	12,010.0	-1,592.8	1,704.0	1,953.0	0.00	0.00	0.00
14,500.0	90.00	179.64	12,010.0	-1,692.8	1,704.6	2,050.3	0.00	0.00	0.00
14,600.0	90.00	179.64	12,010.0	-1,792.7	1,705.2	2,147.5	0.00	0.00	0.00
14,700.0	90.00	179.64	12,010.0	-1,892.7	1,705.8	2,244.8	0.00	0.00	0.00
14,800.0	90.00	179.64	12,010.0	-1,992.7	1,706.5	2,342.1	0.00	0.00	0.00
14,900.0	90.00	179.64	12,010.0	-2,092.7	1,707.1	2,439.3	0.00	0.00	0.00
15,000.0	90.00	179.64	12,010.0	-2,192.7	1,707.7	2,536.6	0.00	0.00	0.00
15,100.0	90.00	179.64	12,010.0	-2,292.7	1,708.3	2,633.9	0.00	0.00	0.00
15,200.0	90.00	179.64	12,010.0	-2,392.7	1,708.9	2,731.1	0.00	0.00	0.00
15,300.0	90.00	179.64	12,010.0	-2,492.7	1,709.6	2,828.4	0.00	0.00	0.00
15,400.0	90.00	179.64	12,010.0	-2,592.7	1,710.2	2,925.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 706H	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)	
15,500.0	90.00	179.64	12,010.0	-2,692.7	1,710.8	3,022.9	0.00	0.00	0.00	
15,600.0	90.00	179.64	12,010.0	-2,792.7	1,711.4	3,120.2	0.00	0.00	0.00	
15,700.0	90.00	179.64	12,010.0	-2,892.7	1,712.0	3,217.4	0.00	0.00	0.00	
15,800.0	90.00	179.64	12,010.0	-2,992.7	1,712.7	3,314.7	0.00	0.00	0.00	
15,900.0	90.00	179.64	12,010.0	-3,092.7	1,713.3	3,412.0	0.00	0.00	0.00	
16,000.0	90.00	179.64	12,010.0	-3,192.7	1,713.9	3,509.2	0.00	0.00	0.00	
16,100.0	90.00	179.64	12,010.0	-3,292.7	1,714.5	3,606.5	0.00	0.00	0.00	
16,200.0	90.00	179.64	12,010.0	-3,392.7	1,715.1	3,703.8	0.00	0.00	0.00	
16,300.0	90.00	179.64	12,010.0	-3,492.7	1,715.8	3,801.0	0.00	0.00	0.00	
16,400.0	90.00	179.64	12,010.0	-3,592.7	1,716.4	3,898.3	0.00	0.00	0.00	
16,500.0	90.00	179.64	12,010.0	-3,692.7	1,717.0	3,995.5	0.00	0.00	0.00	
16,600.0	90.00	179.64	12,010.0	-3,792.7	1,717.6	4,092.8	0.00	0.00	0.00	
16,700.0	90.00	179.64	12,010.0	-3,892.7	1,718.2	4,190.1	0.00	0.00	0.00	
16,800.0	90.00	179.64	12,010.0	-3,992.7	1,718.9	4,287.3	0.00	0.00	0.00	
16,900.0	90.00	179.64	12,010.0	-4,092.7	1,719.5	4,384.6	0.00	0.00	0.00	
17,000.0	90.00	179.64	12,010.0	-4,192.7	1,720.1	4,481.9	0.00	0.00	0.00	
17,100.0	90.00	179.64	12,010.0	-4,292.7	1,720.7	4,579.1	0.00	0.00	0.00	
17,200.0	90.00	179.64	12,010.0	-4,392.7	1,721.3	4,676.4	0.00	0.00	0.00	
17,300.0	90.00	179.64	12,010.0	-4,492.7	1,722.0	4,773.7	0.00	0.00	0.00	
17,400.0	90.00	179.64	12,010.0	-4,592.7	1,722.6	4,870.9	0.00	0.00	0.00	
17,500.0	90.00	179.64	12,010.0	-4,692.7	1,723.2	4,968.2	0.00	0.00	0.00	
17,600.0	90.00	179.64	12,010.0	-4,792.7	1,723.8	5,065.4	0.00	0.00	0.00	
