

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. <b style="color: red;">30-025-55652
3a. Address	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.
2. A Drilling Plan.
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). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

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

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

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



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 366 FNL / 616 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019855 / LONG: -103.686621 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 615 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020586 / LONG: -103.686625 (TVD: 11974 feet, MD: 12300 feet)

BHL: LOT 4 / 50 FSL / 615 FWL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.00036 / LONG: -103.686618 (TVD: 11974 feet, MD: 19658 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: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
---	--	--

WELL LOCATION INFORMATION

API Number 30-025-55652	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 338328	Property Name ZIA HILLS UNIT 2832 WC	
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Well Number 702H
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	28	26S	32E		366' FNL	616' FWL	32.019855°	-103.686621°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 4	33	26S	32E		50' FSL	615' FWL	32.000360°	-103.686618°	LEA

Dedicated Acres 898.92	Infill or Defining Well Infill	Defining Well API Defining 704H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080		Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	21	26S	32E		377' FSL	614' FWL	32.021898°	-103.686626°	LEA

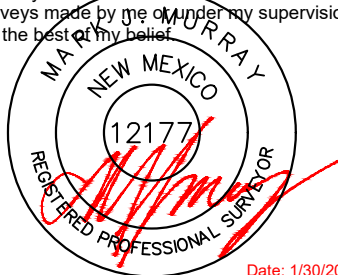
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	28	26S	32E		100' FNL	615' FWL	32.020586°	-103.686625°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 4	33	26S	32E		100' FSL	615' FWL	32.000497°	-103.686618°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
---	--	-------------------------

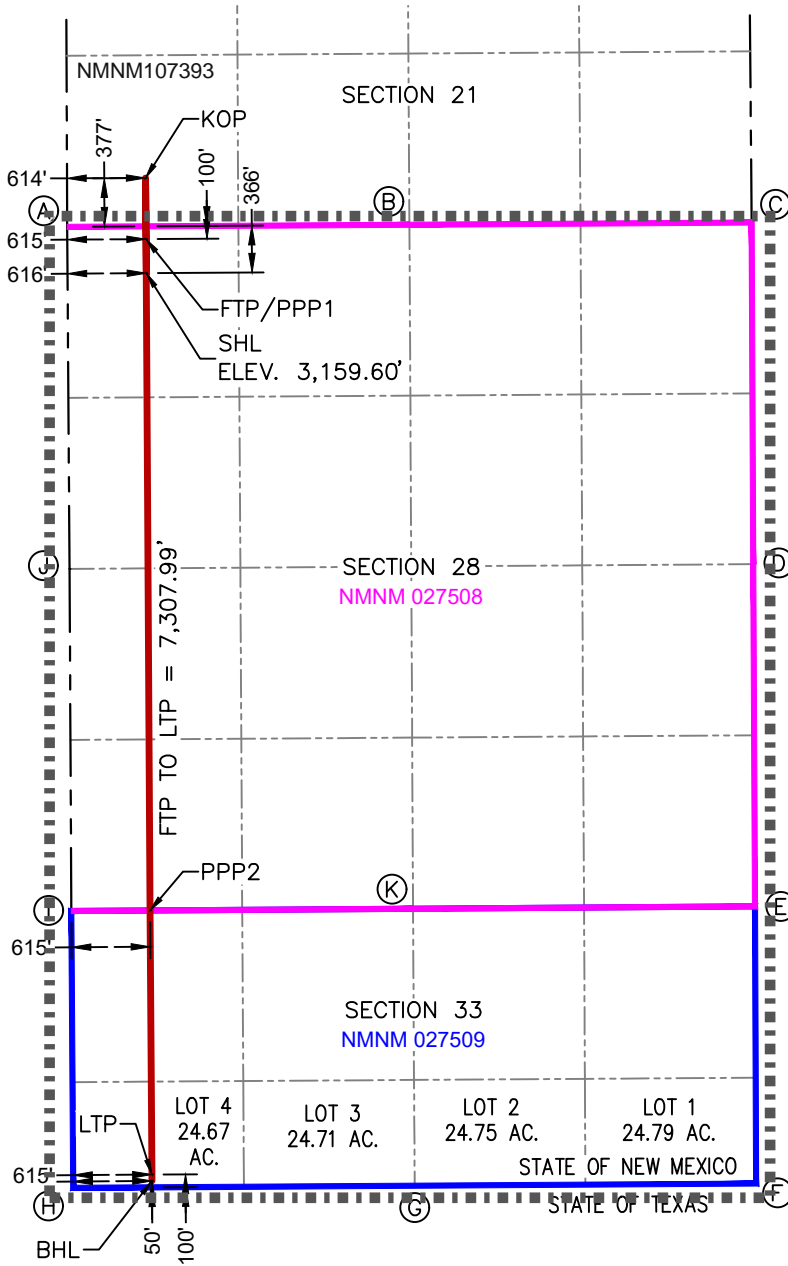
<p>OPERATOR CERTIFICATIONS</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including 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.</p> <p>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.</p>	<p>SURVEYOR CERTIFICATIONS</p> <p>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.</p> <div style="text-align: center;">  <p>Date: 1/30/2025</p> </div>		
Signature <i>Stan Wagner</i>	Date 4/15/25	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner	Certificate Number 12177	Date of Survey 1/30/2025	
Email Address			

