

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. 30-025-55656
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 / 656 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019855 / LONG: -103.686492 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 1505 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020587 / LONG: -103.683753 (TVD: 11989 feet, MD: 12388 feet)

BHL: LOT 3 / 50 FSL / 1505 FWL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.000361 / LONG: -103.683747 (TVD: 11989 feet, MD: 19746 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 30-025-55656	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 338328	Property Name ZIA HILLS UNIT 2832 WC	Well Number 704H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,159'
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 656' FWL	Latitude 32.019855°	Longitude -103.686492°	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 1,505' FWL	Latitude 32.000361°	Longitude -103.683747°	County LEA
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Dedicated Acres 898.92	Infill or Defining Well Defining	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 382' FSL	Ft. from E/W 1,504' FWL	Latitude 32.021913°	Longitude -103.683754°	County LEA
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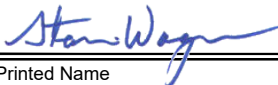
First Take Point (FTP)

UL C	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,505' FWL	Latitude 32.020587°	Longitude -103.683753°	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 1,505' FWL	Latitude 32.000498°	Longitude -103.683747°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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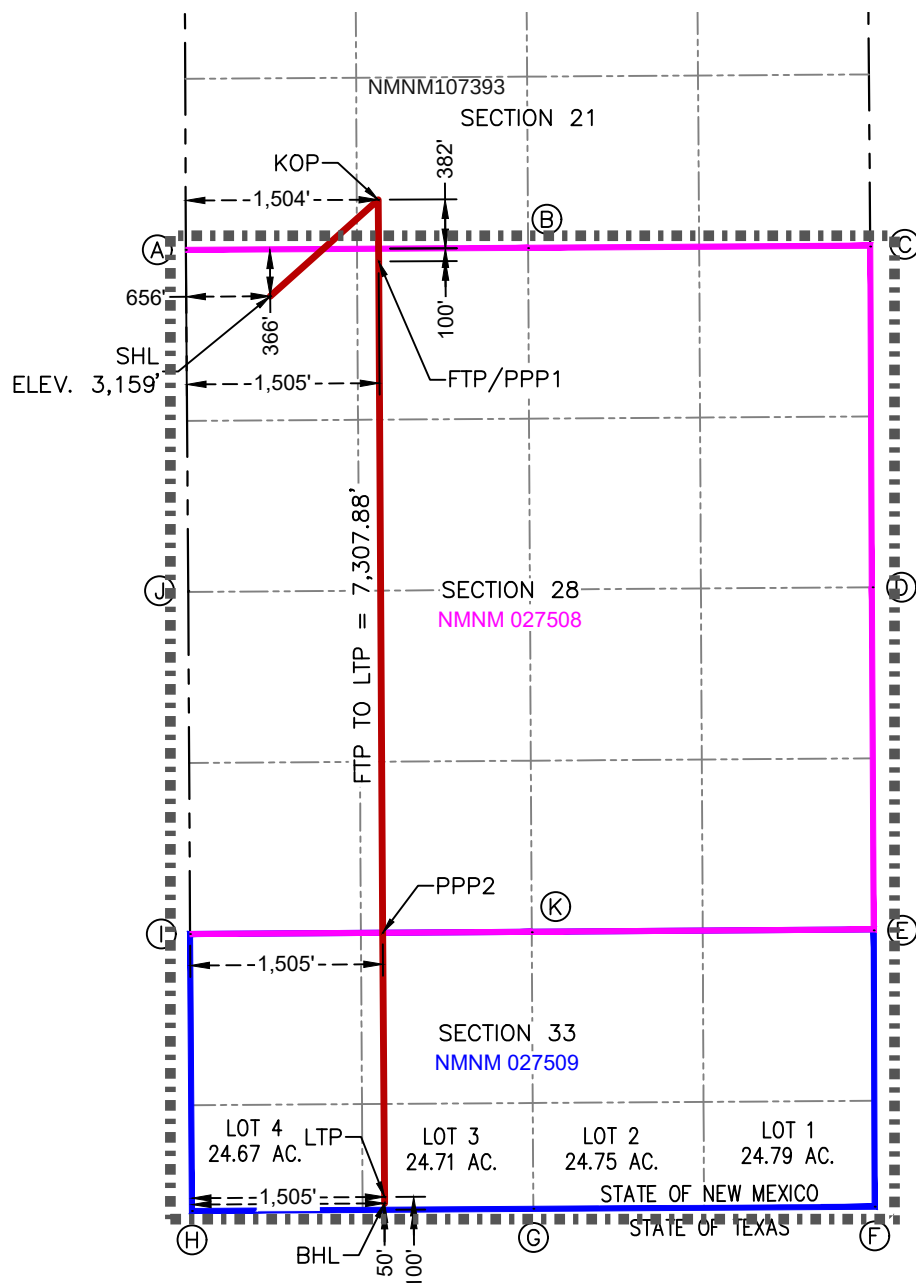
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 3/7/2025	
Signature 	Date 4/15/25	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner		Certificate Number 12177	Date of Survey 3/7/2025
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.

ZIA HILLS UNIT 2832 WC 704H

SURFACE HOLE LOCATION
366' FNL & 656' FWL
ELEV.=3,159'

NAD 83 X = 741,809.31'
NAD 83 Y = 371,562.14'
NAD 83 LAT = 32.019855°
NAD 83 LONG = -103.686492°

KICK-OFF POINT
382' FSL & 1,504' FWL
NAD 83 X = 742,653.29'
NAD 83 Y = 372,315.85'
NAD 83 LAT = 32.021913°
NAD 83 LONG = -103.683754°

FIRST TAKE POINT & PENETRATION POINT 1
100' FNL & 1,505' FWL
NAD 83 X = 742,656.45'
NAD 83 Y = 371,833.40'
NAD 83 LAT = 32.020587°
NAD 83 LONG = -103.683753°

PENETRATION POINT 2
0' FSL & 1,505' FWL
NAD 83 X = 742,688.36'
NAD 83 Y = 366,589.41'
NAD 83 LAT = 32.006171°
NAD 83 LONG = -103.683752°

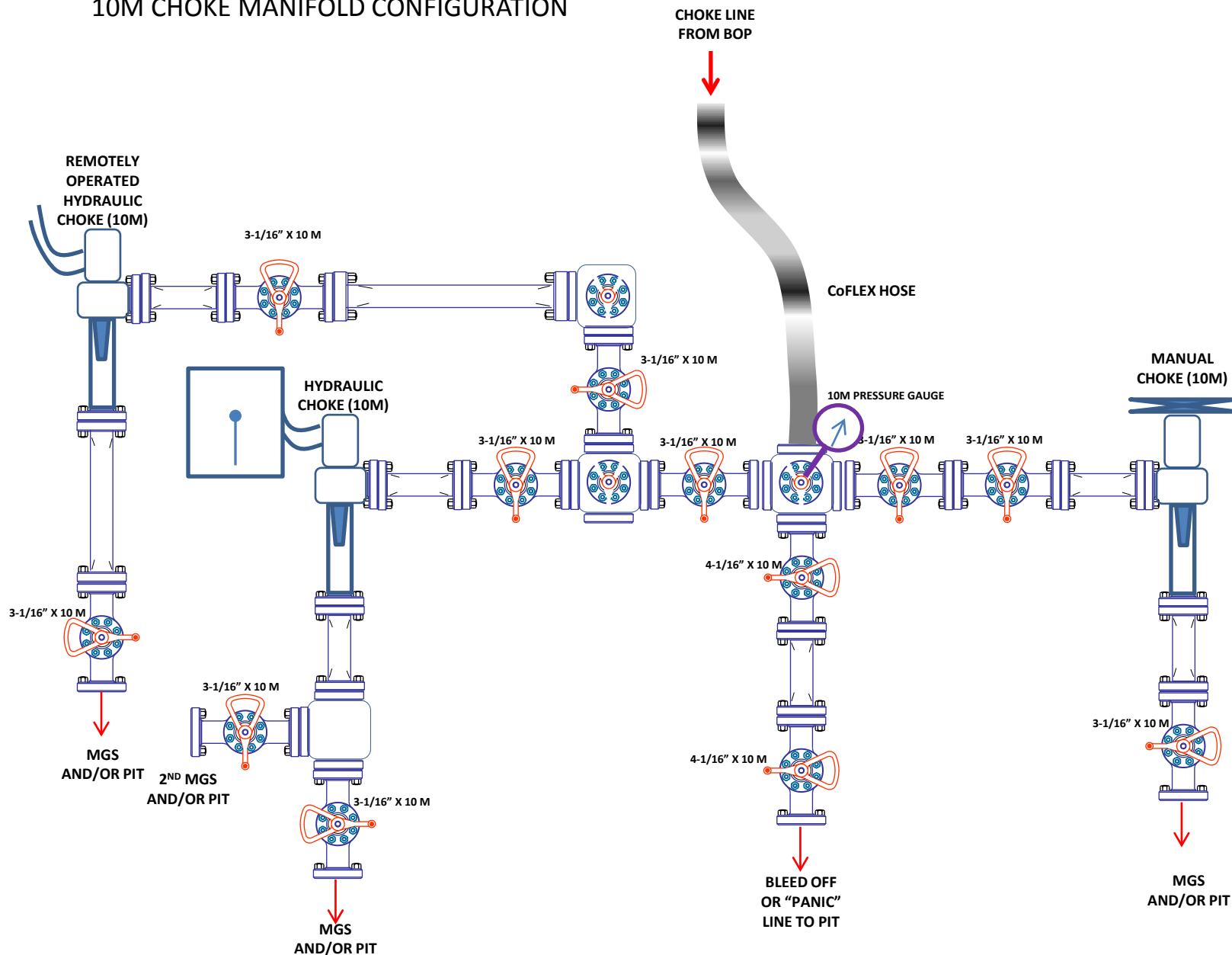
LAST TAKE POINT
100' FSL & 1,505' FWL
NAD 83 X = 742,702.33'
NAD 83 Y = 364,525.67'
NAD 83 LAT = 32.000498°
NAD 83 LONG = -103.683747°

BOTTOM HOLE LOCATION
50' FSL & 1,505' FWL
NAD 83 X = 742,702.67'
NAD 83 Y = 364,475.67'
NAD 83 LAT = 32.000361°
NAD 83 LONG = -103.683747°

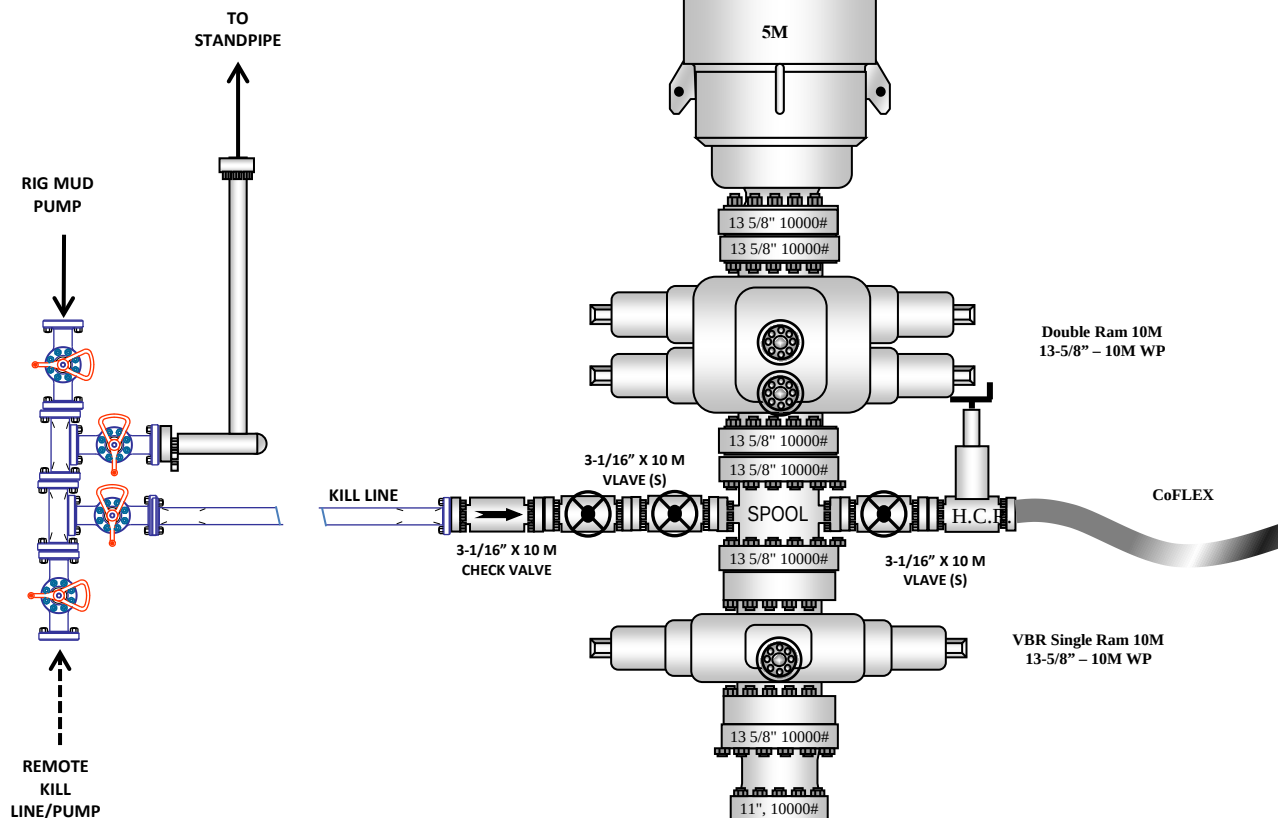
**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

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 704H

1. Geologic Formations

TVD of target	11,989' EOL	Pilot hole depth	NA
MD at TD:	19,746'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	965	Water	
Top of Salt	1295	Salt	
Base of Salt	3934	Salt	
Lamar	4399	Salt Water	
Bell Canyon	4408	Salt Water	
Cherry Canyon	5310	Oil/Gas	
Brushy Canyon	6804	Oil/Gas	
Bone Spring	8437	Oil/Gas	
1st Bone Spring Sand	9419	Oil/Gas	
2nd Bone Spring Sand	10079	Oil/Gas	
3rd Bone Spring Sand	11211	Oil/Gas	
Wolfcamp	11602	Oil/Gas	
Wolfcamp A	11798	Target	
Wolfcamp B	12146	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	1.28	5.33	5.51
8.75"	4100	11500	7.625"	29.7	P110-ICY	W513	1.23	1.53	3.13	1.88
6.75"	0	11300	5.5"	23	P110-CY	BTC	1.83	2.14	2.80	2.80
6.75"	11300	19,746	5.5"	23	P110-CY	W441	1.73	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 704H

	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 704H

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	11,000'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 704H

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.
Y	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 704H

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 704H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8420 psi at 11989' 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

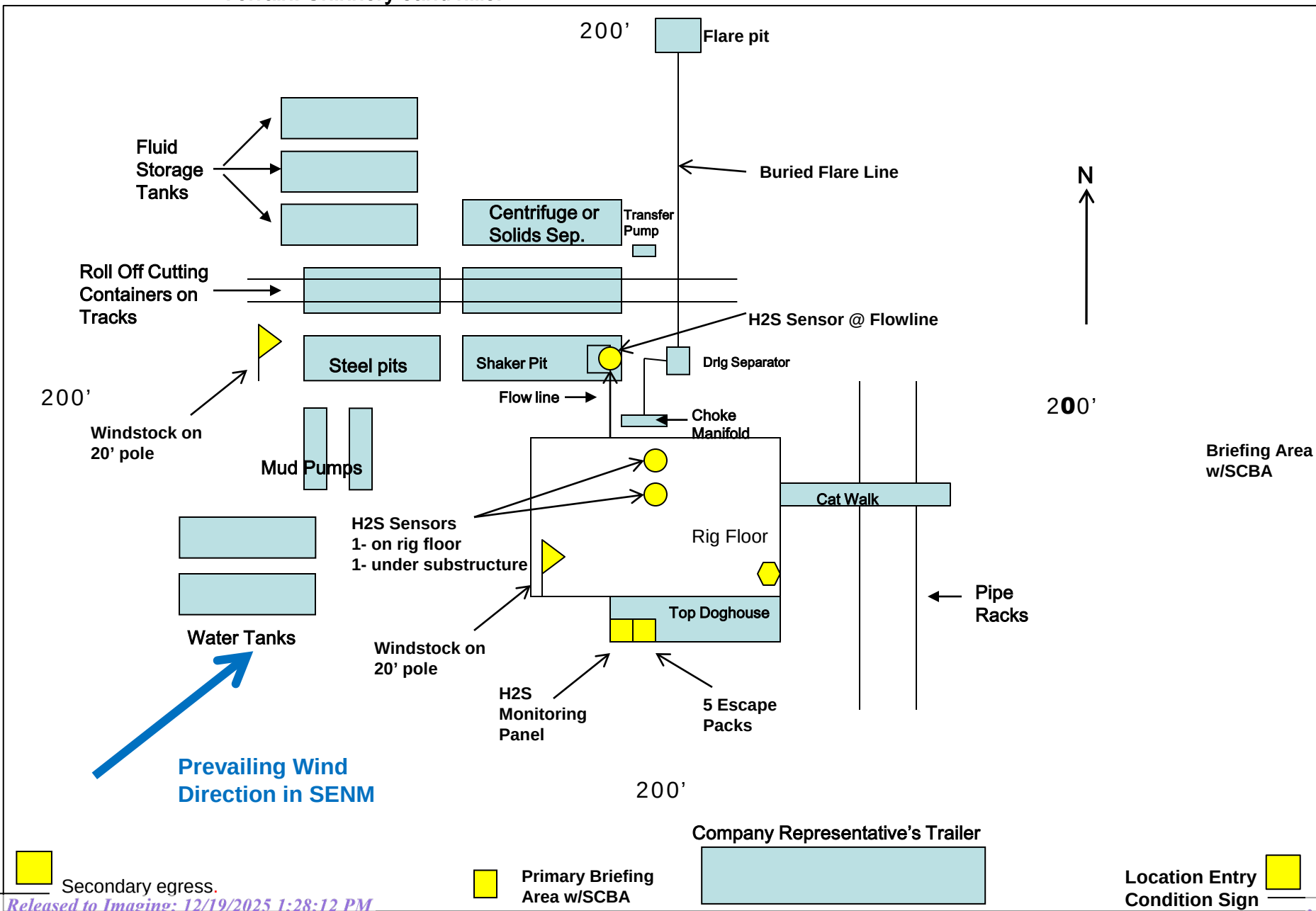
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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 704H

OWB

PWP0

Anticollision Report

26 February, 2025

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

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

Survey Tool Program	Date	2/25/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,745.7	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
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	2,144.0	2,151.3	320.1	305.2	21.446	CC, ES
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	3,000.0	2,994.2	383.6	364.1	19.697	SF
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	2,886.6	2,922.3	220.0	201.7	12.025	CC
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	2,900.0	2,934.7	220.1	201.7	11.976	ES
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	3,400.0	3,423.8	245.0	223.1	11.174	SF
ZIA HILLS 20 FED COM PROJECT						
ZIA HILLS 20 FEDERAL COM #114H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP						Out of range
ZIA HILLS UNIT 2032 PROJECT (S TO N)						
BUCK 20 FEDERAL #1H - OWB - AWP						Out of range

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,000.0	1,999.6	60.0	47.0	4.632 CC, ES	
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,050.0	2,049.0	60.2	47.2	4.612 SF	
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	1,966.6	1,966.8	40.0	27.1	3.110 CC	
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	2,050.0	2,050.2	40.0	27.0	3.065 ES, SF	
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0	2,050.0	2,049.9	20.0	6.9	1.532 Caution - Monitor Closely, CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	2,268.9	2,268.4	18.6	6.3	1.512 Caution - Monitor Closely, CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	2,411.1	2,409.9	34.1	20.2	2.459 Caution - Monitor Closely, CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 710H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0	2,304.9	2,302.6	59.8	46.0	4.330 CC, ES	
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0	3,200.0	3,189.4	65.4	47.9	3.749 SF	
_ZIA HILLS UNIT 2832 WC 802H - 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 -					Out of range	
RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP	9,075.6	13,367.0	753.6	635.2	6.364 CC, ES, SF	
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW					Out of range	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	11,944.9	16,600.6	190.7	68.6	1.562 Caution - Monitor Closely, CC	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	11,950.0	16,603.7	190.7	68.6	1.562 Caution - Monitor Closely, ES, SF	
RED HILLS WEST 21 W1BO FEDERAL COM 003H - OW					Out of range	
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,220.7	16,960.0	793.9	666.3	6.219 CC	
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,225.0	16,960.0	793.9	666.2	6.215 ES	
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW	12,250.0	16,960.0	794.6	666.5	6.201 SF	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	12,025.0	16,830.0	623.2	500.1	5.064 SF	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	12,050.0	16,830.0	621.5	499.3	5.084 ES	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	12,065.9	16,830.0	621.2	499.6	5.107 CC	
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	5,827.9	5,722.8	519.5	495.3	21.396 CC, ES	
WILDER FEDERAL AC COM 28 3H - OWB - AWP	8,800.0	8,681.6	598.4	566.3	18.635 SF	

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		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 3.0 usft	
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance					Warning
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	8.4	3.0	3.0	-83.97	34.4	-326.0	328.0					
100.0	100.0	90.7	99.1	3.1	3.0	-83.99	34.4	-326.2	328.0	321.1	6.84	47.940		
200.0	200.0	190.3	198.7	3.3	3.0	-84.04	34.1	-326.6	328.3	321.2	7.09	46.279		
300.0	300.0	290.4	298.8	3.6	3.1	-84.13	33.6	-327.0	328.7	321.3	7.38	44.534		
400.0	400.0	390.7	399.1	3.8	3.2	-84.35	32.4	-327.4	329.0	321.3	7.69	42.767		
500.0	500.0	491.3	499.6	4.0	3.3	-84.77	30.0	-327.9	329.2	321.2	8.03	41.001		
600.0	600.0	591.5	599.8	4.1	3.5	-85.40	26.4	-328.2	329.3	320.9	8.39	39.264		
700.0	700.0	688.7	696.9	4.3	3.7	-86.13	22.3	-329.0	329.7	321.0	8.76	37.655		
800.0	800.0	787.8	795.9	4.5	3.9	-86.89	17.9	-330.3	330.9	321.7	9.15	36.176		
900.0	900.0	878.1	886.1	4.7	4.2	-87.59	14.0	-332.9	333.5	323.9	9.52	35.020		
1,000.0	1,000.0	975.3	983.1	4.8	4.4	-88.25	10.3	-337.7	338.3	328.5	9.77	34.628		

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 141-MWD - OWSG R1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,100.0	1,100.0	1,074.4	1,082.0	5.0	4.7	-88.64	8.1	-342.8	343.4	333.2	10.19	33.714	
1,200.0	1,200.0	1,187.3	1,194.9	5.2	5.0	-88.50	9.1	-346.5	346.7	336.1	10.64	32.576	
1,300.0	1,300.0	1,294.4	1,301.7	5.3	5.3	-87.35	16.0	-346.7	347.0	336.0	11.07	31.343	
1,400.0	1,400.0	1,401.8	1,408.4	5.5	5.5	-85.30	28.4	-344.7	345.9	334.4	11.51	30.060	
1,500.0	1,500.0	1,509.0	1,514.5	5.6	5.9	-82.87	42.4	-339.2	342.1	330.2	11.95	28.621	
1,600.0	1,600.0	1,608.9	1,613.4	5.8	6.2	-80.62	55.1	-333.2	338.0	325.6	12.40	27.254	
1,700.0	1,700.0	1,708.6	1,712.2	5.9	6.5	-78.42	67.0	-327.2	334.2	321.3	12.86	25.993	
1,800.0	1,800.0	1,808.7	1,811.5	6.0	6.8	-76.27	78.4	-321.0	330.6	317.3	13.32	24.816	
1,900.0	1,900.0	1,910.7	1,912.6	6.2	7.1	-74.05	89.8	-314.2	327.0	313.2	13.80	23.693	
2,000.0	2,000.0	2,010.4	2,011.4	6.3	7.5	-71.87	100.5	-307.0	323.3	309.0	14.29	22.630	
2,050.0	2,050.0	2,059.5	2,060.2	6.4	7.6	-70.82	105.6	-303.6	321.6	307.1	14.50	22.184	
2,100.0	2,100.0	2,108.5	2,108.8	6.4	7.8	-159.82	110.5	-300.3	320.4	305.7	14.71	21.788	
2,144.0	2,144.0	2,151.3	2,151.4	6.5	7.9	-159.00	114.7	-297.6	320.1	305.2	14.93	21.446 CC, ES	
2,200.0	2,200.0	2,205.9	2,205.6	6.5	8.1	-158.04	119.9	-294.4	320.6	305.4	15.20	21.087	
2,300.0	2,299.8	2,304.7	2,304.0	6.7	8.5	-156.75	127.8	-289.5	324.0	308.3	15.72	20.615	
2,383.3	2,382.9	2,386.0	2,385.0	6.8	8.7	-156.26	132.1	-286.8	329.0	312.9	16.12	20.415	
2,400.0	2,399.5	2,402.2	2,401.3	6.8	8.8	-152.94	132.7	-286.4	330.2	314.0	16.19	20.402	
2,500.0	2,499.0	2,503.0	2,502.0	7.1	9.1	-137.71	135.9	-284.2	337.7	320.9	16.74	20.167	
2,600.0	2,598.2	2,603.2	2,602.2	7.3	9.5	-128.70	138.3	-282.1	345.2	327.9	17.28	19.975	
2,700.0	2,697.0	2,702.5	2,701.4	7.5	9.8	-123.69	139.9	-280.2	353.0	335.2	17.81	19.820	
2,800.0	2,795.3	2,800.5	2,799.3	7.8	10.1	-121.24	140.9	-278.6	361.8	343.4	18.34	19.721	
2,890.9	2,884.1	2,888.4	2,887.3	8.1	10.4	-120.47	141.5	-277.5	371.0	352.2	18.83	19.706	
2,900.0	2,892.9	2,897.3	2,896.1	8.1	10.4	-120.73	141.5	-277.4	372.0	353.1	18.87	19.713	
3,000.0	2,990.3	2,994.2	2,993.1	8.4	10.8	-123.46	142.2	-276.4	383.6	364.1	19.47	19.697 SF	
3,100.0	3,087.6	3,091.4	3,090.3	8.7	11.1	-126.09	142.6	-275.7	396.2	376.2	20.04	19.769	
3,200.0	3,185.0	3,190.0	3,188.8	9.0	11.4	-128.60	142.9	-274.8	409.5	388.9	20.63	19.845	
3,300.0	3,282.3	3,287.5	3,286.4	9.4	11.8	-130.92	143.3	-273.9	423.4	402.2	21.24	19.937	
3,400.0	3,379.7	3,385.7	3,384.5	9.7	12.1	-133.08	143.8	-272.8	437.9	416.1	21.86	20.032	
3,500.0	3,477.0	3,481.3	3,480.1	10.0	12.4	-135.05	144.4	-271.8	453.0	430.5	22.49	20.147	
3,600.0	3,574.4	3,574.8	3,573.7	10.4	12.7	-136.92	144.4	-271.7	469.5	446.4	23.11	20.321	
3,700.0	3,671.7	3,673.2	3,672.0	10.8	13.0	-138.79	144.1	-271.8	486.9	463.1	23.76	20.487	
3,800.0	3,769.1	3,774.3	3,773.1	11.1	13.4	-140.65	143.3	-271.3	504.1	479.6	24.45	20.614	
3,900.0	3,866.4	3,874.4	3,873.2	11.5	13.7	-142.36	142.6	-270.1	521.1	495.9	25.15	20.717	
4,000.0	3,963.8	3,972.5	3,971.3	11.9	14.0	-143.95	141.7	-268.7	538.2	512.3	25.85	20.817	
4,100.0	4,061.1	4,073.1	4,071.9	12.3	14.4	-145.54	140.3	-266.9	555.5	528.9	26.58	20.900	
4,200.0	4,158.5	4,171.0	4,169.7	12.7	14.7	-147.01	138.8	-264.5	572.6	545.3	27.30	20.976	
4,300.0	4,255.8	4,263.7	4,262.4	13.1	15.0	-148.31	137.4	-262.7	590.5	562.5	28.00	21.092	
4,400.0	4,353.2	4,360.5	4,359.2	13.6	15.4	-149.57	136.2	-261.6	609.3	580.6	28.72	21.213	
4,500.0	4,450.5	4,455.4	4,454.1	14.0	15.7	-150.71	135.1	-260.5	628.5	599.2	29.27	21.469	
4,600.0	4,547.9	4,547.5	4,546.2	14.4	16.0	-151.67	134.8	-260.3	648.5	618.6	29.98	21.633	
4,700.0	4,645.2	4,641.2	4,639.9	14.8	16.3	-152.45	135.9	-261.1	669.4	638.7	30.69	21.811	
4,800.0	4,742.6	4,738.1	4,736.8	15.3	16.6	-153.17	137.4	-262.4	690.7	659.2	31.43	21.977	
4,900.0	4,839.9	4,836.8	4,835.4	15.7	17.0	-153.86	139.0	-263.7	712.0	679.8	32.18	22.124	
5,000.0	4,937.3	4,932.4	4,931.0	16.1	17.3	-154.49	140.3	-264.8	733.4	700.5	32.92	22.279	
5,100.0	5,034.6	5,029.2	5,027.8	16.6	17.6	-155.11	141.6	-266.2	755.1	721.4	33.67	22.427	
5,200.0	5,131.9	5,126.7	5,125.3	17.0	18.0	-155.70	142.8	-267.5	776.8	742.4	34.43	22.564	
5,300.0	5,229.3	5,224.6	5,223.1	17.5	18.3	-156.26	144.1	-268.8	798.6	763.4	35.19	22.692	
5,400.0	5,326.6	5,318.8	5,317.4	17.9	18.6	-156.77	145.3	-270.2	820.6	784.7	35.93	22.836	
5,500.0	5,424.0	5,416.6	5,415.1	18.4	19.0	-157.28	146.3	-271.7	842.8	806.1	36.71	22.962	
5,600.0	5,521.3	5,516.1	5,514.6	18.8	19.3	-157.76	147.6	-273.1	864.9	827.4	37.49	23.069	
5,700.0	5,618.7	5,613.5	5,612.0	19.3	19.6	-158.21	148.9	-274.5	887.0	848.7	38.27	23.178	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	RED HILLS WEST - WILDER 28 AC FEDERAL COM #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		Distance		Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
5,800.0	5,716.0	5,709.9	5,708.3	19.7	20.0	-158.63	150.2	-275.8	909.1	870.1	39.04	23.289		
5,900.0	5,813.4	5,805.7	5,804.2	20.2	20.3	-159.03	151.3	-277.2	931.4	891.6	39.80	23.399		
6,000.0	5,910.7	5,903.0	5,901.4	20.6	20.6	-159.41	152.6	-278.9	953.9	913.3	40.58	23.504		
6,100.0	6,008.1	6,004.5	6,002.9	21.1	21.0	-159.87	152.7	-279.7	976.1	934.7	41.40	23.578		
6,200.0	6,105.4	6,100.3	6,098.7	21.6	21.3	-160.36	151.9	-279.9	998.2	956.0	42.18	23.668		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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	6.4	3.0	0.0	-75.56	84.2	-326.9	337.6				
100.0	100.0	91.7	98.1	3.1	0.1	-75.55	84.3	-327.1	337.8	332.6	5.15	65.532	
200.0	200.0	189.9	196.3	3.3	0.3	-75.54	84.6	-327.9	338.6	333.1	5.49	61.674	
300.0	300.0	289.3	295.7	3.6	0.7	-75.56	84.7	-329.1	339.8	334.0	5.86	57.997	
400.0	400.0	389.7	396.1	3.8	1.0	-75.66	84.5	-330.4	341.0	334.8	6.25	54.552	
500.0	500.0	489.8	496.2	4.0	1.4	-75.82	83.8	-331.7	342.2	335.5	6.66	51.357	
600.0	600.0	590.4	596.7	4.1	1.8	-76.10	82.5	-333.2	343.2	336.1	7.09	48.421	
700.0	700.0	690.2	696.5	4.3	2.1	-76.48	80.4	-334.6	344.2	336.7	7.52	45.742	
800.0	800.0	788.0	794.3	4.5	2.5	-76.87	78.5	-336.4	345.5	337.5	7.97	43.365	
900.0	900.0	880.2	886.4	4.7	2.8	-77.27	76.7	-339.4	348.2	339.8	8.40	41.450	
1,000.0	1,000.0	971.7	977.8	4.8	3.1	-77.69	75.2	-344.5	353.3	344.7	8.68	40.713	
1,100.0	1,100.0	1,075.5	1,081.3	5.0	3.5	-78.19	73.4	-351.2	359.3	350.1	9.16	39.212	
1,200.0	1,200.0	1,199.5	1,205.3	5.2	4.0	-78.86	69.7	-354.2	361.1	351.4	9.71	37.193	
1,300.0	1,300.0	1,319.5	1,325.0	5.3	4.4	-79.27	66.2	-349.6	356.7	346.4	10.21	34.938	
1,400.0	1,400.0	1,429.4	1,434.5	5.5	4.7	-79.37	63.9	-340.3	347.9	337.3	10.68	32.592	
1,500.0	1,500.0	1,536.4	1,540.9	5.6	5.1	-79.25	62.4	-328.4	336.8	325.6	11.14	30.236	
1,600.0	1,600.0	1,639.9	1,643.5	5.8	5.4	-78.95	61.5	-315.1	324.0	312.4	11.60	27.924	
1,700.0	1,700.0	1,738.5	1,741.2	5.9	5.8	-78.62	60.7	-301.8	310.6	298.5	12.07	25.732	
1,800.0	1,800.0	1,835.3	1,837.2	6.0	6.1	-78.29	60.0	-289.2	297.7	285.2	12.54	23.733	
1,900.0	1,900.0	1,932.4	1,933.6	6.2	6.5	-77.81	59.9	-277.3	285.7	272.7	13.02	21.938	
2,000.0	2,000.0	2,032.9	2,033.3	6.3	6.8	-77.08	60.7	-264.9	273.8	260.3	13.50	20.276	
2,050.0	2,050.0	2,083.9	2,083.8	6.4	7.0	-76.66	61.3	-258.3	267.6	253.9	13.71	19.515	
2,100.0	2,100.0	2,135.1	2,134.6	6.4	7.2	-166.25	61.7	-251.4	261.5	247.6	13.92	18.783	
2,200.0	2,200.0	2,237.6	2,236.0	6.5	7.6	-165.52	62.2	-236.6	250.1	235.7	14.42	17.340	
2,300.0	2,299.8	2,337.5	2,334.7	6.7	8.0	-164.97	62.2	-221.5	240.5	225.6	14.95	16.092	
2,383.3	2,382.9	2,418.3	2,414.7	6.8	8.3	-164.97	60.8	-210.1	234.8	219.5	15.37	15.277	
2,400.0	2,399.5	2,434.1	2,430.3	6.8	8.4	-161.76	60.5	-208.0	234.0	218.6	15.45	15.149	
2,500.0	2,499.0	2,530.2	2,525.8	7.1	8.8	-147.18	58.5	-196.4	230.8	214.7	16.03	14.392	
2,600.0	2,598.2	2,632.4	2,627.2	7.3	9.2	-138.44	59.0	-184.0	229.0	212.4	16.61	13.789	
2,700.0	2,697.0	2,738.2	2,731.8	7.5	9.6	-133.37	61.6	-168.1	225.8	208.6	17.17	13.146	
2,800.0	2,795.3	2,840.0	2,832.0	7.8	10.0	-131.33	63.2	-151.0	221.8	204.1	17.76	12.490	
2,886.6	2,879.9	2,922.3	2,913.3	8.1	10.3	-131.83	61.9	-137.7	220.0	201.7	18.30	12.025 CC	
2,890.9	2,884.1	2,926.3	2,917.2	8.1	10.4	-131.90	61.7	-137.2	220.0	201.7	18.32	12.008	
2,900.0	2,892.9	2,934.7	2,925.5	8.1	10.4	-132.32	61.5	-135.9	220.1	201.7	18.38	11.976 ES	
3,000.0	2,990.3	3,029.4	3,019.2	8.4	10.8	-137.20	57.5	-123.1	222.5	203.4	19.09	11.659	
3,100.0	3,087.6	3,129.0	3,117.9	8.7	11.2	-142.10	53.6	-110.1	227.1	207.4	19.77	11.491	
3,200.0	3,185.0	3,229.4	3,217.4	9.0	11.6	-146.41	51.6	-96.0	232.1	211.7	20.47	11.339	
3,300.0	3,282.3	3,327.8	3,314.7	9.4	12.0	-149.92	51.8	-82.2	237.8	216.6	21.19	11.222	
3,400.0	3,379.7	3,423.8	3,409.9	9.7	12.4	-153.06	52.3	-69.4	245.0	223.1	21.93	11.174 SF	
3,500.0	3,477.0	3,518.4	3,503.8	10.0	12.8	-155.94	52.6	-58.1	254.4	231.7	22.67	11.220	
3,600.0	3,574.4	3,617.8	3,602.6	10.4	13.1	-158.58	53.3	-47.3	265.2	241.8	23.43	11.321	
3,700.0	3,671.7	3,721.6	3,705.8	10.8	13.6	-160.84	55.7	-35.5	275.4	251.2	24.20	11.382	
3,800.0	3,769.1	3,822.2	3,805.5	11.1	14.0	-162.86	58.7	-22.8	284.7	259.7	24.97	11.402	
3,900.0	3,866.4	3,918.8	3,901.3	11.5	14.3	-164.83	60.7	-10.5	294.5	268.7	25.75	11.438	
4,000.0	3,963.8	4,014.4	3,996.1	11.9	14.7	-166.80	61.6	1.2	305.6	279.1	26.53	11.519	
4,100.0	4,061.1	4,111.2	4,092.2	12.3	15.1	-168.75	61.7	12.6	317.9	290.6	27.32	11.636	
4,200.0	4,158.5	4,207.7	4,188.2	12.7	15.5	-170.60	61.2	23.7	331.2	303.1	28.12	11.780	
4,300.0	4,255.8	4,307.4	4,287.3	13.1	15.9	-172.14	61.6	34.1	345.1	316.2	28.92	11.932	
4,400.0	4,353.2	4,411.0	4,390.2	13.6	16.3	-173.33	64.1	44.9	358.1	328.3	29.74	12.042	
4,500.0	4,450.5	4,511.1	4,489.7	14.0	16.7	-174.49	66.5	56.2	370.5	340.1	30.37	12.199	
4,600.0	4,547.9	4,611.9	4,589.8	14.4	17.1	-175.73	68.3	68.4	382.8	351.6	31.19	12.275	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 174-MWD - OWSG R1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,700.0	4,645.2	4,712.7	4,689.7	14.8	17.5	-176.99	70.0	81.6	394.6	362.6	32.01	12.326	
4,800.0	4,742.6	4,809.9	4,786.1	15.3	17.9	-178.18	71.5	94.5	406.5	373.7	32.83	12.384	
4,900.0	4,839.9	4,906.6	4,882.0	15.7	18.3	-179.23	72.9	106.6	419.2	385.6	33.63	12.464	
5,000.0	4,937.3	5,005.5	4,980.1	16.1	18.7	179.82	74.5	118.4	432.3	397.9	34.45	12.549	
5,100.0	5,034.6	5,104.2	5,078.1	16.6	19.1	178.93	76.1	130.3	445.5	410.2	35.27	12.632	
5,200.0	5,131.9	5,198.8	5,172.0	17.0	19.5	178.09	77.2	141.6	459.1	423.1	36.06	12.732	
5,300.0	5,229.3	5,294.8	5,267.4	17.5	19.9	177.19	77.1	153.0	473.8	437.0	36.87	12.853	
5,400.0	5,326.6	5,390.8	5,362.7	17.9	20.2	176.36	76.8	163.9	489.1	451.4	37.67	12.984	
5,500.0	5,424.0	5,489.3	5,460.6	18.4	20.6	175.63	76.7	174.5	504.8	466.3	38.49	13.117	
5,600.0	5,521.3	5,587.1	5,557.9	18.8	21.0	174.98	76.8	184.8	520.6	481.3	39.30	13.248	
5,700.0	5,618.7	5,686.4	5,656.7	19.3	21.4	174.40	77.0	195.0	536.5	496.3	40.12	13.373	
5,800.0	5,716.0	5,796.8	5,766.3	19.7	21.9	173.70	77.7	207.8	551.3	510.3	41.01	13.442	
5,900.0	5,813.4	5,899.6	5,868.1	20.2	22.3	172.89	78.3	222.1	564.7	522.8	41.86	13.488	
6,000.0	5,910.7	5,996.4	5,963.9	20.6	22.7	172.10	78.5	236.1	578.0	535.3	42.68	13.542	
6,100.0	6,008.1	6,090.7	6,057.3	21.1	23.1	171.38	78.4	249.4	592.0	548.6	43.49	13.614	
6,200.0	6,105.4	6,186.2	6,151.8	21.6	23.5	170.70	77.9	262.2	606.9	562.6	44.30	13.701	
6,300.0	6,202.8	6,289.3	6,254.1	22.0	23.9	170.03	77.6	275.9	621.7	576.6	45.15	13.770	
6,400.0	6,300.1	6,393.3	6,357.1	22.5	24.3	169.41	78.3	290.1	635.6	589.6	46.01	13.814	
6,500.0	6,397.5	6,489.2	6,452.1	22.9	24.7	168.86	79.0	303.3	649.5	602.7	46.82	13.872	
6,600.0	6,494.8	6,583.7	6,545.7	23.4	25.1	168.39	79.5	315.5	664.0	616.4	47.62	13.944	
6,700.0	6,592.2	6,677.1	6,638.5	23.9	25.5	167.98	79.8	326.9	679.3	630.9	48.41	14.033	
6,799.6	6,689.2	6,769.9	6,730.7	24.3	25.9	167.62	79.6	337.5	695.3	646.1	49.19	14.137	
6,800.0	6,689.5	6,770.3	6,731.0	24.3	25.9	167.62	79.6	337.5	695.4	646.2	49.19	14.137	
6,900.0	6,787.1	6,861.5	6,821.7	24.8	26.2	167.31	78.9	347.3	711.5	661.6	49.94	14.246	
7,000.0	6,885.0	6,951.7	6,911.5	25.3	26.6	167.06	77.7	355.7	727.2	676.5	50.67	14.350	
7,100.0	6,983.2	7,043.9	7,003.5	25.7	26.9	166.91	76.8	362.5	742.1	690.7	51.40	14.437	
7,200.0	7,081.8	7,132.9	7,092.4	26.2	27.2	166.92	76.1	366.6	756.6	704.5	52.08	14.527	
7,300.0	7,180.6	7,228.6	7,188.1	26.6	27.6	167.03	75.8	369.0	770.2	717.4	52.81	14.586	
7,400.0	7,279.7	7,325.7	7,285.1	27.0	27.9	167.16	75.6	370.8	782.5	729.0	53.53	14.619	
7,500.0	7,379.0	7,424.8	7,384.2	27.4	28.2	167.25	75.1	372.5	793.4	739.1	54.26	14.622	
7,600.0	7,478.5	7,529.2	7,488.6	27.8	28.6	167.33	75.1	374.3	802.1	747.1	55.02	14.578	
7,700.0	7,578.2	7,631.9	7,591.3	28.2	28.9	167.38	75.6	376.3	808.7	752.9	55.75	14.505	
7,800.0	7,678.0	7,730.4	7,689.8	28.5	29.3	167.45	76.6	377.6	813.4	757.0	56.42	14.418	
7,900.0	7,777.9	7,827.5	7,786.9	28.9	29.6	167.52	77.6	378.4	816.8	759.7	57.04	14.319	
8,000.0	7,877.8	7,926.7	7,886.1	29.2	29.9	167.54	78.2	379.2	818.7	761.0	57.66	14.200	
8,100.0	7,977.8	8,025.2	7,984.6	29.4	30.2	167.52	78.7	380.3	819.0	760.8	58.21	14.070	
8,122.2	8,000.0	8,046.9	8,006.2	29.4	30.3	-145.52	78.7	380.5	818.8	760.5	58.30	14.046	
8,200.0	8,077.8	8,123.1	8,082.5	29.5	30.6	-145.55	78.9	381.1	818.3	759.8	58.57	13.972	
8,300.0	8,177.8	8,220.5	8,179.8	29.5	30.9	-145.58	79.0	381.7	817.9	759.0	58.92	13.881	
8,375.0	8,252.8	8,293.5	8,252.8	29.5	31.1	-145.62	78.8	382.2	817.8	758.6	59.19	13.818	
8,400.0	8,277.8	8,317.8	8,277.2	29.5	31.2	-145.63	78.7	382.3	817.8	758.5	59.27	13.797	
8,500.0	8,377.8	8,415.5	8,374.8	29.6	31.5	-145.65	78.3	382.4	818.0	758.4	59.62	13.721	
8,600.0	8,477.8	8,511.5	8,470.8	29.6	31.8	-145.63	78.0	381.9	818.6	758.7	59.94	13.658	
8,700.0	8,577.8	8,610.2	8,569.5	29.6	32.1	-145.60	77.5	381.0	819.6	759.3	60.28	13.596	
8,800.0	8,677.8	8,711.5	8,670.8	29.7	32.4	-145.57	76.9	380.0	820.6	759.9	60.66	13.528	
8,900.0	8,777.8	8,773.6	8,732.9	29.7	32.6	-145.58	75.7	379.4	823.2	762.6	60.59	13.585	
9,000.0	8,877.8	8,827.0	8,786.1	29.8	32.8	-145.69	71.0	378.1	831.6	771.3	60.31	13.789	
9,100.0	8,977.8	8,858.0	8,816.7	29.8	32.9	-145.80	66.2	376.8	846.7	787.2	59.50	14.230	
9,200.0	9,077.8	8,890.0	8,847.8	29.8	33.0	-145.96	59.1	374.7	869.3	810.8	58.52	14.855	
9,300.0	9,177.8	8,932.1	8,887.9	29.9	33.1	-146.24	46.5	371.4	898.6	841.0	57.65	15.587	
9,400.0	9,277.8	8,974.1	8,926.7	29.9	33.2	-146.69	30.8	368.9	933.5	876.8	56.74	16.453	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	174-MWD - OWSG R1						Rule Assigned:						Offset Well Error:	0.0 usft
Reference	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)		Offset (usft)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)				Between Ellipses (usft)	
9,500.0	9,377.8	9,016.0	8,964.2	30.0	33.3	-147.25	12.2	367.0	973.9	918.0	55.83	17.444		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		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	
0.0	0.0	0.0	0.4	3.0	3.0	-90.35	-0.4	-60.0	60.0					
100.0	100.0	99.6	100.0	3.1	3.1	-90.35	-0.4	-60.0	60.0	53.4	6.62	9.064		
200.0	200.0	199.6	200.0	3.3	3.3	-90.35	-0.4	-60.0	60.0	52.9	7.07	8.487		
300.0	300.0	299.6	300.0	3.6	3.6	-90.35	-0.4	-60.0	60.0	52.5	7.50	8.005		
400.0	400.0	399.6	400.0	3.8	3.8	-90.35	-0.4	-60.0	60.0	52.1	7.90	7.595		
500.0	500.0	499.6	500.0	4.0	4.0	-90.35	-0.4	-60.0	60.0	51.7	8.29	7.240		
600.0	600.0	599.6	600.0	4.1	4.1	-90.35	-0.4	-60.0	60.0	51.3	8.66	6.929		
700.0	700.0	699.6	700.0	4.3	4.3	-90.35	-0.4	-60.0	60.0	51.0	9.02	6.653		
800.0	800.0	799.6	800.0	4.5	4.5	-90.35	-0.4	-60.0	60.0	50.6	9.37	6.407		
900.0	900.0	899.6	900.0	4.7	4.7	-90.35	-0.4	-60.0	60.0	50.3	9.70	6.184		
1,000.0	1,000.0	999.6	1,000.0	4.8	4.8	-90.35	-0.4	-60.0	60.0	50.0	10.03	5.982		
1,100.0	1,100.0	1,099.6	1,100.0	5.0	5.0	-90.35	-0.4	-60.0	60.0	49.7	10.35	5.798		
1,200.0	1,200.0	1,199.6	1,200.0	5.2	5.2	-90.35	-0.4	-60.0	60.0	49.3	10.66	5.628		
1,300.0	1,300.0	1,299.6	1,300.0	5.3	5.3	-90.35	-0.4	-60.0	60.0	49.0	10.97	5.471		
1,400.0	1,400.0	1,399.6	1,400.0	5.5	5.5	-90.35	-0.4	-60.0	60.0	48.7	11.27	5.326		
1,500.0	1,500.0	1,499.6	1,500.0	5.6	5.6	-90.35	-0.4	-60.0	60.0	48.4	11.56	5.191		
1,600.0	1,600.0	1,599.6	1,600.0	5.8	5.8	-90.35	-0.4	-60.0	60.0	48.2	11.85	5.065		
1,700.0	1,700.0	1,699.6	1,700.0	5.9	5.9	-90.35	-0.4	-60.0	60.0	47.9	12.13	4.947		
1,800.0	1,800.0	1,799.6	1,800.0	6.0	6.0	-90.35	-0.4	-60.0	60.0	47.6	12.41	4.836		
1,900.0	1,900.0	1,899.6	1,900.0	6.2	6.2	-90.35	-0.4	-60.0	60.0	47.3	12.68	4.731		
2,000.0	2,000.0	1,999.6	2,000.0	6.3	6.3	-90.35	-0.4	-60.0	60.0	47.0	12.95	4.632 CC, ES		
2,050.0	2,050.0	2,049.0	2,049.4	6.4	6.4	-90.02	0.0	-60.2	60.2	47.2	13.06	4.612 SF		
2,100.0	2,100.0	2,098.4	2,098.8	6.4	6.5	-179.05	1.0	-61.0	61.3	48.1	13.17	4.655		
2,200.0	2,200.0	2,196.8	2,197.0	6.5	6.7	-175.55	5.2	-63.9	67.1	53.6	13.48	4.975		
2,300.0	2,299.8	2,294.4	2,294.3	6.7	7.0	-171.02	12.1	-68.6	77.9	64.1	13.81	5.642		
2,383.3	2,382.9	2,374.8	2,374.1	6.8	7.2	-167.26	19.7	-74.0	91.1	77.0	14.08	6.470		
2,400.0	2,399.5	2,390.8	2,390.0	6.8	7.2	-163.26	21.5	-75.2	94.1	80.0	14.12	6.667		
2,500.0	2,499.0	2,485.9	2,483.9	7.1	7.5	-144.53	33.4	-83.4	114.6	100.1	14.51	7.901		
2,600.0	2,598.2	2,582.9	2,579.6	7.3	7.8	-133.10	47.1	-92.9	137.3	122.4	14.99	9.162		
2,700.0	2,697.0	2,680.2	2,675.4	7.5	8.0	-126.61	60.8	-102.4	160.7	145.3	15.39	10.438		
2,800.0	2,795.3	2,777.2	2,770.9	7.8	8.3	-123.08	74.5	-111.9	184.6	168.8	15.78	11.700		
2,890.9	2,884.1	2,865.0	2,857.4	8.1	8.5	-121.51	86.9	-120.5	207.0	190.9	16.12	12.840		
2,900.0	2,892.9	2,873.8	2,866.1	8.1	8.5	-121.71	88.2	-121.4	209.3	193.2	16.15	12.959		
3,000.0	2,990.3	2,970.3	2,961.1	8.4	8.8	-123.71	101.8	-130.8	234.6	218.0	16.61	14.126		
3,100.0	3,087.6	3,066.7	3,056.2	8.7	9.1	-125.31	115.4	-140.3	260.0	243.0	17.02	15.282		
3,200.0	3,185.0	3,163.2	3,151.2	9.0	9.4	-126.63	129.0	-149.7	285.7	268.2	17.44	16.377		
3,300.0	3,282.3	3,259.7	3,246.2	9.4	9.7	-127.74	142.7	-159.2	311.4	293.5	17.88	17.413		
3,400.0	3,379.7	3,356.1	3,341.3	9.7	10.0	-128.67	156.3	-168.6	337.3	318.9	18.34	18.390		
3,500.0	3,477.0	3,452.6	3,436.3	10.0	10.3	-129.47	169.9	-178.1	363.2	344.4	18.81	19.312		
3,600.0	3,574.4	3,549.1	3,531.3	10.4	10.7	-130.17	183.5	-187.5	389.2	369.9	19.29	20.179		
3,700.0	3,671.7	3,645.5	3,626.4	10.8	11.0	-130.78	197.1	-197.0	415.2	395.4	19.78	20.995		
3,800.0	3,769.1	3,742.0	3,721.4	11.1	11.4	-131.31	210.8	-206.4	441.2	421.0	20.27	21.763		
3,900.0	3,866.4	3,838.5	3,816.4	11.5	11.7	-131.79	224.4	-215.8	467.3	446.5	20.78	22.486		
4,000.0	3,963.8	3,934.9	3,911.5	11.9	12.1	-132.22	238.0	-225.3	493.5	472.2	21.30	23.166		
4,100.0	4,061.1	4,031.4	4,006.5	12.3	12.5	-132.60	251.6	-234.7	519.6	497.8	21.83	23.806		
4,200.0	4,158.5	4,127.9	4,101.5	12.7	12.8	-132.95	265.2	-244.2	545.8	523.4	22.36	24.409		
4,300.0	4,255.8	4,224.3	4,196.6	13.1	13.2	-133.26	278.9	-253.6	571.9	549.0	22.90	24.977		
4,400.0	4,353.2	4,320.8	4,291.6	13.6	13.6	-133.55	292.5	-263.1	598.1	574.7	23.44	25.513		
4,500.0	4,450.5	4,417.3	4,386.6	14.0	14.0	-133.81	306.1	-272.5	624.3	600.3	24.00	26.018		
4,600.0	4,547.9	4,513.8	4,481.7	14.4	14.4	-134.06	319.7	-282.0	650.5	626.0	24.55	26.495		
4,700.0	4,645.2	4,610.2	4,576.7	14.8	14.7	-134.28	333.3	-291.4	676.8	651.7	25.12	26.946		