17,700.0	90.00	179.64	12,010.0	-4,892.7	1,724.4	5,162.7	0.00	0.00	0.00	
17,800.0	90.00	179.64	12,010.0	-4,992.7	1,725.1	5,260.0	0.00	0.00	0.00	
17,900.0	90.00	179.64	12,010.0	-5,092.7	1,725.7	5,357.2	0.00	0.00	0.00	
18,000.0	90.00	179.64	12,010.0	-5,192.7	1,726.3	5,454.5	0.00	0.00	0.00	
18,100.0	90.00	179.64	12,010.0	-5,292.7	1,726.9	5,551.8	0.00	0.00	0.00	
18,200.0	90.00	179.64	12,010.0	-5,392.7	1,727.6	5,649.0	0.00	0.00	0.00	
18,300.0	90.00	179.64	12,010.0	-5,492.7	1,728.2	5,746.3	0.00	0.00	0.00	
18,400.0	90.00	179.64	12,010.0	-5,592.7	1,728.8	5,843.6	0.00	0.00	0.00	
18,500.0	90.00	179.64	12,010.0	-5,692.7	1,729.4	5,940.8	0.00	0.00	0.00	
18,600.0	90.00	179.64	12,010.0	-5,792.7	1,730.0	6,038.1	0.00	0.00	0.00	
18,700.0	90.00	179.64	12,010.0	-5,892.7	1,730.7	6,135.3	0.00	0.00	0.00	
18,800.0	90.00	179.64	12,010.0	-5,992.7	1,731.3	6,232.6	0.00	0.00	0.00	
18,900.0	90.00	179.64	12,010.0	-6,092.7	1,731.9	6,329.9	0.00	0.00	0.00	
19,000.0	90.00	179.64	12,010.0	-6,192.7	1,732.5	6,427.1	0.00	0.00	0.00	
19,100.0	90.00	179.64	12,010.0	-6,292.7	1,733.1	6,524.4	0.00	0.00	0.00	
19,200.0	90.00	179.64	12,010.0	-6,392.7	1,733.8	6,621.7	0.00	0.00	0.00	
19,300.0	90.00	179.64	12,010.0	-6,492.7	1,734.4	6,718.9	0.00	0.00	0.00	
19,400.0	90.00	179.64	12,010.0	-6,592.7	1,735.0	6,816.2	0.00	0.00	0.00	
19,500.0	90.00	179.64	12,010.0	-6,692.7	1,735.6	6,913.5	0.00	0.00	0.00	
19,600.0	90.00	179.64	12,010.0	-6,792.7	1,736.2	7,010.7	0.00	0.00	0.00	
19,700.0	90.00	179.64	12,010.0	-6,892.7	1,736.9	7,108.0	0.00	0.00	0.00	
19,800.0	90.00	179.64	12,010.0	-6,992.6	1,737.5	7,205.2	0.00	0.00	0.00	
19,888.3	90.00	179.64	12,010.0	-7,080.9	1,738.0	7,291.1	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3187.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3187.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL_ZHU 2832 706H	0.00	359.64	12,010.0	-7,080.9	1,738.0	364,424.38	702,400.05	32° 0' 0.850 N	103° 40' 49.524 W
- plan hits target center									
- Rectangle (sides W100.0 H7,357.7 D20.0)									
LTP_ZHU 2832 706H	90.00	0.00	12,010.0	-7,030.9	1,737.7	364,474.38	702,399.71	32° 0' 1.345 N	103° 40' 49.524 W
- plan misses target center by 38.3usft at 19800.0usft MD (12010.0 TVD, -6992.6 N, 1737.5 E)									
- Circle (radius 50.0)									
FTP_ZHU 2832 706H	0.00	0.00	12,010.0	276.5	1,692.1	371,781.82	702,354.14	32° 1' 13.662 N	103° 40' 49.541 W
- plan misses target center by 35.5usft at 12534.1usft MD (12010.0 TVD, 271.6 N, 1727.2 E)									
- Circle (radius 50.0)									