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

ACREAGE DEDICATION PLATS

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

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



SURFACE HOLE LOCATION
 366' FNL & 616' FWL
 ELEV.=3,159.60'

NAD 83 X = 741,769.31'
 NAD 83 Y = 371,561.89'
 NAD 83 LAT = 32.019855°
 NAD 83 LONG = -103.686621°

KICK-OFF POINT
 377' FSL & 614' FWL

NAD 83 X = 741,763.12'
 NAD 83 Y = 372,305.26'
 NAD 83 LAT = 32.021898°
 NAD 83 LONG = -103.686626°

FIRST TAKE POINT & PENETRATION POINT 1
 100' FNL & 615' FWL

NAD 83 X = 741,766.47'
 NAD 83 Y = 371,827.88'
 NAD 83 LAT = 32.020586°
 NAD 83 LONG = -103.686625°

PENETRATION POINT 2
 0' FNL & 615' FWL

NAD 83 X = 741,798.38'
 NAD 83 Y = 366,583.64'
 NAD 83 LAT = 32.006170°
 NAD 83 LONG = -103.686623°

LAST TAKE POINT
 100' FSL & 615' FWL

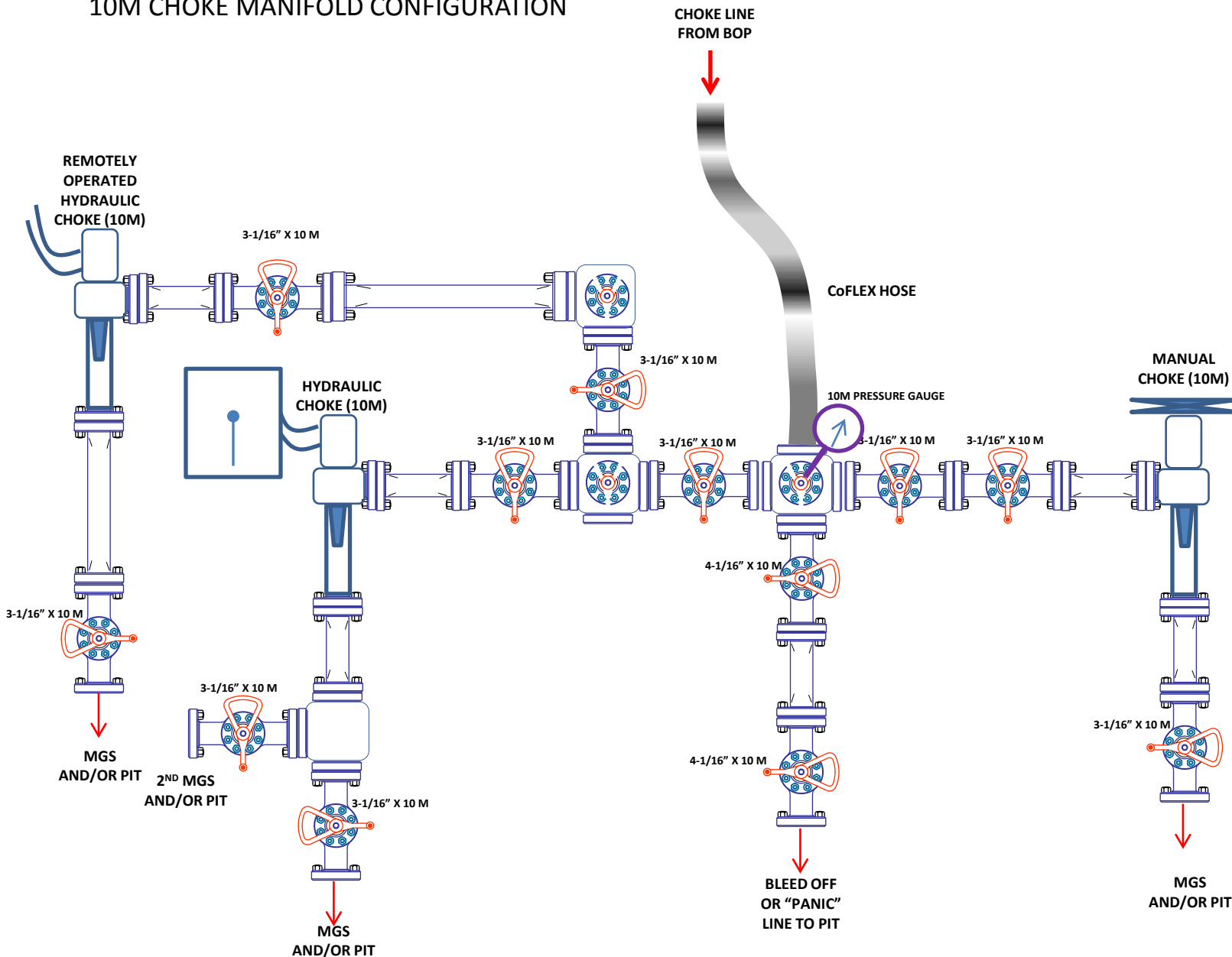
NAD 83 X = 741,812.35'
 NAD 83 Y = 364,520.03'
 NAD 83 LAT = 32.000497°
 NAD 83 LONG = -103.686618°