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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)			
4,800.0	4,742.6	4,706.7	4,671.7	15.3	15.1	-134.49	347.0	-300.8	703.0	677.3	25.68	27.372	
4,900.0	4,839.9	4,803.2	4,766.8	15.7	15.5	-134.68	360.6	-310.3	729.3	703.0	26.26	27.775	
5,000.0	4,937.3	4,899.6	4,861.8	16.1	15.9	-134.86	374.2	-319.7	755.5	728.7	26.83	28.157	
5,100.0	5,034.6	4,996.1	4,956.8	16.6	16.3	-135.02	387.8	-329.2	781.8	754.3	27.41	28.519	
5,200.0	5,131.9	5,092.6	5,051.9	17.0	16.7	-135.18	401.4	-338.6	808.0	780.0	28.00	28.862	
5,300.0	5,229.3	5,189.0	5,146.9	17.5	17.1	-135.32	415.1	-348.1	834.3	805.7	28.58	29.188	
5,400.0	5,326.6	5,285.5	5,241.9	17.9	17.5	-135.46	428.7	-357.5	860.6	831.4	29.17	29.497	
5,500.0	5,424.0	5,382.0	5,337.0	18.4	17.9	-135.59	442.3	-367.0	886.8	857.1	29.77	29.791	
5,600.0	5,521.3	5,478.4	5,432.0	18.8	18.4	-135.71	455.9	-376.4	913.1	882.8	30.37	30.071	
5,700.0	5,618.7	5,574.9	5,527.0	19.3	18.8	-135.83	469.5	-385.9	939.4	908.4	30.96	30.338	
5,800.0	5,716.0	5,671.4	5,622.1	19.7	19.2	-135.94	483.2	-395.3	965.7	934.1	31.57	30.592	
5,900.0	5,813.4	5,767.8	5,717.1	20.2	19.6	-136.04	496.8	-404.7	992.0	959.8	32.17	30.834	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.2	0.0	3.0	3.0	-90.36	-0.2	-40.0	40.0					
100.0	100.0	100.2	100.0	3.1	3.1	-90.36	-0.2	-40.0	40.0	33.4	6.62	6.042		
200.0	200.0	200.2	200.0	3.3	3.3	-90.36	-0.2	-40.0	40.0	32.9	7.07	5.657		
300.0	300.0	300.2	300.0	3.6	3.6	-90.36	-0.2	-40.0	40.0	32.5	7.50	5.336		
400.0	400.0	400.2	400.0	3.8	3.8	-90.36	-0.2	-40.0	40.0	32.1	7.90	5.062		
500.0	500.0	500.2	500.0	4.0	4.0	-90.36	-0.2	-40.0	40.0	31.7	8.29	4.826		
600.0	600.0	600.2	600.0	4.1	4.1	-90.36	-0.2	-40.0	40.0	31.3	8.66	4.619		
700.0	700.0	700.2	700.0	4.3	4.3	-90.36	-0.2	-40.0	40.0	31.0	9.02	4.435		
800.0	800.0	800.2	800.0	4.5	4.5	-90.36	-0.2	-40.0	40.0	30.6	9.37	4.271		
900.0	900.0	900.2	900.0	4.7	4.7	-90.36	-0.2	-40.0	40.0	30.3	9.70	4.122		
1,000.0	1,000.0	1,000.2	1,000.0	4.8	4.8	-90.36	-0.2	-40.0	40.0	30.0	10.03	3.988		
1,100.0	1,100.0	1,100.2	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	1,200.2	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	1,300.2	1,300.0	5.3	5.3	-90.36	-0.2	-40.0	40.0	29.0	10.97	3.647		
1,400.0	1,400.0	1,400.2	1,400.0	5.5	5.5	-90.36	-0.2	-40.0	40.0	28.7	11.27	3.550		
1,500.0	1,500.0	1,500.2	1,500.0	5.6	5.6	-90.36	-0.2	-40.0	40.0	28.4	11.56	3.460		
1,600.0	1,600.0	1,600.2	1,600.0	5.8	5.8	-90.36	-0.2	-40.0	40.0	28.2	11.85	3.376		
1,700.0	1,700.0	1,700.2	1,700.0	5.9	5.9	-90.36	-0.2	-40.0	40.0	27.9	12.13	3.297		
1,800.0	1,800.0	1,800.2	1,800.0	6.0	6.0	-90.36	-0.2	-40.0	40.0	27.6	12.41	3.223		
1,900.0	1,900.0	1,900.2	1,900.0	6.2	6.2	-90.36	-0.2	-40.0	40.0	27.3	12.68	3.154		
1,966.6	1,966.6	1,966.8	1,966.6	6.3	6.3	-90.36	-0.2	-40.0	40.0	27.1	12.86	3.110 CC		
2,000.0	2,000.0	2,000.2	2,000.0	6.3	6.3	-90.36	-0.2	-40.0	40.0	27.0	12.95	3.088		
2,002.2	2,002.2	2,002.4	2,002.2	6.3	6.3	-90.36	-0.2	-40.0	40.0	27.0	12.96	3.087		
2,050.0	2,050.0	2,050.2	2,050.0	6.4	6.4	-89.73	0.2	-40.0	40.0	27.0	13.05	3.065 ES, SF		
2,100.0	2,100.0	2,100.2	2,099.9	6.4	6.5	-177.87	1.5	-40.0	40.4	27.2	13.15	3.070		
2,200.0	2,200.0	2,199.8	2,199.5	6.5	6.8	-171.11	6.7	-40.1	43.5	30.1	13.43	3.240		
2,300.0	2,299.8	2,298.9	2,298.2	6.7	7.0	-162.32	15.3	-40.1	50.7	37.0	13.74	3.692		
2,383.3	2,382.9	2,380.8	2,379.5	6.8	7.2	-155.23	25.0	-40.2	60.3	46.3	13.98	4.313		
2,400.0	2,399.5	2,397.1	2,395.7	6.8	7.2	-150.66	27.2	-40.2	62.6	48.6	14.01	4.465		
2,500.0	2,499.0	2,495.4	2,492.8	7.1	7.4	-129.60	41.9	-40.3	77.4	63.1	14.33	5.404		
2,600.0	2,598.2	2,594.2	2,590.5	7.3	7.6	-117.81	56.9	-40.5	92.5	77.8	14.66	6.307		
2,700.0	2,697.0	2,693.1	2,688.3	7.5	7.9	-111.73	71.9	-40.6	107.2	92.2	14.98	7.156		
2,800.0	2,795.3	2,792.0	2,786.0	7.8	8.1	-109.15	86.9	-40.7	121.7	106.4	15.29	7.956		
2,890.9	2,884.1	2,881.6	2,874.6	8.1	8.4	-108.77	100.5	-40.8	134.9	119.3	15.57	8.663		
2,900.0	2,892.9	2,890.6	2,883.5	8.1	8.4	-109.09	101.8	-40.8	136.2	120.6	15.59	8.737		
3,000.0	2,990.3	2,989.2	2,980.9	8.4	8.7	-112.22	116.8	-40.9	151.2	135.2	15.98	9.460		
3,100.0	3,087.6	3,087.8	3,078.3	8.7	9.0	-114.78	131.7	-41.1	166.5	150.2	16.32	10.202		
3,200.0	3,185.0	3,186.3	3,175.8	9.0	9.3	-116.91	146.7	-41.2	182.1	165.4	16.67	10.921		
3,300.0	3,282.3	3,284.9	3,273.2	9.4	9.6	-118.70	161.6	-41.3	197.9	180.9	17.04	11.614		
3,400.0	3,379.7	3,383.5	3,370.6	9.7	9.9	-120.23	176.6	-41.4	213.9	196.4	17.42	12.279		
3,500.0	3,477.0	3,482.0	3,468.1	10.0	10.3	-121.54	191.5	-41.5	230.0	212.1	17.81	12.915		
3,600.0	3,574.4	3,580.6	3,565.5	10.4	10.6	-122.69	206.5	-41.7	246.1	227.9	18.20	13.521		
3,700.0	3,671.7	3,679.2	3,662.9	10.8	10.9	-123.69	221.4	-41.8	262.4	243.8	18.61	14.098		
3,800.0	3,769.1	3,777.8	3,760.3	11.1	11.3	-124.57	236.4	-41.9	278.8	259.7	19.03	14.647		
3,900.0	3,866.4	3,876.3	3,857.8	11.5	11.7	-125.36	251.3	-42.0	295.2	275.7	19.46	15.168		
4,000.0	3,963.8	3,974.9	3,955.2	11.9	12.0	-126.06	266.3	-42.2	311.6	291.7	19.90	15.663		
4,100.0	4,061.1	4,073.5	4,052.6	12.3	12.4	-126.70	281.2	-42.3	328.1	307.8	20.34	16.132		
4,200.0	4,158.5	4,172.0	4,150.1	12.7	12.8	-127.27	296.2	-42.4	344.6	323.8	20.79	16.578		
4,300.0	4,255.8	4,270.6	4,247.5	13.1	13.1	-127.79	311.1	-42.5	361.2	339.9	21.25	17.000		
4,400.0	4,353.2	4,369.2	4,344.9	13.6	13.5	-128.27	326.1	-42.6	377.8	356.1	21.71	17.401		
4,500.0	4,450.5	4,467.7	4,442.3	14.0	13.9	-128.70	341.0	-42.8	394.4	372.2	22.18	17.781		