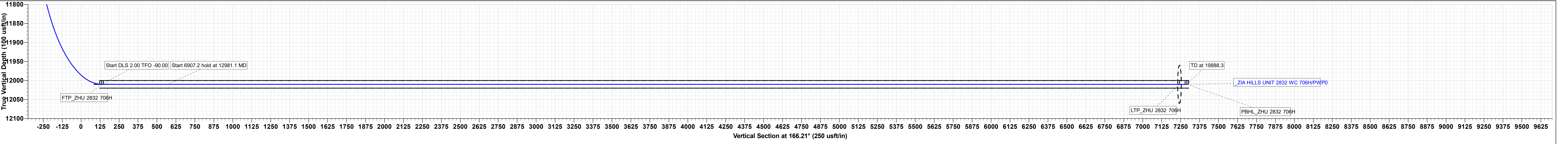
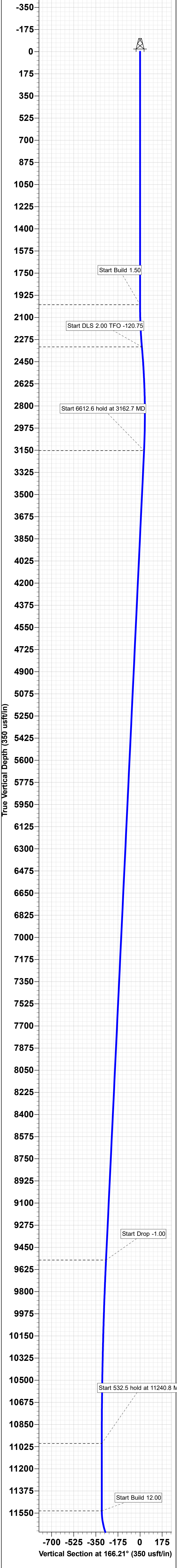
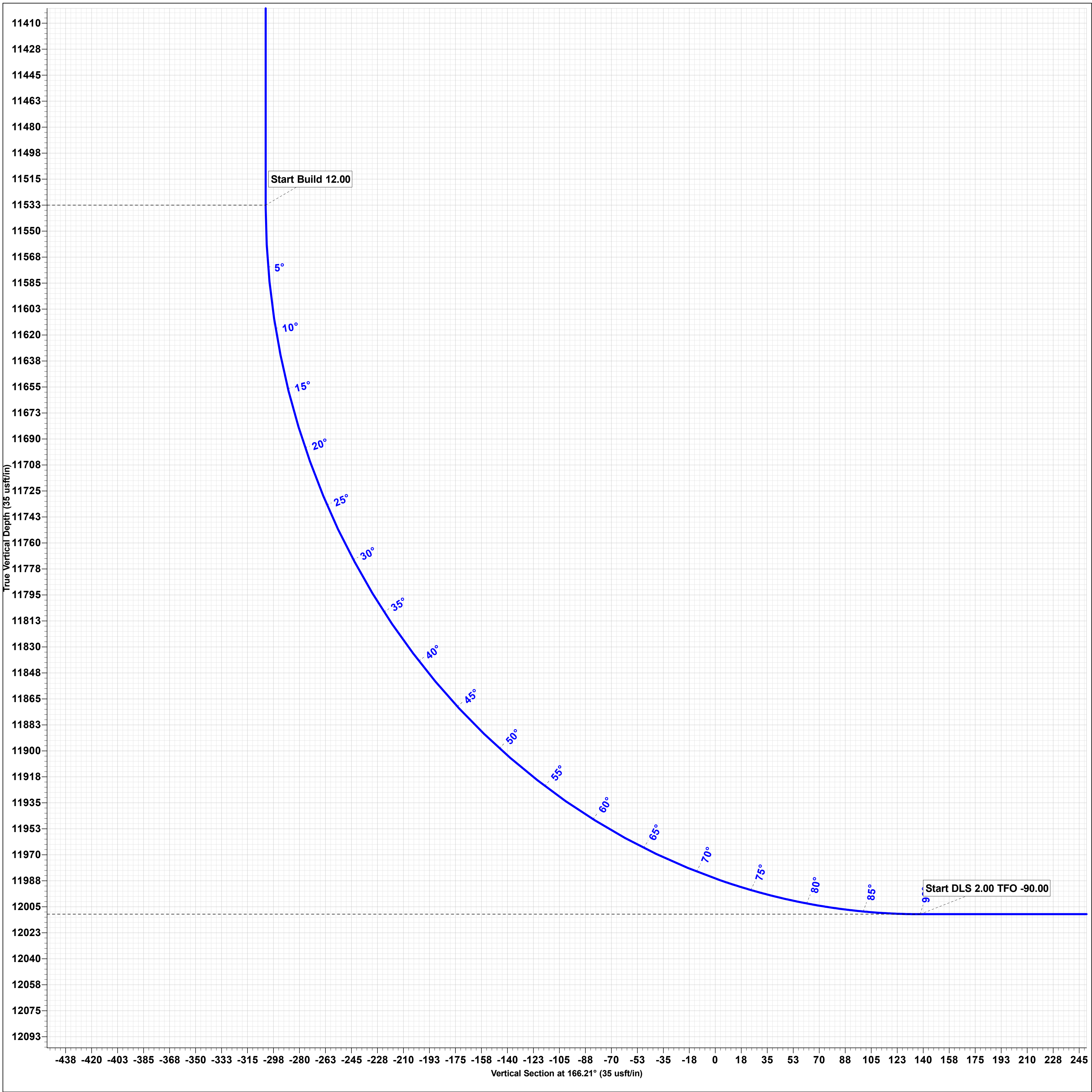