BOTTOM HOLE LOCATION
 50' FSL & 615' FWL

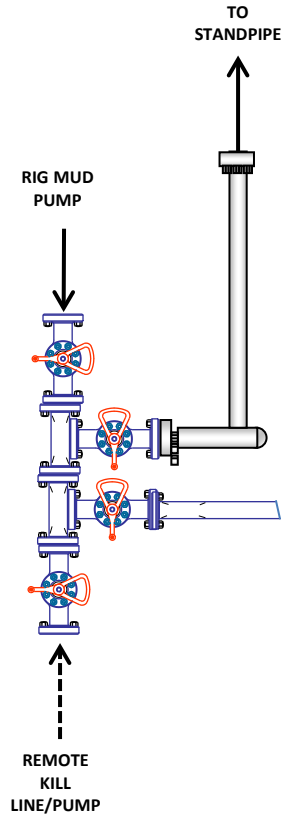
NAD 83 X = 741,812.69'
 NAD 83 Y = 364,470.03'
 NAD 83 LAT = 32.000360°
 NAD 83 LONG = -103.686618°

CORNER COORDINATES NEW MEXICO EAST - NAD 83					
A	IRON PIPE W/BRASS CAP N:371,924.06' E:741,150.79'	E	IRON PIPE W/BRASS CAP N:366,615.44' E:746,523.28'	I	IRON PIPE W/BRASS CAP N:366,579.65' E:741,183.39'
B	IRON PIPE W/BRASS CAP N:371,940.66' E:743,823.97'	F	CALCULATED CORNER N:364,449.93' E:746,531.16'	J	IRON PIPE W/BRASS CAP N:369,251.80' E:741,169.27'
C	IRON PIPE W/BRASS CAP N:371,957.31' E:746,496.25'	G	CALCULATED CORNER N:364,433.03' E:743,864.87'	K	CALCULATED CORNER N:366,596.96' E:743,852.02'
D	IRON PIPE W/BRASS CAP N:369,288.55' E:746,508.78'	H	CALCULATED CORNER N:364,416.13' E:741,198.04'		

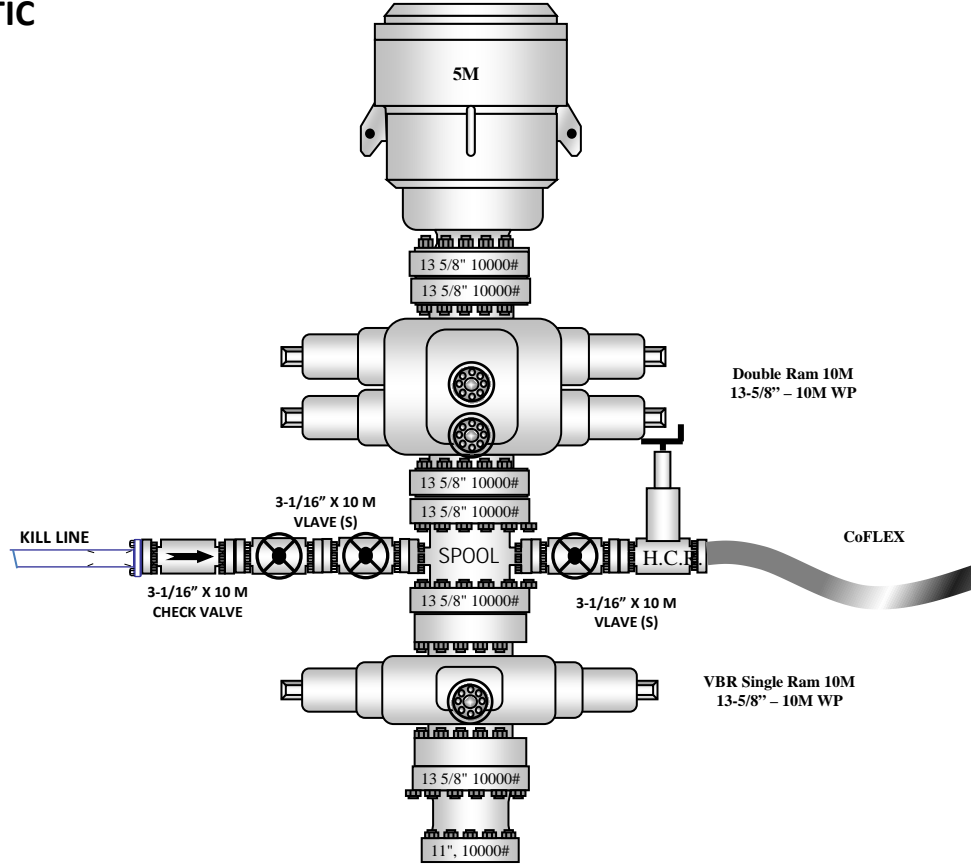
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