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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)			
4,600.0	4,547.9	4,566.3	4,539.8	14.4	14.3	-129.10	356.0	-42.9	411.0	388.4	22.66	18.142	
4,700.0	4,645.2	4,664.9	4,637.2	14.8	14.7	-129.47	370.9	-43.0	427.7	404.5	23.14	18.485	
4,800.0	4,742.6	4,763.4	4,734.6	15.3	15.1	-129.81	385.9	-43.1	444.3	420.7	23.62	18.811	
4,900.0	4,839.9	4,862.0	4,832.1	15.7	15.5	-130.13	400.8	-43.2	461.0	436.9	24.11	19.120	
5,000.0	4,937.3	4,960.6	4,929.5	16.1	15.9	-130.42	415.8	-43.4	477.7	453.1	24.60	19.414	
5,100.0	5,034.6	5,059.1	5,026.9	16.6	16.3	-130.69	430.7	-43.5	494.4	469.3	25.10	19.694	
5,200.0	5,131.9	5,157.7	5,124.3	17.0	16.7	-130.95	445.7	-43.6	511.1	485.5	25.61	19.961	
5,300.0	5,229.3	5,256.3	5,221.8	17.5	17.1	-131.19	460.6	-43.7	527.8	501.7	26.11	20.214	
5,400.0	5,326.6	5,354.9	5,319.2	17.9	17.5	-131.42	475.6	-43.8	544.5	517.9	26.62	20.456	
5,500.0	5,424.0	5,453.4	5,416.6	18.4	17.9	-131.63	490.5	-44.0	561.3	534.1	27.13	20.687	
5,600.0	5,521.3	5,552.0	5,514.1	18.8	18.3	-131.83	505.5	-44.1	578.0	550.4	27.65	20.907	
5,700.0	5,618.7	5,650.6	5,611.5	19.3	18.7	-132.02	520.4	-44.2	594.8	566.6	28.17	21.117	
5,800.0	5,716.0	5,749.1	5,708.9	19.7	19.1	-132.19	535.4	-44.3	611.5	582.8	28.69	21.317	
5,900.0	5,813.4	5,847.7	5,806.3	20.2	19.5	-132.36	550.4	-44.4	628.3	599.1	29.21	21.509	
6,000.0	5,910.7	5,946.3	5,903.8	20.6	19.9	-132.52	565.3	-44.6	645.1	615.3	29.74	21.693	
6,100.0	6,008.1	6,044.8	6,001.2	21.1	20.4	-132.68	580.3	-44.7	661.8	631.6	30.26	21.868	
6,200.0	6,105.4	6,143.4	6,098.6	21.6	20.8	-132.82	595.2	-44.8	678.6	647.8	30.79	22.036	
6,300.0	6,202.8	6,242.0	6,196.1	22.0	21.2	-132.96	610.2	-44.9	695.4	664.0	31.33	22.197	
6,400.0	6,300.1	6,340.5	6,293.5	22.5	21.6	-133.09	625.1	-45.0	712.2	680.3	31.86	22.352	
6,500.0	6,397.5	6,439.1	6,390.9	22.9	22.0	-133.21	640.1	-45.2	728.9	696.5	32.40	22.500	
6,600.0	6,494.8	6,537.7	6,488.3	23.4	22.4	-133.33	655.0	-45.3	745.7	712.8	32.94	22.642	
6,700.0	6,592.2	6,636.3	6,585.8	23.9	22.9	-133.45	670.0	-45.4	762.5	729.1	33.47	22.781	
6,799.6	6,689.2	6,734.9	6,683.3	24.3	23.3	-133.57	684.7	-45.5	779.2	745.2	34.01	22.914	
6,800.0	6,689.5	6,735.2	6,683.6	24.3	23.3	-133.57	684.7	-45.5	779.3	745.3	34.01	22.914	
6,900.0	6,787.1	6,834.6	6,782.1	24.8	23.7	-133.88	698.0	-45.6	795.4	760.8	34.57	23.010	
7,000.0	6,885.0	6,934.1	6,880.9	25.3	24.1	-134.20	709.6	-45.7	810.2	775.1	35.11	23.075	
7,100.0	6,983.2	7,033.7	6,980.1	25.7	24.5	-134.54	719.5	-45.8	823.8	788.2	35.65	23.107	
7,200.0	7,081.8	7,133.5	7,079.5	26.2	24.8	-134.89	727.7	-45.9	836.1	799.9	36.19	23.106	
7,300.0	7,180.6	7,233.3	7,179.1	26.6	25.2	-135.26	734.2	-45.9	847.1	810.4	36.71	23.076	
7,400.0	7,279.7	7,333.1	7,278.8	27.0	25.5	-135.65	738.9	-46.0	856.9	819.7	37.23	23.018	
7,500.0	7,379.0	7,433.0	7,378.6	27.4	25.8	-136.05	741.9	-46.0	865.4	827.7	37.74	22.933	
7,600.0	7,478.5	7,532.9	7,478.5	27.8	26.0	-136.48	743.1	-46.0	872.6	834.4	38.23	22.827	
7,700.0	7,578.2	7,632.6	7,578.2	28.2	26.1	-136.88	743.1	-46.0	878.6	839.9	38.70	22.706	
7,800.0	7,678.0	7,732.4	7,678.0	28.5	26.1	-137.20	743.1	-46.0	883.4	844.2	39.14	22.568	
7,900.0	7,777.9	7,832.2	7,777.9	28.9	26.2	-137.44	743.1	-46.0	886.9	847.3	39.55	22.423	
8,000.0	7,877.8	7,932.2	7,877.8	29.2	26.2	-137.58	743.1	-46.0	889.1	849.2	39.91	22.275	
8,100.0	7,977.8	8,032.2	7,977.8	29.4	26.3	-137.64	743.1	-46.0	890.0	849.8	40.20	22.138	
8,122.2	8,000.0	8,054.4	8,000.0	29.4	26.3	-90.68	743.1	-46.0	890.1	849.8	40.24	22.121	
8,200.0	8,077.8	8,132.2	8,077.8	29.5	26.3	-90.68	743.1	-46.0	890.1	849.7	40.32	22.077	
8,300.0	8,177.8	8,232.2	8,177.8	29.5	26.4	-90.68	743.1	-46.0	890.1	849.6	40.43	22.018	
8,400.0	8,277.8	8,332.2	8,277.8	29.5	26.4	-90.68	743.1	-46.0	890.1	849.5	40.53	21.958	
8,500.0	8,377.8	8,432.2	8,377.8	29.6	26.5	-90.68	743.1	-46.0	890.1	849.4	40.65	21.898	
8,600.0	8,477.8	8,532.2	8,477.8	29.6	26.5	-90.68	743.1	-46.0	890.1	849.3	40.76	21.839	
8,700.0	8,577.8	8,632.2	8,577.8	29.6	26.6	-90.68	743.1	-46.0	890.1	849.2	40.87	21.780	
8,800.0	8,677.8	8,732.2	8,677.8	29.7	26.6	-90.68	743.1	-46.0	890.1	849.1	40.98	21.721	
8,900.0	8,777.8	8,832.2	8,777.8	29.7	26.7	-90.68	743.1	-46.0	890.1	849.0	41.09	21.662	
9,000.0	8,877.8	8,932.2	8,877.8	29.8	26.7	-90.68	743.1	-46.0	890.1	848.9	41.20	21.603	
9,100.0	8,977.8	9,032.2	8,977.8	29.8	26.8	-90.68	743.1	-46.0	890.1	848.7	41.31	21.545	
9,200.0	9,077.8	9,132.2	9,077.8	29.8	26.8	-90.68	743.1	-46.0	890.1	848.6	41.43	21.486	
9,300.0	9,177.8	9,232.2	9,177.8	29.9	26.9	-90.68	743.1	-46.0	890.1	848.5	41.54	21.428	
9,400.0	9,277.8	9,332.2	9,277.8	29.9	26.9	-90.68	743.1	-46.0	890.1	848.4	41.65	21.370	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,500.0	9,377.8	9,432.2	9,377.8	30.0	27.0	-90.68	743.1	-46.0	890.1	848.3	41.76	21.311	
9,600.0	9,477.8	9,532.2	9,477.8	30.0	27.0	-90.68	743.1	-46.0	890.1	848.2	41.88	21.254	
9,700.0	9,577.8	9,632.2	9,577.8	30.0	27.1	-90.68	743.1	-46.0	890.1	848.1	41.99	21.196	
9,800.0	9,677.8	9,732.2	9,677.8	30.1	27.1	-90.68	743.1	-46.0	890.1	848.0	42.11	21.138	
9,900.0	9,777.8	9,832.2	9,777.8	30.1	27.2	-90.68	743.1	-46.0	890.1	847.8	42.22	21.081	
10,000.0	9,877.8	9,932.2	9,877.8	30.2	27.2	-90.68	743.1	-46.0	890.1	847.7	42.34	21.024	
10,100.0	9,977.8	10,032.2	9,977.8	30.2	27.3	-90.68	743.1	-46.0	890.1	847.6	42.45	20.967	
10,200.0	10,077.8	10,132.2	10,077.8	30.2	27.3	-90.68	743.1	-46.0	890.1	847.5	42.57	20.910	
10,300.0	10,177.8	10,232.2	10,177.8	30.3	27.4	-90.68	743.1	-46.0	890.1	847.4	42.68	20.853	
10,400.0	10,277.8	10,332.2	10,277.8	30.3	27.4	-90.68	743.1	-46.0	890.1	847.3	42.80	20.796	
10,500.0	10,377.8	10,432.2	10,377.8	30.4	27.5	-90.68	743.1	-46.0	890.1	847.1	42.92	20.740	
10,600.0	10,477.8	10,532.2	10,477.8	30.4	27.5	-90.68	743.1	-46.0	890.1	847.0	43.03	20.684	
10,700.0	10,577.8	10,632.2	10,577.8	30.5	27.6	-90.68	743.1	-46.0	890.1	846.9	43.15	20.628	
10,800.0	10,677.8	10,732.2	10,677.8	30.5	27.6	-90.68	743.1	-46.0	890.1	846.8	43.27	20.572	
10,900.0	10,777.8	10,832.2	10,777.8	30.5	27.7	-90.68	743.1	-46.0	890.1	846.7	43.38	20.516	
11,000.0	10,877.8	10,932.2	10,877.8	30.6	27.7	-90.68	743.1	-46.0	890.1	846.6	43.50	20.460	
11,100.0	10,977.8	11,032.2	10,977.8	30.6	27.8	-90.68	743.1	-46.0	890.1	846.4	43.62	20.405	
11,200.0	11,077.8	11,132.2	11,077.8	30.7	27.8	-90.68	743.1	-46.0	890.1	846.3	43.74	20.350	
11,300.0	11,177.8	11,232.2	11,177.8	30.7	27.9	-90.68	743.1	-46.0	890.1	846.2	43.86	20.295	
11,400.0	11,277.8	11,332.2	11,277.8	30.8	27.9	-90.68	743.1	-46.0	890.1	846.1	43.98	20.240	
11,500.0	11,377.8	11,432.2	11,377.8	30.8	28.0	-90.68	743.1	-46.0	890.1	846.0	44.10	20.185	
11,600.0	11,477.8	11,532.2	11,477.8	30.8	28.0	-90.68	743.1	-46.0	890.1	845.9	44.21	20.133	
11,603.4	11,481.2	11,535.6	11,481.2	30.8	28.0	-90.68	743.1	-46.0	890.1	845.9	44.21	20.132	
11,633.7	11,511.5	11,565.7	11,511.3	30.8	28.0	-90.69	742.9	-46.0	890.1	845.8	44.23	20.123	
11,650.0	11,527.8	11,581.8	11,527.4	30.8	28.0	89.63	742.1	-46.0	890.1	845.8	44.24	20.121	
11,675.0	11,552.8	11,606.5	11,552.0	30.8	27.9	89.58	739.9	-46.0	890.1	845.8	44.23	20.123	
11,700.0	11,577.6	11,631.1	11,576.4	30.7	27.8	89.53	736.4	-46.0	890.1	845.9	44.22	20.127	
11,725.0	11,602.3	11,655.7	11,600.5	30.7	27.7	89.49	731.6	-45.9	890.1	845.9	44.21	20.132	
11,750.0	11,626.7	11,680.3	11,624.3	30.6	27.7	89.44	725.7	-45.9	890.1	845.9	44.20	20.139	
11,775.0	11,650.8	11,704.8	11,647.8	30.5	27.6	89.40	718.5	-45.8	890.1	845.9	44.18	20.148	
11,800.0	11,674.5	11,729.3	11,670.8	30.4	27.5	89.35	710.1	-45.8	890.1	845.9	44.16	20.158	
11,825.0	11,697.7	11,753.8	11,693.3	30.4	27.3	89.31	700.6	-45.7	890.1	846.0	44.13	20.170	
11,850.0	11,720.5	11,778.2	11,715.3	30.3	27.2	89.27	690.0	-45.7	890.1	846.0	44.10	20.183	
11,875.0	11,742.7	11,802.6	11,736.7	30.2	27.1	89.24	678.2	-45.6	890.1	846.1	44.07	20.197	
11,900.0	11,764.2	11,827.0	11,757.4	30.2	27.0	89.20	665.4	-45.5	890.1	846.1	44.04	20.211	
11,925.0	11,785.1	11,851.3	11,777.5	30.1	26.9	89.17	651.6	-45.4	890.1	846.1	44.01	20.227	
11,950.0	11,805.2	11,875.7	11,796.8	30.0	26.8	89.14	636.8	-45.3	890.1	846.2	43.97	20.242	
11,975.0	11,824.5	11,900.0	11,815.3	29.9	26.8	89.11	621.0	-45.2	890.2	846.2	43.94	20.258	
12,000.0	11,842.9	11,924.3	11,832.9	29.9	26.7	89.09	604.3	-45.1	890.2	846.3	43.91	20.274	
12,025.0	11,860.5	11,948.5	11,849.7	29.8	26.6	89.06	586.8	-45.0	890.2	846.3	43.87	20.290	
12,050.0	11,877.0	11,972.8	11,865.5	29.8	26.5	89.04	568.4	-44.9	890.2	846.3	43.84	20.305	
12,075.0	11,892.6	11,997.0	11,880.4	29.7	26.4	89.02	549.3	-44.8	890.2	846.4	43.81	20.319	
12,100.0	11,907.1	12,021.2	11,894.3	29.7	26.3	89.01	529.4	-44.7	890.2	846.4	43.78	20.332	
12,125.0	11,920.6	12,045.4	11,907.2	29.6	26.3	89.00	508.9	-44.5	890.2	846.4	43.76	20.343	
12,150.0	11,932.9	12,069.7	11,919.0	29.6	26.2	88.99	487.8	-44.4	890.2	846.4	43.74	20.353	
12,175.0	11,944.1	12,093.9	11,929.7	29.5	26.2	88.98	466.1	-44.3	890.2	846.5	43.72	20.361	
12,200.0	11,954.1	12,118.0	11,939.3	29.5	26.1	88.97	443.9	-44.1	890.2	846.5	43.71	20.367	
12,225.0	11,962.8	12,142.2	11,947.7	29.5	26.1	88.97	421.2	-44.0	890.2	846.5	43.70	20.370	
12,250.0	11,970.4	12,166.4	11,955.0	29.5	26.0	88.97	398.2	-43.8	890.2	846.5	43.70	20.371	
12,275.0	11,976.6	12,190.6	11,961.1	29.5	26.0	88.97	374.8	-43.7	890.2	846.5	43.70	20.369	
12,300.0	11,981.6	12,214.8	11,966.1	29.5	26.0	88.98	351.1	-43.5	890.2	846.5	43.71	20.364	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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)			
12,325.0	11,985.4	12,239.0	11,969.8	29.5	25.9	88.99	327.2	-43.4	890.2	846.5	43.73	20.357	
12,350.0	11,987.8	12,263.2	11,972.3	29.5	25.9	89.00	303.1	-43.2	890.2	846.4	43.75	20.346	
12,375.0	11,988.9	12,287.4	11,973.6	29.5	25.9	89.01	278.9	-43.1	890.2	846.4	43.78	20.332	
12,383.7	11,989.0	12,295.9	11,973.7	29.5	25.9	89.02	270.5	-43.0	890.2	846.4	43.79	20.327	
12,392.3	11,989.0	12,304.3	11,973.8	29.5	25.9	89.02	262.0	-43.0	890.2	846.4	43.81	20.320	
12,400.0	11,989.0	12,312.0	11,973.8	29.5	25.9	89.02	254.4	-42.9	890.2	846.4	43.82	20.313	
12,500.0	11,989.0	12,412.0	11,973.8	29.6	25.9	89.02	154.4	-42.3	890.2	846.1	44.08	20.196	
12,600.0	11,989.0	12,512.0	11,973.8	29.7	25.9	89.02	54.4	-41.7	890.2	845.8	44.41	20.043	
12,700.0	11,989.0	12,612.0	11,973.8	29.8	25.9	89.02	-45.6	-41.1	890.2	845.3	44.83	19.858	
12,800.0	11,989.0	12,712.0	11,973.8	30.0	25.9	89.02	-145.6	-40.4	890.2	844.9	45.32	19.643	
12,900.0	11,989.0	12,812.0	11,973.8	30.2	26.0	89.02	-245.6	-39.8	890.2	844.3	45.88	19.401	
13,000.0	11,989.0	12,912.0	11,973.8	30.4	26.0	89.02	-345.6	-39.2	890.2	843.6	46.52	19.135	
13,100.0	11,989.0	13,012.0	11,973.8	30.6	26.0	89.02	-445.6	-38.6	890.2	842.9	47.23	18.849	
13,200.0	11,989.0	13,112.0	11,973.8	30.9	26.0	89.02	-545.6	-37.9	890.2	842.2	48.00	18.546	
13,300.0	11,989.0	13,212.0	11,973.8	31.1	26.0	89.02	-645.6	-37.3	890.2	841.3	48.83	18.229	
13,400.0	11,989.0	13,312.0	11,973.8	31.4	26.0	89.02	-745.6	-36.7	890.2	840.4	49.72	17.902	
13,500.0	11,989.0	13,412.0	11,973.8	31.7	26.0	89.02	-845.6	-36.0	890.2	839.5	50.67	17.567	
13,600.0	11,989.0	13,512.0	11,973.8	32.1	26.1	89.02	-945.6	-35.4	890.2	838.5	51.68	17.226	
13,700.0	11,989.0	13,612.0	11,973.8	32.4	26.1	89.02	-1,045.6	-34.8	890.2	837.4	52.73	16.882	
13,800.0	11,989.0	13,712.0	11,973.8	32.8	26.1	89.02	-1,145.6	-34.2	890.2	836.3	53.83	16.537	
13,900.0	11,989.0	13,812.0	11,973.8	33.2	26.1	89.02	-1,245.6	-33.5	890.2	835.2	54.97	16.193	
14,000.0	11,989.0	13,912.0	11,973.8	33.7	26.2	89.02	-1,345.6	-32.9	890.2	834.0	56.16	15.852	
14,100.0	11,989.0	14,012.0	11,973.8	34.1	26.2	89.02	-1,445.6	-32.3	890.2	832.8	57.38	15.514	
14,200.0	11,989.0	14,112.0	11,973.8	34.6	26.2	89.02	-1,545.6	-31.7	890.2	831.5	58.64	15.180	
14,300.0	11,989.0	14,212.0	11,973.8	35.1	26.9	89.02	-1,645.6	-31.0	890.2	830.2	59.93	14.853	
14,400.0	11,989.0	14,312.0	11,973.8	35.6	27.7	89.02	-1,745.6	-30.4	890.2	828.9	61.26	14.531	
14,500.0	11,989.0	14,412.0	11,973.8	36.1	28.5	89.02	-1,845.6	-29.8	890.2	827.5	62.62	14.216	
14,600.0	11,989.0	14,512.0	11,973.8	36.7	29.2	89.02	-1,945.6	-29.2	890.2	826.2	64.00	13.909	
14,700.0	11,989.0	14,612.0	11,973.8	37.3	30.0	89.02	-2,045.6	-28.5	890.2	824.7	65.41	13.609	
14,800.0	11,989.0	14,712.0	11,973.8	37.9	30.9	89.02	-2,145.6	-27.9	890.2	823.3	66.84	13.317	
14,900.0	11,989.0	14,812.0	11,973.8	38.5	31.7	89.02	-2,245.6	-27.3	890.2	821.9	68.30	13.033	
15,000.0	11,989.0	14,912.0	11,973.8	39.1	32.5	89.02	-2,345.6	-26.6	890.2	820.4	69.78	12.757	
15,100.0	11,989.0	15,012.0	11,973.8	39.7	33.3	89.02	-2,445.6	-26.0	890.2	818.9	71.28	12.488	
15,200.0	11,989.0	15,112.0	11,973.8	40.4	34.2	89.02	-2,545.6	-25.4	890.2	817.4	72.80	12.228	
15,300.0	11,989.0	15,212.0	11,973.8	41.1	35.0	89.02	-2,645.6	-24.8	890.2	815.8	74.33	11.975	
15,400.0	11,989.0	15,312.0	11,973.8	41.7	35.9	89.02	-2,745.6	-24.1	890.1	814.3	75.88	11.730	
15,500.0	11,989.0	15,412.0	11,973.8	42.4	36.7	89.02	-2,845.6	-23.5	890.1	812.7	77.45	11.493	
15,600.0	11,989.0	15,512.0	11,973.8	43.1	37.6	89.02	-2,945.6	-22.9	890.1	811.1	79.04	11.263	
15,700.0	11,989.0	15,612.0	11,973.8	43.8	38.4	89.02	-3,045.6	-22.3	890.1	809.5	80.63	11.040	
15,800.0	11,989.0	15,712.0	11,973.8	44.6	39.3	89.02	-3,145.6	-21.6	890.1	807.9	82.24	10.824	
15,900.0	11,989.0	15,812.0	11,973.8	45.3	40.2	89.02	-3,245.6	-21.0	890.1	806.3	83.86	10.614	
16,000.0	11,989.0	15,912.0	11,973.8	46.1	41.1	89.02	-3,345.6	-20.4	890.1	804.6	85.50	10.411	
16,100.0	11,989.0	16,012.0	11,973.8	46.8	41.9	89.02	-3,445.6	-19.8	890.1	803.0	87.14	10.215	
16,200.0	11,989.0	16,112.0	11,973.8	47.6	42.8	89.02	-3,545.6	-19.1	890.1	801.3	88.80	10.025	
16,300.0	11,989.0	16,212.0	11,973.8	48.4	43.7	89.02	-3,645.6	-18.5	890.1	799.7	90.46	9.840	
16,400.0	11,989.0	16,312.0	11,973.8	49.1	44.6	89.02	-3,745.6	-17.9	890.1	798.0	92.13	9.661	
16,500.0	11,989.0	16,412.0	11,973.8	49.9	45.5	89.02	-3,845.6	-17.3	890.1	796.3	93.82	9.488	
16,600.0	11,989.0	16,512.0	11,973.8	50.7	46.4	89.02	-3,945.6	-16.6	890.1	794.6	95.51	9.320	
16,700.0	11,989.0	16,612.0	11,973.8	51.5	47.3	89.02	-4,045.6	-16.0	890.1	792.9	97.20	9.157	
16,800.0	11,989.0	16,712.0	11,973.8	52.3	48.2	89.02	-4,145.6	-15.4	890.1	791.2	98.91	8.999	
16,900.0	11,989.0	16,812.0	11,973.8	53.1	49.1	89.02	-4,245.6	-14.7	890.1	789.5	100.62	8.846	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		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)			
17,000.0	11,989.0	16,912.0	11,973.8	54.0	50.0	89.02	-4,345.5	-14.1	890.1	787.8	102.34	8.698	
17,100.0	11,989.0	17,012.0	11,973.8	54.8	50.9	89.02	-4,445.5	-13.5	890.1	786.1	104.07	8.553	
17,200.0	11,989.0	17,112.0	11,973.8	55.6	51.9	89.02	-4,545.5	-12.9	890.1	784.3	105.80	8.413	
17,300.0	11,989.0	17,212.0	11,973.8	56.4	52.8	89.02	-4,645.5	-12.2	890.1	782.6	107.54	8.277	
17,400.0	11,989.0	17,312.0	11,973.8	57.3	53.7	89.02	-4,745.5	-11.6	890.1	780.9	109.28	8.145	
17,500.0	11,989.0	17,412.0	11,973.8	58.1	54.6	89.02	-4,845.5	-11.0	890.1	779.1	111.03	8.017	
17,600.0	11,989.0	17,512.0	11,973.8	59.0	55.5	89.02	-4,945.5	-10.4	890.1	777.3	112.78	7.892	
17,700.0	11,989.0	17,612.0	11,973.8	59.8	56.4	89.02	-5,045.5	-9.7	890.1	775.6	114.54	7.771	
17,800.0	11,989.0	17,712.0	11,973.8	60.7	57.4	89.02	-5,145.5	-9.1	890.1	773.8	116.30	7.654	
17,900.0	11,989.0	17,812.0	11,973.8	61.5	58.3	89.02	-5,245.5	-8.5	890.1	772.1	118.07	7.539	
18,000.0	11,989.0	17,912.0	11,973.8	62.4	59.2	89.02	-5,345.5	-7.9	890.1	770.3	119.84	7.428	
18,100.0	11,989.0	18,012.0	11,973.8	63.3	60.1	89.02	-5,445.5	-7.2	890.1	768.5	121.61	7.319	
18,200.0	11,989.0	18,112.0	11,973.8	64.1	61.1	89.02	-5,545.5	-6.6	890.1	766.7	123.39	7.214	
18,300.0	11,989.0	18,212.0	11,973.8	65.0	62.0	89.02	-5,645.5	-6.0	890.1	764.9	125.18	7.111	
18,400.0	11,989.0	18,312.0	11,973.8	65.9	62.9	89.02	-5,745.5	-5.4	890.1	763.2	126.96	7.011	
18,500.0	11,989.0	18,412.0	11,973.8	66.7	63.8	89.02	-5,845.5	-4.7	890.1	761.4	128.75	6.914	
18,600.0	11,989.0	18,512.0	11,973.8	67.6	64.8	89.02	-5,945.5	-4.1	890.1	759.6	130.54	6.819	
18,700.0	11,989.0	18,612.0	11,973.8	68.5	65.7	89.02	-6,045.5	-3.5	890.1	757.8	132.34	6.726	
18,800.0	11,989.0	18,712.0	11,973.8	69.4	66.6	89.02	-6,145.5	-2.8	890.1	756.0	134.14	6.636	
18,900.0	11,989.0	18,812.0	11,973.8	70.3	67.6	89.02	-6,245.5	-2.2	890.1	754.2	135.94	6.548	
19,000.0	11,989.0	18,912.0	11,973.8	71.2	68.5	89.02	-6,345.5	-1.6	890.1	752.4	137.74	6.462	
19,100.0	11,989.0	19,012.0	11,973.8	72.0	69.4	89.02	-6,445.5	-1.0	890.1	750.6	139.55	6.379	
19,200.0	11,989.0	19,112.0	11,973.8	72.9	70.4	89.02	-6,545.5	-0.3	890.1	748.8	141.35	6.297	
19,300.0	11,989.0	19,212.0	11,973.8	73.8	71.3	89.02	-6,645.5	0.3	890.1	747.0	143.17	6.217	
19,400.0	11,989.0	19,312.0	11,973.8	74.7	72.3	89.02	-6,745.5	0.9	890.1	745.1	144.98	6.140	
19,500.0	11,989.0	19,412.0	11,973.8	75.6	73.2	89.02	-6,845.5	1.5	890.1	743.3	146.79	6.064	
19,600.0	11,989.0	19,512.0	11,973.8	76.5	74.1	89.02	-6,945.5	2.2	890.1	741.5	148.61	5.989	
19,700.0	11,989.0	19,612.0	11,973.8	77.4	75.1	89.02	-7,045.5	2.8	890.1	739.7	150.43	5.917	
19,746.4	11,989.0	19,658.4	11,973.8	77.8	75.5	89.02	-7,091.9	3.1	890.1	739.0	151.13	5.890	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.1	3.0	3.0	-90.37	-0.1	-20.0	20.0				
100.0	100.0	99.9	100.0	3.1	3.1	-90.37	-0.1	-20.0	20.0	13.4	6.62	3.021	
200.0	200.0	199.9	200.0	3.3	3.3	-90.37	-0.1	-20.0	20.0	12.9	7.07	2.829 Normal Operations	
300.0	300.0	299.9	300.0	3.6	3.6	-90.37	-0.1	-20.0	20.0	12.5	7.50	2.668 Normal Operations	
400.0	400.0	399.9	400.0	3.8	3.8	-90.37	-0.1	-20.0	20.0	12.1	7.90	2.531 Normal Operations	
500.0	500.0	499.9	500.0	4.0	4.0	-90.37	-0.1	-20.0	20.0	11.7	8.29	2.413 Caution - Monitor Closely	
600.0	600.0	599.9	600.0	4.1	4.1	-90.37	-0.1	-20.0	20.0	11.3	8.66	2.310 Caution - Monitor Closely	
700.0	700.0	699.9	700.0	4.3	4.3	-90.37	-0.1	-20.0	20.0	11.0	9.02	2.218 Caution - Monitor Closely	
800.0	800.0	799.9	800.0	4.5	4.5	-90.37	-0.1	-20.0	20.0	10.6	9.37	2.135 Caution - Monitor Closely	
900.0	900.0	899.9	900.0	4.7	4.7	-90.37	-0.1	-20.0	20.0	10.3	9.70	2.061 Caution - Monitor Closely	
1,000.0	1,000.0	999.9	1,000.0	4.8	4.8	-90.37	-0.1	-20.0	20.0	10.0	10.03	1.994 Caution - Monitor Closely	
1,100.0	1,100.0	1,099.9	1,100.0	5.0	5.0	-90.37	-0.1	-20.0	20.0	9.7	10.35	1.932 Caution - Monitor Closely	
1,200.0	1,200.0	1,199.9	1,200.0	5.2	5.2	-90.37	-0.1	-20.0	20.0	9.3	10.66	1.876 Caution - Monitor Closely	
1,300.0	1,300.0	1,299.9	1,300.0	5.3	5.3	-90.37	-0.1	-20.0	20.0	9.0	10.97	1.824 Caution - Monitor Closely	
1,400.0	1,400.0	1,399.9	1,400.0	5.5	5.5	-90.37	-0.1	-20.0	20.0	8.7	11.27	1.775 Caution - Monitor Closely	
1,500.0	1,500.0	1,499.9	1,500.0	5.6	5.6	-90.37	-0.1	-20.0	20.0	8.4	11.56	1.730 Caution - Monitor Closely	
1,600.0	1,600.0	1,599.9	1,600.0	5.8	5.8	-90.37	-0.1	-20.0	20.0	8.2	11.85	1.688 Caution - Monitor Closely	
1,700.0	1,700.0	1,699.9	1,700.0	5.9	5.9	-90.37	-0.1	-20.0	20.0	7.9	12.13	1.649 Caution - Monitor Closely	
1,800.0	1,800.0	1,799.9	1,800.0	6.0	6.0	-90.37	-0.1	-20.0	20.0	7.6	12.41	1.612 Caution - Monitor Closely	
1,900.0	1,900.0	1,899.9	1,900.0	6.2	6.2	-90.37	-0.1	-20.0	20.0	7.3	12.68	1.577 Caution - Monitor Closely	
2,000.0	2,000.0	1,999.9	2,000.0	6.3	6.3	-90.37	-0.1	-20.0	20.0	7.0	12.95	1.544 Caution - Monitor Closely	
2,050.0	2,050.0	2,049.9	2,050.0	6.4	6.4	-90.37	-0.1	-20.0	20.0	6.9	13.05	1.532 Caution - Monitor Closely, CC, ES, SF	
2,100.0	2,100.0	2,099.9	2,100.0	6.4	6.5	-179.63	-0.1	-20.0	20.3	7.2	13.15	1.546 Caution - Monitor Closely	
2,200.0	2,200.0	2,200.3	2,200.3	6.5	6.7	-176.52	1.3	-19.0	22.0	8.6	13.45	1.638 Caution - Monitor Closely	
2,300.0	2,299.8	2,300.5	2,300.4	6.7	6.9	-166.73	5.7	-16.2	25.0	11.3	13.73	1.821 Caution - Monitor Closely	
2,383.3	2,382.9	2,383.8	2,383.4	6.8	7.1	-156.55	11.6	-12.3	29.2	15.3	13.93	2.100 Caution - Monitor Closely	
2,400.0	2,399.5	2,400.4	2,399.9	6.8	7.1	-151.28	13.0	-11.4	30.3	16.4	13.96	2.172 Caution - Monitor Closely	
2,500.0	2,499.0	2,500.1	2,498.9	7.1	7.4	-126.34	23.2	-4.7	37.1	22.8	14.27	2.600 Normal Operations	
2,600.0	2,598.2	2,599.6	2,597.2	7.3	7.6	-109.90	36.2	3.8	44.2	29.7	14.55	3.039	
2,700.0	2,697.0	2,699.0	2,694.7	7.5	7.9	-98.58	52.1	14.2	51.3	36.5	14.80	3.468	
2,800.0	2,795.3	2,798.2	2,791.4	7.8	8.2	-90.36	70.7	26.4	58.4	43.3	15.07	3.875	
2,890.9	2,884.1	2,888.3	2,878.5	8.1	8.4	-84.62	90.0	39.0	64.6	49.3	15.27	4.232	
2,900.0	2,892.9	2,897.4	2,887.3	8.1	8.5	-84.41	92.0	40.4	65.2	49.9	15.28	4.268	
3,000.0	2,990.3	2,997.2	2,983.4	8.4	8.8	-82.40	114.3	55.0	71.9	56.2	15.65	4.593	
3,100.0	3,087.6	3,096.9	3,079.6	8.7	9.1	-80.72	136.5	69.5	78.6	62.6	15.97	4.922	
3,200.0	3,185.0	3,196.7	3,175.7	9.0	9.4	-79.31	158.8	84.1	85.4	69.1	16.31	5.234	
3,300.0	3,282.3	3,296.4	3,271.9	9.4	9.7	-78.11	181.0	98.7	92.2	75.5	16.68	5.530	
3,400.0	3,379.7	3,396.2	3,368.0	9.7	10.1	-77.07	203.3	113.3	99.1	82.0	17.06	5.808	
3,500.0	3,477.0	3,495.9	3,464.1	10.0	10.4	-76.17	225.5	127.8	106.0	88.5	17.46	6.070	
3,600.0	3,574.4	3,595.7	3,560.3	10.4	10.8	-75.38	247.7	142.4	112.9	95.0	17.88	6.315	
3,700.0	3,671.7	3,695.4	3,656.4	10.8	11.2	-74.68	270.0	157.0	119.8	101.5	18.31	6.544	
3,800.0	3,769.1	3,795.2	3,752.6	11.1	11.6	-74.06	292.2	171.6	126.8	108.0	18.76	6.758	
3,900.0	3,866.4	3,894.9	3,848.7	11.5	12.0	-73.50	314.5	186.1	133.7	114.5	19.22	6.958	
4,000.0	3,963.8	3,994.7	3,944.8	11.9	12.4	-73.00	336.7	200.7	140.7	121.0	19.69	7.144	
4,100.0	4,061.1	4,094.4	4,041.0	12.3	12.8	-72.54	359.0	215.3	147.7	127.5	20.18	7.318	
4,200.0	4,158.5	4,194.2	4,137.1	12.7	13.2	-72.13	381.2	229.9	154.7	134.0	20.68	7.480	
4,300.0	4,255.8	4,293.9	4,233.2	13.1	13.6	-71.75	403.5	244.4	161.7	140.5	21.19	7.630	
4,400.0	4,353.2	4,393.7	4,329.4	13.6	14.1	-71.40	425.7	259.0	168.7	147.0	21.71	7.771	
4,500.0	4,450.5	4,493.4	4,425.5	14.0	14.5	-71.08	448.0	273.6	175.7	153.5	22.23	7.902	
4,600.0	4,547.9	4,593.2	4,521.7	14.4	14.9	-70.79	470.2	288.2	182.7	159.9	22.77	8.024	
4,700.0	4,645.2	4,692.9	4,617.8	14.8	15.4	-70.52	492.5	302.7	189.7	166.4	23.31	8.139	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,742.6	4,792.7	4,713.9	15.3	15.8	-70.26	514.7	317.3	196.8	172.9	23.86	8.245	
4,900.0	4,839.9	4,892.4	4,810.1	15.7	16.3	-70.03	536.9	331.9	203.8	179.4	24.42	8.345	
5,000.0	4,937.3	4,992.9	4,906.9	16.1	16.7	-69.83	559.3	346.5	210.8	185.8	24.96	8.445	
5,100.0	5,034.6	5,094.8	5,005.6	16.6	17.2	-69.96	580.7	360.6	217.0	191.5	25.48	8.515	
5,200.0	5,131.9	5,196.8	5,104.7	17.0	17.6	-70.47	600.8	373.7	222.2	196.3	25.93	8.569	
5,300.0	5,229.3	5,298.8	5,204.2	17.5	18.1	-71.35	619.3	385.8	226.5	200.2	26.30	8.611	
5,400.0	5,326.6	5,400.7	5,304.1	17.9	18.5	-72.58	636.4	397.0	229.9	203.3	26.59	8.648	
5,500.0	5,424.0	5,502.5	5,404.2	18.4	19.0	-74.16	651.9	407.2	232.6	205.8	26.79	8.682	
5,600.0	5,521.3	5,604.2	5,504.5	18.8	19.4	-76.08	666.0	416.4	234.6	207.7	26.91	8.718	
5,700.0	5,618.7	5,705.6	5,604.8	19.3	19.8	-78.36	678.5	424.6	236.1	209.1	26.95	8.760	
5,800.0	5,716.0	5,806.7	5,705.0	19.7	20.2	-81.00	689.5	431.8	237.3	210.3	26.94	8.809	
5,900.0	5,813.4	5,907.4	5,805.1	20.2	20.6	-83.99	699.0	438.0	238.4	211.5	26.89	8.863	
6,000.0	5,910.7	6,007.7	5,905.0	20.6	21.0	-87.34	706.9	443.3	239.6	212.7	26.86	8.919	
6,100.0	6,008.1	6,107.5	6,004.5	21.1	21.4	-91.02	713.4	447.5	241.2	214.3	26.90	8.967	
6,200.0	6,105.4	6,206.8	6,103.6	21.6	21.7	-95.02	718.4	450.8	243.6	216.5	27.08	8.995	
6,300.0	6,202.8	6,305.5	6,202.2	22.0	22.0	-99.29	722.0	453.1	247.0	219.5	27.48	8.990	
6,400.0	6,300.1	6,403.5	6,300.2	22.5	22.3	-103.77	724.1	454.5	251.8	223.7	28.14	8.947	
6,500.0	6,397.5	6,500.9	6,397.5	22.9	22.5	-108.40	724.9	455.0	258.3	229.1	29.11	8.871	
6,600.0	6,494.8	6,598.2	6,494.8	23.4	22.5	-112.96	724.9	455.0	266.5	236.2	30.34	8.785	
6,700.0	6,592.2	6,695.6	6,592.2	23.9	22.6	-117.24	724.9	455.0	276.5	244.7	31.72	8.716	
6,799.6	6,689.2	6,792.6	6,689.2	24.3	22.6	-121.20	724.9	455.0	287.8	254.7	33.17	8.677	
6,800.0	6,689.5	6,792.9	6,689.5	24.3	22.6	-121.21	724.9	455.0	287.9	254.7	33.18	8.677	
6,900.0	6,787.1	6,890.5	6,787.1	24.8	22.7	-124.86	724.9	455.0	300.1	265.5	34.61	8.671	
7,000.0	6,885.0	6,988.4	6,885.0	25.3	22.7	-127.97	724.9	455.0	312.3	276.4	35.94	8.690	
7,100.0	6,983.2	7,086.6	6,983.2	25.7	22.8	-130.63	724.9	455.0	324.2	287.1	37.16	8.725	
7,200.0	7,081.8	7,185.2	7,081.8	26.2	22.8	-132.89	724.9	455.0	335.6	297.3	38.27	8.768	
7,300.0	7,180.6	7,284.0	7,180.6	26.6	22.9	-134.79	724.9	455.0	346.1	306.9	39.28	8.813	
7,400.0	7,279.7	7,383.1	7,279.7	27.0	22.9	-136.39	724.9	455.0	355.8	315.6	40.19	8.854	
7,500.0	7,379.0	7,482.4	7,379.0	27.4	23.0	-137.71	724.9	455.0	364.4	323.4	41.00	8.886	
7,600.0	7,478.5	7,581.9	7,478.5	27.8	23.0	-138.79	724.9	455.0	371.8	330.1	41.74	8.909	
7,700.0	7,578.2	7,681.6	7,578.2	28.2	23.1	-139.65	724.9	455.0	378.1	335.7	42.39	8.918	
7,800.0	7,678.0	7,781.4	7,678.0	28.5	23.1	-140.31	724.9	455.0	383.1	340.1	42.97	8.915	
7,900.0	7,777.9	7,881.3	7,777.9	28.9	23.2	-140.78	724.9	455.0	386.7	343.3	43.47	8.897	
8,000.0	7,877.8	7,981.2	7,877.8	29.2	23.2	-141.08	724.9	455.0	389.1	345.2	43.88	8.867	
8,100.0	7,977.8	8,081.2	7,977.8	29.4	23.3	-141.20	724.9	455.0	390.0	345.9	44.18	8.828	
8,122.2	8,000.0	8,103.4	8,000.0	29.4	23.3	-94.24	724.9	455.0	390.1	345.9	44.21	8.822	
8,200.0	8,077.8	8,181.2	8,077.8	29.5	23.3	-94.24	724.9	455.0	390.1	345.8	44.28	8.808	
8,300.0	8,177.8	8,281.2	8,177.8	29.5	23.4	-94.24	724.9	455.0	390.1	345.7	44.38	8.789	
8,400.0	8,277.8	8,381.2	8,277.8	29.5	23.4	-94.24	724.9	455.0	390.1	345.6	44.48	8.769	
8,500.0	8,377.8	8,481.2	8,377.8	29.6	23.5	-94.24	724.9	455.0	390.1	345.5	44.58	8.750	
8,600.0	8,477.8	8,581.2	8,477.8	29.6	23.5	-94.24	724.9	455.0	390.1	345.4	44.68	8.730	
8,700.0	8,577.8	8,681.2	8,577.8	29.6	23.6	-94.24	724.9	455.0	390.1	345.3	44.78	8.711	
8,800.0	8,677.8	8,781.2	8,677.8	29.7	23.6	-94.24	724.9	455.0	390.1	345.2	44.88	8.692	
8,900.0	8,777.8	8,881.2	8,777.8	29.7	23.7	-94.24	724.9	455.0	390.1	345.1	44.98	8.672	
9,000.0	8,877.8	8,981.2	8,877.8	29.8	23.7	-94.24	724.9	455.0	390.1	345.0	45.08	8.653	
9,100.0	8,977.8	9,081.2	8,977.8	29.8	23.8	-94.24	724.9	455.0	390.1	344.9	45.18	8.633	
9,200.0	9,077.8	9,181.2	9,077.8	29.8	23.9	-94.24	724.9	455.0	390.1	344.8	45.28	8.614	
9,300.0	9,177.8	9,281.2	9,177.8	29.9	23.9	-94.24	724.9	455.0	390.1	344.7	45.38	8.595	
9,400.0	9,277.8	9,381.2	9,277.8	29.9	24.0	-94.24	724.9	455.0	390.1	344.6	45.49	8.576	
9,500.0	9,377.8	9,481.2	9,377.8	30.0	24.0	-94.24	724.9	455.0	390.1	344.5	45.59	8.556	
9,600.0	9,477.8	9,581.2	9,477.8	30.0	24.1	-94.24	724.9	455.0	390.1	344.4	45.69	8.537	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,700.0	9,577.8	9,681.2	9,577.8	30.0	24.1	-94.24	724.9	455.0	390.1	344.3	45.79	8.518	
9,800.0	9,677.8	9,781.2	9,677.8	30.1	24.2	-94.24	724.9	455.0	390.1	344.2	45.90	8.499	
9,900.0	9,777.8	9,881.2	9,777.8	30.1	24.2	-94.24	724.9	455.0	390.1	344.1	46.00	8.480	
10,000.0	9,877.8	9,981.2	9,877.8	30.2	24.3	-94.24	724.9	455.0	390.1	344.0	46.10	8.460	
10,100.0	9,977.8	10,081.2	9,977.8	30.2	24.3	-94.24	724.9	455.0	390.1	343.9	46.21	8.441	
10,200.0	10,077.8	10,181.2	10,077.8	30.2	24.4	-94.24	724.9	455.0	390.1	343.8	46.31	8.422	
10,300.0	10,177.8	10,281.2	10,177.8	30.3	24.5	-94.24	724.9	455.0	390.1	343.6	46.42	8.403	
10,400.0	10,277.8	10,381.2	10,277.8	30.3	24.5	-94.24	724.9	455.0	390.1	343.5	46.52	8.384	
10,500.0	10,377.8	10,481.2	10,377.8	30.4	24.6	-94.24	724.9	455.0	390.1	343.4	46.63	8.365	
10,600.0	10,477.8	10,581.2	10,477.8	30.4	24.6	-94.24	724.9	455.0	390.1	343.3	46.74	8.346	
10,700.0	10,577.8	10,681.2	10,577.8	30.5	24.7	-94.24	724.9	455.0	390.1	343.2	46.84	8.327	
10,800.0	10,677.8	10,781.2	10,677.8	30.5	24.7	-94.24	724.9	455.0	390.1	343.1	46.95	8.308	
10,900.0	10,777.8	10,881.2	10,777.8	30.5	24.8	-94.24	724.9	455.0	390.1	343.0	47.06	8.289	
11,000.0	10,877.8	10,981.2	10,877.8	30.6	24.8	-94.24	724.9	455.0	390.1	342.9	47.16	8.271	
11,100.0	10,977.8	11,081.2	10,977.8	30.6	24.9	-94.24	724.9	455.0	390.1	342.8	47.27	8.252	
11,200.0	11,077.8	11,181.2	11,077.8	30.7	25.0	-94.24	724.9	455.0	390.1	342.7	47.38	8.233	
11,300.0	11,177.8	11,281.2	11,177.8	30.7	25.0	-94.24	724.9	455.0	390.1	342.6	47.49	8.214	
11,400.0	11,277.8	11,381.2	11,277.8	30.8	25.1	-94.24	724.9	455.0	390.1	342.5	47.59	8.196	
11,500.0	11,377.8	11,471.4	11,367.7	30.8	24.9	-95.06	719.3	454.6	391.1	343.3	47.74	8.191	
11,600.0	11,477.8	11,555.1	11,448.8	30.8	24.6	-97.91	699.3	453.0	395.8	347.5	48.34	8.189	
11,633.7	11,511.5	11,581.4	11,473.5	30.8	24.5	-99.21	690.2	452.3	398.7	350.1	48.57	8.207	
11,650.0	11,527.8	11,593.8	11,485.0	30.8	24.5	80.32	685.4	451.9	400.3	351.6	48.67	8.224	
11,675.0	11,552.8	11,612.7	11,502.1	30.8	24.4	79.06	677.6	451.3	402.9	354.1	48.77	8.262	
11,700.0	11,577.6	11,631.4	11,518.8	30.7	24.4	77.84	669.1	450.6	405.7	356.9	48.81	8.312	
11,725.0	11,602.3	11,650.0	11,535.1	30.7	24.3	76.64	660.1	449.9	408.8	359.9	48.82	8.372	
11,750.0	11,626.7	11,668.2	11,550.6	30.6	24.2	75.50	650.6	449.2	411.9	363.1	48.78	8.444	
11,775.0	11,650.8	11,686.4	11,565.8	30.5	24.2	74.39	640.6	448.4	415.2	366.5	48.71	8.524	
11,800.0	11,674.5	11,704.5	11,580.5	30.4	24.1	73.33	630.1	447.5	418.5	369.9	48.60	8.612	
11,825.0	11,697.7	11,725.0	11,596.6	30.4	24.0	72.22	617.5	446.6	422.0	373.4	48.54	8.694	
11,850.0	11,720.5	11,740.2	11,608.3	30.3	24.0	71.34	607.7	445.8	425.4	377.1	48.30	8.807	
11,875.0	11,742.7	11,757.9	11,621.4	30.2	23.9	70.41	595.9	444.8	428.9	380.8	48.12	8.913	
11,900.0	11,764.2	11,775.0	11,633.6	30.2	23.9	69.55	584.0	443.9	432.4	384.5	47.90	9.026	
11,925.0	11,785.1	11,793.1	11,646.1	30.1	23.8	68.72	571.0	442.9	435.8	388.1	47.70	9.136	
11,950.0	11,805.2	11,810.5	11,657.7	30.0	23.8	67.95	558.0	441.9	439.3	391.8	47.48	9.252	
11,975.0	11,824.5	11,825.0	11,666.9	29.9	23.7	67.28	546.9	441.0	442.6	395.5	47.17	9.383	
12,000.0	11,842.9	11,845.1	11,679.2	29.9	23.7	66.56	531.0	439.7	445.9	398.9	47.00	9.487	
12,025.0	11,860.5	11,862.3	11,689.1	29.8	23.6	65.95	517.0	438.6	449.1	402.3	46.76	9.605	
12,050.0	11,877.0	11,879.5	11,698.5	29.8	23.6	65.38	502.7	437.5	452.2	405.7	46.51	9.723	
12,075.0	11,892.6	11,900.0	11,709.1	29.7	23.6	64.84	485.1	436.1	455.2	408.9	46.34	9.824	
12,100.0	11,907.1	11,913.7	11,715.7	29.7	23.5	64.42	473.2	435.2	458.0	412.0	46.01	9.955	
12,125.0	11,920.6	11,930.7	11,723.5	29.6	23.5	64.01	458.1	434.0	460.7	415.0	45.76	10.068	
12,150.0	11,932.9	11,950.0	11,731.6	29.6	23.5	63.65	440.7	432.6	463.3	417.7	45.57	10.168	
12,175.0	11,944.1	11,964.7	11,737.3	29.5	23.4	63.36	427.2	431.6	465.7	420.4	45.28	10.286	
12,200.0	11,954.1	11,981.6	11,743.4	29.5	23.4	63.11	411.4	430.3	468.0	422.9	45.04	10.390	
12,225.0	11,962.8	12,000.0	11,749.3	29.5	23.4	62.92	394.1	429.0	470.1	425.2	44.83	10.485	
12,250.0	11,970.4	12,015.5	11,753.8	29.5	23.4	62.77	379.3	427.8	472.0	427.4	44.57	10.589	
12,275.0	11,976.6	12,032.5	11,758.2	29.5	23.4	62.67	362.9	426.5	473.7	429.4	44.35	10.682	
12,300.0	11,981.6	12,050.0	11,762.0	29.5	23.4	62.63	345.9	425.2	475.3	431.2	44.14	10.768	
12,325.0	11,985.4	12,066.3	11,765.1	29.5	23.3	62.63	329.9	423.9	476.7	432.8	43.91	10.856	
12,350.0	11,987.8	12,083.3	11,767.7	29.5	23.3	62.68	313.2	422.6	477.9	434.2	43.69	10.937	
12,375.0	11,988.9	12,100.0	11,769.7	29.5	23.3	62.78	296.6	421.3	478.9	435.4	43.48	11.015	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
12,383.7	11,989.0	12,106.2	11,770.2	29.5	23.3	62.83	290.5	420.8	479.2	435.8	43.41	11.039	
12,400.0	11,989.0	12,117.3	11,771.1	29.5	23.3	62.97	279.5	419.9	479.9	436.6	43.28	11.088	
12,500.0	11,989.0	12,212.7	11,772.1	29.6	23.4	63.46	184.3	413.2	486.3	443.2	43.10	11.283	
12,600.0	11,989.0	12,330.7	11,772.1	29.7	23.5	63.72	66.4	409.0	490.0	446.5	43.45	11.278	
12,700.0	11,989.0	12,439.9	11,772.1	29.8	23.5	63.75	-42.8	409.1	490.5	446.8	43.68	11.228	
12,800.0	11,989.0	12,539.9	11,772.1	30.0	23.7	63.75	-142.8	409.7	490.5	446.7	43.82	11.193	
12,900.0	11,989.0	12,639.9	11,772.1	30.2	23.8	63.75	-242.8	410.3	490.5	446.4	44.03	11.139	
13,000.0	11,989.0	12,739.9	11,772.1	30.4	23.9	63.75	-342.8	410.9	490.5	446.2	44.32	11.066	
13,100.0	11,989.0	12,839.9	11,772.1	30.6	24.1	63.75	-442.8	411.6	490.5	445.8	44.69	10.976	
13,200.0	11,989.0	12,939.9	11,772.1	30.9	24.3	63.75	-542.8	412.2	490.5	445.4	45.12	10.870	
13,300.0	11,989.0	13,039.9	11,772.1	31.1	24.6	63.75	-642.8	412.8	490.5	444.8	45.63	10.749	
13,400.0	11,989.0	13,139.9	11,772.1	31.4	24.9	63.75	-742.8	413.4	490.5	444.3	46.21	10.615	
13,500.0	11,989.0	13,239.9	11,772.1	31.7	25.2	63.75	-842.8	414.1	490.5	443.6	46.85	10.470	
13,600.0	11,989.0	13,339.9	11,772.1	32.1	25.5	63.75	-942.8	414.7	490.5	442.9	47.55	10.315	
13,700.0	11,989.0	13,439.9	11,772.1	32.4	25.9	63.75	-1,042.8	415.3	490.5	442.2	48.31	10.152	
13,800.0	11,989.0	13,539.9	11,772.1	32.8	26.4	63.75	-1,142.8	415.9	490.5	441.3	49.14	9.982	
13,900.0	11,989.0	13,639.9	11,772.1	33.2	26.8	63.75	-1,242.8	416.6	490.5	440.5	50.01	9.807	
14,000.0	11,989.0	13,739.9	11,772.1	33.7	27.4	63.75	-1,342.8	417.2	490.5	439.5	50.94	9.629	
14,100.0	11,989.0	13,839.9	11,772.1	34.1	27.9	63.75	-1,442.8	417.8	490.5	438.6	51.92	9.448	
14,200.0	11,989.0	13,939.9	11,772.1	34.6	28.5	63.75	-1,542.8	418.4	490.5	437.6	52.94	9.265	
14,300.0	11,989.0	14,039.9	11,772.1	35.1	29.1	63.76	-1,642.8	419.1	490.5	436.5	54.00	9.082	
14,400.0	11,989.0	14,139.9	11,772.1	35.6	29.7	63.76	-1,742.8	419.7	490.5	435.4	55.11	8.900	
14,500.0	11,989.0	14,239.9	11,772.1	36.1	30.3	63.76	-1,842.8	420.3	490.5	434.2	56.26	8.719	
14,600.0	11,989.0	14,339.9	11,772.1	36.7	31.0	63.76	-1,942.8	420.9	490.5	433.1	57.44	8.539	
14,700.0	11,989.0	14,439.9	11,772.1	37.3	31.7	63.76	-2,042.8	421.6	490.5	431.8	58.65	8.363	
14,800.0	11,989.0	14,539.9	11,772.1	37.9	32.4	63.76	-2,142.8	422.2	490.5	430.6	59.90	8.188	
14,900.0	11,989.0	14,639.9	11,772.1	38.5	33.2	63.76	-2,242.8	422.8	490.5	429.3	61.18	8.017	
15,000.0	11,989.0	14,739.9	11,772.1	39.1	33.9	63.76	-2,342.8	423.4	490.5	428.0	62.48	7.850	
15,100.0	11,989.0	14,839.9	11,772.1	39.7	34.7	63.76	-2,442.8	424.0	490.5	426.7	63.82	7.686	
15,200.0	11,989.0	14,939.9	11,772.1	40.4	35.4	63.76	-2,542.8	424.7	490.5	425.3	65.17	7.526	
15,300.0	11,989.0	15,039.9	11,772.1	41.1	36.2	63.76	-2,642.8	425.3	490.5	424.0	66.55	7.370	
15,400.0	11,989.0	15,139.9	11,772.1	41.7	37.0	63.76	-2,742.8	425.9	490.5	422.6	67.95	7.218	
15,500.0	11,989.0	15,239.9	11,772.1	42.4	37.8	63.76	-2,842.7	426.5	490.5	421.1	69.38	7.070	
15,600.0	11,989.0	15,339.9	11,772.1	43.1	38.6	63.76	-2,942.7	427.2	490.5	419.7	70.82	6.926	
15,700.0	11,989.0	15,439.9	11,772.1	43.8	39.4	63.76	-3,042.7	427.8	490.5	418.2	72.28	6.787	
15,800.0	11,989.0	15,539.9	11,772.1	44.6	40.2	63.76	-3,142.7	428.4	490.5	416.8	73.75	6.651	
15,900.0	11,989.0	15,639.9	11,772.1	45.3	41.1	63.76	-3,242.7	429.0	490.5	415.3	75.25	6.519	
16,000.0	11,989.0	15,739.9	11,772.1	46.1	41.9	63.76	-3,342.7	429.7	490.5	413.8	76.75	6.391	
16,100.0	11,989.0	15,839.9	11,772.1	46.8	42.7	63.76	-3,442.7	430.3	490.5	412.2	78.27	6.267	
16,200.0	11,989.0	15,939.9	11,772.1	47.6	43.6	63.76	-3,542.7	430.9	490.5	410.7	79.81	6.146	
16,300.0	11,989.0	16,039.9	11,772.1	48.4	44.4	63.76	-3,642.7	431.5	490.5	409.2	81.36	6.029	
16,400.0	11,989.0	16,139.9	11,772.1	49.1	45.3	63.76	-3,742.7	432.2	490.5	407.6	82.92	5.916	
16,500.0	11,989.0	16,239.9	11,772.1	49.9	46.2	63.76	-3,842.7	432.8	490.5	406.0	84.49	5.806	
16,600.0	11,989.0	16,339.9	11,772.1	50.7	47.0	63.76	-3,942.7	433.4	490.5	404.5	86.07	5.699	
16,700.0	11,989.0	16,439.9	11,772.1	51.5	47.9	63.76	-4,042.7	434.0	490.5	402.9	87.66	5.596	
16,800.0	11,989.0	16,539.9	11,772.1	52.3	48.8	63.76	-4,142.7	434.7	490.5	401.3	89.26	5.496	
16,900.0	11,989.0	16,639.9	11,772.1	53.1	49.7	63.76	-4,242.7	435.3	490.5	399.7	90.87	5.398	
17,000.0	11,989.0	16,739.9	11,772.1	54.0	50.5	63.76	-4,342.7	435.9	490.5	398.0	92.49	5.304	
17,100.0	11,989.0	16,839.9	11,772.1	54.8	51.4	63.76	-4,442.7	436.5	490.5	396.4	94.11	5.212	
17,200.0	11,989.0	16,939.9	11,772.1	55.6	52.3	63.76	-4,542.7	437.2	490.5	394.8	95.74	5.123	
17,300.0	11,989.0	17,039.9	11,772.1	56.4	53.2	63.76	-4,642.7	437.8	490.5	393.1	97.39	5.037	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,400.0	11,989.0	17,139.9	11,772.1	57.3	54.1	63.76	-4,742.7	438.4	490.5	391.5	99.03	4.953	
17,500.0	11,989.0	17,239.9	11,772.1	58.1	55.0	63.76	-4,842.7	439.0	490.5	389.8	100.69	4.872	
17,600.0	11,989.0	17,339.9	11,772.1	59.0	55.9	63.76	-4,942.7	439.7	490.5	388.2	102.35	4.793	
17,700.0	11,989.0	17,439.9	11,772.1	59.8	56.8	63.76	-5,042.7	440.3	490.5	386.5	104.01	4.716	
17,800.0	11,989.0	17,539.9	11,772.1	60.7	57.7	63.76	-5,142.7	440.9	490.5	384.9	105.69	4.641	
17,900.0	11,989.0	17,639.9	11,772.1	61.5	58.6	63.76	-5,242.7	441.5	490.5	383.2	107.36	4.569	
18,000.0	11,989.0	17,739.9	11,772.1	62.4	59.5	63.76	-5,342.7	442.2	490.5	381.5	109.05	4.498	
18,100.0	11,989.0	17,839.9	11,772.1	63.3	60.4	63.76	-5,442.7	442.8	490.5	379.8	110.73	4.430	
18,200.0	11,989.0	17,939.9	11,772.1	64.1	61.3	63.76	-5,542.7	443.4	490.5	378.1	112.43	4.363	
18,300.0	11,989.0	18,039.9	11,772.1	65.0	62.2	63.76	-5,642.7	444.0	490.5	376.4	114.12	4.298	
18,400.0	11,989.0	18,139.9	11,772.1	65.9	63.1	63.76	-5,742.7	444.6	490.5	374.7	115.82	4.235	
18,500.0	11,989.0	18,239.9	11,772.1	66.7	64.1	63.76	-5,842.7	445.3	490.5	373.0	117.53	4.174	
18,600.0	11,989.0	18,339.9	11,772.1	67.6	65.0	63.76	-5,942.7	445.9	490.5	371.3	119.24	4.114	
18,700.0	11,989.0	18,439.9	11,772.1	68.5	65.9	63.76	-6,042.7	446.5	490.5	369.6	120.95	4.056	
18,800.0	11,989.0	18,539.9	11,772.1	69.4	66.8	63.76	-6,142.7	447.1	490.6	367.9	122.67	3.999	
18,900.0	11,989.0	18,639.9	11,772.1	70.3	67.7	63.76	-6,242.7	447.8	490.6	366.2	124.39	3.944	
19,000.0	11,989.0	18,739.9	11,772.1	71.2	68.7	63.76	-6,342.7	448.4	490.6	364.4	126.11	3.890	
19,100.0	11,989.0	18,839.9	11,772.1	72.0	69.6	63.76	-6,442.7	449.0	490.6	362.7	127.84	3.837	
19,200.0	11,989.0	18,939.9	11,772.1	72.9	70.5	63.76	-6,542.7	449.6	490.6	361.0	129.57	3.786	
19,300.0	11,989.0	19,039.9	11,772.1	73.8	71.4	63.76	-6,642.7	450.3	490.6	359.3	131.30	3.736	
19,400.0	11,989.0	19,139.9	11,772.1	74.7	72.4	63.76	-6,742.7	450.9	490.6	357.5	133.03	3.687	
19,500.0	11,989.0	19,239.9	11,772.1	75.6	73.3	63.76	-6,842.7	451.5	490.6	355.8	134.77	3.640	
19,600.0	11,989.0	19,339.9	11,772.1	76.5	74.2	63.76	-6,942.7	452.1	490.6	354.0	136.51	3.594	
19,700.0	11,989.0	19,439.9	11,772.1	77.4	75.1	63.76	-7,042.7	452.8	490.6	352.3	138.25	3.548	
19,746.4	11,989.0	19,486.3	11,772.1	77.8	75.6	63.76	-7,089.0	453.1	490.6	351.6	138.92	3.531	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.4	0.0	3.0	3.0	89.66	0.1	20.0	20.0					
100.0	100.0	100.4	100.0	3.1	3.1	89.66	0.1	20.0	20.0	13.4	6.56	3.048		
200.0	200.0	200.4	200.0	3.3	3.2	89.66	0.1	20.0	20.0	13.1	6.91	2.895 Normal Operations		
300.0	300.0	300.4	300.0	3.6	3.3	89.66	0.1	20.0	20.0	12.8	7.24	2.763 Normal Operations		
400.0	400.0	400.4	400.0	3.8	3.4	89.66	0.1	20.0	20.0	12.4	7.56	2.647 Normal Operations		
500.0	500.0	500.4	500.0	4.0	3.6	89.66	0.1	20.0	20.0	12.1	7.86	2.544 Normal Operations		
600.0	600.0	600.4	600.0	4.1	3.7	89.66	0.1	20.0	20.0	11.8	8.16	2.452 Caution - Monitor Closely		
700.0	700.0	700.4	700.0	4.3	3.8	89.66	0.1	20.0	20.0	11.6	8.44	2.369 Caution - Monitor Closely		
800.0	800.0	800.4	800.0	4.5	3.9	89.66	0.1	20.0	20.0	11.3	8.72	2.294 Caution - Monitor Closely		
900.0	900.0	900.4	900.0	4.7	4.0	89.66	0.1	20.0	20.0	11.0	8.99	2.225 Caution - Monitor Closely		
1,000.0	1,000.0	1,000.4	1,000.0	4.8	4.2	89.66	0.1	20.0	20.0	10.7	9.25	2.161 Caution - Monitor Closely		
1,100.0	1,100.0	1,100.4	1,100.0	5.0	4.3	89.66	0.1	20.0	20.0	10.5	9.51	2.103 Caution - Monitor Closely		
1,200.0	1,200.0	1,200.4	1,200.0	5.2	4.4	89.66	0.1	20.0	20.0	10.2	9.76	2.049 Caution - Monitor Closely		
1,300.0	1,300.0	1,300.4	1,300.0	5.3	4.5	89.66	0.1	20.0	20.0	10.0	10.01	1.999 Caution - Monitor Closely		
1,400.0	1,400.0	1,400.4	1,400.0	5.5	4.6	89.66	0.1	20.0	20.0	9.8	10.25	1.952 Caution - Monitor Closely		
1,500.0	1,500.0	1,500.4	1,500.0	5.6	4.8	89.66	0.1	20.0	20.0	9.5	10.49	1.908 Caution - Monitor Closely		
1,600.0	1,600.0	1,600.4	1,600.0	5.8	4.9	89.66	0.1	20.0	20.0	9.3	10.72	1.866 Caution - Monitor Closely		
1,700.0	1,700.0	1,700.4	1,700.0	5.9	5.0	89.66	0.1	20.0	20.0	9.1	10.95	1.827 Caution - Monitor Closely		
1,800.0	1,800.0	1,800.4	1,800.0	6.0	5.1	89.66	0.1	20.0	20.0	8.8	11.17	1.790 Caution - Monitor Closely		
1,900.0	1,900.0	1,900.4	1,900.0	6.2	5.2	89.66	0.1	20.0	20.0	8.6	11.39	1.756 Caution - Monitor Closely		
1,966.5	1,966.5	1,966.9	1,966.5	6.3	5.3	89.66	0.1	20.0	20.0	8.5	11.54	1.734 Caution - Monitor Closely		
2,000.0	2,000.0	2,000.4	2,000.0	6.3	5.3	89.66	0.1	20.0	20.0	8.4	11.61	1.723 Caution - Monitor Closely		
2,050.0	2,050.0	2,050.3	2,049.9	6.4	5.4	88.74	0.4	20.1	20.1	8.4	11.68	1.720 Caution - Monitor Closely		
2,100.0	2,100.0	2,100.2	2,099.8	6.4	5.5	-3.97	1.4	20.3	20.1	8.3	11.75	1.707 Caution - Monitor Closely		
2,200.0	2,200.0	2,200.0	2,199.5	6.5	5.6	-15.70	5.2	21.4	19.1	7.0	12.08	1.583 Caution - Monitor Closely		
2,268.9	2,268.7	2,268.4	2,267.8	6.7	5.7	-29.66	9.2	22.4	18.6	6.3	12.33	1.512 Caution - Monitor Closely, CC, ES, SF		
2,300.0	2,299.8	2,299.3	2,298.6	6.7	5.7	-37.05	11.4	23.2	18.9	6.4	12.43	1.517 Caution - Monitor Closely		
2,383.3	2,382.9	2,381.8	2,380.8	6.8	5.9	-54.96	17.5	26.7	21.4	8.7	12.75	1.682 Caution - Monitor Closely		
2,400.0	2,399.5	2,398.4	2,397.3	6.8	5.9	-54.60	18.9	27.7	22.3	9.5	12.80	1.739 Caution - Monitor Closely		
2,500.0	2,499.0	2,497.5	2,495.8	7.1	6.1	-49.85	27.4	35.5	27.2	14.0	13.20	2.063 Caution - Monitor Closely		
2,600.0	2,598.2	2,596.8	2,594.0	7.3	6.2	-43.24	36.9	46.5	31.3	17.8	13.54	2.313 Caution - Monitor Closely		
2,700.0	2,697.0	2,696.2	2,691.7	7.5	6.4	-35.55	47.3	60.8	34.0	20.1	13.90	2.446 Caution - Monitor Closely		
2,800.0	2,795.3	2,795.4	2,788.7	7.8	6.6	-26.30	58.7	78.4	35.4	21.1	14.31	2.472 Caution - Monitor Closely		
2,890.9	2,884.1	2,885.3	2,875.9	8.1	6.7	-15.94	69.9	97.1	36.0	21.2	14.73	2.441 Caution - Monitor Closely		
2,900.0	2,892.9	2,894.4	2,884.7	8.1	6.8	-15.04	71.0	99.1	36.0	21.3	14.76	2.440 Caution - Monitor Closely		
3,000.0	2,990.3	2,994.0	2,980.9	8.4	6.9	-5.01	84.0	121.9	37.7	22.4	15.31	2.464 Caution - Monitor Closely		
3,100.0	3,087.6	3,093.8	3,077.1	8.7	7.1	3.93	97.0	144.6	40.5	24.7	15.80	2.563 Normal Operations		
3,200.0	3,185.0	3,193.6	3,173.4	9.0	7.2	11.56	110.0	167.4	44.1	27.8	16.28	2.710 Normal Operations		
3,300.0	3,282.3	3,293.4	3,269.7	9.4	7.4	17.95	122.9	190.2	48.4	31.7	16.75	2.891 Normal Operations		
3,400.0	3,379.7	3,393.1	3,365.9	9.7	7.6	23.24	135.9	213.0	53.2	36.0	17.19	3.094		
3,500.0	3,477.0	3,492.9	3,462.2	10.0	7.7	27.64	148.9	235.8	58.4	40.7	17.63	3.310		
3,600.0	3,574.4	3,592.7	3,558.5	10.4	7.9	31.30	161.9	258.6	63.8	45.7	18.06	3.533		
3,700.0	3,671.7	3,692.5	3,654.7	10.8	8.1	34.38	174.8	281.4	69.5	51.0	18.48	3.758		
3,800.0	3,769.1	3,792.2	3,751.0	11.1	8.2	36.98	187.8	304.1	75.3	56.4	18.91	3.983		
3,900.0	3,866.4	3,892.0	3,847.3	11.5	8.4	39.21	200.8	326.9	81.3	61.9	19.33	4.205		
4,000.0	3,963.8	3,991.8	3,943.5	11.9	8.6	41.13	213.8	349.7	87.4	67.6	19.75	4.422		
4,100.0	4,061.1	4,091.6	4,039.8	12.3	8.8	42.80	226.7	372.5	93.5	73.3	20.18	4.634		
4,200.0	4,158.5	4,191.3	4,136.1	12.7	9.0	44.27	239.7	395.3	99.7	79.1	20.61	4.840		
4,300.0	4,255.8	4,291.1	4,232.4	13.1	9.2	45.56	252.7	418.1	106.0	85.0	21.04	5.040		
4,400.0	4,353.2	4,390.9	4,328.6	13.6	9.4	46.70	265.7	440.8	112.4	90.9	21.47	5.234		
4,500.0	4,450.5	4,490.7	4,424.9	14.0	9.6	47.72	278.6	463.6	118.7	96.8	21.90	5.421		