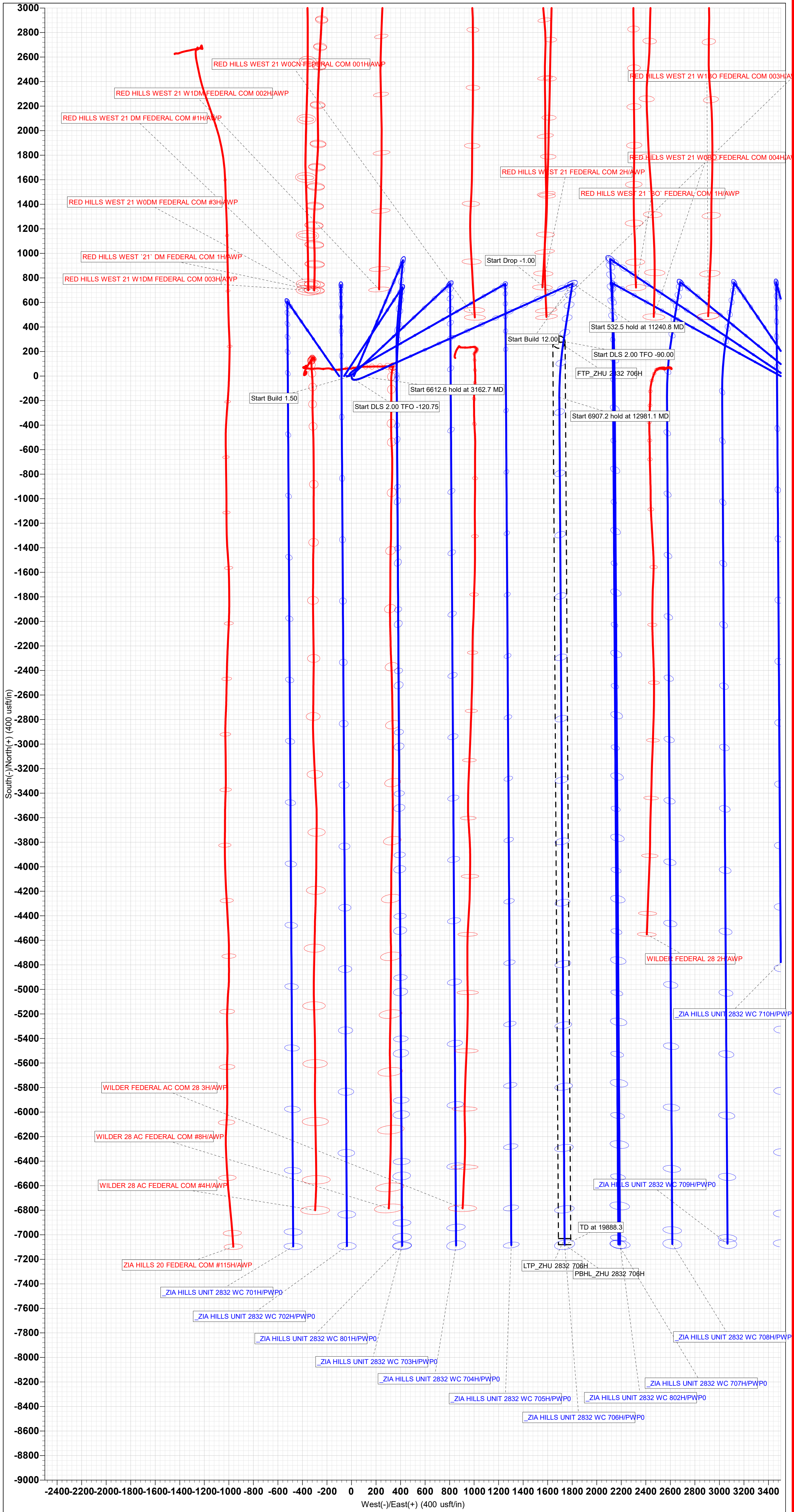
Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	19,888.8	12,010.0	5-1/2" Production Casing	5-1/2	6



Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2832 PROJECT
Well: ZIA HILLS UNIT 2832 WC 706H
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	170.00	2332.9	-14.3	2.5	1.50	170.00	14.5
3162.7	14.66	65.84	3152.9	-6.9	105.2	2.00	-120.75	31.8
9775.3	14.66	65.84	9550.4	677.7	1631.8	0.00	0.00	-269.2
11240.8	0.00	0.00	11000.0	754.0	1801.9	1.00	180.00	-302.8
11773.3	0.00	0.00	11532.5	754.0	1801.9	0.00	0.00	-302.8
12523.3	90.00	188.80	12010.0	282.2	1728.9	12.00	188.80	138.1
12981.1	90.00	179.64	12010.0	-173.9	1695.2	2.00	-90.00	572.9
19888.3	90.00	179.64	12010.0	-7080.9	1738.0	0.00	0.00	7291.1



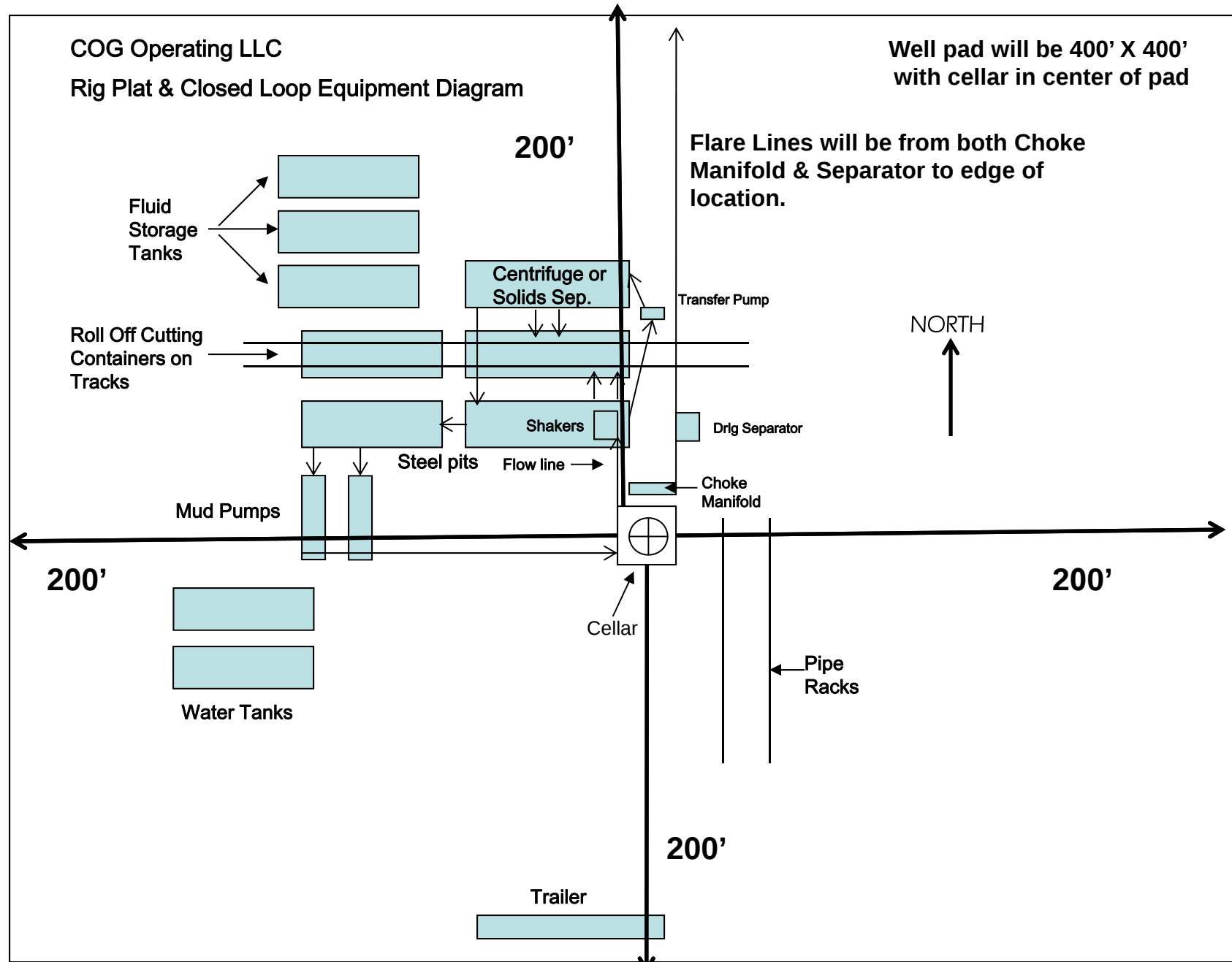


Exhibit 1

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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 01/28/2025

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

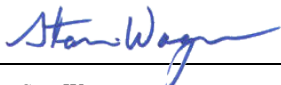
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