ConocoPhillips Company - Zia Hills Unit 2832 WC 702H

1. Geologic Formations

TVD of target	11,974' EOL	Pilot hole depth	NA
MD at TD:	19,659'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	968	Water	
Top of Salt	1298	Salt	
Base of Salt	3912	Salt	
Lamar	4400	Salt Water	
Bell Canyon	4400	Salt Water	
Cherry Canyon	5300	Oil/Gas	
Brushy Canyon	6801	Oil/Gas	
Bone Spring	8406	Oil/Gas	
1st Bone Spring Sand	9395	Oil/Gas	
2nd Bone Spring Sand	10053	Oil/Gas	
3rd Bone Spring Sand	11191	Oil/Gas	
Wolfcamp	11589	Oil/Gas	
Wolfcamp A	11783	Target	
Wolfcamp B	12129	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	1.29	5.33	5.51
8.75"	4100	11400	7.625"	29.7	P110-ICY	W513	1.24	1.54	3.15	1.89
6.75"	0	11200	5.5"	23	P110-CY	BTC	1.85	2.16	2.83	2.83
6.75"	11200	19,659	5.5"	23	P110-CY	W441	1.73	2.02	2.65	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 702H

	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? If yes, does production casing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary?	N
Is well located in SOPA but not in R-111-P? If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA? If yes, are the first three strings cemented to surface? Is 2 nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst? If yes, are there two strings cemented to surface? (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst? If yes, are there three strings cemented to surface?	N

ConocoPhillips Company - Zia Hills Unit 2832 WC 702H

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	10,900'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 702H

4. Pressure Control Equipment

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

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

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

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

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

ConocoPhillips Company - Zia Hills Unit 2832 WC 702H

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
---	-----------------------------

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 702H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8410 psi at 11974' 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	H2S 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

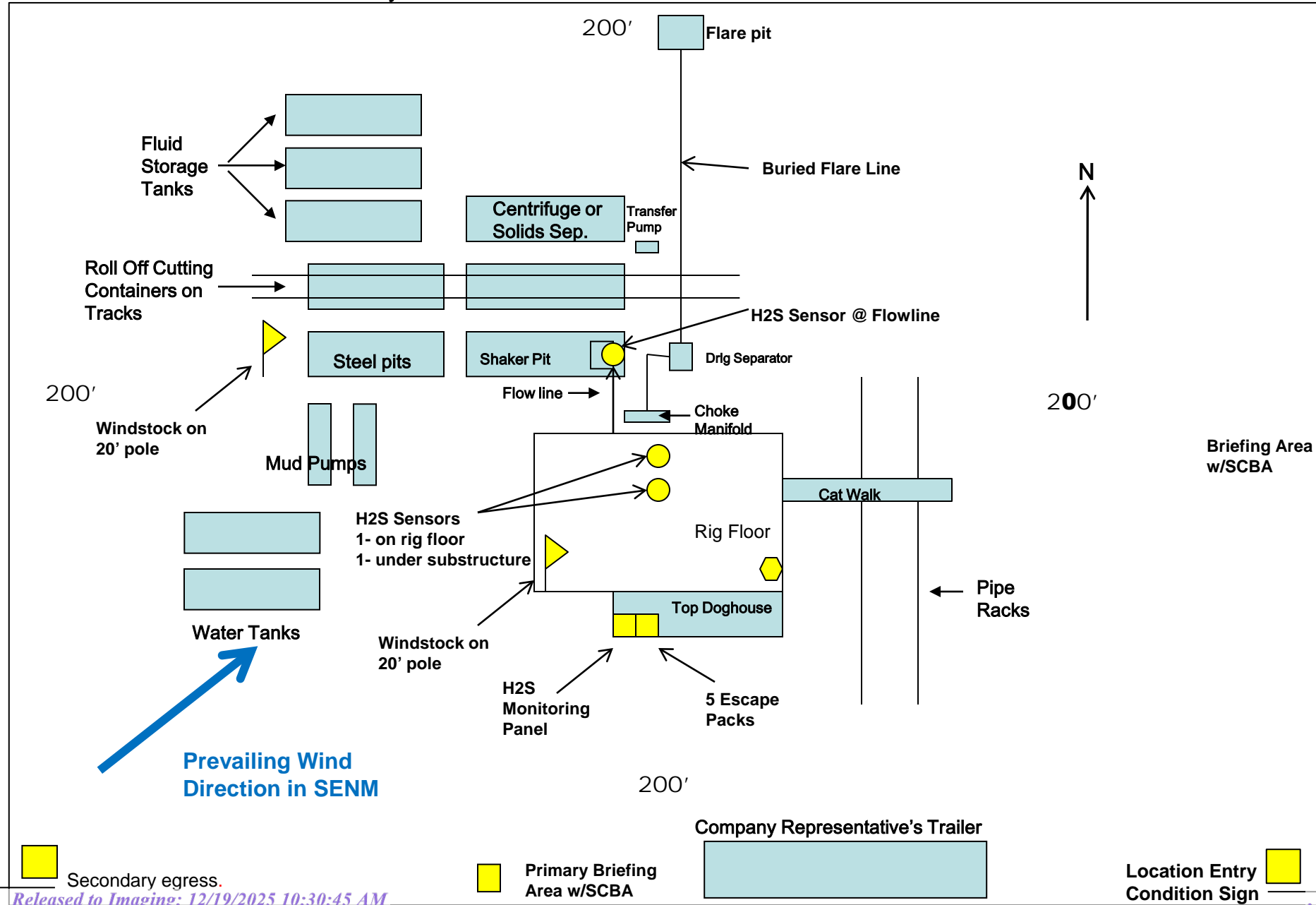
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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