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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	
4,600.0	4,547.9	4,590.4	4,521.2	14.4	9.7	48.64	291.6	486.4	125.1	102.8	22.34	5.602	
4,700.0	4,645.2	4,690.2	4,617.4	14.8	9.9	49.47	304.6	509.2	131.6	108.8	22.78	5.776	
4,800.0	4,742.6	4,790.0	4,713.7	15.3	10.1	50.22	317.6	532.0	138.0	114.8	23.22	5.945	
4,900.0	4,839.9	4,889.8	4,810.0	15.7	10.3	50.91	330.5	554.8	144.5	120.9	23.67	6.107	
5,000.0	4,937.3	4,989.5	4,906.2	16.1	10.5	51.53	343.5	577.6	151.0	126.9	24.11	6.264	
5,100.0	5,034.6	5,089.3	5,002.5	16.6	10.7	52.11	356.5	600.3	157.5	133.0	24.56	6.415	
5,200.0	5,131.9	5,189.1	5,098.8	17.0	11.0	52.63	369.5	623.1	164.1	139.1	25.01	6.560	
5,300.0	5,229.3	5,288.9	5,195.0	17.5	11.2	53.12	382.4	645.9	170.6	145.2	25.46	6.701	
5,400.0	5,326.6	5,388.7	5,291.3	17.9	11.4	53.57	395.4	668.7	177.2	151.3	25.92	6.836	
5,500.0	5,424.0	5,488.4	5,387.6	18.4	11.6	53.99	408.4	691.5	183.7	157.4	26.38	6.967	
5,600.0	5,521.3	5,588.2	5,483.8	18.8	11.8	54.38	421.4	714.3	190.3	163.5	26.83	7.093	
5,700.0	5,618.7	5,688.0	5,580.1	19.3	12.0	54.75	434.3	737.1	196.9	169.6	27.29	7.215	
5,800.0	5,716.0	5,787.8	5,676.4	19.7	12.2	55.09	447.3	759.8	203.5	175.7	27.75	7.332	
5,900.0	5,813.4	5,887.5	5,772.6	20.2	12.4	55.41	460.3	782.6	210.1	181.9	28.22	7.446	
6,000.0	5,910.7	5,987.3	5,868.9	20.6	12.6	55.71	473.3	805.4	216.7	188.0	28.68	7.556	
6,100.0	6,008.1	6,087.1	5,965.2	21.1	12.8	55.99	486.2	828.2	223.3	194.2	29.15	7.662	
6,200.0	6,105.4	6,186.9	6,061.5	21.6	13.1	56.25	499.2	851.0	229.9	200.3	29.61	7.764	
6,300.0	6,202.8	6,286.6	6,157.7	22.0	13.3	56.50	512.2	873.8	236.6	206.5	30.08	7.864	
6,400.0	6,300.1	6,386.4	6,254.0	22.5	13.5	56.74	525.2	896.5	243.2	212.6	30.55	7.960	
6,500.0	6,397.5	6,486.2	6,350.3	22.9	13.7	56.97	538.2	919.3	249.8	218.8	31.02	8.053	
6,600.0	6,494.8	6,586.0	6,446.5	23.4	13.9	57.18	551.1	942.1	256.4	224.9	31.49	8.143	
6,700.0	6,592.2	6,685.7	6,542.8	23.9	14.1	57.38	564.1	964.9	263.1	231.1	31.97	8.230	
6,799.6	6,689.2	6,785.2	6,638.7	24.3	14.4	57.57	577.0	987.6	269.7	237.3	32.44	8.314	
6,800.0	6,689.5	6,785.5	6,639.1	24.3	14.4	57.57	577.1	987.7	269.7	237.3	32.44	8.314	
6,900.0	6,787.1	6,885.3	6,735.3	24.8	14.6	57.66	590.0	1,010.5	276.8	243.9	32.94	8.403	
7,000.0	6,885.0	6,984.9	6,831.5	25.3	14.8	57.46	603.0	1,033.2	284.9	251.4	33.50	8.503	
7,100.0	6,983.2	7,084.5	6,927.5	25.7	15.0	57.00	616.0	1,056.0	293.9	259.7	34.12	8.613	
7,200.0	7,081.8	7,183.9	7,023.4	26.2	15.2	56.29	628.9	1,078.7	303.8	269.1	34.79	8.735	
7,300.0	7,180.6	7,283.1	7,119.2	26.6	15.5	55.39	641.8	1,101.3	314.9	279.4	35.50	8.869	
7,400.0	7,279.7	7,383.2	7,215.7	27.0	15.7	54.30	654.8	1,124.1	327.0	290.7	36.25	9.018	
7,500.0	7,379.0	7,486.7	7,316.0	27.4	15.9	53.16	667.6	1,146.7	339.2	302.2	37.04	9.160	
7,600.0	7,478.5	7,590.6	7,417.0	27.8	16.1	52.05	679.6	1,167.7	351.3	313.5	37.80	9.294	
7,700.0	7,578.2	7,694.8	7,518.8	28.2	16.3	50.98	690.7	1,187.1	363.2	324.7	38.55	9.423	
7,800.0	7,678.0	7,799.3	7,621.2	28.5	16.6	49.94	700.8	1,205.0	374.9	335.6	39.26	9.549	
7,900.0	7,777.9	7,904.0	7,724.2	28.9	16.8	48.92	710.1	1,221.3	386.4	346.4	39.95	9.672	
8,000.0	7,877.8	8,009.0	7,827.9	29.2	17.0	47.91	718.5	1,236.0	397.6	357.0	40.60	9.794	
8,100.0	7,977.8	8,114.3	7,932.1	29.4	17.2	46.93	726.0	1,249.1	408.7	367.5	41.19	9.922	
8,122.2	8,000.0	8,137.7	7,955.3	29.4	17.2	93.68	727.5	1,251.8	411.1	369.8	41.29	9.956	
8,200.0	8,077.8	8,219.9	8,036.9	29.5	17.4	92.91	732.5	1,260.6	419.1	377.5	41.61	10.074	
8,300.0	8,177.8	8,326.0	8,142.4	29.5	17.6	92.10	738.1	1,270.4	428.2	386.2	41.96	10.204	
8,400.0	8,277.8	8,432.5	8,248.4	29.5	17.8	91.45	742.7	1,278.5	435.7	393.4	42.25	10.311	
8,500.0	8,377.8	8,539.3	8,354.9	29.6	17.9	90.95	746.4	1,285.0	441.6	399.1	42.49	10.394	
8,600.0	8,477.8	8,646.3	8,461.8	29.6	18.1	90.59	749.1	1,289.7	446.0	403.3	42.68	10.451	
8,700.0	8,577.8	8,753.5	8,568.9	29.6	18.2	90.37	750.8	1,292.7	448.8	406.0	42.81	10.483	
8,800.0	8,677.8	8,860.8	8,676.2	29.7	18.4	90.28	751.5	1,294.0	450.0	407.1	42.88	10.493	
8,900.0	8,777.8	8,962.4	8,777.8	29.7	18.4	90.28	751.5	1,294.0	450.0	407.0	42.96	10.475	
9,000.0	8,877.8	9,062.4	8,877.8	29.8	18.5	90.28	751.5	1,294.0	450.0	406.9	43.06	10.451	
9,100.0	8,977.8	9,162.4	8,977.8	29.8	18.5	90.28	751.5	1,294.0	450.0	406.9	43.15	10.429	
9,200.0	9,077.8	9,262.4	9,077.8	29.8	18.6	90.28	751.5	1,294.0	450.0	406.8	43.24	10.406	
9,300.0	9,177.8	9,362.4	9,177.8	29.9	18.6	90.28	751.5	1,294.0	450.0	406.7	43.34	10.384	
9,400.0	9,277.8	9,462.4	9,277.8	29.9	18.7	90.28	751.5	1,294.0	450.0	406.6	43.43	10.361	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Distance (usft)	Factor
9,500.0	9,377.8	9,562.4	9,377.8	30.0	18.8	90.28	751.5	1,294.0	450.0	406.5		43.53	10.339
9,600.0	9,477.8	9,662.4	9,477.8	30.0	18.8	90.28	751.5	1,294.0	450.0	406.4		43.62	10.316
9,700.0	9,577.8	9,762.4	9,577.8	30.0	18.9	90.28	751.5	1,294.0	450.0	406.3		43.72	10.294
9,800.0	9,677.8	9,862.4	9,677.8	30.1	18.9	90.28	751.5	1,294.0	450.0	406.2		43.81	10.271
9,900.0	9,777.8	9,962.4	9,777.8	30.1	19.0	90.28	751.5	1,294.0	450.0	406.1		43.91	10.248
10,000.0	9,877.8	10,062.4	9,877.8	30.2	19.0	90.28	751.5	1,294.0	450.0	406.0		44.01	10.226
10,100.0	9,977.8	10,162.4	9,977.8	30.2	19.1	90.28	751.5	1,294.0	450.0	405.9		44.10	10.203
10,200.0	10,077.8	10,262.4	10,077.8	30.2	19.1	90.28	751.5	1,294.0	450.0	405.8		44.20	10.181
10,300.0	10,177.8	10,362.4	10,177.8	30.3	19.2	90.28	751.5	1,294.0	450.0	405.7		44.30	10.159
10,400.0	10,277.8	10,462.4	10,277.8	30.3	19.3	90.28	751.5	1,294.0	450.0	405.6		44.40	10.136
10,500.0	10,377.8	10,562.4	10,377.8	30.4	19.3	90.28	751.5	1,294.0	450.0	405.5		44.49	10.114
10,600.0	10,477.8	10,662.4	10,477.8	30.4	19.4	90.28	751.5	1,294.0	450.0	405.4		44.59	10.091
10,700.0	10,577.8	10,762.4	10,577.8	30.5	19.4	90.28	751.5	1,294.0	450.0	405.3		44.69	10.069
10,800.0	10,677.8	10,862.4	10,677.8	30.5	19.5	90.28	751.5	1,294.0	450.0	405.2		44.79	10.046
10,900.0	10,777.8	10,962.4	10,777.8	30.5	19.6	90.28	751.5	1,294.0	450.0	405.1		44.89	10.024
11,000.0	10,877.8	11,062.4	10,877.8	30.6	19.6	90.28	751.5	1,294.0	450.0	405.0		44.99	10.002
11,100.0	10,977.8	11,162.4	10,977.8	30.6	19.7	90.28	751.5	1,294.0	450.0	404.9		45.09	9.979
11,200.0	11,077.8	11,262.4	11,077.8	30.7	19.7	90.28	751.5	1,294.0	450.0	404.8		45.19	9.957
11,300.0	11,177.8	11,362.4	11,177.8	30.7	19.8	90.28	751.5	1,294.0	450.0	404.7		45.30	9.935
11,400.0	11,277.8	11,462.4	11,277.8	30.8	19.8	90.28	751.5	1,294.0	450.0	404.6		45.40	9.913
11,410.0	11,287.8	11,472.4	11,287.8	30.8	19.9	90.28	751.5	1,294.0	450.0	404.6		45.41	9.911
11,500.0	11,377.8	11,561.2	11,376.5	30.8	19.8	90.87	746.9	1,294.0	450.1	404.8		45.32	9.931
11,600.0	11,477.8	11,654.4	11,466.9	30.8	19.7	93.64	725.0	1,294.2	451.2	406.5		44.71	10.092
11,633.7	11,511.5	11,683.5	11,494.0	30.8	19.7	94.95	714.7	1,294.2	452.3	407.8		44.42	10.181
11,650.0	11,527.8	11,697.1	11,506.6	30.8	19.7	-83.95	709.2	1,294.3	452.9	408.6		44.28	10.229
11,675.0	11,552.8	11,717.9	11,525.3	30.8	19.7	-82.83	700.3	1,294.3	454.1	410.0		44.08	10.301
11,700.0	11,577.6	11,738.3	11,543.3	30.7	19.7	-81.73	690.7	1,294.4	455.4	411.5		43.91	10.371
11,725.0	11,602.3	11,758.5	11,560.7	30.7	19.7	-80.66	680.5	1,294.4	456.9	413.1		43.77	10.438
11,750.0	11,626.7	11,778.4	11,577.5	30.6	19.6	-79.61	669.6	1,294.5	458.5	414.8		43.66	10.500
11,775.0	11,650.8	11,800.0	11,595.1	30.5	19.6	-78.52	657.2	1,294.6	460.2	416.6		43.54	10.570
11,800.0	11,674.5	11,817.7	11,609.0	30.4	19.6	-77.60	646.4	1,294.7	462.0	418.4		43.54	10.609
11,825.0	11,697.7	11,837.0	11,623.9	30.4	19.6	-76.64	634.0	1,294.7	463.8	420.3		43.53	10.654
11,850.0	11,720.5	11,856.1	11,638.0	30.3	19.6	-75.72	621.1	1,294.8	465.7	422.2		43.55	10.693
11,875.0	11,742.7	11,875.0	11,651.5	30.2	19.6	-74.83	607.9	1,294.9	467.7	424.1		43.61	10.724
11,900.0	11,764.2	11,893.9	11,664.5	30.2	19.6	-73.98	594.1	1,295.0	469.6	425.9		43.69	10.749
11,925.0	11,785.1	11,912.6	11,676.7	30.1	19.6	-73.16	580.0	1,295.1	471.6	427.8		43.81	10.766
11,950.0	11,805.2	11,931.2	11,688.3	30.0	19.6	-72.38	565.5	1,295.2	473.5	429.6		43.95	10.775
11,975.0	11,824.5	11,950.0	11,699.5	29.9	19.6	-71.64	550.4	1,295.3	475.5	431.4		44.10	10.780
12,000.0	11,842.9	11,968.0	11,709.6	29.9	19.6	-70.96	535.5	1,295.4	477.3	433.0		44.31	10.772
12,025.0	11,860.5	11,986.2	11,719.3	29.8	19.6	-70.30	520.1	1,295.4	479.2	434.6		44.53	10.760
12,050.0	11,877.0	12,004.3	11,728.3	29.8	19.6	-69.69	504.4	1,295.5	480.9	436.2		44.77	10.742
12,075.0	11,892.6	12,025.0	11,737.9	29.7	19.6	-69.08	486.0	1,295.7	482.6	437.7		44.94	10.739
12,100.0	11,907.1	12,040.3	11,744.5	29.7	19.6	-68.61	472.2	1,295.7	484.2	438.9		45.31	10.686
12,125.0	11,920.6	12,058.3	11,751.6	29.6	19.6	-68.13	455.8	1,295.9	485.6	440.0		45.60	10.651
12,150.0	11,932.9	12,075.0	11,757.7	29.6	19.6	-67.72	440.2	1,295.9	487.0	441.1		45.94	10.601
12,175.0	11,944.1	12,093.9	11,764.0	29.5	19.6	-67.32	422.3	1,296.1	488.2	442.0		46.22	10.564
12,200.0	11,954.1	12,111.6	11,769.2	29.5	19.6	-66.97	405.4	1,296.2	489.4	442.8		46.54	10.515
12,225.0	11,962.8	12,129.3	11,773.7	29.5	19.6	-66.68	388.3	1,296.3	490.3	443.5		46.86	10.463
12,250.0	11,970.4	12,150.0	11,778.2	29.5	19.7	-66.41	368.1	1,296.4	491.2	444.1		47.10	10.429
12,275.0	11,976.6	12,164.6	11,780.9	29.5	19.7	-66.23	353.7	1,296.5	491.8	444.3		47.53	10.349
12,300.0	11,981.6	12,182.3	11,783.5	29.5	19.7	-66.07	336.3	1,296.6	492.4	444.5		47.85	10.289

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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							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		
12,325.0	11,985.4	12,200.0	11,785.5	29.5	19.7	-65.96	318.6	1,296.7	492.7	444.6	48.17	10.228		
12,350.0	11,987.8	12,217.4	11,786.8	29.5	19.7	-65.90	301.3	1,296.8	493.0	444.5	48.50	10.164		
12,375.0	11,988.9	12,235.0	11,787.5	29.5	19.8	-65.88	283.7	1,296.9	493.0	444.2	48.81	10.101		
12,383.7	11,989.0	12,241.1	11,787.6	29.5	19.8	-65.89	277.6	1,297.0	493.0	444.1	48.92	10.079		
12,389.3	11,989.0	12,245.3	11,787.6	29.5	19.8	-65.89	273.4	1,297.0	493.0	444.0	48.98	10.065		
12,400.0	11,989.0	12,256.0	11,787.6	29.5	19.8	-65.89	262.8	1,297.1	493.0	444.0	49.02	10.056		
12,500.0	11,989.0	12,356.0	11,787.6	29.6	19.9	-65.89	162.8	1,297.7	493.0	443.5	49.48	9.964		
12,600.0	11,989.0	12,456.0	11,787.6	29.7	20.1	-65.89	62.8	1,298.3	493.0	443.0	49.99	9.861		
12,700.0	11,989.0	12,556.0	11,787.6	29.8	20.3	-65.89	-37.2	1,298.9	493.0	442.4	50.56	9.751		
12,800.0	11,989.0	12,656.0	11,787.6	30.0	20.5	-65.89	-137.2	1,299.6	493.0	441.8	51.18	9.633		
12,900.0	11,989.0	12,756.0	11,787.6	30.2	20.7	-65.89	-237.2	1,300.2	493.0	441.1	51.85	9.508		
13,000.0	11,989.0	12,856.0	11,787.6	30.4	21.0	-65.89	-337.2	1,300.8	493.0	440.4	52.57	9.378		
13,100.0	11,989.0	12,956.0	11,787.6	30.6	21.2	-65.89	-437.2	1,301.4	493.0	439.7	53.33	9.244		
13,200.0	11,989.0	13,056.0	11,787.6	30.9	21.5	-65.89	-537.2	1,302.1	493.0	438.9	54.14	9.106		
13,300.0	11,989.0	13,156.0	11,787.6	31.1	21.8	-65.89	-637.2	1,302.7	493.0	438.0	54.99	8.965		
13,400.0	11,989.0	13,256.0	11,787.6	31.4	22.2	-65.89	-737.2	1,303.3	493.0	437.1	55.89	8.822		
13,500.0	11,989.0	13,356.0	11,787.6	31.7	22.5	-65.89	-837.2	1,303.9	493.0	436.2	56.82	8.677		
13,600.0	11,989.0	13,456.0	11,787.6	32.1	22.9	-65.89	-937.2	1,304.6	493.0	435.2	57.78	8.532		
13,700.0	11,989.0	13,556.0	11,787.6	32.4	23.3	-65.89	-1,037.2	1,305.2	493.0	434.2	58.79	8.386		
13,800.0	11,989.0	13,656.0	11,787.6	32.8	23.7	-65.89	-1,137.2	1,305.8	493.0	433.2	59.82	8.241		
13,900.0	11,989.0	13,756.0	11,787.6	33.2	24.1	-65.89	-1,237.2	1,306.4	493.0	432.1	60.89	8.097		
14,000.0	11,989.0	13,856.0	11,787.6	33.7	24.6	-65.89	-1,337.2	1,307.1	493.0	431.0	61.99	7.953		
14,100.0	11,989.0	13,956.0	11,787.6	34.1	25.1	-65.89	-1,437.2	1,307.7	493.0	429.9	63.11	7.812		
14,200.0	11,989.0	14,056.0	11,787.6	34.6	25.6	-65.89	-1,537.2	1,308.3	493.0	428.7	64.26	7.672		
14,300.0	11,989.0	14,156.0	11,787.6	35.1	26.1	-65.89	-1,637.2	1,308.9	493.0	427.6	65.44	7.534		
14,400.0	11,989.0	14,256.0	11,787.6	35.6	26.6	-65.89	-1,737.2	1,309.6	493.0	426.4	66.64	7.398		
14,500.0	11,989.0	14,356.0	11,787.6	36.1	27.2	-65.89	-1,837.2	1,310.2	493.0	425.1	67.86	7.265		
14,600.0	11,989.0	14,456.0	11,787.6	36.7	27.7	-65.89	-1,937.2	1,310.8	493.0	423.9	69.11	7.134		
14,700.0	11,989.0	14,556.0	11,787.6	37.3	28.3	-65.89	-2,037.2	1,311.5	493.0	422.6	70.37	7.005		
14,800.0	11,989.0	14,656.0	11,787.6	37.9	28.9	-65.89	-2,137.2	1,312.1	493.0	421.3	71.66	6.880		
14,900.0	11,989.0	14,756.0	11,787.6	38.5	29.5	-65.89	-2,237.2	1,312.7	493.0	420.0	72.96	6.757		
15,000.0	11,989.0	14,856.0	11,787.6	39.1	30.1	-65.89	-2,337.2	1,313.3	493.0	418.7	74.28	6.637		
15,100.0	11,989.0	14,956.0	11,787.6	39.7	30.8	-65.89	-2,437.2	1,314.0	493.0	417.4	75.62	6.520		
15,200.0	11,989.0	15,056.0	11,787.6	40.4	31.4	-65.89	-2,537.2	1,314.6	493.0	416.0	76.97	6.405		
15,300.0	11,989.0	15,156.0	11,787.6	41.1	32.1	-65.89	-2,637.2	1,315.2	493.0	414.7	78.33	6.294		
15,400.0	11,989.0	15,256.0	11,787.6	41.7	32.7	-65.89	-2,737.2	1,315.8	493.0	413.3	79.71	6.185		
15,500.0	11,989.0	15,356.0	11,787.6	42.4	33.4	-65.89	-2,837.2	1,316.5	493.0	411.9	81.11	6.078		
15,600.0	11,989.0	15,456.0	11,787.6	43.1	34.1	-65.89	-2,937.2	1,317.1	493.0	410.5	82.51	5.975		
15,700.0	11,989.0	15,556.0	11,787.6	43.8	34.7	-65.89	-3,037.2	1,317.7	493.0	409.1	83.93	5.874		
15,800.0	11,989.0	15,656.0	11,787.6	44.6	35.4	-65.89	-3,137.2	1,318.3	493.0	407.6	85.36	5.775		
15,900.0	11,989.0	15,756.0	11,787.6	45.3	36.1	-65.89	-3,237.2	1,319.0	493.0	406.2	86.80	5.680		
16,000.0	11,989.0	15,856.0	11,787.6	46.1	36.9	-65.89	-3,337.2	1,319.6	493.0	404.7	88.25	5.586		
16,100.0	11,989.0	15,956.0	11,787.6	46.8	37.6	-65.89	-3,437.2	1,320.2	493.0	403.3	89.71	5.495		
16,200.0	11,989.0	16,056.0	11,787.6	47.6	38.3	-65.89	-3,537.2	1,320.8	493.0	401.8	91.18	5.407		
16,300.0	11,989.0	16,156.0	11,787.6	48.4	39.0	-65.89	-3,637.2	1,321.5	493.0	400.3	92.66	5.321		
16,400.0	11,989.0	16,256.0	11,787.6	49.1	39.7	-65.89	-3,737.2	1,322.1	493.0	398.9	94.14	5.237		
16,500.0	11,989.0	16,356.0	11,787.6	49.9	40.5	-65.89	-3,837.2	1,322.7	493.0	397.4	95.64	5.155		
16,600.0	11,989.0	16,456.0	11,787.6	50.7	41.2	-65.89	-3,937.2	1,323.3	493.0	395.9	97.14	5.075		
16,700.0	11,989.0	16,556.0	11,787.6	51.5	42.0	-65.89	-4,037.2	1,324.0	493.0	394.3	98.65	4.998		
16,800.0	11,989.0	16,656.0	11,787.6	52.3	42.7	-65.89	-4,137.2	1,324.6	493.0	392.8	100.17	4.922		
16,900.0	11,989.0	16,756.0	11,787.6	53.1	43.5	-65.89	-4,237.2	1,325.2	493.0	391.3	101.69	4.848		