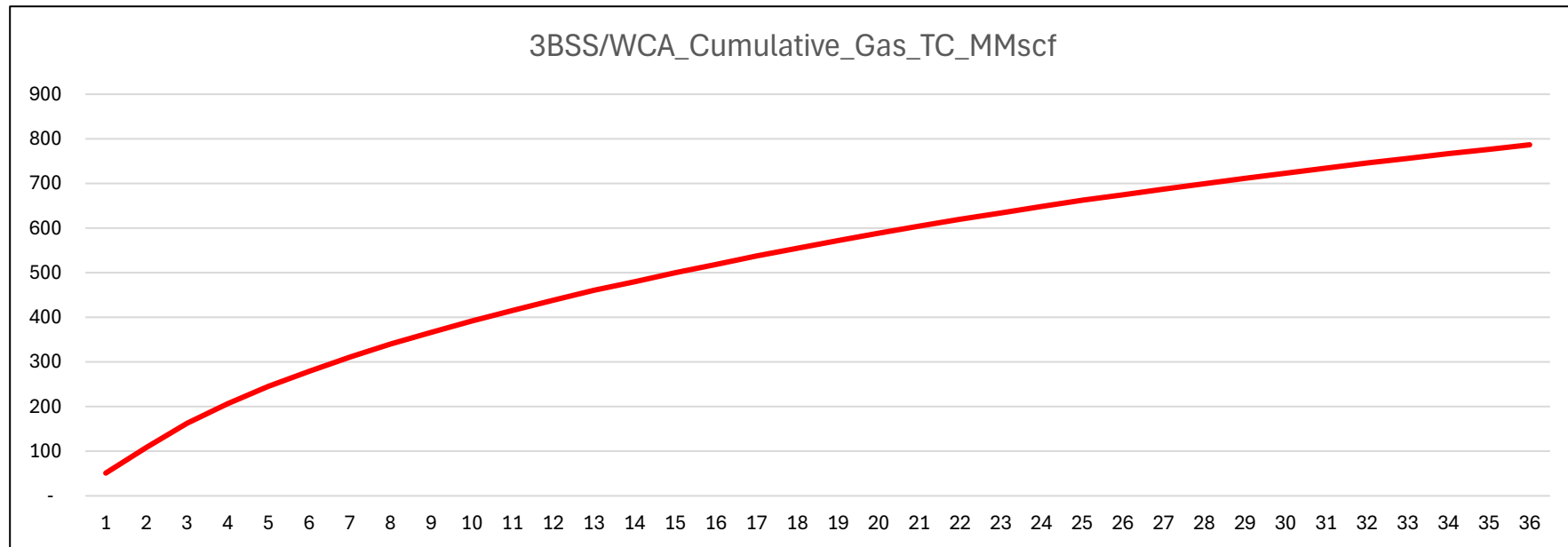
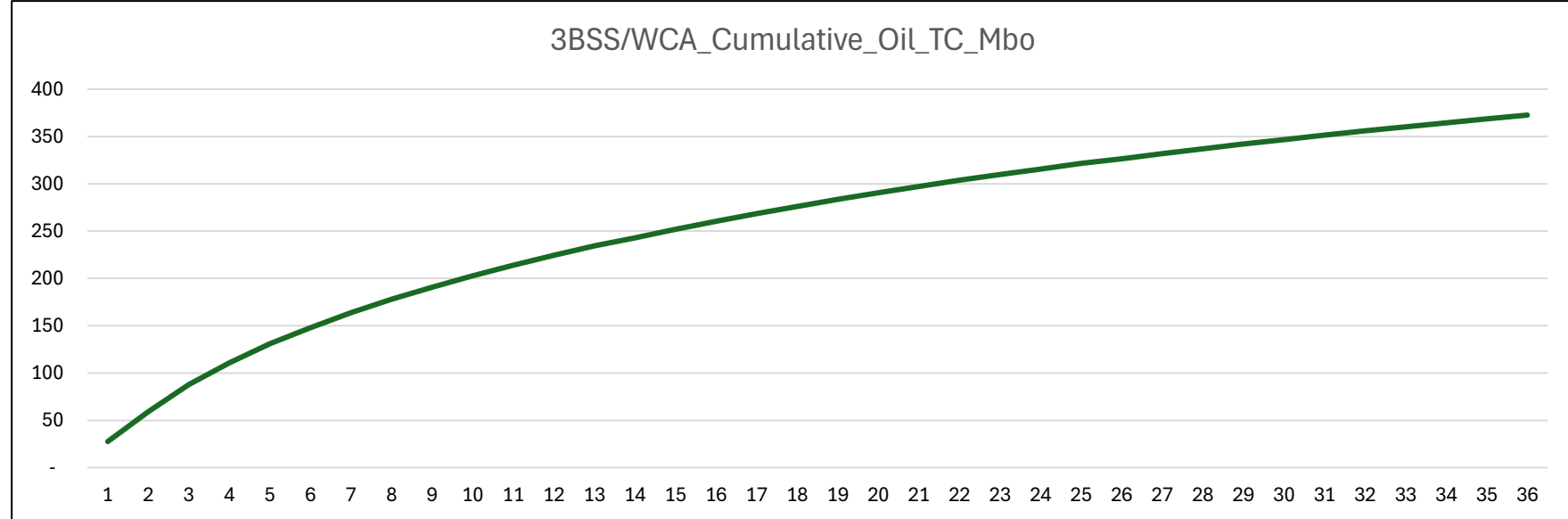
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

Waste Minimization Plan

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

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

Anticipated Production Decline Curve



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2832 WC 706H
LOCATION:	Section 28, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

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

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

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8** inch intermediate casing shall be set at approximately **4365 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 520250

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520250
	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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 520250

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520250
	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