COG 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 702H

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 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 702H	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	47,133.48237166

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	179.65

Plan Survey Tool Program		Date	2/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,658.5 PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

Plan Sections											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00		
2,436.2	8.72	359.54	2,434.5	33.1	-0.3	2.00	2.00	0.00	359.54		
6,681.7	8.72	359.54	6,630.9	677.1	-5.5	0.00	0.00	0.00	0.00		
7,554.2	0.00	0.01	7,500.0	743.4	-6.0	1.00	-1.00	0.00	180.00		
11,550.7	0.00	0.01	11,496.5	743.4	-6.0	0.00	0.00	0.00	0.01		
12,300.7	90.00	179.64	11,974.0	265.9	-3.0	12.00	12.00	23.95	179.64		
19,658.5	90.00	179.64	11,974.0	-7,091.7	43.1	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 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	2.00	359.54	2,100.0	1.7	0.0	-1.7	2.00	2.00	0.00
2,200.0	4.00	359.54	2,199.8	7.0	-0.1	-7.0	2.00	2.00	0.00
2,300.0	6.00	359.54	2,299.5	15.7	-0.1	-15.7	2.00	2.00	0.00
2,400.0	8.00	359.54	2,398.7	27.9	-0.2	-27.9	2.00	2.00	0.00
2,436.2	8.72	359.54	2,434.5	33.1	-0.3	-33.1	2.00	2.00	0.00
2,500.0	8.72	359.54	2,497.6	42.8	-0.3	-42.8	0.00	0.00	0.00
2,600.0	8.72	359.54	2,596.4	58.0	-0.5	-58.0	0.00	0.00	0.00
2,700.0	8.72	359.54	2,695.3	73.2	-0.6	-73.2	0.00	0.00	0.00
2,800.0	8.72	359.54	2,794.1	88.3	-0.7	-88.3	0.00	0.00	0.00
2,900.0	8.72	359.54	2,892.9	103.5	-0.8	-103.5	0.00	0.00	0.00
3,000.0	8.72	359.54	2,991.8	118.7	-1.0	-118.7	0.00	0.00	0.00
3,100.0	8.72	359.54	3,090.6	133.8	-1.1	-133.8	0.00	0.00	0.00
3,200.0	8.72	359.54	3,189.5	149.0	-1.2	-149.0	0.00	0.00	0.00
3,300.0	8.72	359.54	3,288.3	164.2	-1.3	-164.2	0.00	0.00	0.00
3,400.0	8.72	359.54	3,387.2	179.3	-1.4	-179.3	0.00	0.00	0.00
3,500.0	8.72	359.54	3,486.0	194.5	-1.6	-194.5	0.00	0.00	0.00
3,600.0	8.72	359.54	3,584.8	209.7	-1.7	-209.7	0.00	0.00	0.00
3,700.0	8.72	359.54	3,683.7	224.8	-1.8	-224.8	0.00	0.00	0.00
3,800.0	8.72	359.54	3,782.5	240.0	-1.9	-240.0	0.00	0.00	0.00
3,900.0	8.72	359.54	3,881.4	255.2	-2.1	-255.2	0.00	0.00	0.00
4,000.0	8.72	359.54	3,980.2	270.3	-2.2	-270.3	0.00	0.00	0.00
4,100.0	8.72	359.54	4,079.1	285.5	-2.3	-285.5	0.00	0.00	0.00
4,200.0	8.72	359.54	4,177.9	300.7	-2.4	-300.7	0.00	0.00	0.00
4,300.0	8.72	359.54	4,276.8	315.8	-2.5	-315.9	0.00	0.00	0.00
4,400.0	8.72	359.54	4,375.6	331.0	-2.7	-331.0	0.00	0.00	0.00
4,500.0	8.72	359.54	4,474.4	346.2	-2.8	-346.2	0.00	0.00	0.00
4,600.0	8.72	359.54	4,573.3	361.3	-2.9	-361.4	0.00	0.00	0.00
4,700.0	8.72	359.54	4,672.1	376.5	-3.0	-376.5	0.00	0.00	0.00
4,800.0	8.72	359.54	4,771.0	391.7	-3.2	-391.7	0.00	0.00	0.00
4,900.0	8.72	359.54	4,869.8	406.9	-3.3	-406.9	0.00	0.00	0.00
5,000.0	8.72	359.54	4,968.7	422.0	-3.4	-422.0	0.00	0.00	0.00
5,100.0	8.72	359.54	5,067.5	437.2	-3.5	-437.2	0.00	0.00	0.00
5,200.0	8.72	359.54	5,166.3	452.4	-3.7	-452.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