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			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
17,000.0	11,989.0	16,856.0	11,787.6	54.0	44.2	-65.89	-4,337.2	1,325.8	493.0	389.8	103.22	4.776	
17,100.0	11,989.0	16,956.0	11,787.6	54.8	45.0	-65.89	-4,437.2	1,326.5	493.0	388.2	104.75	4.706	
17,200.0	11,989.0	17,056.0	11,787.6	55.6	45.8	-65.89	-4,537.2	1,327.1	493.0	386.7	106.29	4.638	
17,300.0	11,989.0	17,156.0	11,787.6	56.4	46.5	-65.89	-4,637.2	1,327.7	493.0	385.2	107.84	4.572	
17,400.0	11,989.0	17,256.0	11,787.6	57.3	47.3	-65.89	-4,737.2	1,328.3	493.0	383.6	109.39	4.507	
17,500.0	11,989.0	17,356.0	11,787.6	58.1	48.1	-65.89	-4,837.1	1,329.0	493.0	382.1	110.95	4.444	
17,600.0	11,989.0	17,456.0	11,787.6	59.0	48.9	-65.89	-4,937.1	1,329.6	493.0	380.5	112.51	4.382	
17,700.0	11,989.0	17,556.0	11,787.6	59.8	49.6	-65.89	-5,037.1	1,330.2	493.0	378.9	114.08	4.322	
17,800.0	11,989.0	17,656.0	11,787.6	60.7	50.4	-65.89	-5,137.1	1,330.9	493.0	377.4	115.65	4.263	
17,900.0	11,989.0	17,756.0	11,787.6	61.5	51.2	-65.89	-5,237.1	1,331.5	493.0	375.8	117.22	4.206	
18,000.0	11,989.0	17,856.0	11,787.6	62.4	52.0	-65.89	-5,337.1	1,332.1	493.0	374.2	118.80	4.150	
18,100.0	11,989.0	17,956.0	11,787.6	63.3	52.8	-65.89	-5,437.1	1,332.7	493.0	372.6	120.38	4.095	
18,200.0	11,989.0	18,056.0	11,787.6	64.1	53.6	-65.89	-5,537.1	1,333.4	493.0	371.0	121.97	4.042	
18,300.0	11,989.0	18,156.0	11,787.6	65.0	54.4	-65.89	-5,637.1	1,334.0	493.0	369.4	123.56	3.990	
18,400.0	11,989.0	18,256.0	11,787.6	65.9	55.2	-65.89	-5,737.1	1,334.6	493.0	367.8	125.16	3.939	
18,500.0	11,989.0	18,356.0	11,787.6	66.7	56.0	-65.89	-5,837.1	1,335.2	493.0	366.2	126.75	3.889	
18,600.0	11,989.0	18,456.0	11,787.6	67.6	56.8	-65.89	-5,937.1	1,335.9	493.0	364.6	128.35	3.841	
18,700.0	11,989.0	18,556.0	11,787.6	68.5	57.6	-65.89	-6,037.1	1,336.5	493.0	363.0	129.96	3.794	
18,800.0	11,989.0	18,656.0	11,787.6	69.4	58.4	-65.89	-6,137.1	1,337.1	493.0	361.4	131.56	3.747	
18,900.0	11,989.0	18,756.0	11,787.6	70.3	59.2	-65.89	-6,237.1	1,337.7	493.0	359.8	133.17	3.702	
19,000.0	11,989.0	18,856.0	11,787.6	71.2	60.0	-65.89	-6,337.1	1,338.4	493.0	358.2	134.79	3.658	
19,100.0	11,989.0	18,956.0	11,787.6	72.0	60.8	-65.89	-6,437.1	1,339.0	493.0	356.6	136.40	3.614	
19,200.0	11,989.0	19,056.0	11,787.6	72.9	61.6	-65.89	-6,537.1	1,339.6	493.0	355.0	138.02	3.572	
19,300.0	11,989.0	19,156.0	11,787.6	73.8	62.4	-65.89	-6,637.1	1,340.2	493.0	353.4	139.64	3.530	
19,400.0	11,989.0	19,256.0	11,787.6	74.7	63.2	-65.89	-6,737.1	1,340.9	493.0	351.7	141.26	3.490	
19,500.0	11,989.0	19,356.0	11,787.6	75.6	64.1	-65.89	-6,837.1	1,341.5	493.0	350.1	142.89	3.450	
19,600.0	11,989.0	19,456.0	11,787.6	76.5	64.9	-65.89	-6,937.1	1,342.1	493.0	348.5	144.52	3.411	
19,700.0	11,989.0	19,556.0	11,787.6	77.4	65.7	-65.89	-7,037.1	1,342.7	493.0	346.9	146.15	3.373	
19,704.7	11,989.0	19,560.7	11,787.6	77.5	65.7	-65.89	-7,041.8	1,342.8	493.0	346.8	146.21	3.372	
19,746.4	11,989.0	19,602.3	11,787.6	77.8	66.1	-65.89	-7,083.4	1,343.0	493.0	346.3	146.74	3.360	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	1.0	0.0	3.0	3.0	89.64	0.2	40.0	40.0				
100.0	100.0	101.0	100.0	3.1	3.1	89.64	0.2	40.0	40.0	33.4	6.62	6.040	
200.0	200.0	201.0	200.0	3.3	3.3	89.64	0.2	40.0	40.0	32.9	7.07	5.655	
300.0	300.0	301.0	300.0	3.6	3.6	89.64	0.2	40.0	40.0	32.5	7.50	5.334	
400.0	400.0	401.0	400.0	3.8	3.8	89.64	0.2	40.0	40.0	32.1	7.90	5.061	
500.0	500.0	501.0	500.0	4.0	4.0	89.64	0.2	40.0	40.0	31.7	8.29	4.825	
600.0	600.0	601.0	600.0	4.1	4.1	89.64	0.2	40.0	40.0	31.3	8.66	4.618	
700.0	700.0	701.0	700.0	4.3	4.3	89.64	0.2	40.0	40.0	31.0	9.02	4.434	
800.0	800.0	801.0	800.0	4.5	4.5	89.64	0.2	40.0	40.0	30.6	9.37	4.270	
900.0	900.0	901.0	900.0	4.7	4.7	89.64	0.2	40.0	40.0	30.3	9.70	4.122	
1,000.0	1,000.0	1,001.0	1,000.0	4.8	4.8	89.64	0.2	40.0	40.0	30.0	10.03	3.987	
1,100.0	1,100.0	1,101.0	1,100.0	5.0	5.0	89.64	0.2	40.0	40.0	29.6	10.35	3.864	
1,200.0	1,200.0	1,201.0	1,200.0	5.2	5.2	89.64	0.2	40.0	40.0	29.3	10.66	3.751	
1,300.0	1,300.0	1,301.0	1,300.0	5.3	5.3	89.64	0.2	40.0	40.0	29.0	10.97	3.647	
1,400.0	1,400.0	1,401.0	1,400.0	5.5	5.5	89.64	0.2	40.0	40.0	28.7	11.27	3.550	
1,500.0	1,500.0	1,501.0	1,500.0	5.6	5.6	89.64	0.2	40.0	40.0	28.4	11.56	3.460	
1,600.0	1,600.0	1,601.0	1,600.0	5.8	5.8	89.64	0.2	40.0	40.0	28.2	11.85	3.376	
1,700.0	1,700.0	1,701.0	1,700.0	5.9	5.9	89.64	0.2	40.0	40.0	27.9	12.13	3.297	
1,800.0	1,800.0	1,801.0	1,800.0	6.0	6.0	89.64	0.2	40.0	40.0	27.6	12.41	3.223	
1,900.0	1,900.0	1,901.0	1,900.0	6.2	6.2	89.64	0.2	40.0	40.0	27.3	12.68	3.153	
1,966.3	1,966.3	1,967.3	1,966.3	6.3	6.3	89.64	0.2	40.0	40.0	27.1	12.86	3.110	
2,000.0	2,000.0	2,001.0	2,000.0	6.3	6.3	89.64	0.2	40.0	40.0	27.0	12.95	3.088	
2,050.0	2,050.0	2,050.9	2,049.9	6.4	6.4	90.12	-0.1	40.1	40.1	27.0	13.04	3.071	
2,100.0	2,100.0	2,100.8	2,099.8	6.4	6.5	1.52	-1.1	40.2	39.9	26.8	13.13	3.040	
2,200.0	2,200.0	2,200.5	2,199.4	6.5	6.6	7.40	-4.9	40.9	38.3	24.9	13.38	2.863 Normal Operations	
2,300.0	2,299.8	2,300.0	2,298.7	6.7	6.8	18.52	-11.3	42.0	35.7	22.1	13.64	2.619 Normal Operations	
2,383.3	2,382.9	2,382.3	2,380.7	6.8	6.8	31.71	-18.0	43.6	34.2	20.4	13.80	2.481 Caution - Monitor Closely	
2,400.0	2,399.5	2,398.9	2,397.2	6.8	6.9	37.61	-19.2	44.1	34.1	20.3	13.82	2.468 Caution - Monitor Closely	
2,411.1	2,410.6	2,409.9	2,408.2	6.9	6.9	41.44	-20.0	44.5	34.1	20.2	13.86	2.459 Caution - Monitor Closely, CC, ES, SF	
2,500.0	2,499.0	2,498.3	2,496.3	7.1	7.0	68.52	-25.1	48.6	35.6	21.4	14.19	2.511 Normal Operations	
2,600.0	2,598.2	2,598.0	2,595.7	7.3	7.2	91.00	-28.8	55.8	40.6	26.1	14.55	2.794 Normal Operations	
2,700.0	2,697.0	2,697.9	2,695.2	7.5	7.4	106.14	-30.2	65.6	48.3	33.4	14.87	3.245	
2,800.0	2,795.3	2,798.2	2,794.6	7.8	7.6	115.99	-29.3	78.0	57.7	42.5	15.15	3.805	
2,890.9	2,884.1	2,889.4	2,884.8	8.1	7.7	121.85	-26.5	91.7	67.4	52.0	15.38	4.380	
2,900.0	2,892.9	2,898.6	2,893.9	8.1	7.7	122.07	-26.1	93.2	68.4	53.0	15.40	4.441	
3,000.0	2,990.3	2,999.4	2,992.9	8.4	7.9	122.85	-20.5	110.9	78.5	62.8	15.71	4.997	
3,100.0	3,087.6	3,100.6	3,091.7	8.7	8.2	121.46	-12.7	131.4	86.8	70.9	15.97	5.438	
3,200.0	3,185.0	3,201.2	3,189.2	9.0	8.4	118.57	-2.7	154.1	93.7	77.5	16.19	5.786	
3,300.0	3,282.3	3,300.8	3,285.6	9.4	8.6	115.75	7.6	177.1	100.4	84.0	16.48	6.095	
3,400.0	3,379.7	3,400.5	3,382.0	9.7	8.9	113.29	18.0	200.2	107.4	90.6	16.78	6.402	
3,500.0	3,477.0	3,500.1	3,478.4	10.0	9.2	111.13	28.3	223.2	114.6	97.5	17.09	6.703	
3,600.0	3,574.4	3,599.8	3,574.8	10.4	9.5	109.23	38.6	246.2	121.8	104.4	17.42	6.996	
3,700.0	3,671.7	3,699.5	3,671.2	10.8	9.9	107.55	48.9	269.2	129.2	111.5	17.75	7.281	
3,800.0	3,769.1	3,799.1	3,767.7	11.1	10.2	106.05	59.2	292.2	136.8	118.7	18.10	7.557	
3,900.0	3,866.4	3,898.8	3,864.1	11.5	10.6	104.70	69.5	315.2	144.3	125.9	18.45	7.822	
4,000.0	3,963.8	3,998.4	3,960.5	11.9	10.9	103.49	79.9	338.2	152.0	133.2	18.82	8.077	
4,100.0	4,061.1	4,098.1	4,056.9	12.3	11.3	102.40	90.2	361.2	159.7	140.5	19.19	8.322	
4,200.0	4,158.5	4,197.8	4,153.3	12.7	11.7	101.41	100.5	384.2	167.5	147.9	19.58	8.556	
4,300.0	4,255.8	4,297.4	4,249.7	13.1	12.0	100.50	110.8	407.2	175.3	155.3	19.97	8.780	
4,400.0	4,353.2	4,397.1	4,346.1	13.6	12.4	99.68	121.1	430.2	183.2	162.8	20.37	8.994	
4,500.0	4,450.5	4,496.7	4,442.6	14.0	12.8	98.92	131.5	453.2	191.1	170.3	20.77	9.198	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,600.0	4,547.9	4,596.4	4,539.0	14.4	13.3	98.22	141.8	476.2	199.0	177.8	21.18	9.393		
4,700.0	4,645.2	4,696.0	4,635.4	14.8	13.7	97.57	152.1	499.2	206.9	185.3	21.60	9.579		
4,800.0	4,742.6	4,795.7	4,731.8	15.3	14.1	96.98	162.4	522.2	214.9	192.9	22.03	9.756		
4,900.0	4,839.9	4,895.4	4,828.2	15.7	14.5	96.42	172.7	545.2	222.9	200.4	22.46	9.925		
5,000.0	4,937.3	4,995.0	4,924.6	16.1	14.9	95.91	183.0	568.3	230.9	208.0	22.89	10.086		
5,100.0	5,034.6	5,094.7	5,021.0	16.6	15.4	95.43	193.4	591.3	238.9	215.6	23.34	10.240		
5,200.0	5,131.9	5,194.3	5,117.5	17.0	15.8	94.98	203.7	614.3	247.0	223.2	23.78	10.386		
5,300.0	5,229.3	5,294.0	5,213.9	17.5	16.2	94.55	214.0	637.3	255.1	230.8	24.23	10.526		
5,400.0	5,326.6	5,393.6	5,310.3	17.9	16.7	94.16	224.3	660.3	263.1	238.4	24.69	10.659		
5,500.0	5,424.0	5,493.3	5,406.7	18.4	17.1	93.79	234.6	683.3	271.2	246.1	25.14	10.787		
5,600.0	5,521.3	5,593.0	5,503.1	18.8	17.6	93.44	244.9	706.3	279.3	253.7	25.61	10.908		
5,700.0	5,618.7	5,692.6	5,599.5	19.3	18.0	93.11	255.3	729.3	287.4	261.4	26.07	11.024		
5,800.0	5,716.0	5,792.3	5,696.0	19.7	18.5	92.79	265.6	752.3	295.5	269.0	26.54	11.135		
5,900.0	5,813.4	5,891.9	5,792.4	20.2	18.9	92.50	275.9	775.3	303.7	276.7	27.01	11.241		
6,000.0	5,910.7	5,991.6	5,888.8	20.6	19.4	92.22	286.2	798.3	311.8	284.3	27.49	11.343		
6,100.0	6,008.1	6,091.2	5,985.2	21.1	19.8	91.95	296.5	821.3	319.9	292.0	27.97	11.440		
6,200.0	6,105.4	6,190.9	6,081.6	21.6	20.3	91.70	306.9	844.3	328.1	299.6	28.45	11.533		
6,300.0	6,202.8	6,290.6	6,178.0	22.0	20.8	91.46	317.2	867.3	336.2	307.3	28.93	11.622		
6,400.0	6,300.1	6,390.2	6,274.4	22.5	21.2	91.23	327.5	890.3	344.4	315.0	29.42	11.707		
6,500.0	6,397.5	6,489.9	6,370.9	22.9	21.7	91.01	337.8	913.4	352.6	322.6	29.91	11.788		
6,600.0	6,494.8	6,589.5	6,467.3	23.4	22.2	90.80	348.1	936.4	360.7	330.3	30.40	11.867		
6,700.0	6,592.2	6,689.2	6,563.7	23.9	22.6	90.60	358.4	959.4	368.9	338.0	30.89	11.942		
6,799.6	6,689.2	6,788.5	6,659.8	24.3	23.1	90.41	368.7	982.3	377.0	345.7	31.38	12.014		
6,800.0	6,689.5	6,788.8	6,660.1	24.3	23.1	90.41	368.8	982.4	377.1	345.7	31.39	12.014		
6,900.0	6,787.1	6,888.5	6,756.5	24.8	23.6	90.18	379.1	1,005.4	385.2	353.3	31.90	12.077		
7,000.0	6,885.0	6,988.1	6,852.9	25.3	24.0	89.70	389.4	1,028.4	393.4	361.0	32.45	12.126		
7,100.0	6,983.2	7,087.6	6,949.1	25.7	24.5	89.01	399.7	1,051.3	401.7	368.7	33.04	12.159		
7,200.0	7,081.8	7,187.0	7,045.3	26.2	25.0	88.10	410.0	1,074.3	410.1	376.4	33.67	12.178		
7,300.0	7,180.6	7,286.2	7,141.3	26.6	25.4	86.99	420.3	1,097.2	418.7	384.3	34.37	12.183		
7,400.0	7,279.7	7,385.3	7,237.2	27.0	25.9	85.71	430.5	1,120.1	427.6	392.5	35.12	12.174		
7,500.0	7,379.0	7,484.2	7,332.8	27.4	26.4	84.27	440.8	1,142.9	436.9	400.9	35.95	12.153		
7,600.0	7,478.5	7,582.9	7,428.3	27.8	26.9	82.67	451.0	1,165.7	446.7	409.9	36.85	12.121		
7,700.0	7,578.2	7,681.2	7,523.5	28.2	27.3	80.95	461.2	1,188.4	457.2	419.4	37.84	12.082		
7,800.0	7,678.0	7,779.3	7,618.4	28.5	27.8	79.12	471.3	1,211.0	468.5	429.5	38.92	12.037		
7,900.0	7,777.9	7,877.1	7,713.0	28.9	28.3	77.19	481.4	1,233.6	480.6	440.5	40.08	11.993		
8,000.0	7,877.8	7,974.5	7,807.2	29.2	28.7	75.18	491.5	1,256.1	493.8	452.5	41.32	11.953		
8,100.0	7,977.8	8,071.6	7,901.1	29.4	29.2	73.12	501.6	1,278.5	508.2	465.6	42.62	11.923		
8,122.2	8,000.0	8,093.1	7,921.9	29.4	29.3	119.63	503.8	1,283.5	511.5	468.6	42.91	11.921		
8,200.0	8,077.8	8,168.3	7,994.7	29.5	29.7	117.92	511.6	1,300.8	523.7	479.7	43.93	11.921		
8,300.0	8,177.8	8,265.1	8,088.3	29.5	30.1	115.84	521.6	1,323.2	539.9	494.7	45.22	11.938		
8,400.0	8,277.8	8,361.8	8,181.9	29.5	30.6	113.88	531.6	1,345.5	556.8	510.3	46.49	11.976		
8,500.0	8,377.8	8,458.6	8,275.5	29.6	31.1	112.04	541.6	1,367.8	574.3	526.6	47.73	12.033		
8,600.0	8,477.8	8,555.3	8,369.1	29.6	31.5	110.30	551.7	1,390.2	592.4	543.5	48.93	12.106		
8,700.0	8,577.8	8,652.1	8,462.7	29.6	32.0	108.66	561.7	1,412.5	611.0	560.9	50.10	12.195		
8,800.0	8,677.8	8,748.8	8,556.3	29.7	32.5	107.12	571.7	1,434.8	630.1	578.8	51.24	12.297		
8,900.0	8,777.8	8,845.6	8,649.9	29.7	32.9	105.67	581.7	1,457.2	649.6	597.2	52.34	12.410		
9,000.0	8,877.8	8,942.3	8,743.5	29.8	33.4	104.30	591.7	1,479.5	669.4	616.0	53.41	12.534		
9,100.0	8,977.8	9,039.0	8,837.1	29.8	33.9	103.01	601.7	1,501.8	689.7	635.2	54.45	12.666		
9,200.0	9,077.8	9,135.8	8,930.7	29.8	34.4	101.79	611.8	1,524.2	710.2	654.8	55.46	12.806		
9,300.0	9,177.8	9,232.5	9,024.3	29.9	34.8	100.64	621.8	1,546.5	731.1	674.6	56.45	12.952		
9,400.0	9,277.8	9,329.3	9,117.9	29.9	35.3	99.55	631.8	1,568.8	752.2	694.8	57.41	13.103		

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,500.0	9,377.8	9,426.0	9,211.5	30.0	35.8	98.52	641.8	1,591.2	773.6	715.3	58.34	13.260	
9,600.0	9,477.8	9,522.8	9,305.1	30.0	36.2	97.54	651.8	1,613.5	795.2	736.0	59.26	13.419	
9,700.0	9,577.8	9,619.5	9,398.7	30.0	36.7	96.62	661.8	1,635.9	817.0	756.9	60.15	13.582	
9,800.0	9,677.8	9,716.3	9,492.3	30.1	37.2	95.74	671.9	1,658.2	839.1	778.0	61.03	13.748	
9,900.0	9,777.8	9,818.8	9,591.5	30.1	37.7	94.86	682.4	1,681.7	861.1	799.2	61.91	13.909	
10,000.0	9,877.8	9,931.0	9,700.6	30.2	38.2	94.01	693.3	1,705.9	882.0	819.2	62.80	14.044	
10,100.0	9,977.8	10,044.3	9,811.2	30.2	38.8	93.26	703.3	1,728.3	901.3	837.7	63.63	14.164	
10,200.0	10,077.8	10,158.6	9,923.2	30.2	39.3	92.60	712.5	1,748.9	919.0	854.5	64.40	14.269	
10,300.0	10,177.8	10,273.7	10,036.5	30.3	39.8	92.03	720.9	1,767.6	934.9	869.8	65.12	14.357	
10,400.0	10,277.8	10,389.7	10,150.9	30.3	40.3	91.54	728.4	1,784.3	949.2	883.4	65.78	14.429	
10,500.0	10,377.8	10,506.3	10,266.5	30.4	40.8	91.12	735.0	1,799.0	961.6	895.3	66.39	14.485	
10,600.0	10,477.8	10,623.5	10,382.9	30.4	41.3	90.77	740.7	1,811.6	972.3	905.4	66.93	14.527	
10,700.0	10,577.8	10,741.3	10,500.1	30.5	41.8	90.49	745.3	1,822.0	981.2	913.7	67.42	14.554	
10,800.0	10,677.8	10,859.5	10,617.9	30.5	42.2	90.27	749.1	1,830.3	988.2	920.3	67.84	14.566	
10,900.0	10,777.8	10,978.0	10,736.3	30.5	42.6	90.11	751.8	1,836.4	993.3	925.1	68.19	14.566	
11,000.0	10,877.8	11,096.8	10,854.9	30.6	43.0	90.01	753.5	1,840.2	996.5	928.0	68.46	14.556	
11,100.0	10,977.8	11,215.6	10,973.8	30.6	43.3	89.97	754.2	1,841.8	997.9	929.3	68.60	14.546	
11,200.0	11,077.8	11,319.6	11,077.8	30.7	43.3	89.97	754.2	1,841.9	997.9	929.3	68.64	14.539	
11,300.0	11,177.8	11,419.6	11,177.8	30.7	43.3	89.97	754.2	1,841.9	997.9	929.2	68.70	14.525	
11,400.0	11,277.8	11,519.6	11,277.8	30.8	43.4	89.97	754.2	1,841.9	997.9	929.1	68.77	14.511	
11,500.0	11,377.8	11,619.6	11,377.8	30.8	43.4	89.97	754.2	1,841.9	997.9	929.1	68.83	14.497	
11,600.0	11,477.8	11,719.6	11,477.8	30.8	43.4	89.97	754.2	1,841.9	997.9	929.0	68.90	14.484	
11,633.7	11,511.5	11,753.3	11,511.5	30.8	43.4	89.97	754.2	1,841.9	997.9	929.0	68.91	14.481	
11,650.0	11,527.8	11,769.6	11,527.8	30.8	43.4	-89.69	754.2	1,841.9	997.9	929.0	68.92	14.479	
11,675.0	11,552.8	11,804.8	11,562.9	30.8	43.4	-89.77	753.2	1,841.7	997.8	929.0	68.81	14.501	
11,700.0	11,577.6	11,841.7	11,599.6	30.7	43.3	-89.84	749.4	1,841.2	997.4	928.8	68.61	14.537	
11,725.0	11,602.3	11,878.6	11,635.9	30.7	43.2	-89.89	742.8	1,840.1	996.6	928.3	68.38	14.575	
11,750.0	11,626.7	11,915.4	11,671.5	30.6	43.2	-89.93	733.5	1,838.7	995.6	927.5	68.12	14.617	
11,775.0	11,650.8	11,952.0	11,706.0	30.5	43.1	-89.96	721.6	1,836.8	994.3	926.5	67.83	14.659	
11,800.0	11,674.5	11,988.2	11,739.2	30.4	43.0	-89.98	707.3	1,834.6	992.7	925.2	67.52	14.702	
11,825.0	11,697.7	12,024.1	11,770.9	30.4	42.9	-89.98	690.7	1,832.1	990.8	923.6	67.20	14.744	
11,850.0	11,720.5	12,059.4	11,800.8	30.3	42.8	-89.97	672.0	1,829.2	988.7	921.8	66.88	14.783	
11,875.0	11,742.7	12,094.3	11,828.8	30.2	42.7	-89.96	651.6	1,826.0	986.3	919.8	66.56	14.819	
11,900.0	11,764.2	12,128.6	11,854.9	30.2	42.7	-89.93	629.6	1,822.6	983.7	917.5	66.25	14.849	
11,925.0	11,785.1	12,162.2	11,878.8	30.1	42.6	-89.91	606.2	1,819.0	980.9	914.9	65.95	14.874	
11,950.0	11,805.2	12,195.3	11,900.6	30.0	42.5	-89.88	581.7	1,815.2	977.8	912.2	65.67	14.891	
11,975.0	11,824.5	12,227.6	11,920.3	29.9	42.5	-89.85	556.3	1,811.3	974.6	909.2	65.41	14.900	
12,000.0	11,842.9	12,259.3	11,937.8	29.9	42.4	-89.82	530.2	1,807.2	971.2	906.0	65.18	14.901	
12,025.0	11,860.5	12,290.3	11,953.2	29.8	42.4	-89.79	503.6	1,803.1	967.7	902.7	64.97	14.893	
12,050.0	11,877.0	12,320.7	11,966.6	29.8	42.3	-89.76	476.7	1,798.9	964.0	899.2	64.80	14.876	
12,075.0	11,892.6	12,350.4	11,978.0	29.7	42.3	-89.74	449.6	1,794.7	960.2	895.5	64.66	14.849	
12,100.0	11,907.1	12,379.4	11,987.4	29.7	42.3	-89.72	422.5	1,790.5	956.3	891.8	64.56	14.814	
12,125.0	11,920.6	12,407.9	11,995.1	29.6	42.3	-89.71	395.4	1,786.3	952.4	887.9	64.48	14.769	
12,150.0	11,932.9	12,435.7	12,000.9	29.6	42.3	-89.70	368.5	1,782.2	948.3	883.9	64.44	14.715	
12,175.0	11,944.1	12,463.0	12,005.2	29.5	42.3	-89.70	341.9	1,778.1	944.3	879.8	64.44	14.654	
12,200.0	11,954.1	12,489.7	12,007.8	29.5	42.3	-89.70	315.6	1,774.0	940.1	875.7	64.46	14.584	
12,225.0	11,962.8	12,515.9	12,008.9	29.5	42.3	-89.70	289.7	1,770.0	936.0	871.5	64.52	14.507	
12,250.0	11,970.4	12,536.1	12,009.0	29.5	42.3	-89.83	269.8	1,766.9	931.9	867.2	64.73	14.396	
12,275.0	11,976.6	12,554.1	12,009.0	29.5	42.3	-90.02	252.0	1,764.3	928.0	863.0	64.99	14.280	
12,300.0	11,981.6	12,572.4	12,009.0	29.5	42.4	-90.25	233.8	1,761.8	924.3	859.1	65.22	14.171	
12,325.0	11,985.4	12,600.0	12,009.0	29.5	42.4	-90.44	206.5	1,758.1	920.8	855.6	65.23	14.115	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,350.0	11,987.8	12,600.0	12,009.0	29.5	42.4	-90.85	206.5	1,758.1	917.5	851.6	65.85	13.932	
12,375.0	11,988.9	12,628.4	12,009.0	29.5	42.4	-91.14	178.3	1,754.7	914.2	848.4	65.82	13.889	
12,383.7	11,989.0	12,634.9	12,009.0	29.5	42.4	-91.26	171.8	1,753.9	913.2	847.3	65.88	13.861	
12,400.0	11,989.0	12,647.2	12,009.0	29.5	42.4	-91.27	159.6	1,752.6	911.2	845.2	65.99	13.809	
12,500.0	11,989.0	12,722.8	12,009.0	29.6	42.5	-91.28	84.4	1,745.2	900.9	834.2	66.66	13.516	
12,600.0	11,989.0	12,800.0	12,009.0	29.7	42.6	-91.29	7.4	1,739.8	893.2	825.9	67.32	13.268	
12,700.0	11,989.0	12,874.9	12,009.0	29.8	42.7	-91.29	-67.5	1,736.5	888.2	820.1	68.06	13.049	
12,800.0	11,989.0	12,951.3	12,009.0	30.0	42.8	-91.29	-143.8	1,735.2	885.8	817.0	68.79	12.877	
12,855.4	11,989.0	12,997.4	12,009.0	30.1	42.9	-91.29	-189.9	1,735.3	885.6	816.5	69.13	12.811	
12,900.0	11,989.0	13,042.0	12,009.0	30.2	43.0	-91.29	-234.6	1,735.6	885.6	816.3	69.28	12.783	
13,000.0	11,989.0	13,142.0	12,009.0	30.4	43.1	-91.29	-334.6	1,736.2	885.6	815.9	69.65	12.714	
13,100.0	11,989.0	13,242.0	12,009.0	30.6	43.3	-91.29	-434.6	1,736.8	885.6	815.5	70.08	12.637	
13,200.0	11,989.0	13,342.0	12,009.0	30.9	43.5	-91.29	-534.6	1,737.4	885.6	815.0	70.55	12.553	
13,300.0	11,989.0	13,442.0	12,009.0	31.1	43.8	-91.29	-634.6	1,738.0	885.6	814.5	71.07	12.461	
13,400.0	11,989.0	13,542.0	12,009.0	31.4	44.0	-91.29	-734.6	1,738.7	885.6	813.9	71.63	12.362	
13,500.0	11,989.0	13,642.0	12,009.0	31.7	44.3	-91.29	-834.6	1,739.3	885.6	813.3	72.25	12.257	
13,600.0	11,989.0	13,742.0	12,009.0	32.1	44.6	-91.29	-934.5	1,739.9	885.6	812.6	72.91	12.147	
13,700.0	11,989.0	13,842.0	12,009.0	32.4	44.9	-91.29	-1,034.5	1,740.5	885.5	811.9	73.61	12.031	
13,800.0	11,989.0	13,942.0	12,009.0	32.8	45.2	-91.29	-1,134.5	1,741.1	885.5	811.2	74.35	11.910	
13,900.0	11,989.0	14,042.0	12,009.0	33.2	45.5	-91.29	-1,234.5	1,741.8	885.5	810.4	75.13	11.786	
14,000.0	11,989.0	14,142.0	12,009.0	33.7	45.9	-91.29	-1,334.5	1,742.4	885.5	809.6	75.96	11.658	
14,100.0	11,989.0	14,242.0	12,009.0	34.1	46.3	-91.29	-1,434.5	1,743.0	885.5	808.7	76.82	11.527	
14,200.0	11,989.0	14,342.0	12,009.0	34.6	46.7	-91.29	-1,534.5	1,743.6	885.5	807.8	77.72	11.394	
14,300.0	11,989.0	14,442.0	12,009.0	35.1	47.1	-91.29	-1,634.5	1,744.2	885.5	806.9	78.66	11.258	
14,400.0	11,989.0	14,542.0	12,009.0	35.6	47.5	-91.29	-1,734.5	1,744.9	885.5	805.9	79.63	11.121	
14,500.0	11,989.0	14,642.0	12,009.0	36.1	47.9	-91.29	-1,834.5	1,745.5	885.5	804.9	80.63	10.982	
14,600.0	11,989.0	14,742.0	12,009.0	36.7	48.4	-91.29	-1,934.5	1,746.1	885.5	803.8	81.66	10.843	
14,700.0	11,989.0	14,842.0	12,009.0	37.3	48.8	-91.29	-2,034.5	1,746.7	885.5	802.8	82.73	10.703	
14,800.0	11,989.0	14,942.0	12,009.0	37.9	49.3	-91.29	-2,134.5	1,747.3	885.5	801.7	83.83	10.563	
14,900.0	11,989.0	15,042.0	12,009.0	38.5	49.8	-91.29	-2,234.5	1,748.0	885.5	800.5	84.95	10.423	
15,000.0	11,989.0	15,142.0	12,009.0	39.1	50.3	-91.29	-2,334.5	1,748.6	885.5	799.4	86.10	10.284	
15,100.0	11,989.0	15,242.0	12,009.0	39.7	50.8	-91.29	-2,434.5	1,749.2	885.5	798.2	87.28	10.145	
15,200.0	11,989.0	15,342.0	12,009.0	40.4	51.3	-91.29	-2,534.5	1,749.8	885.5	797.0	88.49	10.007	
15,300.0	11,989.0	15,442.0	12,009.0	41.1	51.9	-91.29	-2,634.5	1,750.4	885.5	795.7	89.71	9.870	
15,400.0	11,989.0	15,542.0	12,009.0	41.7	52.4	-91.29	-2,734.5	1,751.1	885.5	794.5	90.97	9.734	
15,500.0	11,989.0	15,642.0	12,009.0	42.4	53.0	-91.29	-2,834.5	1,751.7	885.4	793.2	92.24	9.599	
15,600.0	11,989.0	15,742.0	12,009.0	43.1	53.6	-91.29	-2,934.5	1,752.3	885.4	791.9	93.53	9.466	
15,700.0	11,989.0	15,842.0	12,009.0	43.8	54.1	-91.29	-3,034.5	1,752.9	885.4	790.6	94.85	9.335	
15,800.0	11,989.0	15,942.0	12,009.0	44.6	54.7	-91.29	-3,134.5	1,753.5	885.4	789.2	96.19	9.205	
15,900.0	11,989.0	16,042.0	12,009.0	45.3	55.3	-91.29	-3,234.5	1,754.2	885.4	787.9	97.54	9.078	
16,000.0	11,989.0	16,142.0	12,009.0	46.1	56.0	-91.29	-3,334.5	1,754.8	885.4	786.5	98.91	8.952	
16,100.0	11,989.0	16,242.0	12,009.0	46.8	56.6	-91.29	-3,434.5	1,755.4	885.4	785.1	100.30	8.828	
16,200.0	11,989.0	16,342.0	12,009.0	47.6	57.2	-91.29	-3,534.5	1,756.0	885.4	783.7	101.71	8.705	
16,300.0	11,989.0	16,442.0	12,009.0	48.4	57.9	-91.29	-3,634.5	1,756.6	885.4	782.3	103.13	8.585	
16,400.0	11,989.0	16,542.0	12,009.0	49.1	58.5	-91.29	-3,734.5	1,757.3	885.4	780.8	104.57	8.467	
16,500.0	11,989.0	16,642.0	12,009.0	49.9	59.2	-91.29	-3,834.5	1,757.9	885.4	779.4	106.02	8.351	
16,600.0	11,989.0	16,742.0	12,009.0	50.7	59.8	-91.29	-3,934.5	1,758.5	885.4	777.9	107.48	8.237	
16,700.0	11,989.0	16,842.0	12,009.0	51.5	60.5	-91.29	-4,034.5	1,759.1	885.4	776.4	108.96	8.125	
16,800.0	11,989.0	16,942.0	12,009.0	52.3	61.2	-91.29	-4,134.5	1,759.7	885.4	774.9	110.46	8.016	
16,900.0	11,989.0	17,042.0	12,009.0	53.1	61.9	-91.29	-4,234.5	1,760.4	885.4	773.4	111.96	7.908	
17,000.0	11,989.0	17,142.0	12,009.0	54.0	62.6	-91.29	-4,334.5	1,761.0	885.4	771.9	113.48	7.802	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,100.0	11,989.0	17,242.0	12,009.0	54.8	63.3	-91.29	-4,434.5	1,761.6	885.4	770.4	115.01	7.698	
17,200.0	11,989.0	17,342.0	12,009.0	55.6	64.0	-91.29	-4,534.5	1,762.2	885.4	768.8	116.55	7.597	
17,300.0	11,989.0	17,442.0	12,009.0	56.4	64.7	-91.29	-4,634.5	1,762.9	885.3	767.3	118.10	7.497	
17,400.0	11,989.0	17,542.0	12,009.0	57.3	65.5	-91.29	-4,734.5	1,763.5	885.3	765.7	119.66	7.399	
17,500.0	11,989.0	17,642.0	12,009.0	58.1	66.2	-91.29	-4,834.5	1,764.1	885.3	764.1	121.23	7.303	
17,600.0	11,989.0	17,742.0	12,009.0	59.0	66.9	-91.29	-4,934.5	1,764.7	885.3	762.5	122.80	7.209	
17,700.0	11,989.0	17,842.0	12,009.0	59.8	67.7	-91.29	-5,034.5	1,765.3	885.3	760.9	124.39	7.117	
17,800.0	11,989.0	17,942.0	12,009.0	60.7	68.4	-91.29	-5,134.5	1,766.0	885.3	759.3	125.99	7.027	
17,900.0	11,989.0	18,042.0	12,009.0	61.5	69.2	-91.29	-5,234.5	1,766.6	885.3	757.7	127.59	6.938	
18,000.0	11,989.0	18,142.0	12,009.0	62.4	69.9	-91.29	-5,334.5	1,767.2	885.3	756.1	129.21	6.852	
18,100.0	11,989.0	18,242.0	12,009.0	63.3	70.7	-91.29	-5,434.5	1,767.8	885.3	754.5	130.83	6.767	
18,200.0	11,989.0	18,342.0	12,009.0	64.1	71.5	-91.29	-5,534.5	1,768.4	885.3	752.8	132.46	6.684	
18,300.0	11,989.0	18,442.0	12,009.0	65.0	72.2	-91.29	-5,634.5	1,769.1	885.3	751.2	134.09	6.602	
18,400.0	11,989.0	18,542.0	12,009.0	65.9	73.0	-91.29	-5,734.5	1,769.7	885.3	749.6	135.74	6.522	
18,500.0	11,989.0	18,642.0	12,009.0	66.7	73.8	-91.29	-5,834.5	1,770.3	885.3	747.9	137.39	6.444	
18,600.0	11,989.0	18,742.0	12,009.0	67.6	74.6	-91.29	-5,934.5	1,770.9	885.3	746.2	139.04	6.367	
18,700.0	11,989.0	18,842.0	12,009.0	68.5	75.4	-91.29	-6,034.5	1,771.5	885.3	744.6	140.70	6.292	
18,800.0	11,989.0	18,942.0	12,009.0	69.4	76.2	-91.29	-6,134.4	1,772.2	885.3	742.9	142.37	6.218	
18,900.0	11,989.0	19,042.0	12,009.0	70.3	77.0	-91.29	-6,234.4	1,772.8	885.3	741.2	144.05	6.146	
19,000.0	11,989.0	19,142.0	12,009.0	71.2	77.8	-91.29	-6,334.4	1,773.4	885.3	739.5	145.72	6.075	
19,100.0	11,989.0	19,242.0	12,009.0	72.0	78.6	-91.29	-6,434.4	1,774.0	885.2	737.8	147.41	6.005	
19,200.0	11,989.0	19,342.0	12,009.0	72.9	79.4	-91.29	-6,534.4	1,774.6	885.2	736.1	149.10	5.937	
19,300.0	11,989.0	19,442.0	12,009.0	73.8	80.2	-91.29	-6,634.4	1,775.3	885.2	734.4	150.79	5.870	
19,400.0	11,989.0	19,542.0	12,009.0	74.7	81.0	-91.29	-6,734.4	1,775.9	885.2	732.7	152.49	5.805	
19,500.0	11,989.0	19,642.0	12,009.0	75.6	81.9	-91.29	-6,834.4	1,776.5	885.2	731.0	154.20	5.741	
19,600.0	11,989.0	19,742.0	12,009.0	76.5	82.7	-91.29	-6,934.4	1,777.1	885.2	729.3	155.91	5.678	
19,700.0	11,989.0	19,842.0	12,009.0	77.4	83.4	-91.29	-7,034.4	1,777.7	885.2	727.7	157.50	5.620	
19,746.4	11,989.0	19,888.4	12,009.0	77.8	83.8	-91.29	-7,080.8	1,778.0	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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	1.2	0.0	3.0	3.0	89.65	0.4	60.0	60.0				
100.0	100.0	101.2	100.0	3.1	3.1	89.65	0.4	60.0	60.0	53.4	6.62	9.060	
200.0	200.0	201.2	200.0	3.3	3.3	89.65	0.4	60.0	60.0	52.9	7.07	8.482	
300.0	300.0	301.2	300.0	3.6	3.6	89.65	0.4	60.0	60.0	52.5	7.50	8.001	
400.0	400.0	401.2	400.0	3.8	3.8	89.65	0.4	60.0	60.0	52.1	7.90	7.592	
500.0	500.0	501.2	500.0	4.0	4.0	89.65	0.4	60.0	60.0	51.7	8.29	7.237	
600.0	600.0	601.2	600.0	4.1	4.1	89.65	0.4	60.0	60.0	51.3	8.66	6.927	
700.0	700.0	701.2	700.0	4.3	4.3	89.65	0.4	60.0	60.0	51.0	9.02	6.651	
800.0	800.0	801.2	800.0	4.5	4.5	89.65	0.4	60.0	60.0	50.6	9.37	6.405	
900.0	900.0	901.2	900.0	4.7	4.7	89.65	0.4	60.0	60.0	50.3	9.70	6.183	
1,000.0	1,000.0	1,001.2	1,000.0	4.8	4.8	89.65	0.4	60.0	60.0	50.0	10.03	5.981	
1,100.0	1,100.0	1,101.2	1,100.0	5.0	5.0	89.65	0.4	60.0	60.0	49.6	10.35	5.796	
1,200.0	1,200.0	1,201.2	1,200.0	5.2	5.2	89.65	0.4	60.0	60.0	49.3	10.66	5.627	
1,300.0	1,300.0	1,301.2	1,300.0	5.3	5.3	89.65	0.4	60.0	60.0	49.0	10.97	5.470	
1,400.0	1,400.0	1,401.2	1,400.0	5.5	5.5	89.65	0.4	60.0	60.0	48.7	11.27	5.325	
1,500.0	1,500.0	1,501.2	1,500.0	5.6	5.6	89.65	0.4	60.0	60.0	48.4	11.56	5.190	
1,600.0	1,600.0	1,601.2	1,600.0	5.8	5.8	89.65	0.4	60.0	60.0	48.2	11.85	5.064	
1,700.0	1,700.0	1,701.2	1,700.0	5.9	5.9	89.65	0.4	60.0	60.0	47.9	12.13	4.946	
1,800.0	1,800.0	1,801.2	1,800.0	6.0	6.0	89.65	0.4	60.0	60.0	47.6	12.41	4.835	
1,900.0	1,900.0	1,901.2	1,900.0	6.2	6.2	89.65	0.4	60.0	60.0	47.3	12.68	4.730	
1,966.3	1,966.3	1,967.5	1,966.3	6.3	6.3	89.65	0.4	60.0	60.0	47.1	12.86	4.664	
2,000.0	2,000.0	2,001.2	2,000.0	6.3	6.3	89.65	0.4	60.0	60.0	47.0	12.96	4.631	
2,050.0	2,050.0	2,050.8	2,049.6	6.4	6.4	89.25	0.8	60.2	60.2	47.1	13.06	4.608	
2,100.0	2,100.0	2,100.0	2,098.8	6.4	6.5	-1.88	2.0	60.7	60.4	47.2	13.16	4.589	
2,200.0	2,200.0	2,199.3	2,197.9	6.5	6.8	-6.44	6.7	62.7	60.2	46.7	13.46	4.470	
2,300.0	2,299.8	2,297.8	2,296.1	6.7	7.0	-14.15	14.6	66.0	59.8	46.0	13.79	4.335	
2,304.9	2,304.7	2,302.6	2,300.9	6.7	7.0	-14.61	15.1	66.2	59.8	46.0	13.81	4.330 CC, ES	
2,383.3	2,382.9	2,379.5	2,377.2	6.8	7.2	-22.92	23.5	69.8	60.3	46.2	14.07	4.287	
2,400.0	2,399.5	2,395.7	2,393.3	6.8	7.2	-21.59	25.5	70.6	60.6	46.5	14.11	4.293	
2,500.0	2,499.0	2,493.2	2,489.6	7.1	7.5	-17.32	39.4	76.5	63.6	49.1	14.57	4.368	
2,600.0	2,598.2	2,592.2	2,587.1	7.3	7.7	-17.21	55.4	83.3	67.6	52.6	15.01	4.502	
2,700.0	2,697.0	2,691.7	2,685.0	7.5	8.0	-18.83	71.5	90.1	69.9	54.4	15.49	4.509	
2,800.0	2,795.3	2,791.3	2,783.0	7.8	8.2	-21.76	87.7	97.0	70.0	54.0	15.99	4.377	
2,890.9	2,884.1	2,881.8	2,872.1	8.1	8.5	-25.65	102.3	103.2	68.1	51.7	16.41	4.149	
2,900.0	2,892.9	2,890.9	2,881.0	8.1	8.5	-26.37	103.8	103.8	67.8	51.4	16.44	4.124	
3,000.0	2,990.3	2,990.4	2,979.0	8.4	8.8	-34.65	119.9	110.6	65.5	48.6	16.89	3.878	
3,100.0	3,087.6	3,089.9	3,076.9	8.7	9.1	-43.32	136.1	117.4	64.7	47.5	17.21	3.759	
3,105.2	3,092.7	3,095.0	3,082.0	8.7	9.1	-43.77	136.9	117.8	64.7	47.5	17.22	3.756	
3,200.0	3,185.0	3,189.4	3,174.9	9.0	9.4	-52.01	152.2	124.3	65.4	47.9	17.43	3.749 SF	
3,300.0	3,282.3	3,288.9	3,272.8	9.4	9.8	-60.34	168.3	131.1	67.5	49.9	17.59	3.838	
3,400.0	3,379.7	3,388.4	3,370.8	9.7	10.1	-68.01	184.5	137.9	71.0	53.3	17.71	4.009	
3,500.0	3,477.0	3,487.9	3,468.7	10.0	10.4	-74.86	200.6	144.8	75.6	57.8	17.82	4.243	
3,600.0	3,574.4	3,587.4	3,566.7	10.4	10.8	-80.85	216.7	151.6	81.2	63.2	17.97	4.520	
3,700.0	3,671.7	3,686.9	3,664.6	10.8	11.2	-86.02	232.9	158.4	87.6	69.4	18.15	4.826	
3,800.0	3,769.1	3,786.4	3,762.6	11.1	11.5	-90.47	249.0	165.2	94.6	76.2	18.37	5.147	
3,900.0	3,866.4	3,885.9	3,860.5	11.5	11.9	-94.29	265.1	172.1	102.0	83.4	18.64	5.474	
4,000.0	3,963.8	3,985.4	3,958.5	11.9	12.3	-97.57	281.3	178.9	109.9	90.9	18.94	5.800	
4,100.0	4,061.1	4,084.9	4,056.4	12.3	12.7	-100.42	297.4	185.7	118.0	98.8	19.28	6.122	
4,200.0	4,158.5	4,184.4	4,154.4	12.7	13.1	-102.89	313.5	192.6	126.5	106.8	19.65	6.436	
4,300.0	4,255.8	4,283.9	4,252.4	13.1	13.4	-105.05	329.7	199.4	135.1	115.0	20.04	6.741	
4,400.0	4,353.2	4,383.5	4,350.3	13.6	13.8	-106.94	345.8	206.2	143.9	123.4	20.45	7.035	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		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
4,500.0	4,450.5	4,483.0	4,448.3	14.0	14.2	-108.62	361.9	213.0	152.8	131.9	20.88	7.318
4,600.0	4,547.9	4,582.5	4,546.2	14.4	14.7	-110.11	378.1	219.9	161.9	140.5	21.33	7.589
4,700.0	4,645.2	4,682.0	4,644.2	14.8	15.1	-111.45	394.2	226.7	171.0	149.2	21.79	7.849
4,800.0	4,742.6	4,781.5	4,742.1	15.3	15.5	-112.65	410.3	233.5	180.2	158.0	22.26	8.098
4,900.0	4,839.9	4,881.0	4,840.1	15.7	15.9	-113.73	426.5	240.4	189.5	166.8	22.74	8.336
5,000.0	4,937.3	4,980.5	4,938.0	16.1	16.3	-114.71	442.6	247.2	198.9	175.7	23.23	8.563
5,100.0	5,034.6	5,080.0	5,036.0	16.6	16.7	-115.60	458.7	254.0	208.3	184.6	23.72	8.781
5,200.0	5,131.9	5,179.5	5,133.9	17.0	17.1	-116.41	474.9	260.9	217.8	193.5	24.23	8.988
5,300.0	5,229.3	5,279.0	5,231.9	17.5	17.6	-117.16	491.0	267.7	227.3	202.5	24.74	9.187
5,400.0	5,326.6	5,378.5	5,329.8	17.9	18.0	-117.84	507.1	274.5	236.8	211.5	25.25	9.377
5,500.0	5,424.0	5,478.0	5,427.8	18.4	18.4	-118.48	523.3	281.3	246.4	220.6	25.77	9.558
5,600.0	5,521.3	5,577.5	5,525.7	18.8	18.8	-119.06	539.4	288.2	255.9	229.6	26.30	9.731
5,700.0	5,618.7	5,677.0	5,623.7	19.3	19.3	-119.61	555.5	295.0	265.6	238.7	26.83	9.897
5,800.0	5,716.0	5,776.5	5,721.6	19.7	19.7	-120.11	571.7	301.8	275.2	247.8	27.37	10.056
5,900.0	5,813.4	5,876.0	5,819.6	20.2	20.1	-120.58	587.8	308.7	284.9	257.0	27.90	10.208
6,000.0	5,910.7	5,975.6	5,917.5	20.6	20.5	-121.02	603.9	315.5	294.5	266.1	28.45	10.354
6,100.0	6,008.1	6,075.1	6,015.5	21.1	21.0	-121.44	620.1	322.3	304.2	275.2	28.99	10.494
6,200.0	6,105.4	6,174.6	6,113.4	21.6	21.4	-121.82	636.2	329.1	313.9	284.4	29.54	10.628
6,300.0	6,202.8	6,274.1	6,211.4	22.0	21.8	-122.19	652.3	336.0	323.7	293.6	30.09	10.756
6,400.0	6,300.1	6,373.6	6,309.3	22.5	22.3	-122.53	668.5	342.8	333.4	302.7	30.64	10.880
6,500.0	6,397.5	6,473.1	6,407.3	22.9	22.7	-122.85	684.6	349.6	343.1	311.9	31.20	10.998
6,600.0	6,494.8	6,572.6	6,505.2	23.4	23.1	-123.16	700.7	356.5	352.9	321.1	31.76	11.112
6,700.0	6,592.2	6,672.1	6,603.2	23.9	23.6	-123.45	716.9	363.3	362.6	330.3	32.32	11.222
6,799.6	6,689.2	6,771.3	6,700.8	24.3	24.0	-123.72	733.0	370.1	372.4	339.5	32.88	11.327
6,800.0	6,689.5	6,771.6	6,701.1	24.3	24.0	-123.72	733.0	370.1	372.4	339.5	32.88	11.327
6,900.0	6,787.1	6,871.2	6,799.2	24.8	24.5	-123.95	749.2	376.9	381.7	348.3	33.41	11.426
7,000.0	6,885.0	6,970.8	6,897.2	25.3	24.9	-123.95	765.3	383.8	390.0	356.2	33.86	11.518
7,100.0	6,983.2	7,070.5	6,995.4	25.7	25.3	-123.73	781.5	390.6	397.4	363.1	34.25	11.603
7,200.0	7,081.8	7,170.3	7,093.6	26.2	25.8	-123.31	797.6	397.5	403.8	369.2	34.56	11.683
7,300.0	7,180.6	7,270.0	7,191.8	26.6	26.2	-122.69	813.8	404.3	409.3	374.5	34.80	11.760
7,400.0	7,279.7	7,369.7	7,289.9	27.0	26.7	-121.88	830.0	411.2	413.9	378.9	34.97	11.837
7,500.0	7,379.0	7,469.3	7,388.0	27.4	27.1	-120.88	846.1	418.0	417.7	382.7	35.06	11.915
7,600.0	7,478.5	7,568.9	7,486.0	27.8	27.5	-119.69	862.3	424.8	420.8	385.7	35.07	11.999
7,700.0	7,578.2	7,667.8	7,583.5	28.2	28.0	-118.42	877.6	431.3	423.3	388.3	35.04	12.080
7,800.0	7,678.0	7,766.8	7,681.4	28.5	28.4	-117.18	891.4	437.2	425.3	390.3	35.02	12.146
7,900.0	7,777.9	7,866.1	7,779.7	28.9	28.8	-115.97	903.6	442.3	426.8	391.8	34.99	12.200
8,000.0	7,877.8	7,965.5	7,878.4	29.2	29.2	-114.78	914.4	446.9	427.8	392.9	34.95	12.241
8,100.0	7,977.8	8,065.1	7,977.5	29.4	29.6	-113.61	923.5	450.7	428.3	393.4	34.91	12.271
8,122.2	8,000.0	8,087.2	7,999.6	29.4	29.7	-66.38	925.3	451.5	428.4	393.5	34.88	12.280
8,200.0	8,077.8	8,164.9	8,077.0	29.5	30.0	-65.55	931.1	453.9	428.5	393.7	34.82	12.305
8,300.0	8,177.8	8,264.9	8,176.8	29.5	30.4	-64.68	937.0	456.5	428.7	393.9	34.80	12.318
8,400.0	8,277.8	8,365.1	8,276.9	29.5	30.7	-64.05	941.4	458.3	428.9	394.1	34.84	12.312
8,500.0	8,377.8	8,465.5	8,377.3	29.6	31.0	-63.65	944.2	459.5	429.1	394.2	34.92	12.290
8,600.0	8,477.8	8,566.0	8,477.7	29.6	31.2	-63.48	945.3	460.0	429.2	394.2	35.02	12.255
8,700.0	8,577.8	8,666.1	8,577.8	29.6	31.2	-63.47	945.4	460.0	429.2	394.0	35.16	12.208
8,800.0	8,677.8	8,766.1	8,677.8	29.7	31.3	-63.47	945.4	460.0	429.2	393.9	35.29	12.161
8,900.0	8,777.8	8,866.1	8,777.8	29.7	31.3	-63.47	945.4	460.0	429.2	393.8	35.42	12.117
9,000.0	8,877.8	8,966.1	8,877.8	29.8	31.4	-63.47	945.4	460.0	429.2	393.6	35.55	12.073
9,100.0	8,977.8	9,066.1	8,977.8	29.8	31.4	-63.47	945.4	460.0	429.2	393.5	35.68	12.029
9,200.0	9,077.8	9,166.1	9,077.8	29.8	31.5	-63.47	945.4	460.0	429.2	393.4	35.81	11.986
9,300.0	9,177.8	9,266.1	9,177.8	29.9	31.5	-63.47	945.4	460.0	429.2	393.2	35.94	11.942