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)	
5,300.0	8.72	359.54	5,265.2	467.5	-3.8	-467.5	0.00	0.00	0.00	
5,400.0	8.72	359.54	5,364.0	482.7	-3.9	-482.7	0.00	0.00	0.00	
5,500.0	8.72	359.54	5,462.9	497.9	-4.0	-497.9	0.00	0.00	0.00	
5,600.0	8.72	359.54	5,561.7	513.0	-4.1	-513.0	0.00	0.00	0.00	
5,700.0	8.72	359.54	5,660.6	528.2	-4.3	-528.2	0.00	0.00	0.00	
5,800.0	8.72	359.54	5,759.4	543.4	-4.4	-543.4	0.00	0.00	0.00	
5,900.0	8.72	359.54	5,858.2	558.5	-4.5	-558.6	0.00	0.00	0.00	
6,000.0	8.72	359.54	5,957.1	573.7	-4.6	-573.7	0.00	0.00	0.00	
6,100.0	8.72	359.54	6,055.9	588.9	-4.8	-588.9	0.00	0.00	0.00	
6,200.0	8.72	359.54	6,154.8	604.0	-4.9	-604.1	0.00	0.00	0.00	
6,300.0	8.72	359.54	6,253.6	619.2	-5.0	-619.2	0.00	0.00	0.00	
6,400.0	8.72	359.54	6,352.5	634.4	-5.1	-634.4	0.00	0.00	0.00	
6,500.0	8.72	359.54	6,451.3	649.5	-5.2	-649.6	0.00	0.00	0.00	
6,600.0	8.72	359.54	6,550.1	664.7	-5.4	-664.7	0.00	0.00	0.00	
6,681.7	8.72	359.54	6,630.9	677.1	-5.5	-677.1	0.00	0.00	0.00	
6,700.0	8.54	359.54	6,649.0	679.8	-5.5	-679.9	1.00	-1.00	0.00	
6,800.0	7.54	359.54	6,748.0	693.8	-5.6	-693.9	1.00	-1.00	0.00	
6,900.0	6.54	359.54	6,847.2	706.1	-5.7	-706.1	1.00	-1.00	0.00	
7,000.0	5.54	359.54	6,946.7	716.6	-5.8	-716.6	1.00	-1.00	0.00	
7,100.0	4.54	359.54	7,046.3	725.4	-5.9	-725.4	1.00	-1.00	0.00	
7,200.0	3.54	359.54	7,146.0	732.5	-5.9	-732.5	1.00	-1.00	0.00	
7,300.0	2.54	359.54	7,245.9	737.8	-6.0	-737.8	1.00	-1.00	0.00	
7,400.0	1.54	359.54	7,345.8	741.3	-6.0	-741.3	1.00	-1.00	0.00	
7,500.0	0.54	359.54	7,445.8	743.1	-6.0	-743.2	1.00	-1.00	0.00	
7,554.2	0.00	0.01	7,500.0	743.4	-6.0	-743.4	1.00	-1.00	0.00	
7,600.0	0.00	0.00	7,545.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,645.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,745.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,845.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,945.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,045.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,145.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,245.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,345.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,445.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,545.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,645.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,745.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,845.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,945.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,045.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,145.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,245.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,345.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,445.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,545.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,645.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,745.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,845.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,945.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,045.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,145.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,245.8	743.4	-6.0	-743.4	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,345.8	743.4	-6.0	-743.4	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well_ZIA HILLS UNIT 2832 WC 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,445.8	743.4	-6.0	-743.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,545.8	743.4	-6.0	-743.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,645.8	743.4	-6.0	-743.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,745.8	743.4	-6.0	-743.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,845.8	743.4	-6.0	-743.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,945.8	743.4	-6.0	-743.4	0.00	0.00	0.00