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		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)			
9,400.0	9,277.8	9,366.1	9,277.8	29.9	31.5	-63.47	945.4	460.0	429.2	393.1	36.07	11.899	
9,500.0	9,377.8	9,466.1	9,377.8	30.0	31.6	-63.47	945.4	460.0	429.2	393.0	36.20	11.856	
9,600.0	9,477.8	9,566.1	9,477.8	30.0	31.6	-63.47	945.4	460.0	429.2	392.8	36.33	11.814	
9,700.0	9,577.8	9,666.1	9,577.8	30.0	31.7	-63.47	945.4	460.0	429.2	392.7	36.46	11.771	
9,800.0	9,677.8	9,766.1	9,677.8	30.1	31.7	-63.47	945.4	460.0	429.2	392.6	36.59	11.729	
9,900.0	9,777.8	9,866.1	9,777.8	30.1	31.7	-63.47	945.4	460.0	429.2	392.5	36.72	11.687	
10,000.0	9,877.8	9,966.1	9,877.8	30.2	31.8	-63.47	945.4	460.0	429.2	392.3	36.85	11.645	
10,100.0	9,977.8	10,066.1	9,977.8	30.2	31.8	-63.47	945.4	460.0	429.2	392.2	36.99	11.604	
10,200.0	10,077.8	10,166.1	10,077.8	30.2	31.9	-63.47	945.4	460.0	429.2	392.1	37.12	11.563	
10,300.0	10,177.8	10,266.1	10,177.8	30.3	31.9	-63.47	945.4	460.0	429.2	391.9	37.25	11.522	
10,400.0	10,277.8	10,366.1	10,277.8	30.3	32.0	-63.47	945.4	460.0	429.2	391.8	37.38	11.481	
10,500.0	10,377.8	10,466.1	10,377.8	30.4	32.0	-63.47	945.4	460.0	429.2	391.7	37.51	11.440	
10,600.0	10,477.8	10,566.1	10,477.8	30.4	32.0	-63.47	945.4	460.0	429.2	391.5	37.65	11.400	
10,700.0	10,577.8	10,666.1	10,577.8	30.5	32.1	-63.47	945.4	460.0	429.2	391.4	37.78	11.360	
10,800.0	10,677.8	10,766.1	10,677.8	30.5	32.1	-63.47	945.4	460.0	429.2	391.3	37.91	11.320	
10,900.0	10,777.8	10,866.1	10,777.8	30.5	32.2	-63.47	945.4	460.0	429.2	391.1	38.05	11.280	
11,000.0	10,877.8	10,966.1	10,877.8	30.6	32.2	-63.47	945.4	460.0	429.2	391.0	38.18	11.240	
11,100.0	10,977.8	11,066.1	10,977.8	30.6	32.3	-63.47	945.4	460.0	429.2	390.9	38.32	11.201	
11,200.0	11,077.8	11,166.1	11,077.8	30.7	32.3	-63.47	945.4	460.0	429.2	390.7	38.45	11.162	
11,300.0	11,177.8	11,266.1	11,177.8	30.7	32.3	-63.47	945.4	460.0	429.2	390.6	38.58	11.123	
11,400.0	11,277.8	11,366.1	11,277.8	30.8	32.4	-63.47	945.4	460.0	429.2	390.5	38.72	11.084	
11,500.0	11,377.8	11,466.1	11,377.8	30.8	32.4	-63.47	945.4	460.0	429.2	390.3	38.85	11.046	
11,600.0	11,477.8	11,566.1	11,477.8	30.8	32.5	-63.47	945.4	460.0	429.2	390.2	38.99	11.008	
11,633.7	11,511.5	11,599.8	11,511.5	30.8	32.5	-63.47	945.4	460.0	429.2	390.2	39.03	10.997	
11,650.0	11,527.8	11,616.1	11,527.8	30.8	32.5	116.90	945.4	460.0	429.3	390.3	39.04	10.997	
11,675.0	11,552.8	11,641.0	11,552.8	30.8	32.5	117.01	945.4	460.0	430.0	390.9	39.05	11.012	
11,700.0	11,577.6	11,665.9	11,577.6	30.7	32.5	117.20	945.4	460.0	431.3	392.2	39.04	11.048	
11,725.0	11,602.3	11,690.5	11,602.3	30.7	32.5	117.48	945.4	460.0	433.2	394.2	39.01	11.105	
11,750.0	11,626.7	11,714.9	11,626.7	30.6	32.6	117.82	945.4	460.0	435.7	396.8	38.97	11.181	
11,775.0	11,650.8	11,739.0	11,650.8	30.5	32.6	118.23	945.4	460.0	439.0	400.0	38.93	11.277	
11,800.0	11,674.5	11,762.7	11,674.5	30.4	32.6	118.68	945.4	460.0	442.9	404.0	38.88	11.392	
11,825.0	11,697.7	11,786.0	11,697.7	30.4	32.6	119.15	945.4	460.0	447.6	408.7	38.84	11.524	
11,850.0	11,720.5	11,808.7	11,720.5	30.3	32.6	119.64	945.4	460.0	453.0	414.2	38.81	11.673	
11,875.0	11,742.7	11,830.9	11,742.7	30.2	32.6	120.12	945.4	460.0	459.3	420.5	38.79	11.839	
11,900.0	11,764.2	11,852.5	11,764.2	30.2	32.6	120.56	945.4	460.0	466.4	427.6	38.80	12.019	
11,925.0	11,785.1	11,873.3	11,785.1	30.1	32.6	120.96	945.4	460.0	474.4	435.5	38.84	12.213	
11,950.0	11,805.2	11,893.4	11,805.2	30.0	32.6	121.29	945.4	460.0	483.3	444.4	38.92	12.420	
11,975.0	11,824.5	11,912.7	11,824.5	29.9	32.6	121.53	945.4	460.0	493.2	454.2	39.02	12.639	
12,000.0	11,842.9	11,931.2	11,842.9	29.9	32.6	121.65	945.4	460.0	504.0	464.8	39.16	12.869	
12,025.0	11,860.5	11,948.7	11,860.5	29.8	32.7	121.65	945.4	460.0	515.8	476.4	39.34	13.111	
12,050.0	11,877.0	11,965.3	11,877.0	29.8	32.7	121.48	945.4	460.0	528.5	488.9	39.55	13.364	
12,075.0	11,892.6	11,980.9	11,892.6	29.7	32.7	121.14	945.4	460.0	542.1	502.4	39.78	13.627	
12,100.0	11,907.1	11,995.4	11,907.1	29.7	32.7	120.59	945.4	460.0	556.7	516.7	40.05	13.902	
12,125.0	11,920.6	12,008.8	11,920.6	29.6	32.7	119.81	945.4	460.0	572.2	531.9	40.33	14.188	
12,150.0	11,932.9	12,021.2	11,932.9	29.6	32.7	118.77	945.4	460.0	588.6	547.9	40.63	14.485	
12,175.0	11,944.1	12,032.3	11,944.1	29.5	32.7	117.43	945.4	460.0	605.7	564.8	40.95	14.793	
12,200.0	11,954.1	12,042.3	11,954.1	29.5	32.7	115.77	945.4	460.0	623.6	582.4	41.27	15.112	
12,225.0	11,962.8	12,051.1	11,962.8	29.5	32.7	113.73	945.4	460.0	642.3	600.7	41.60	15.441	
12,250.0	11,970.4	12,837.8	12,448.8	29.5	30.5	137.54	441.6	416.1	644.2	589.7	54.43	11.836	
12,275.0	11,976.6	12,866.2	12,448.8	29.5	30.5	137.23	413.2	414.0	640.8	586.1	54.67	11.721	
12,300.0	11,981.6	12,895.0	12,448.8	29.5	30.5	136.96	384.5	412.2	638.3	583.3	54.93	11.619	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		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)			
12,325.0	11,985.4	12,924.1	12,448.8	29.5	30.5	136.72	355.4	410.7	636.6	581.3	55.22	11.527	
12,350.0	11,987.8	12,953.5	12,448.8	29.5	30.5	136.53	326.1	409.4	635.6	580.1	55.54	11.446	
12,367.2	11,988.7	12,973.8	12,448.8	29.5	30.5	136.42	305.8	408.8	635.4	579.7	55.76	11.396	
12,375.0	11,988.9	12,982.9	12,448.8	29.5	30.5	136.39	296.7	408.5	635.5	579.6	55.87	11.375	
12,383.7	11,989.0	12,993.2	12,448.8	29.5	30.5	136.35	286.4	408.3	635.6	579.6	55.98	11.354	
12,400.0	11,989.0	13,012.4	12,448.8	29.5	30.5	136.32	267.2	407.9	635.9	579.7	56.21	11.313	
12,500.0	11,989.0	13,122.4	12,448.8	29.6	30.6	136.27	157.2	407.8	636.3	579.0	57.36	11.094	
12,600.0	11,989.0	13,222.4	12,448.8	29.7	30.6	136.27	57.2	408.4	636.3	578.2	58.18	10.937	
12,700.0	11,989.0	13,322.4	12,448.8	29.8	30.7	136.27	-42.8	409.1	636.3	577.3	59.05	10.776	
12,800.0	11,989.0	13,422.4	12,448.8	30.0	30.7	136.27	-142.8	409.7	636.3	576.4	59.96	10.613	
12,900.0	11,989.0	13,522.4	12,448.8	30.2	30.8	136.27	-242.8	410.3	636.3	575.4	60.90	10.450	
13,000.0	11,989.0	13,622.4	12,448.8	30.4	30.8	136.27	-342.8	410.9	636.3	574.5	61.87	10.285	
13,100.0	11,989.0	13,722.4	12,448.8	30.6	30.9	136.27	-442.8	411.6	636.3	573.5	62.88	10.120	
13,200.0	11,989.0	13,822.4	12,448.8	30.9	31.0	136.27	-542.8	412.2	636.3	572.4	63.92	9.956	
13,300.0	11,989.0	13,922.4	12,448.8	31.1	31.1	136.27	-642.8	412.8	636.3	571.4	64.98	9.792	
13,400.0	11,989.0	14,022.4	12,448.8	31.4	31.3	136.27	-742.8	413.4	636.3	570.3	66.08	9.630	
13,500.0	11,989.0	14,122.4	12,448.8	31.7	31.4	136.27	-842.8	414.1	636.4	569.1	67.20	9.469	
13,600.0	11,989.0	14,222.4	12,448.8	32.1	31.6	136.27	-942.8	414.7	636.4	568.0	68.35	9.310	
13,700.0	11,989.0	14,322.4	12,448.8	32.4	31.8	136.27	-1,042.8	415.3	636.4	566.8	69.52	9.153	
13,800.0	11,989.0	14,422.4	12,448.8	32.8	32.0	136.27	-1,142.8	415.9	636.4	565.6	70.72	8.998	
13,900.0	11,989.0	14,522.4	12,448.8	33.2	32.2	136.27	-1,242.8	416.6	636.4	564.4	71.93	8.846	
14,000.0	11,989.0	14,622.4	12,448.8	33.7	32.5	136.27	-1,342.8	417.2	636.4	563.2	73.17	8.697	
14,100.0	11,989.0	14,722.4	12,448.8	34.1	32.8	136.27	-1,442.8	417.8	636.4	561.9	74.43	8.550	
14,200.0	11,989.0	14,822.4	12,448.8	34.6	33.2	136.27	-1,542.8	418.4	636.4	560.7	75.71	8.406	
14,300.0	11,989.0	14,922.4	12,448.8	35.1	33.5	136.27	-1,642.8	419.1	636.4	559.4	77.00	8.265	
14,400.0	11,989.0	15,022.4	12,448.8	35.6	34.0	136.27	-1,742.8	419.7	636.4	558.0	78.31	8.126	
14,500.0	11,989.0	15,122.4	12,448.8	36.1	34.4	136.27	-1,842.8	420.3	636.4	556.7	79.64	7.991	
14,600.0	11,989.0	15,222.4	12,448.8	36.7	34.9	136.27	-1,942.8	420.9	636.4	555.4	80.98	7.859	
14,700.0	11,989.0	15,322.4	12,448.8	37.3	35.4	136.27	-2,042.8	421.6	636.4	554.0	82.33	7.729	
14,800.0	11,989.0	15,422.4	12,448.8	37.9	36.0	136.26	-2,142.8	422.2	636.4	552.7	83.70	7.603	
14,900.0	11,989.0	15,522.4	12,448.8	38.5	36.6	136.26	-2,242.8	422.8	636.4	551.3	85.09	7.479	
15,000.0	11,989.0	15,622.4	12,448.8	39.1	37.2	136.26	-2,342.8	423.4	636.4	549.9	86.48	7.358	
15,100.0	11,989.0	15,722.4	12,448.8	39.7	37.9	136.26	-2,442.8	424.1	636.4	548.5	87.89	7.241	
15,200.0	11,989.0	15,822.4	12,448.8	40.4	38.5	136.26	-2,542.8	424.7	636.4	547.1	89.31	7.126	
15,300.0	11,989.0	15,922.4	12,448.8	41.1	39.2	136.26	-2,642.8	425.3	636.4	545.6	90.74	7.013	
15,400.0	11,989.0	16,022.4	12,448.8	41.7	39.9	136.26	-2,742.7	425.9	636.4	544.2	92.18	6.904	
15,500.0	11,989.0	16,122.4	12,448.8	42.4	40.7	136.26	-2,842.7	426.6	636.4	542.7	93.62	6.797	
15,600.0	11,989.0	16,222.4	12,448.8	43.1	41.4	136.26	-2,942.7	427.2	636.4	541.3	95.08	6.693	
15,700.0	11,989.0	16,322.4	12,448.8	43.8	42.2	136.26	-3,042.7	427.8	636.4	539.8	96.55	6.591	
15,800.0	11,989.0	16,422.4	12,448.8	44.6	43.0	136.26	-3,142.7	428.4	636.4	538.3	98.03	6.492	
15,900.0	11,989.0	16,522.4	12,448.8	45.3	43.8	136.26	-3,242.7	429.0	636.4	536.9	99.51	6.395	
16,000.0	11,989.0	16,622.4	12,448.8	46.1	44.6	136.26	-3,342.7	429.7	636.4	535.4	101.00	6.301	
16,100.0	11,989.0	16,722.4	12,448.8	46.8	45.4	136.26	-3,442.7	430.3	636.4	533.9	102.50	6.208	
16,200.0	11,989.0	16,822.4	12,448.8	47.6	46.2	136.26	-3,542.7	430.9	636.4	532.4	104.01	6.118	
16,300.0	11,989.0	16,922.4	12,448.8	48.4	47.0	136.26	-3,642.7	431.5	636.4	530.9	105.52	6.031	
16,400.0	11,989.0	17,022.4	12,448.8	49.1	47.8	136.26	-3,742.7	432.2	636.4	529.3	107.04	5.945	
16,500.0	11,989.0	17,122.4	12,448.8	49.9	48.7	136.26	-3,842.7	432.8	636.4	527.8	108.57	5.862	
16,600.0	11,989.0	17,222.4	12,448.8	50.7	49.5	136.26	-3,942.7	433.4	636.4	526.3	110.10	5.780	
16,700.0	11,989.0	17,322.4	12,448.8	51.5	50.4	136.26	-4,042.7	434.0	636.4	524.7	111.64	5.700	
16,800.0	11,989.0	17,422.4	12,448.8	52.3	51.2	136.26	-4,142.7	434.7	636.4	523.2	113.18	5.623	
16,900.0	11,989.0	17,522.4	12,448.8	53.1	52.1	136.26	-4,242.7	435.3	636.4	521.7	114.73	5.547	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		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)			
17,000.0	11,989.0	17,622.4	12,448.8	54.0	53.0	136.26	-4,342.7	435.9	636.4	520.1	116.28	5.473	
17,100.0	11,989.0	17,722.4	12,448.8	54.8	53.8	136.26	-4,442.7	436.5	636.4	518.5	117.84	5.400	
17,200.0	11,989.0	17,822.4	12,448.8	55.6	54.7	136.26	-4,542.7	437.2	636.4	517.0	119.40	5.330	
17,300.0	11,989.0	17,922.4	12,448.8	56.4	55.6	136.26	-4,642.7	437.8	636.4	515.4	120.97	5.261	
17,400.0	11,989.0	18,022.4	12,448.8	57.3	56.5	136.26	-4,742.7	438.4	636.4	513.8	122.54	5.193	
17,500.0	11,989.0	18,122.4	12,448.8	58.1	57.4	136.26	-4,842.7	439.0	636.4	512.3	124.12	5.127	
17,600.0	11,989.0	18,222.4	12,448.8	59.0	58.2	136.26	-4,942.7	439.7	636.4	510.7	125.70	5.063	
17,700.0	11,989.0	18,322.4	12,448.8	59.8	59.1	136.26	-5,042.7	440.3	636.4	509.1	127.28	5.000	
17,800.0	11,989.0	18,422.4	12,448.8	60.7	60.0	136.26	-5,142.7	440.9	636.4	507.5	128.87	4.938	
17,900.0	11,989.0	18,522.4	12,448.8	61.5	60.9	136.26	-5,242.7	441.5	636.4	505.9	130.46	4.878	
18,000.0	11,989.0	18,622.4	12,448.8	62.4	61.8	136.26	-5,342.7	442.2	636.4	504.3	132.06	4.819	
18,100.0	11,989.0	18,722.4	12,448.8	63.3	62.7	136.26	-5,442.7	442.8	636.4	502.7	133.65	4.761	
18,200.0	11,989.0	18,822.4	12,448.8	64.1	63.6	136.26	-5,542.7	443.4	636.4	501.1	135.26	4.705	
18,300.0	11,989.0	18,922.4	12,448.8	65.0	64.5	136.26	-5,642.7	444.0	636.4	499.5	136.86	4.650	
18,400.0	11,989.0	19,022.4	12,448.8	65.9	65.4	136.26	-5,742.7	444.7	636.4	497.9	138.47	4.596	
18,500.0	11,989.0	19,122.4	12,448.8	66.7	66.3	136.26	-5,842.7	445.3	636.4	496.3	140.08	4.543	
18,600.0	11,989.0	19,222.4	12,448.8	67.6	67.2	136.26	-5,942.7	445.9	636.4	494.7	141.69	4.491	
18,700.0	11,989.0	19,322.4	12,448.8	68.5	68.2	136.26	-6,042.7	446.5	636.4	493.1	143.31	4.441	
18,800.0	11,989.0	19,422.4	12,448.8	69.4	69.1	136.26	-6,142.7	447.2	636.4	491.5	144.92	4.391	
18,900.0	11,989.0	19,522.4	12,448.8	70.3	70.0	136.26	-6,242.7	447.8	636.4	489.9	146.54	4.343	
19,000.0	11,989.0	19,622.4	12,448.8	71.2	70.9	136.26	-6,342.7	448.4	636.4	488.2	148.17	4.295	
19,100.0	11,989.0	19,722.4	12,448.8	72.0	71.8	136.26	-6,442.7	449.0	636.4	486.6	149.79	4.249	
19,200.0	11,989.0	19,822.4	12,448.8	72.9	72.7	136.26	-6,542.7	449.6	636.4	485.0	151.42	4.203	
19,300.0	11,989.0	19,922.4	12,448.8	73.8	73.7	136.26	-6,642.7	450.3	636.4	483.4	153.05	4.158	
19,400.0	11,989.0	20,022.4	12,448.8	74.7	74.6	136.26	-6,742.7	450.9	636.4	481.7	154.68	4.114	
19,500.0	11,989.0	20,122.4	12,448.8	75.6	75.5	136.26	-6,842.7	451.5	636.4	480.1	156.32	4.071	
19,600.0	11,989.0	20,222.4	12,448.8	76.5	76.4	136.26	-6,942.7	452.1	636.4	478.5	157.95	4.029	
19,700.0	11,989.0	20,322.4	12,448.8	77.4	77.3	136.26	-7,042.7	452.8	636.4	476.8	159.59	3.988	
19,746.4	11,989.0	20,368.8	12,448.8	77.8	77.8	136.26	-7,089.0	453.1	636.4	476.2	160.18	3.973	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		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	8,377.8	13,367.0	8,953.4	29.6	80.9	92.31	723.3	1,597.0	948.3	848.5	99.83	9.499	
8,600.0	8,477.8	13,367.0	8,953.4	29.6	80.9	92.31	723.3	1,597.0	891.1	787.0	104.14	8.557	
8,700.0	8,577.8	13,367.0	8,953.4	29.6	80.9	92.31	723.3	1,597.0	842.0	733.6	108.44	7.765	
8,800.0	8,677.8	13,367.0	8,953.4	29.7	80.9	92.31	723.3	1,597.0	802.4	690.0	112.40	7.139	
8,900.0	8,777.8	13,367.0	8,953.4	29.7	80.9	92.31	723.3	1,597.0	773.8	658.2	115.63	6.692	
9,000.0	8,877.8	13,367.0	8,953.4	29.8	80.9	92.31	723.3	1,597.0	757.4	639.6	117.74	6.433	
9,075.6	8,953.4	13,367.0	8,953.4	29.8	80.9	92.31	723.3	1,597.0	753.6	635.2	118.41	6.364 CC, ES, SF	
9,100.0	8,977.8	13,367.0	8,953.4	29.8	80.9	92.31	723.3	1,597.0	754.0	635.6	118.45	6.366	
9,200.0	9,077.8	13,367.0	8,953.4	29.8	80.9	92.31	723.3	1,597.0	763.8	646.1	117.66	6.492	
9,300.0	9,177.8	13,367.0	8,953.4	29.9	80.9	92.31	723.3	1,597.0	786.3	670.8	115.56	6.805	
9,400.0	9,277.8	13,367.0	8,953.4	29.9	80.9	92.31	723.3	1,597.0	820.5	708.0	112.47	7.295	
9,500.0	9,377.8	13,367.0	8,953.4	30.0	80.9	92.31	723.3	1,597.0	864.9	756.1	108.80	7.950	
9,600.0	9,477.8	13,367.0	8,953.4	30.0	80.9	92.31	723.3	1,597.0	918.1	813.2	104.90	8.752	
9,700.0	9,577.8	13,367.0	8,953.4	30.0	80.9	92.31	723.3	1,597.0	978.7	877.6	101.05	9.685	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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		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	
11,000.0	10,877.8	16,490.1	11,806.5	30.6	81.4	82.69	777.3	1,028.3	947.1	870.2	76.96	12.307	
11,100.0	10,977.8	16,491.0	11,806.5	30.6	81.4	82.96	776.5	1,028.4	849.3	771.6	77.74	10.925	
11,200.0	11,077.8	16,492.0	11,806.6	30.7	81.4	83.26	775.5	1,028.4	752.0	673.3	78.74	9.551	
11,300.0	11,177.8	16,493.0	11,806.6	30.7	81.4	83.58	774.4	1,028.5	655.6	575.5	80.08	8.186	
11,400.0	11,277.8	16,494.2	11,806.6	30.8	81.4	83.94	773.3	1,028.5	560.4	478.4	81.98	6.836	
11,500.0	11,377.8	16,495.5	11,806.6	30.8	81.5	84.34	772.0	1,028.6	467.2	382.4	84.82	5.508	
11,600.0	11,477.8	16,496.9	11,806.6	30.8	81.5	84.78	770.6	1,028.7	377.5	288.2	89.36	4.225	
11,633.7	11,511.5	16,497.4	11,806.6	30.8	81.5	84.94	770.0	1,028.7	348.6	257.1	91.48	3.811	
11,650.0	11,527.8	16,497.9	11,806.7	30.8	81.5	-97.55	769.6	1,028.8	334.9	242.2	92.65	3.615	
11,675.0	11,552.8	16,499.6	11,806.7	30.8	81.5	-101.22	767.9	1,028.9	314.5	219.8	94.64	3.323	
11,700.0	11,577.6	16,502.4	11,806.8	30.7	81.6	-104.07	765.1	1,029.0	294.9	198.0	96.91	3.043	
11,725.0	11,602.3	16,506.5	11,806.9	30.7	81.6	-106.11	761.1	1,029.2	276.4	177.0	99.46	2.779 Normal Operations	
11,750.0	11,626.7	16,511.7	11,807.0	30.6	81.7	-107.38	755.8	1,029.6	259.2	156.9	102.28	2.534 Normal Operations	
11,775.0	11,650.8	16,518.3	11,807.2	30.5	81.8	-107.93	749.3	1,029.9	243.5	138.1	105.33	2.311 Caution - Monitor Closely	
11,800.0	11,674.5	16,526.5	11,807.5	30.4	82.0	-107.67	741.0	1,030.4	229.4	120.9	108.56	2.113 Caution - Monitor Closely	
11,825.0	11,697.7	16,537.1	11,807.9	30.4	82.1	-106.48	730.4	1,031.1	217.4	105.5	111.89	1.943 Caution - Monitor Closely	
11,850.0	11,720.5	16,548.7	11,808.2	30.3	82.3	-104.74	718.9	1,031.7	207.4	92.3	115.05	1.803 Caution - Monitor Closely	
11,875.0	11,742.7	16,561.2	11,808.5	30.2	82.5	-102.49	706.4	1,032.5	199.7	81.8	117.83	1.695 Caution - Monitor Closely	
11,900.0	11,764.2	16,574.6	11,808.7	30.2	82.7	-99.76	693.1	1,033.3	194.3	74.3	120.03	1.619 Caution - Monitor Closely	
11,925.0	11,785.1	16,588.8	11,808.8	30.1	83.0	-96.59	678.9	1,034.1	191.4	69.9	121.49	1.575 Caution - Monitor Closely	
11,944.9	11,801.1	16,600.6	11,808.8	30.0	83.2	-93.82	667.1	1,034.8	190.7	68.6	122.08	1.562 Caution - Monitor Closely, CC	
11,950.0	11,805.2	16,603.7	11,808.8	30.0	83.2	-93.06	664.0	1,035.0	190.7	68.6	122.15	1.562 Caution - Monitor Closely, ES, SF	
11,975.0	11,824.5	16,619.4	11,808.7	29.9	83.5	-89.24	648.4	1,035.9	192.2	70.2	122.04	1.575 Caution - Monitor Closely	
12,000.0	11,842.9	16,636.0	11,808.4	29.9	83.7	-85.14	631.7	1,036.9	195.5	74.2	121.32	1.611 Caution - Monitor Closely	
12,025.0	11,860.5	16,653.6	11,808.2	29.8	84.0	-80.93	614.2	1,037.9	200.3	80.2	120.16	1.667 Caution - Monitor Closely	
12,050.0	11,877.0	16,672.0	11,807.9	29.8	84.3	-76.73	595.8	1,039.0	206.3	87.5	118.73	1.737 Caution - Monitor Closely	
12,075.0	11,892.6	16,691.2	11,807.5	29.7	84.6	-72.63	576.7	1,040.1	213.1	95.9	117.20	1.818 Caution - Monitor Closely	
12,100.0	11,907.1	16,711.1	11,807.1	29.7	84.9	-68.75	556.8	1,041.2	220.4	104.7	115.69	1.905 Caution - Monitor Closely	
12,125.0	11,920.6	16,735.1	11,807.1	29.6	85.3	-64.88	532.8	1,042.7	227.8	113.4	114.39	1.991 Caution - Monitor Closely	
12,150.0	11,932.9	16,757.1	11,807.6	29.6	85.7	-61.81	510.9	1,044.1	235.0	121.7	113.28	2.074 Caution - Monitor Closely	
12,175.0	11,944.1	16,779.6	11,808.0	29.5	86.0	-59.12	488.4	1,045.5	241.9	129.6	112.36	2.153 Caution - Monitor Closely	
12,200.0	11,954.1	16,790.0	11,808.3	29.5	86.2	-57.62	478.1	1,046.2	248.8	137.3	111.48	2.232 Caution - Monitor Closely	
12,225.0	11,962.8	16,790.0	11,808.3	29.5	86.2	-56.74	478.1	1,046.2	257.1	146.9	110.14	2.334 Caution - Monitor Closely	
12,250.0	11,970.4	16,790.0	11,808.3	29.5	86.2	-55.69	478.1	1,046.2	266.8	158.4	108.40	2.461 Caution - Monitor Closely	
12,275.0	11,976.6	16,790.0	11,808.3	29.5	86.2	-54.48	478.1	1,046.2	277.8	171.4	106.35	2.612 Normal Operations	
12,300.0	11,981.6	16,790.0	11,808.3	29.5	86.2	-53.15	478.1	1,046.2	289.9	185.8	104.09	2.785 Normal Operations	
12,325.0	11,985.4	16,790.0	11,808.3	29.5	86.2	-51.70	478.1	1,046.2	302.9	201.2	101.68	2.979 Normal Operations	
12,350.0	11,987.8	16,790.0	11,808.3	29.5	86.2	-50.16	478.1	1,046.2	316.7	217.5	99.19	3.192	
12,375.0	11,988.9	16,790.0	11,808.3	29.5	86.2	-48.54	478.1	1,046.2	331.1	234.4	96.68	3.425	
12,383.7	11,989.0	16,790.0	11,808.3	29.5	86.2	-47.97	478.1	1,046.2	336.3	240.5	95.80	3.510	
12,400.0	11,989.0	16,790.0	11,808.3	29.5	86.2	-47.97	478.1	1,046.2	346.2	252.1	94.15	3.677	
12,500.0	11,989.0	16,790.0	11,808.3	29.6	86.2	-47.97	478.1	1,046.2	416.2	331.6	84.66	4.917	
12,600.0	11,989.0	16,790.0	11,808.3	29.7	86.2	-47.97	478.1	1,046.2	496.6	419.6	77.05	6.445	
12,700.0	11,989.0	16,790.0	11,808.3	29.8	86.2	-47.97	478.1	1,046.2	583.1	511.8	71.34	8.173	
12,800.0	11,989.0	16,790.0	11,808.3	30.0	86.2	-47.97	478.1	1,046.2	673.3	606.3	67.09	10.037	
12,900.0	11,989.0	16,790.0	11,808.3	30.2	86.2	-47.97	478.1	1,046.2	766.0	702.1	63.88	11.991	
13,000.0	11,989.0	16,790.0	11,808.3	30.4	86.2	-47.97	478.1	1,046.2	860.3	798.9	61.42	14.006	
13,100.0	11,989.0	16,790.0	11,808.3	30.6	86.2	-47.97	478.1	1,046.2	955.8	896.3	59.50	16.062	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W1CN FEDERAL COM 002H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		100-r.5 MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
11,600.0	11,477.8	16,618.0	12,058.6	30.8	84.4	84.87	823.1	1,617.2	969.5	869.5	99.95	9.700		
11,633.7	11,511.5	16,618.0	12,058.6	30.8	84.4	84.87	823.1	1,617.2	949.7	848.2	101.46	9.360		
11,650.0	11,527.8	16,618.0	12,058.6	30.8	84.4	-96.12	823.1	1,617.2	940.4	838.2	102.21	9.201		
11,675.0	11,552.8	16,618.0	12,058.6	30.8	84.4	-98.08	823.1	1,617.2	926.7	823.3	103.37	8.964		
11,700.0	11,577.6	16,619.7	12,058.7	30.7	84.5	-99.78	821.4	1,617.2	913.6	809.0	104.57	8.737		
11,725.0	11,602.3	16,627.1	12,059.4	30.7	84.6	-100.97	814.1	1,617.5	901.1	795.3	105.82	8.515		
11,750.0	11,626.7	16,635.8	12,060.2	30.6	84.7	-101.94	805.4	1,617.8	889.3	782.2	107.10	8.304		
11,775.0	11,650.8	16,645.8	12,061.1	30.5	84.9	-102.72	795.5	1,618.1	878.3	769.9	108.39	8.103		
11,800.0	11,674.5	16,657.0	12,062.1	30.4	85.0	-103.32	784.3	1,618.5	867.9	758.3	109.68	7.914		
11,825.0	11,697.7	16,669.5	12,063.1	30.4	85.2	-103.75	771.8	1,618.9	858.4	747.4	110.97	7.735		
11,850.0	11,720.5	16,683.1	12,064.2	30.3	85.4	-104.01	758.3	1,619.4	849.5	737.3	112.25	7.568		
11,875.0	11,742.7	16,697.8	12,065.4	30.2	85.7	-104.14	743.6	1,619.8	841.4	727.9	113.52	7.412		
11,900.0	11,764.2	16,713.6	12,066.6	30.2	85.9	-104.13	727.9	1,620.3	834.0	719.2	114.77	7.267		
11,925.0	11,785.1	16,729.6	12,067.7	30.1	86.1	-104.05	711.9	1,620.9	827.3	711.4	115.99	7.133		
11,950.0	11,805.2	16,746.5	12,068.7	30.0	86.4	-103.86	695.1	1,621.4	821.4	704.2	117.18	7.009		
11,975.0	11,824.5	16,764.0	12,069.7	29.9	86.7	-103.58	677.6	1,622.0	816.1	697.7	118.35	6.896		
12,000.0	11,842.9	16,782.3	12,070.6	29.9	87.0	-103.23	659.4	1,622.7	811.5	692.0	119.48	6.791		
12,025.0	11,860.5	16,801.2	12,071.3	29.8	87.3	-102.80	640.5	1,623.4	807.5	686.9	120.58	6.696		
12,050.0	11,877.0	16,820.2	12,072.0	29.8	87.6	-102.35	621.5	1,624.2	804.1	682.4	121.64	6.610		
12,075.0	11,892.6	16,839.7	12,072.6	29.7	87.9	-101.85	602.1	1,625.0	801.2	678.6	122.65	6.532		
12,100.0	11,907.1	16,859.9	12,073.3	29.7	88.2	-101.33	581.9	1,625.9	798.9	675.3	123.63	6.463		
12,125.0	11,920.6	16,880.8	12,074.0	29.6	88.5	-100.78	561.0	1,626.7	797.1	672.6	124.56	6.400		
12,150.0	11,932.9	16,902.4	12,074.7	29.6	88.8	-100.22	539.5	1,627.7	795.8	670.3	125.44	6.344		
12,175.0	11,944.1	16,925.0	12,075.4	29.5	89.2	-99.66	516.9	1,628.6	794.8	668.5	126.29	6.293		
12,200.0	11,954.1	16,948.2	12,076.2	29.5	89.5	-99.11	493.7	1,629.7	794.2	667.1	127.10	6.248		
12,220.7	11,961.4	16,960.0	12,076.6	29.5	89.7	-98.86	481.9	1,630.2	793.9	666.3	127.66	6.219 CC		
12,225.0	11,962.8	16,960.0	12,076.6	29.5	89.7	-98.85	481.9	1,630.2	793.9	666.2	127.75	6.215 ES		
12,250.0	11,970.4	16,960.0	12,076.6	29.5	89.7	-98.78	481.9	1,630.2	794.6	666.5	128.14	6.201 SF		
12,275.0	11,976.6	16,960.0	12,076.6	29.5	89.7	-98.58	481.9	1,630.2	796.3	667.9	128.39	6.202		
12,300.0	11,981.6	16,960.0	12,076.6	29.5	89.7	-98.27	481.9	1,630.2	798.9	670.4	128.48	6.218		
12,325.0	11,985.4	16,960.0	12,076.6	29.5	89.7	-97.84	481.9	1,630.2	802.5	674.0	128.42	6.248		
12,350.0	11,987.8	16,960.0	12,076.6	29.5	89.7	-97.29	481.9	1,630.2	807.0	678.7	128.22	6.294		
12,375.0	11,988.9	16,960.0	12,076.6	29.5	89.7	-96.63	481.9	1,630.2	812.4	684.5	127.87	6.353		
12,383.7	11,989.0	16,960.0	12,076.6	29.5	89.7	-96.37	481.9	1,630.2	814.5	686.8	127.71	6.377		
12,400.0	11,989.0	16,960.0	12,076.6	29.5	89.7	-96.37	481.9	1,630.2	818.6	691.3	127.39	6.427		
12,500.0	11,989.0	16,960.0	12,076.6	29.6	89.7	-96.37	481.9	1,630.2	850.6	726.0	124.63	6.825		
12,600.0	11,989.0	16,960.0	12,076.6	29.7	89.7	-96.37	481.9	1,630.2	892.8	771.9	120.87	7.386		
12,700.0	11,989.0	16,960.0	12,076.6	29.8	89.7	-96.37	481.9	1,630.2	943.6	827.1	116.52	8.098		