11,100.0	0.00	0.00	11,045.8	743.4	-6.0	-743.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,145.8	743.4	-6.0	-743.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,245.8	743.4	-6.0	-743.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,345.8	743.4	-6.0	-743.4	0.00	0.00	0.00
11,500.0	0.00	0.00	11,445.8	743.4	-6.0	-743.4	0.00	0.00	0.00
11,550.7	0.00	0.01	11,496.5	743.4	-6.0	-743.4	0.00	0.00	0.00
11,600.0	5.92	179.64	11,545.7	740.9	-6.0	-740.9	12.00	12.00	0.00
11,700.0	17.92	179.64	11,643.4	720.2	-5.9	-720.3	12.00	12.00	0.00
11,800.0	29.92	179.64	11,734.6	679.8	-5.6	-679.8	12.00	12.00	0.00
11,900.0	41.92	179.64	11,815.5	621.2	-5.2	-621.2	12.00	12.00	0.00
12,000.0	53.92	179.64	11,882.4	547.1	-4.8	-547.2	12.00	12.00	0.00
12,100.0	65.92	179.64	11,932.4	460.8	-4.2	-460.8	12.00	12.00	0.00
12,200.0	77.92	179.64	11,963.4	365.9	-3.6	-365.9	12.00	12.00	0.00
12,300.0	89.92	179.64	11,974.0	266.6	-3.0	-266.6	12.00	12.00	0.00
12,300.7	90.00	179.64	11,974.0	265.9	-3.0	-266.0	12.00	12.00	0.00
12,400.0	90.00	179.64	11,974.0	166.6	-2.4	-166.6	0.00	0.00	0.00
12,500.0	90.00	179.64	11,974.0	66.6	-1.8	-66.6	0.00	0.00	0.00
12,600.0	90.00	179.64	11,974.0	-33.4	-1.1	33.4	0.00	0.00	0.00
12,700.0	90.00	179.64	11,974.0	-133.4	-0.5	133.4	0.00	0.00	0.00
12,800.0	90.00	179.64	11,974.0	-233.4	0.1	233.4	0.00	0.00	0.00
12,900.0	90.00	179.64	11,974.0	-333.4	0.7	333.4	0.00	0.00	0.00
13,000.0	90.00	179.64	11,974.0	-433.4	1.4	433.4	0.00	0.00	0.00
13,100.0	90.00	179.64	11,974.0	-533.4	2.0	533.4	0.00	0.00	0.00
13,200.0	90.00	179.64	11,974.0	-633.4	2.6	633.4	0.00	0.00	0.00
13,300.0	90.00	179.64	11,974.0	-733.4	3.3	733.4	0.00	0.00	0.00
13,400.0	90.00	179.64	11,974.0	-833.4	3.9	833.4	0.00	0.00	0.00
13,500.0	90.00	179.64	11,974.0	-933.4	4.5	933.4	0.00	0.00	0.00
13,600.0	90.00	179.64	11,974.0	-1,033.4	5.1	1,033.4	0.00	0.00	0.00
13,700.0	90.00	179.64	11,974.0	-1,133.4	5.8	1,133.4	0.00	0.00	0.00
13,800.0	90.00	179.64	11,974.0	-1,233.3	6.4	1,233.4	0.00	0.00	0.00
13,900.0	90.00	179.64	11,974.0	-1,333.3	7.0	1,333.4	0.00	0.00	0.00
14,000.0	90.00	179.64	11,974.0	-1,433.3	7.6	1,433.4	0.00	0.00	0.00
14,100.0	90.00	179.64	11,974.0	-1,533.3	8.3	1,533.4	0.00	0.00	0.00
14,200.0	90.00	179.64	11,974.0	-1,633.3	8.9	1,633.4	0.00	0.00	0.00
14,300.0	90.00	179.64	11,974.0	-1,733.3	9.5	1,733.4	0.00	0.00	0.00
14,400.0	90.00	179.64	11,974.0	-1,833.3	10.1	1,833.4	0.00	0.00	0.00
14,500.0	90.00	179.64	11,974.0	-1,933.3	10.8	1,933.4	0.00	0.00	0.00
14,600.0	90.00	179.64	11,974.0	-2,033.3	11.4	2,033.4	0.00	0.00	0.00
14,700.0	90.00	179.64	11,974.0	-2,133.3	12.0	2,133.4	0.00	0.00	0.00
14,800.0	90.00	179.64	11,974.0	-2,233.3	12.6	2,233.4	0.00	0.00	0.00
14,900.0	90.00	179.64	11,974.0	-2,333.3	13.3	2,333.4	0.00	0.00	0.00
15,000.0	90.00	179.64	11,974.0	-2,433.3	13.9	2,433.4	0.00	0.00	0.00
15,100.0	90.00	179.64	11,974.0	-2,533.3	14.5	2,533.4	0.00	0.00	0.00
15,200.0	90.00	179.64	11,974.0	-2,633.3	15.2	2,633.4	0.00	0.00	0.00
15,300.0	90.00	179.64	11,974.0	-2,733.3	15.8	2,733.4	0.00	0.00	0.00
15,400.0	90.00	179.64	11,974.0	-2,833.3	16.4	2,833.4	0.00	0.00	0.00
15,500.0	90.00	179.64	11,974.0	-2,933.3	17.0	2,933.4	0.00	0.00	0.00
15,600.0	90.00	179.64	11,974.0	-3,033.3	17.7	3,033.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