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W1DM FEDERAL COM 002H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,400.0	11,277.8	16,750.0	12,063.2	30.8	85.2	-86.76	786.4	267.2	974.9	870.1	104.85	9.298	
11,500.0	11,377.8	16,752.6	12,063.2	30.8	85.2	-87.02	783.7	267.2	896.3	788.1	108.24	8.281	
11,600.0	11,477.8	16,755.3	12,063.3	30.8	85.2	-87.28	781.1	267.1	822.4	710.4	111.96	7.345	
11,633.7	11,511.5	16,756.2	12,063.3	30.8	85.2	-87.37	780.2	267.1	798.8	685.5	113.27	7.052	
11,650.0	11,527.8	16,756.9	12,063.3	30.8	85.3	94.76	779.5	267.1	787.6	673.7	113.92	6.913	
11,675.0	11,552.8	16,759.6	12,063.4	30.8	85.3	97.16	776.8	267.0	770.9	655.9	114.96	6.706	
11,700.0	11,577.6	16,764.8	12,063.5	30.7	85.4	99.17	771.6	266.9	754.8	638.7	116.08	6.503	
11,725.0	11,602.3	16,771.5	12,063.6	30.7	85.5	100.87	764.9	266.8	739.3	622.1	117.22	6.307	
11,750.0	11,626.7	16,779.5	12,063.7	30.6	85.6	102.28	756.9	266.6	724.5	606.1	118.38	6.120	
11,775.0	11,650.8	16,786.2	12,063.7	30.5	85.7	103.67	750.2	266.4	710.4	591.0	119.42	5.949	
11,800.0	11,674.5	16,794.2	12,063.8	30.4	85.8	104.78	742.2	266.2	697.1	576.6	120.47	5.787	
11,825.0	11,697.7	16,803.5	12,063.8	30.4	86.0	105.64	732.9	265.9	684.7	563.2	121.50	5.635	
11,850.0	11,720.5	16,813.9	12,063.9	30.3	86.1	106.27	722.5	265.7	673.1	550.6	122.51	5.494	
11,875.0	11,742.7	16,825.6	12,063.9	30.2	86.3	106.68	710.9	265.3	662.4	538.9	123.48	5.364	
11,900.0	11,764.2	16,830.0	12,064.0	30.2	86.4	107.54	706.4	265.2	652.7	528.6	124.02	5.262	
11,925.0	11,785.1	16,830.0	12,064.0	30.1	86.4	108.58	706.4	265.2	644.1	519.9	124.21	5.186	
11,950.0	11,805.2	16,830.0	12,064.0	30.0	86.4	109.44	706.4	265.2	636.8	512.6	124.21	5.127	
11,975.0	11,824.5	16,830.0	12,064.0	29.9	86.4	110.13	706.4	265.2	630.9	506.9	124.03	5.087	
12,000.0	11,842.9	16,830.0	12,064.0	29.9	86.4	110.66	706.4	265.2	626.3	502.7	123.65	5.065	
12,025.0	11,860.5	16,830.0	12,064.0	29.8	86.4	111.01	706.4	265.2	623.2	500.1	123.06	5.064 SF	
12,050.0	11,877.0	16,830.0	12,064.0	29.8	86.4	111.20	706.4	265.2	621.5	499.3	122.25	5.084 ES	
12,065.9	11,887.0	16,830.0	12,064.0	29.7	86.4	111.23	706.4	265.2	621.2	499.6	121.63	5.107 CC	
12,075.0	11,892.6	16,830.0	12,064.0	29.7	86.4	111.22	706.4	265.2	621.3	500.1	121.24	5.125	
12,100.0	11,907.1	16,830.0	12,064.0	29.7	86.4	111.08	706.4	265.2	622.6	502.6	120.02	5.187	
12,125.0	11,920.6	16,830.0	12,064.0	29.6	86.4	110.77	706.4	265.2	625.3	506.7	118.61	5.272	
12,150.0	11,932.9	16,830.0	12,064.0	29.6	86.4	110.29	706.4	265.2	629.5	512.5	117.03	5.379	
12,175.0	11,944.1	16,830.0	12,064.0	29.5	86.4	109.64	706.4	265.2	635.1	519.8	115.30	5.508	
12,200.0	11,954.1	16,830.0	12,064.0	29.5	86.4	108.83	706.4	265.2	642.0	528.6	113.43	5.660	
12,225.0	11,962.8	16,830.0	12,064.0	29.5	86.4	107.84	706.4	265.2	650.3	538.8	111.46	5.834	
12,250.0	11,970.4	16,830.0	12,064.0	29.5	86.4	106.67	706.4	265.2	659.7	550.3	109.41	6.029	
12,275.0	11,976.6	16,830.0	12,064.0	29.5	86.4	105.32	706.4	265.2	670.3	562.9	107.30	6.246	
12,300.0	11,981.6	16,830.0	12,064.0	29.5	86.4	103.80	706.4	265.2	681.9	576.7	105.16	6.484	
12,325.0	11,985.4	16,830.0	12,064.0	29.5	86.4	102.09	706.4	265.2	694.5	591.5	103.01	6.742	
12,350.0	11,987.8	16,830.0	12,064.0	29.5	86.4	100.20	706.4	265.2	708.0	607.1	100.87	7.018	
12,375.0	11,988.9	16,830.0	12,064.0	29.5	86.4	98.14	706.4	265.2	722.3	623.5	98.76	7.313	
12,383.7	11,989.0	16,830.0	12,064.0	29.5	86.4	97.38	706.4	265.2	727.4	629.4	98.04	7.420	
12,400.0	11,989.0	16,830.0	12,064.0	29.5	86.4	97.38	706.4	265.2	737.2	640.6	96.69	7.625	
12,500.0	11,989.0	16,830.0	12,064.0	29.6	86.4	97.38	706.4	265.2	802.2	713.4	88.81	9.033	
12,600.0	11,989.0	16,830.0	12,064.0	29.7	86.4	97.38	706.4	265.2	873.8	792.0	81.78	10.685	
12,700.0	11,989.0	16,830.0	12,064.0	29.8	86.4	97.38	706.4	265.2	950.6	874.9	75.67	12.563	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	7.0	0.4	3.0	0.0	80.55	147.6	886.6	898.8					
100.0	100.0	113.1	106.5	3.1	0.1	80.49	148.5	886.0	898.4	893.2	5.15	174.311		
200.0	200.0	218.3	211.7	3.3	0.4	80.36	150.2	884.6	897.4	891.9	5.50	163.042		
300.0	300.0	319.6	312.9	3.6	0.7	80.25	151.7	882.9	895.9	890.0	5.86	152.917		
400.0	400.0	411.5	404.8	3.8	0.9	80.11	153.7	881.6	894.9	888.7	6.21	144.123		
443.3	443.3	450.0	443.3	3.8	1.0	80.04	154.8	881.3	894.8	888.4	6.35	140.810		
500.0	500.0	500.0	493.3	4.0	1.1	79.92	156.6	881.1	895.0	888.4	6.55	136.585		
600.0	600.0	597.1	590.3	4.1	1.4	79.66	160.9	881.2	895.9	889.0	6.90	129.812		
700.0	700.0	687.6	680.6	4.3	1.6	79.34	166.0	881.8	897.5	890.2	7.24	123.913		
800.0	800.0	780.7	773.5	4.5	1.8	78.94	172.6	882.9	900.0	892.4	7.59	118.634		
900.0	900.0	867.8	860.3	4.7	2.1	78.52	179.7	884.7	903.6	895.9	7.77	116.308		
1,000.0	1,000.0	962.4	954.4	4.8	2.4	78.01	188.4	887.5	908.5	900.3	8.15	111.497		
1,100.0	1,100.0	1,062.8	1,054.4	5.0	2.8	77.49	197.7	890.7	913.5	905.0	8.55	106.874		
1,200.0	1,200.0	1,161.7	1,152.8	5.2	3.1	77.02	206.0	893.9	918.6	909.6	8.94	102.721		
1,300.0	1,300.0	1,254.4	1,245.2	5.3	3.5	76.63	213.4	897.4	924.0	914.7	9.32	99.120		
1,400.0	1,400.0	1,350.9	1,341.3	5.5	3.8	76.24	220.9	901.7	930.2	920.5	9.72	95.722		
1,500.0	1,500.0	1,466.6	1,456.6	5.6	4.3	75.86	228.3	906.5	935.8	925.6	10.21	91.688		
1,600.0	1,600.0	1,571.6	1,561.5	5.8	4.7	75.67	232.5	910.2	940.2	929.6	10.62	88.534		
1,700.0	1,700.0	1,676.9	1,666.7	5.9	5.0	75.51	236.1	913.5	944.1	933.1	11.04	85.539		
1,800.0	1,800.0	1,786.0	1,775.7	6.0	5.4	75.35	239.4	916.0	947.1	935.6	11.45	82.710		
1,900.0	1,900.0	1,895.4	1,885.0	6.2	5.7	75.21	242.2	917.7	949.2	937.4	11.85	80.104		
2,000.0	2,000.0	2,002.8	1,992.4	6.3	5.8	75.27	241.6	919.1	950.3	938.1	12.20	77.880		
2,050.0	2,050.0	2,055.3	2,044.9	6.4	5.9	75.33	240.8	919.7	950.7	938.4	12.32	77.176		
2,100.0	2,100.0	2,108.0	2,097.6	6.4	5.9	-14.64	240.2	920.0	950.6	938.1	12.42	76.528		
2,200.0	2,200.0	2,211.4	2,201.0	6.5	6.0	-14.66	239.8	920.2	948.1	935.4	12.69	74.696		
2,300.0	2,299.8	2,316.5	2,306.1	6.7	6.1	-14.78	239.9	919.7	942.6	929.7	12.92	72.951		
2,383.3	2,382.9	2,398.3	2,387.9	6.8	6.1	-14.91	239.9	919.2	936.0	922.9	13.07	71.622		
2,400.0	2,399.5	2,414.9	2,404.5	6.8	6.1	-11.64	239.9	919.1	934.5	921.4	13.09	71.404		
2,500.0	2,499.0	2,516.1	2,505.7	7.1	6.1	3.94	239.6	918.6	923.8	910.5	13.35	69.202		
2,600.0	2,598.2	2,618.0	2,607.6	7.3	6.2	14.16	239.6	917.6	910.6	897.0	13.63	66.797		
2,700.0	2,697.0	2,716.6	2,706.2	7.5	6.3	21.19	239.7	916.5	894.9	881.0	13.95	64.147		
2,800.0	2,795.3	2,812.2	2,801.8	7.8	6.3	26.40	239.9	915.6	877.2	862.9	14.30	61.345		
2,890.9	2,884.1	2,900.8	2,890.4	8.1	6.5	30.25	240.3	914.8	859.3	844.7	14.62	58.784		
2,900.0	2,892.9	2,909.5	2,899.1	8.1	6.5	30.32	240.3	914.7	857.4	842.8	14.64	58.554		
3,000.0	2,990.3	3,003.8	2,993.4	8.4	6.6	31.03	240.8	914.1	837.0	822.0	15.07	55.561		
3,100.0	3,087.6	3,096.0	3,085.6	8.7	6.8	31.78	241.3	913.9	817.3	801.9	15.45	52.892		
3,200.0	3,185.0	3,190.5	3,180.1	9.0	6.9	32.60	241.4	914.3	798.3	782.4	15.87	50.296		
3,300.0	3,282.3	3,284.8	3,274.4	9.4	7.0	33.47	241.6	915.1	779.7	763.4	16.31	47.819		
3,400.0	3,379.7	3,380.0	3,369.5	9.7	7.2	34.38	241.8	916.2	761.8	745.1	16.75	45.477		
3,500.0	3,477.0	3,481.0	3,470.6	10.0	7.4	35.39	242.3	917.4	744.1	726.9	17.20	43.255		
3,600.0	3,574.4	3,584.0	3,573.6	10.4	7.6	36.45	242.8	917.7	725.8	708.2	17.63	41.169		
3,700.0	3,671.7	3,680.8	3,670.4	10.8	7.7	37.51	243.1	917.7	707.4	689.3	18.04	39.209		
3,800.0	3,769.1	3,775.3	3,764.8	11.1	7.8	38.62	243.1	918.1	689.6	671.2	18.46	37.357		
3,900.0	3,866.4	3,871.7	3,861.3	11.5	7.9	39.84	242.8	918.9	672.4	653.5	18.88	35.615		
4,000.0	3,963.8	3,969.5	3,959.1	11.9	8.0	41.15	242.4	919.6	655.6	636.3	19.29	33.994		
4,100.0	4,061.1	4,065.1	4,054.6	12.3	8.1	42.53	241.6	920.4	639.1	619.4	19.67	32.483		
4,200.0	4,158.5	4,158.1	4,147.6	12.7	8.1	44.00	240.2	921.7	623.6	603.5	20.05	31.100		
4,300.0	4,255.8	4,255.6	4,245.1	13.1	8.2	45.64	238.5	923.5	609.1	588.7	20.41	29.841		
4,400.0	4,353.2	4,356.6	4,346.0	13.6	8.2	47.37	237.1	924.9	594.6	573.8	20.75	28.658		
4,500.0	4,450.5	4,455.0	4,444.5	14.0	8.3	49.11	236.1	925.9	580.2	559.1	21.07	27.540		
4,600.0	4,547.9	4,552.0	4,541.4	14.4	8.4	50.90	235.3	926.8	566.3	545.1	21.24	26.663		

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,700.0	4,645.2	4,640.3	4,629.8	14.8	8.5	52.60	234.5	928.2	553.6	532.1	21.55	25.692	
4,800.0	4,742.6	4,723.0	4,712.4	15.3	8.7	54.21	233.8	931.5	543.9	522.0	21.88	24.854	
4,900.0	4,839.9	4,809.1	4,798.2	15.7	8.9	55.83	233.4	937.5	537.5	515.3	22.20	24.209	
5,000.0	4,937.3	4,904.6	4,893.5	16.1	9.1	57.61	233.3	945.5	533.0	510.5	22.49	23.701	
5,100.0	5,034.6	5,003.9	4,992.3	16.6	9.4	59.48	233.2	953.8	529.0	506.3	22.75	23.251	
5,200.0	5,131.9	5,100.4	5,088.6	17.0	9.6	61.34	232.9	961.9	525.7	502.7	23.00	22.857	
5,300.0	5,229.3	5,198.0	5,185.8	17.5	9.9	63.23	232.6	970.5	523.4	500.2	23.23	22.535	
5,400.0	5,326.6	5,296.4	5,283.8	17.9	10.2	65.16	232.2	979.0	521.6	498.1	23.44	22.250	
5,500.0	5,424.0	5,394.1	5,381.1	18.4	10.5	66.95	233.0	988.1	520.6	496.9	23.66	22.004	
5,600.0	5,521.3	5,493.3	5,479.9	18.8	10.8	68.75	233.9	997.4	520.0	496.2	23.86	21.791	
5,700.0	5,618.7	5,594.5	5,580.6	19.3	11.1	70.60	234.9	1,006.7	519.8	495.7	24.06	21.606	
5,800.0	5,716.0	5,695.0	5,680.7	19.7	11.4	72.47	235.8	1,015.3	519.6	495.3	24.23	21.439	
5,827.9	5,743.2	5,722.8	5,708.4	19.9	11.5	72.98	236.1	1,017.6	519.5	495.3	24.28	21.396 CC, ES	
5,900.0	5,813.4	5,793.8	5,779.2	20.2	11.7	74.30	236.9	1,023.6	519.7	495.3	24.40	21.297	
6,000.0	5,910.7	5,893.0	5,878.0	20.6	12.0	76.17	237.8	1,031.7	520.3	495.8	24.56	21.185	
6,100.0	6,008.1	5,995.8	5,980.6	21.1	12.3	78.24	237.9	1,039.1	521.1	496.4	24.71	21.092	
6,200.0	6,105.4	6,095.2	6,079.8	21.6	12.6	80.44	236.8	1,044.5	521.9	497.1	24.82	21.028	
6,300.0	6,202.8	6,194.9	6,179.4	22.0	12.9	82.72	235.3	1,049.4	523.3	498.4	24.94	20.983	
6,400.0	6,300.1	6,298.6	6,283.0	22.5	13.1	85.20	233.4	1,052.9	524.8	499.7	25.06	20.938	
6,500.0	6,397.5	6,397.7	6,382.0	22.9	13.3	87.68	231.3	1,055.1	526.5	501.3	25.20	20.891	
6,600.0	6,494.8	6,496.2	6,480.5	23.4	13.4	90.14	229.2	1,056.9	528.9	503.6	25.38	20.843	
6,700.0	6,592.2	6,594.9	6,579.2	23.9	13.6	92.59	227.2	1,058.5	532.1	506.5	25.60	20.783	
6,799.6	6,689.2	6,691.9	6,676.1	24.3	13.7	94.99	225.2	1,059.8	536.1	510.3	25.88	20.717	
6,800.0	6,689.5	6,692.2	6,676.4	24.3	13.7	95.00	225.2	1,059.8	536.2	510.3	25.88	20.717	
6,900.0	6,787.1	6,791.6	6,775.8	24.8	13.9	97.38	223.2	1,061.1	541.0	514.8	26.22	20.637	
7,000.0	6,885.0	6,893.4	6,877.6	25.3	14.0	99.61	221.8	1,061.8	545.7	519.1	26.59	20.520	
7,100.0	6,983.2	6,991.6	6,975.8	25.7	14.0	101.59	220.4	1,062.1	550.5	523.6	26.99	20.399	
7,200.0	7,081.8	7,090.6	7,074.8	26.2	14.1	103.40	218.9	1,062.2	555.6	528.2	27.41	20.272	
7,300.0	7,180.6	7,189.7	7,173.9	26.6	14.2	104.99	217.7	1,062.3	560.6	532.7	27.85	20.131	
7,400.0	7,279.7	7,288.1	7,272.3	27.0	14.2	106.40	216.3	1,062.4	565.5	537.3	28.24	20.022	
7,500.0	7,379.0	7,387.2	7,371.4	27.4	14.2	107.65	214.7	1,062.2	570.3	541.6	28.69	19.881	
7,600.0	7,478.5	7,487.1	7,471.2	27.8	14.3	108.76	213.0	1,061.7	574.8	545.7	29.10	19.751	
7,700.0	7,578.2	7,588.1	7,572.2	28.2	14.2	109.71	211.4	1,060.9	578.6	549.2	29.50	19.618	
7,800.0	7,678.0	7,687.4	7,671.5	28.5	14.2	110.47	209.9	1,060.0	581.9	552.1	29.85	19.491	
7,900.0	7,777.9	7,787.0	7,771.0	28.9	14.2	111.08	208.3	1,059.1	584.7	554.6	30.19	19.370	
8,000.0	7,877.8	7,885.0	7,869.1	29.2	14.2	111.52	206.6	1,058.2	587.1	556.7	30.48	19.262	
8,100.0	7,977.8	7,983.4	7,967.5	29.4	14.2	111.78	204.6	1,057.5	589.2	558.5	30.74	19.166	
8,122.2	8,000.0	8,005.7	7,989.7	29.4	14.2	158.79	204.1	1,057.3	589.6	558.9	30.79	19.153	
8,200.0	8,077.8	8,084.4	8,068.4	29.5	14.2	158.91	202.4	1,056.6	590.9	560.0	30.94	19.098	
8,300.0	8,177.8	8,184.8	8,168.8	29.5	14.2	159.08	200.3	1,055.5	592.5	561.3	31.15	19.023	
8,400.0	8,277.8	8,284.7	8,268.6	29.5	14.2	159.27	198.2	1,054.2	594.0	562.7	31.35	18.951	
8,500.0	8,377.8	8,386.9	8,370.8	29.6	14.2	159.48	196.1	1,052.7	595.4	563.8	31.55	18.869	
8,600.0	8,477.8	8,488.1	8,472.0	29.6	14.1	159.72	194.2	1,050.7	596.5	564.7	31.75	18.787	
8,700.0	8,577.8	8,589.3	8,573.1	29.6	14.0	160.06	192.2	1,047.6	597.3	565.3	31.95	18.697	
8,800.0	8,677.8	8,681.6	8,665.3	29.7	14.0	160.48	189.9	1,043.9	598.4	566.3	32.11	18.635 SF	
8,900.0	8,777.8	8,745.3	8,728.9	29.7	14.0	160.76	186.5	1,042.0	602.7	570.6	32.13	18.760	
9,000.0	8,877.8	8,790.0	8,773.1	29.8	14.0	160.98	180.2	1,041.7	615.6	583.5	32.08	19.188	
9,100.0	8,977.8	8,835.6	8,817.5	29.8	14.1	161.22	169.9	1,042.5	637.1	605.0	32.08	19.859	
9,200.0	9,077.8	8,884.0	8,863.7	29.8	14.2	161.53	155.6	1,043.8	666.0	633.8	32.16	20.708	
9,300.0	9,177.8	8,930.4	8,906.7	29.9	14.3	161.96	138.2	1,044.4	701.8	669.5	32.29	21.738	
9,400.0	9,277.8	8,979.0	8,950.6	29.9	14.4	162.49	117.3	1,044.7	743.2	710.7	32.48	22.881	

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 704H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.4usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL 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		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,500.0	9,377.8	9,011.0	8,978.6	30.0	14.5	162.84	101.8	1,045.4	790.5	757.9	32.64	24.220		
9,600.0	9,477.8	9,052.3	9,013.3	30.0	14.5	163.31	79.6	1,046.1	843.2	810.3	32.90	25.633		
9,700.0	9,577.8	9,098.0	9,050.5	30.0	14.7	163.85	52.9	1,047.0	900.2	867.0	33.20	27.119		
9,800.0	9,677.8	9,137.0	9,081.4	30.1	14.8	164.27	29.2	1,048.0	960.3	926.8	33.50	28.667		

ConocoPhillips

Anticollision Report

Company: DELAWARE BASIN EAST
Project: ZIA HILLS UNIT AREA
Reference Site: ZIA HILLS UNIT 2832 PROJECT
Site Error: 0.0 usft
Reference Well: _ZIA HILLS UNIT 2832 WC 704H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP0

Local Co-ordinate Reference: Well _ZIA HILLS UNIT 2832 WC 704H
TVD Reference: KB @ 3186.4usft
MD Reference: KB @ 3186.4usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Reference Depths are relative to KB @ 3186.4usft

Offset Depths are relative to Offset Datum

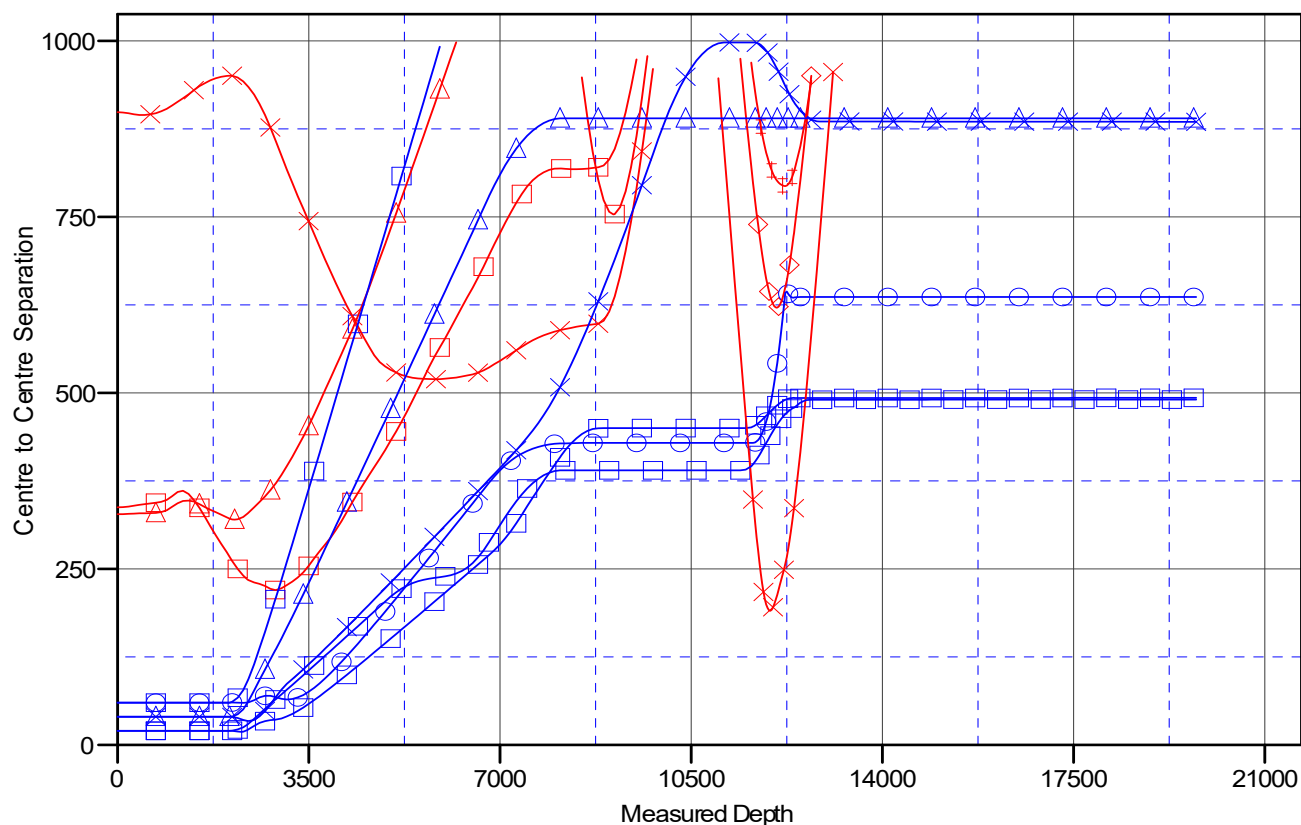
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 704H

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

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

WILDER 28 AC FEDERAL COM#8H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 701H OWB, PWP0 V0	RED HILLS WEST 21 W0CN FEDERAL COM 001H, OWB, AWP V0
WILDER 28 AC FEDERAL COM#4H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 801H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 702H OWB, PWP0 V0
WILDER FEDERAL AC COM 2 3H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 703H OWB, PWP0 V0
RED HILLS WEST 21 FEDERAL COM 2H, OWB, AWP V0	RED HILLS WEST 21 W1CN FEDERAL COM 002H, OWB, AWP V0	
RED HILLS WEST 21 W1DM FEDERAL COM 002H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0	

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

ConocoPhillips

Anticollision Report

Company: DELAWARE BASIN EAST
Project: ZIA HILLS UNIT AREA
Reference Site: ZIA HILLS UNIT 2832 PROJECT
Site Error: 0.0 usft
Reference Well: _ZIA HILLS UNIT 2832 WC 704H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP0

Local Co-ordinate Reference: Well _ZIA HILLS UNIT 2832 WC 704H
TVD Reference: KB @ 3186.4usft
MD Reference: KB @ 3186.4usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Reference Depths are relative to KB @ 3186.4usft

Offset Depths are relative to Offset Datum

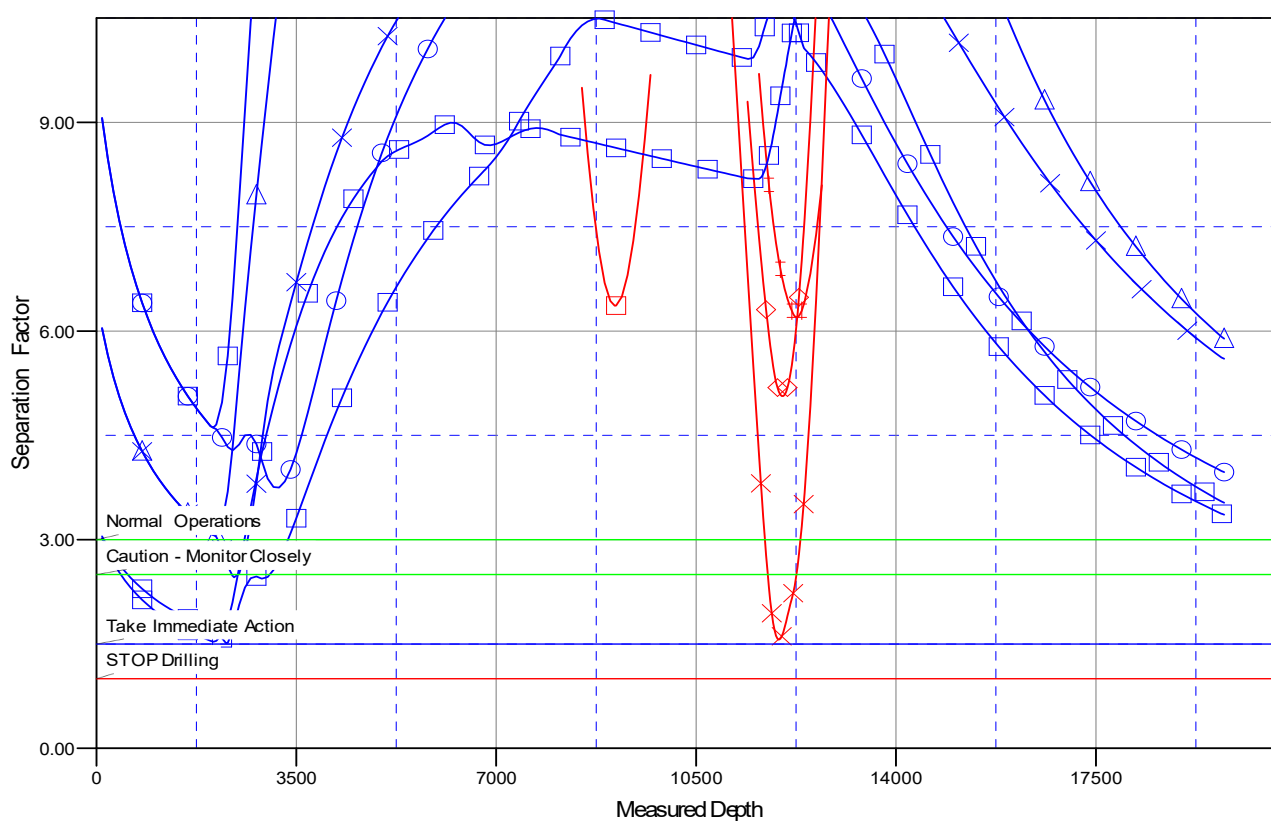
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 704H

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

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

WILDER 28 AC FEDERAL COM#8H, OWB, AWP V0
 WILDER 28 AC FEDERAL COM#4H, OWB, AWP V0
 WILDER FEDERAL AC COM 2 3H, OWB, AWP V0
 RED HILLS WEST 21 FEDERAL COM 2H, OWB, AWP V0
 RED HILLS WEST 21 W1DM FEDERAL COM 002H, OWB, AWP V0

_ZIA HILLS UNIT 2832 WC 701H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 801H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0
 RED HILLS WEST 21 W1CN FEDERAL COM 002H, OWB, AWP V0
 _ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0

RED HILLS WEST 21 W0CN FEDERAL COM 001H, OWB, AWP V0
 _ZIA HILLS UNIT 2832 WC 702H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 703H OWB, PWP0 V0

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

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 704H

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 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 704H	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	47,133.47066979

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	172.82

Plan Survey Tool Program		Date	2/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,745.7 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	
2,050.0	0.00	0.00	2,050.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,383.3	5.00	90.00	2,382.9	0.0	14.5	1.50	1.50	0.00	90.00	
2,890.9	13.23	46.97	2,884.1	39.7	79.3	2.00	1.62	-8.48	-62.36	
6,799.6	13.23	46.97	6,689.2	650.0	732.9	0.00	0.00	0.00	0.00	
8,122.2	0.00	0.00	8,000.0	753.7	844.0	1.00	-1.00	0.00	180.00	
11,633.7	0.00	0.00	11,511.5	753.7	844.0	0.00	0.00	0.00	0.00	
12,383.7	90.00	179.64	11,989.0	276.2	847.0	12.00	12.00	23.95	179.64	
19,746.4	90.00	179.64	11,989.0	-7,086.3	893.0	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 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 704H	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
2,050.0	0.00	0.00	2,050.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.75	90.00	2,100.0	0.0	0.3	0.0	1.50	1.50	0.00
2,200.0	2.25	90.00	2,200.0	0.0	2.9	0.4	1.50	1.50	0.00
2,300.0	3.75	90.00	2,299.8	0.0	8.2	1.0	1.50	1.50	0.00
2,383.3	5.00	90.00	2,382.9	0.0	14.5	1.8	1.50	1.50	0.00
2,400.0	5.16	86.72	2,399.5	0.0	16.0	2.0	2.00	0.98	-19.70
2,500.0	6.42	71.19	2,499.0	2.1	25.8	1.1	2.00	1.26	-15.53
2,600.0	7.99	61.21	2,598.2	7.3	37.2	-2.5	2.00	1.57	-9.98
2,700.0	9.72	54.62	2,697.0	15.5	50.2	-9.1	2.00	1.73	-6.60
2,800.0	11.53	50.04	2,795.3	26.8	64.7	-18.5	2.00	1.81	-4.58
2,890.9	13.23	46.97	2,884.1	39.7	79.3	-29.5	2.00	1.87	-3.38
2,900.0	13.23	46.97	2,892.9	41.2	80.8	-30.7	0.00	0.00	0.00
3,000.0	13.23	46.97	2,990.3	56.8	97.5	-44.1	0.00	0.00	0.00
3,100.0	13.23	46.97	3,087.6	72.4	114.2	-57.5	0.00	0.00	0.00
3,200.0	13.23	46.97	3,185.0	88.0	131.0	-70.9	0.00	0.00	0.00
3,300.0	13.23	46.97	3,282.3	103.6	147.7	-84.3	0.00	0.00	0.00
3,400.0	13.23	46.97	3,379.7	119.2	164.4	-97.7	0.00	0.00	0.00
3,500.0	13.23	46.97	3,477.0	134.8	181.1	-111.1	0.00	0.00	0.00
3,600.0	13.23	46.97	3,574.4	150.4	197.8	-124.5	0.00	0.00	0.00
3,700.0	13.23	46.97	3,671.7	166.1	214.6	-137.9	0.00	0.00	0.00
3,800.0	13.23	46.97	3,769.1	181.7	231.3	-151.3	0.00	0.00	0.00
3,900.0	13.23	46.97	3,866.4	197.3	248.0	-164.7	0.00	0.00	0.00
4,000.0	13.23	46.97	3,963.8	212.9	264.7	-178.1	0.00	0.00	0.00
4,100.0	13.23	46.97	4,061.1	228.5	281.5	-191.5	0.00	0.00	0.00
4,200.0	13.23	46.97	4,158.5	244.1	298.2	-204.9	0.00	0.00	0.00
4,300.0	13.23	46.97	4,255.8	259.7	314.9	-218.3	0.00	0.00	0.00
4,400.0	13.23	46.97	4,353.2	275.3	331.6	-231.7	0.00	0.00	0.00
4,500.0	13.23	46.97	4,450.5	291.0	348.4	-245.1	0.00	0.00	0.00
4,600.0	13.23	46.97	4,547.9	306.6	365.1	-258.5	0.00	0.00	0.00
4,700.0	13.23	46.97	4,645.2	322.2	381.8	-271.9	0.00	0.00	0.00
4,800.0	13.23	46.97	4,742.6	337.8	398.5	-285.3	0.00	0.00	0.00
4,900.0	13.23	46.97	4,839.9	353.4	415.2	-298.7	0.00	0.00	0.00
5,000.0	13.23	46.97	4,937.3	369.0	432.0	-312.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	13.23	46.97	5,034.6	384.6	448.7	-325.5	0.00	0.00	0.00
5,200.0	13.23	46.97	5,131.9	400.2	465.4	-338.9	0.00	0.00	0.00
5,300.0	13.23	46.97	5,229.3	415.9	482.1	-352.3	0.00	0.00	0.00
5,400.0	13.23	46.97	5,326.6	431.5	498.9	-365.7	0.00	0.00	0.00
5,500.0	13.23	46.97	5,424.0	447.1	515.6	-379.1	0.00	0.00	0.00
5,600.0	13.23	46.97	5,521.3	462.7	532.3	-392.5	0.00	0.00	0.00
5,700.0	13.23	46.97	5,618.7	478.3	549.0	-405.9	0.00	0.00	0.00
5,800.0	13.23	46.97	5,716.0	493.9	565.8	-419.3	0.00	0.00	0.00
5,900.0	13.23	46.97	5,813.4	509.5	582.5	-432.7	0.00	0.00	0.00
6,000.0	13.23	46.97	5,910.7	525.1	599.2	-446.1	0.00	0.00	0.00
6,100.0	13.23	46.97	6,008.1	540.8	615.9	-459.5	0.00	0.00	0.00
6,200.0	13.23	46.97	6,105.4	556.4	632.6	-472.9	0.00	0.00	0.00
6,300.0	13.23	46.97	6,202.8	572.0	649.4	-486.3	0.00	0.00	0.00
6,400.0	13.23	46.97	6,300.1	587.6	666.1	-499.7	0.00	0.00	0.00
6,500.0	13.23	46.97	6,397.5	603.2	682.8	-513.1	0.00	0.00	0.00
6,600.0	13.23	46.97	6,494.8	618.8	699.5	-526.5	0.00	0.00	0.00
6,700.0	13.23	46.97	6,592.2	634.4	716.3	-539.9	0.00	0.00	0.00
6,799.6	13.23	46.97	6,689.2	650.0	732.9	-553.3	0.00	0.00	0.00
6,800.0	13.23	46.97	6,689.5	650.1	733.0	-553.3	0.00	0.00	0.00
6,900.0	12.22	46.97	6,787.1	665.1	749.1	-566.2	1.00	-1.00	0.00
7,000.0	11.22	46.97	6,885.0	678.9	763.9	-578.1	1.00	-1.00	0.00
7,100.0	10.22	46.97	6,983.2	691.6	777.5	-589.0	1.00	-1.00	0.00
7,200.0	9.22	46.97	7,081.8	703.2	789.9	-598.9	1.00	-1.00	0.00
7,300.0	8.22	46.97	7,180.6	713.5	801.0	-607.8	1.00	-1.00	0.00
7,400.0	7.22	46.97	7,279.7	722.7	810.8	-615.6	1.00	-1.00	0.00
7,500.0	6.22	46.97	7,379.0	730.7	819.3	-622.5	1.00	-1.00	0.00
7,600.0	5.22	46.97	7,478.5	737.5	826.6	-628.3	1.00	-1.00	0.00
7,700.0	4.22	46.97	7,578.2	743.1	832.6	-633.1	1.00	-1.00	0.00
7,800.0	3.22	46.97	7,678.0	747.5	837.4	-637.0	1.00	-1.00	0.00
7,900.0	2.22	46.97	7,777.9	750.8	840.9	-639.7	1.00	-1.00	0.00
8,000.0	1.22	46.97	7,877.8	752.8	843.0	-641.5	1.00	-1.00	0.00
8,100.0	0.22	46.97	7,977.8	753.7	844.0	-642.2	1.00	-1.00	0.00
8,122.2	0.00	0.00	8,000.0	753.7	844.0	-642.3	1.00	-1.00	0.00
8,200.0	0.00	0.00	8,077.8	753.7	844.0	-642.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,177.8	753.7	844.0	-642.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,277.8	753.7	844.0	-642.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,377.8	753.7	844.0	-642.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,477.8	753.7	844.0	-642.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,577.8	753.7	844.0	-642.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,677.8	753.7	844.0	-642.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,777.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,877.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,100.0	0.00	0.00	8,977.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,077.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,177.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,277.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,377.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,477.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,577.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,677.8	753.7	844.0	-642.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,777.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,877.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,100.0	0.00	0.00	9,977.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,077.8	753.7	844.0	-642.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 704H	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)
10,300.0	0.00	0.00	10,177.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,277.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,377.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,477.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,577.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,677.8	753.7	844.0	-642.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,777.8	753.7	844.0	-642.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,877.8	753.7	844.0	-642.3	0.00	0.00	0.00
11,100.0	0.00	0.00	10,977.8	753.7	844.0	-642.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,077.8	753.7	844.0	-642.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,177.8	753.7	844.0	-642.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,277.8	753.7	844.0	-642.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,377.8	753.7	844.0	-642.3	0.00	0.00	0.00
11,600.0	0.00	0.00	11,477.8	753.7	844.0	-642.3	0.00	0.00	0.00
11,633.7	0.00	0.00	11,511.5	753.7	844.0	-642.3	0.00	0.00	0.00
11,700.0	7.96	179.64	11,577.6	749.1	844.0	-637.7	12.00	12.00	0.00
11,800.0	19.96	179.64	11,674.5	725.0	844.2	-613.8	12.00	12.00	0.00
11,900.0	31.96	179.64	11,764.2	681.3	844.5	-570.4	12.00	12.00	0.00
12,000.0	43.96	179.64	11,842.9	619.9	844.8	-509.4	12.00	12.00	0.00
12,100.0	55.96	179.64	11,907.1	543.5	845.3	-433.6	12.00	12.00	0.00
12,200.0	67.96	179.64	11,954.1	455.4	845.9	-346.1	12.00	12.00	0.00
12,300.0	79.96	179.64	11,981.6	359.5	846.5	-250.8	12.00	12.00	0.00
12,383.7	90.00	179.64	11,989.0	276.2	847.0	-168.2	12.00	12.00	0.00
12,400.0	90.00	179.64	11,989.0	259.9	847.1	-152.0	0.00	0.00	0.00
12,500.0	90.00	179.64	11,989.0	159.9	847.7	-52.7	0.00	0.00	0.00
12,600.0	90.00	179.64	11,989.0	59.9	848.3	46.6	0.00	0.00	0.00
12,700.0	90.00	179.64	11,989.0	-40.1	849.0	145.9	0.00	0.00	0.00
12,800.0	90.00	179.64	11,989.0	-140.1	849.6	245.2	0.00	0.00	0.00
12,900.0	90.00	179.64	11,989.0	-240.1	850.2	344.5	0.00	0.00	0.00
13,000.0	90.00	179.64	11,989.0	-340.1	850.8	443.8	0.00	0.00	0.00
13,100.0	90.00	179.64	11,989.0	-440.0	851.5	543.1	0.00	0.00	0.00
13,200.0	90.00	179.64	11,989.0	-540.0	852.1	642.4	0.00	0.00	0.00
13,300.0	90.00	179.64	11,989.0	-640.0	852.7	741.6	0.00	0.00	0.00
13,400.0	90.00	179.64	11,989.0	-740.0	853.3	840.9	0.00	0.00	0.00
13,500.0	90.00	179.64	11,989.0	-840.0	854.0	940.2	0.00	0.00	0.00
13,600.0	90.00	179.64	11,989.0	-940.0	854.6	1,039.5	0.00	0.00	0.00
13,700.0	90.00	179.64	11,989.0	-1,040.0	855.2	1,138.8	0.00	0.00	0.00
13,800.0	90.00	179.64	11,989.0	-1,140.0	855.8	1,238.1	0.00	0.00	0.00
13,900.0	90.00	179.64	11,989.0	-1,240.0	856.5	1,337.4	0.00	0.00	0.00
14,000.0	90.00	179.64	11,989.0	-1,340.0	857.1	1,436.7	0.00	0.00	0.00
14,100.0	90.00	179.64	11,989.0	-1,440.0	857.7	1,536.0	0.00	0.00	0.00
14,200.0	90.00	179.64	11,989.0	-1,540.0	858.4	1,635.3	0.00	0.00	0.00
14,300.0	90.00	179.64	11,989.0	-1,640.0	859.0	1,734.6	0.00	0.00	0.00
14,400.0	90.00	179.64	11,989.0	-1,740.0	859.6	1,833.8	0.00	0.00	0.00
14,500.0	90.00	179.64	11,989.0	-1,840.0	860.2	1,933.1	0.00	0.00	0.00
14,600.0	90.00	179.64	11,989.0	-1,940.0	860.9	2,032.4	0.00	0.00	0.00
14,700.0	90.00	179.64	11,989.0	-2,040.0	861.5	2,131.7	0.00	0.00	0.00
14,800.0	90.00	179.64	11,989.0	-2,140.0	862.1	2,231.0	0.00	0.00	0.00
14,900.0	90.00	179.64	11,989.0	-2,240.0	862.7	2,330.3	0.00	0.00	0.00
15,000.0	90.00	179.64	11,989.0	-2,340.0	863.4	2,429.6	0.00	0.00	0.00
15,100.0	90.00	179.64	11,989.0	-2,440.0	864.0	2,528.9	0.00	0.00	0.00
15,200.0	90.00	179.64	11,989.0	-2,540.0	864.6	2,628.2	0.00	0.00	0.00
15,300.0	90.00	179.64	11,989.0	-2,640.0	865.2	2,727.5	0.00	0.00	0.00
15,400.0	90.00	179.64	11,989.0	-2,740.0	865.9	2,826.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 704H	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	11,989.0	-2,840.0	866.5	2,926.1	0.00	0.00	0.00
15,600.0	90.00	179.64	11,989.0	-2,940.0	867.1	3,025.3	0.00	0.00	0.00
15,700.0	90.00	179.64	11,989.0	-3,040.0	867.7	3,124.6	0.00	0.00	0.00
15,800.0	90.00	179.64	11,989.0	-3,140.0	868.4	3,223.9	0.00	0.00	0.00
15,900.0	90.00	179.64	11,989.0	-3,240.0	869.0	3,323.2	0.00	0.00	0.00
16,000.0	90.00	179.64	11,989.0	-3,340.0	869.6	3,422.5	0.00	0.00	0.00
16,100.0	90.00	179.64	11,989.0	-3,440.0	870.2	3,521.8	0.00	0.00	0.00
16,200.0	90.00	179.64	11,989.0	-3,540.0	870.9	3,621.1	0.00	0.00	0.00
16,300.0	90.00	179.64	11,989.0	-3,640.0	871.5	3,720.4	0.00	0.00	0.00
16,400.0	90.00	179.64	11,989.0	-3,740.0	872.1	3,819.7	0.00	0.00	0.00
16,500.0	90.00	179.64	11,989.0	-3,840.0	872.7	3,919.0	0.00	0.00	0.00
16,600.0	90.00	179.64	11,989.0	-3,940.0	873.4	4,018.3	0.00	0.00	0.00
16,700.0	90.00	179.64	11,989.0	-4,040.0	874.0	4,117.6	0.00	0.00	0.00
16,800.0	90.00	179.64	11,989.0	-4,140.0	874.6	4,216.8	0.00	0.00	0.00
16,900.0	90.00	179.64	11,989.0	-4,240.0	875.2	4,316.1	0.00	0.00	0.00
17,000.0	90.00	179.64	11,989.0	-4,340.0	875.9	4,415.4	0.00	0.00	0.00
17,100.0	90.00	179.64	11,989.0	-4,440.0	876.5	4,514.7	0.00	0.00	0.00
17,200.0	90.00	179.64	11,989.0	-4,540.0	877.1	4,614.0	0.00	0.00	0.00
17,300.0	90.00	179.64	11,989.0	-4,640.0	877.7	4,713.3	0.00	0.00	0.00
17,400.0	90.00	179.64	11,989.0	-4,740.0	878.4	4,812.6	0.00	0.00	0.00
17,500.0	90.00	179.64	11,989.0	-4,840.0	879.0	4,911.9	0.00	0.00	0.00
17,600.0	90.00	179.64	11,989.0	-4,940.0	879.6	5,011.2	0.00	0.00	0.00
17,700.0	90.00	179.64	11,989.0	-5,040.0	880.2	5,110.5	0.00	0.00	0.00
17,800.0	90.00	179.64	11,989.0	-5,140.0	880.9	5,209.8	0.00	0.00	0.00
17,900.0	90.00	179.64	11,989.0	-5,240.0	881.5	5,309.1	0.00	0.00	0.00
18,000.0	90.00	179.64	11,989.0	-5,340.0	882.1	5,408.3	0.00	0.00	0.00
18,100.0	90.00	179.64	11,989.0	-5,440.0	882.7	5,507.6	0.00	0.00	0.00
18,200.0	90.00	179.64	11,989.0	-5,539.9	883.4	5,606.9	0.00	0.00	0.00
18,300.0	90.00	179.64	11,989.0	-5,639.9	884.0	5,706.2	0.00	0.00	0.00
18,400.0	90.00	179.64	11,989.0	-5,739.9	884.6	5,805.5	0.00	0.00	0.00
18,500.0	90.00	179.64	11,989.0	-5,839.9	885.3	5,904.8	0.00	0.00	0.00
18,600.0	90.00	179.64	11,989.0	-5,939.9	885.9	6,004.1	0.00	0.00	0.00
18,700.0	90.00	179.64	11,989.0	-6,039.9	886.5	6,103.4	0.00	0.00	0.00
18,800.0	90.00	179.64	11,989.0	-6,139.9	887.1	6,202.7	0.00	0.00	0.00
18,900.0	90.00	179.64	11,989.0	-6,239.9	887.8	6,302.0	0.00	0.00	0.00
19,000.0	90.00	179.64	11,989.0	-6,339.9	888.4	6,401.3	0.00	0.00	0.00
19,100.0	90.00	179.64	11,989.0	-6,439.9	889.0	6,500.6	0.00	0.00	0.00
19,200.0	90.00	179.64	11,989.0	-6,539.9	889.6	6,599.8	0.00	0.00	0.00
19,300.0	90.00	179.64	11,989.0	-6,639.9	890.3	6,699.1	0.00	0.00	0.00
19,400.0	90.00	179.64	11,989.0	-6,739.9	890.9	6,798.4	0.00	0.00	0.00
19,500.0	90.00	179.64	11,989.0	-6,839.9	891.5	6,897.7	0.00	0.00	0.00
19,600.0	90.00	179.64	11,989.0	-6,939.9	892.1	6,997.0	0.00	0.00	0.00
19,700.0	90.00	179.64	11,989.0	-7,039.9	892.8	7,096.3	0.00	0.00	0.00
19,746.4	90.00	179.64	11,989.0	-7,086.3	893.0	7,142.3	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.4usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.4usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 704H	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 704H	0.00	359.64	11,989.0	-7,086.3	893.0	364,418.77	701,515.08	32° 0' 0.847 N	103° 40' 59.801 W
- plan hits target center									
- Rectangle (sides W100.0 H7,357.7 D20.0)									
LTP_ZHU 2832 704H	90.00	0.00	11,989.0	-7,036.3	892.7	364,468.76	701,514.74	32° 0' 1.342 N	103° 40' 59.801 W
- plan hits target center									
- Circle (radius 50.0)									
FTP_ZHU 2832 704H	0.00	0.00	11,989.0	271.3	847.1	371,776.32	701,469.17	32° 1' 13.661 N	103° 40' 59.820 W
- plan misses target center by 0.1usft at 12388.7usft MD (11989.0 TVD, 271.3 N, 847.0 E)									
- Circle (radius 50.0)									

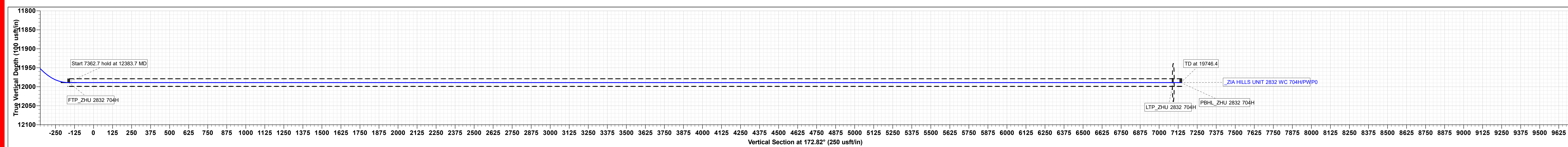
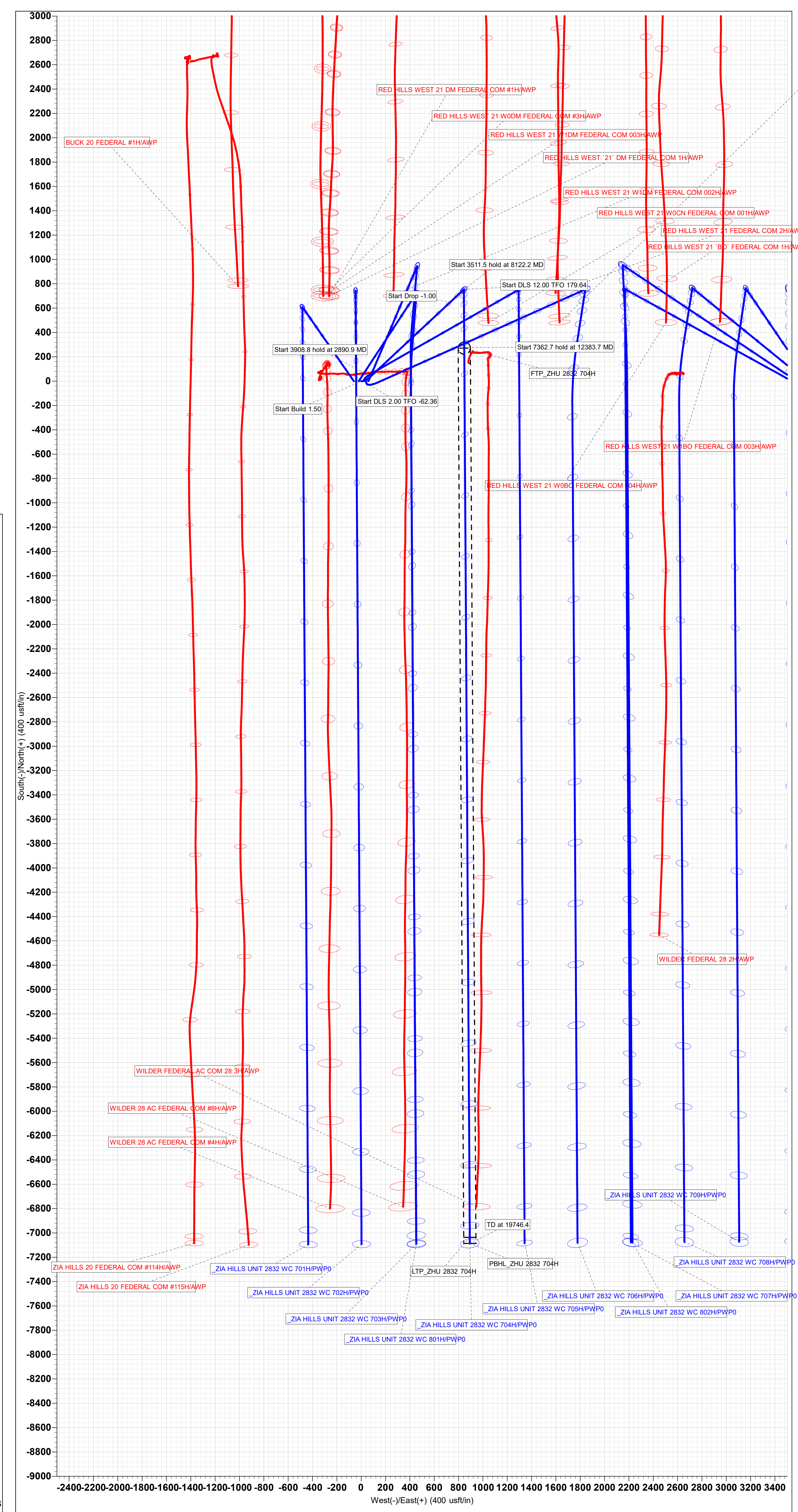
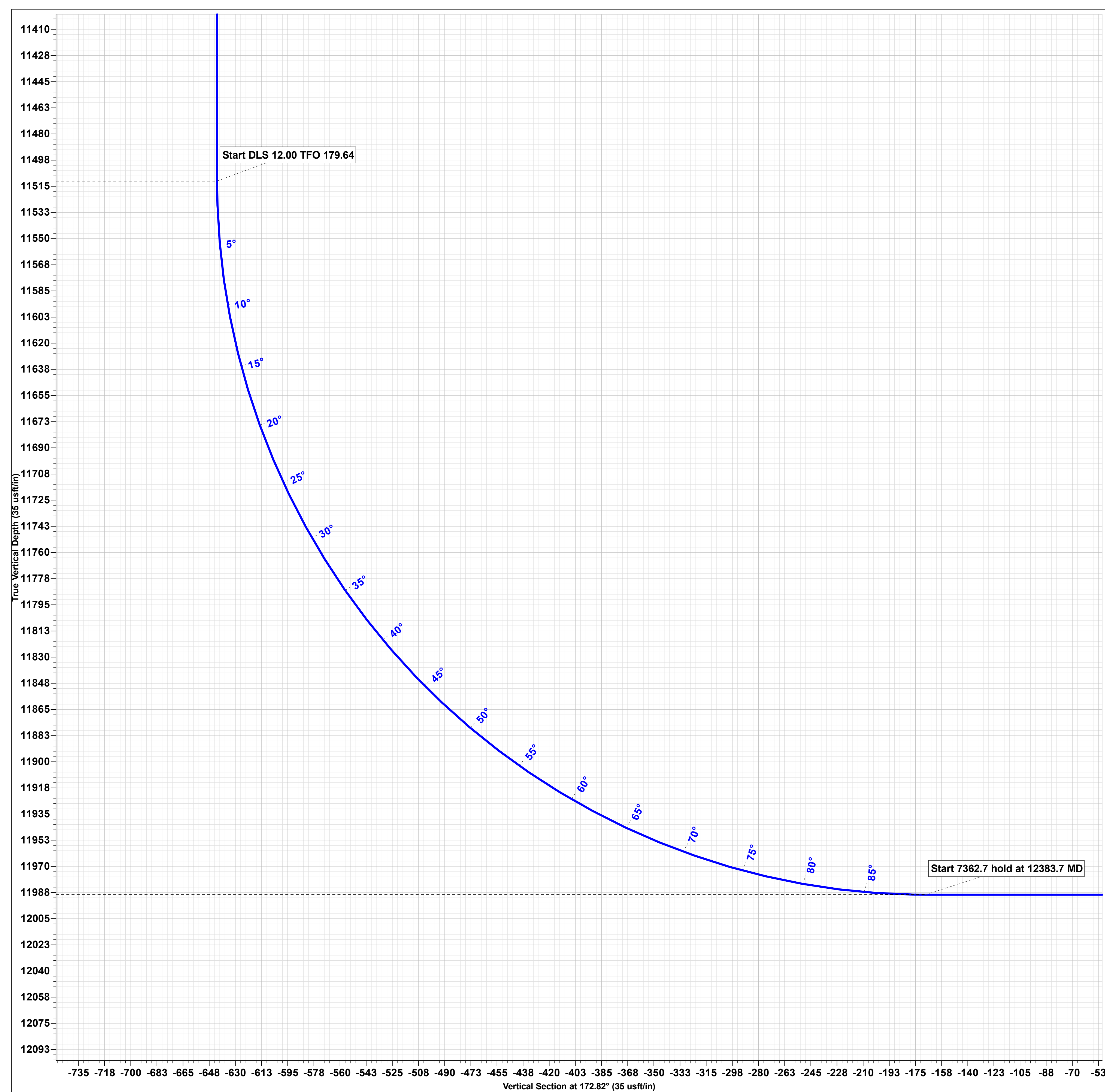
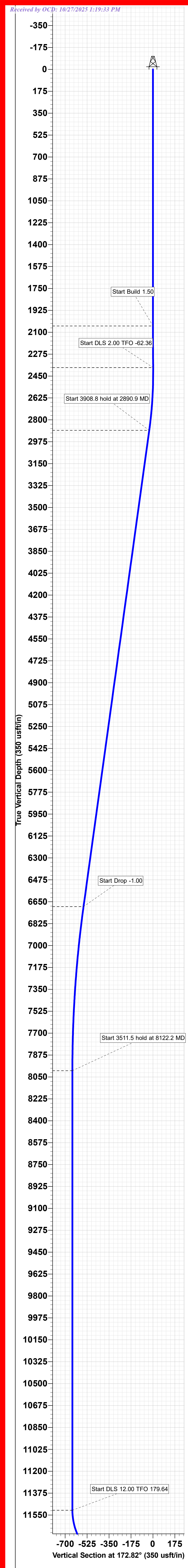
Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	19,746.4	11,989.0	5-1/2" Production Casing	5-1/2	6



Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2832 PROJECT
Well: ZIA HILLS UNIT 2832 WC 704H
Wellbore: OWB
Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VScout
0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.00
20530.3	0.00	0.00	2050.0	0.0	0.00	0.00	0.00	0.00
23863.0	5.00	90.00	2382.9	0.0	14.5	1.50	90.00	1.8
2890.9	13.23	46.97	2884.1	39.7	79.3	2.00	-62.36	-29.5
6799.6	13.23	46.97	6689.2	650.0	732.9	0.00	0.00	-553.3
81822.2	0.00	0.00	8000.0	753.7	844.0	1.00	180.00	-642.3
1633.7	0.00	0.00	1511.5	753.7	844.0	0.00	0.00	-642.3
2383.7	90.00	179.64	1989.0	276.2	847.0	12.00	179.64	-168.2
9746.4	90.00	73.64	11989.0	-7086.3	893.0	0.00	0.00	7142.3



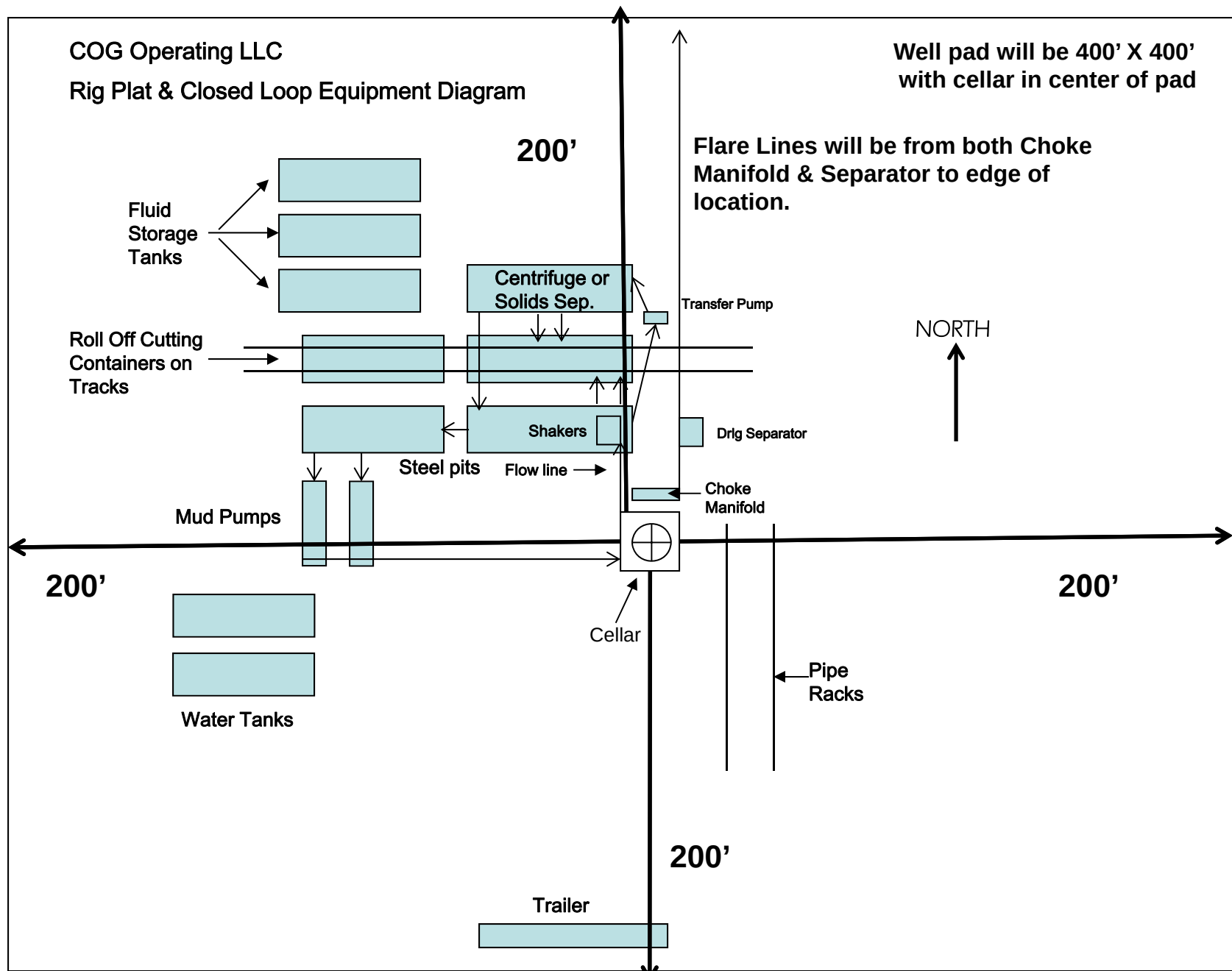


Exhibit 1

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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 01/28/2025

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

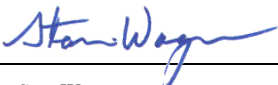
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

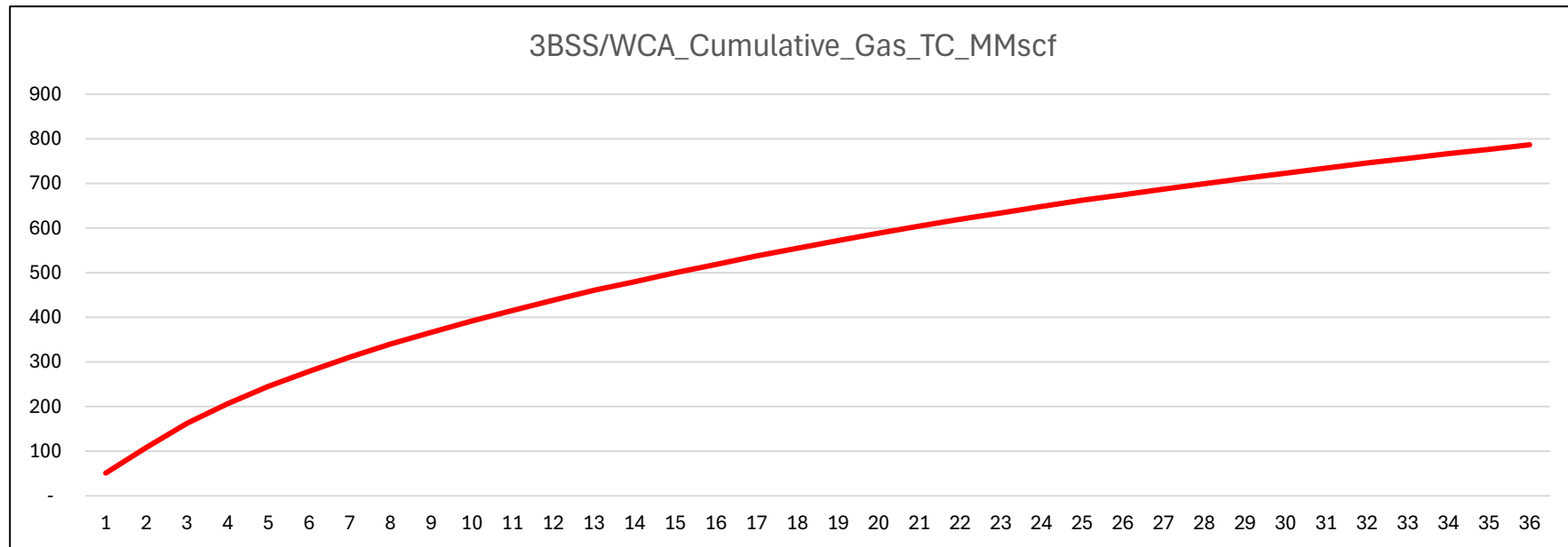
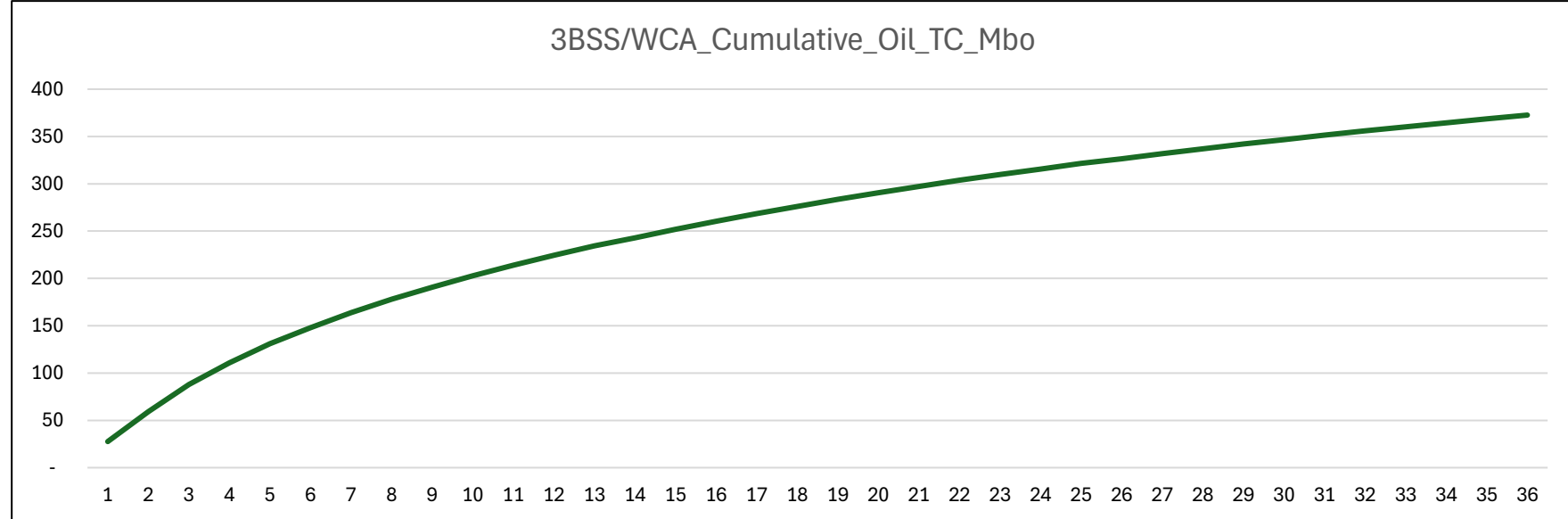
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

Waste Minimization Plan

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

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

Anticipated Production Decline Curve



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2832 WC 704H
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 520246

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520246
	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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COMMENTS

Action 520246

COMMENTS

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COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well.	12/19/2025

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CONDITIONS

Action 520246

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CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/27/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/27/2025
jeffrey.harrison	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	12/19/2025
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