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)
15,700.0	90.00	179.64	11,974.0	-3,133.3	18.3	3,133.4	0.00	0.00	0.00
15,800.0	90.00	179.64	11,974.0	-3,233.3	18.9	3,233.4	0.00	0.00	0.00
15,900.0	90.00	179.64	11,974.0	-3,333.3	19.5	3,333.4	0.00	0.00	0.00
16,000.0	90.00	179.64	11,974.0	-3,433.3	20.2	3,433.4	0.00	0.00	0.00
16,100.0	90.00	179.64	11,974.0	-3,533.3	20.8	3,533.4	0.00	0.00	0.00
16,200.0	90.00	179.64	11,974.0	-3,633.3	21.4	3,633.4	0.00	0.00	0.00
16,300.0	90.00	179.64	11,974.0	-3,733.3	22.0	3,733.4	0.00	0.00	0.00
16,400.0	90.00	179.64	11,974.0	-3,833.3	22.7	3,833.4	0.00	0.00	0.00
16,500.0	90.00	179.64	11,974.0	-3,933.3	23.3	3,933.4	0.00	0.00	0.00
16,600.0	90.00	179.64	11,974.0	-4,033.3	23.9	4,033.4	0.00	0.00	0.00
16,700.0	90.00	179.64	11,974.0	-4,133.3	24.6	4,133.4	0.00	0.00	0.00
16,800.0	90.00	179.64	11,974.0	-4,233.3	25.2	4,233.4	0.00	0.00	0.00
16,900.0	90.00	179.64	11,974.0	-4,333.3	25.8	4,333.4	0.00	0.00	0.00
17,000.0	90.00	179.64	11,974.0	-4,433.3	26.4	4,433.4	0.00	0.00	0.00
17,100.0	90.00	179.64	11,974.0	-4,533.3	27.1	4,533.4	0.00	0.00	0.00
17,200.0	90.00	179.64	11,974.0	-4,633.3	27.7	4,633.4	0.00	0.00	0.00
17,300.0	90.00	179.64	11,974.0	-4,733.3	28.3	4,733.4	0.00	0.00	0.00
17,400.0	90.00	179.64	11,974.0	-4,833.3	28.9	4,833.4	0.00	0.00	0.00
17,500.0	90.00	179.64	11,974.0	-4,933.3	29.6	4,933.4	0.00	0.00	0.00
17,600.0	90.00	179.64	11,974.0	-5,033.3	30.2	5,033.4	0.00	0.00	0.00
17,700.0	90.00	179.64	11,974.0	-5,133.3	30.8	5,133.4	0.00	0.00	0.00
17,800.0	90.00	179.64	11,974.0	-5,233.3	31.4	5,233.4	0.00	0.00	0.00
17,900.0	90.00	179.64	11,974.0	-5,333.3	32.1	5,333.4	0.00	0.00	0.00
18,000.0	90.00	179.64	11,974.0	-5,433.3	32.7	5,433.4	0.00	0.00	0.00
18,100.0	90.00	179.64	11,974.0	-5,533.3	33.3	5,533.4	0.00	0.00	0.00
18,200.0	90.00	179.64	11,974.0	-5,633.3	33.9	5,633.4	0.00	0.00	0.00
18,300.0	90.00	179.64	11,974.0	-5,733.3	34.6	5,733.4	0.00	0.00	0.00
18,400.0	90.00	179.64	11,974.0	-5,833.3	35.2	5,833.4	0.00	0.00	0.00
18,500.0	90.00	179.64	11,974.0	-5,933.3	35.8	5,933.4	0.00	0.00	0.00
18,600.0	90.00	179.64	11,974.0	-6,033.3	36.5	6,033.4	0.00	0.00	0.00
18,700.0	90.00	179.64	11,974.0	-6,133.3	37.1	6,133.4	0.00	0.00	0.00
18,800.0	90.00	179.64	11,974.0	-6,233.3	37.7	6,233.4	0.00	0.00	0.00
18,900.0	90.00	179.64	11,974.0	-6,333.2	38.3	6,333.4	0.00	0.00	0.00
19,000.0	90.00	179.64	11,974.0	-6,433.2	39.0	6,433.4	0.00	0.00	0.00
19,100.0	90.00	179.64	11,974.0	-6,533.2	39.6	6,533.4	0.00	0.00	0.00
19,200.0	90.00	179.64	11,974.0	-6,633.2	40.2	6,633.4	0.00	0.00	0.00
19,300.0	90.00	179.64	11,974.0	-6,733.2	40.8	6,733.4	0.00	0.00	0.00
19,400.0	90.00	179.64	11,974.0	-6,833.2	41.5	6,833.4	0.00	0.00	0.00
19,500.0	90.00	179.64	11,974.0	-6,933.2	42.1	6,933.4	0.00	0.00	0.00
19,600.0	90.00	179.64	11,974.0	-7,033.2	42.7	7,033.4	0.00	0.00	0.00
19,658.5	90.00	179.64	11,974.0	-7,091.7	43.1	7,091.8	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.6usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.6usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL_ZHU 2832 702H - plan hits target center - Rectangle (sides W100.0 H7,357.7 D20.0)	0.00	359.64	11,974.0	-7,091.7	43.1	364,413.11	700,625.11	32° 0' 0.844 N	103° 41' 10.136 W
FTP_ZHU 2832 702H - plan misses target center by 0.2usft at 12300.6usft MD (11974.0 TVD, 266.0 N, -3.0 E) - Circle (radius 50.0)	0.00	0.00	11,974.0	266.0	-2.8	371,770.79	700,579.20	32° 1' 13.659 N	103° 41' 10.158 W
LTP_ZHU 2832 702H - plan misses target center by 8.5usft at 19600.0usft MD (11974.0 TVD, -7033.2 N, 42.7 E) - Circle (radius 50.0)	90.00	0.00	11,974.0	-7,041.7	42.7	364,463.11	700,624.77	32° 0' 1.339 N	103° 41' 10.136 W

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(")	(")	
19,658.5	11,974.0	5-1/2" Production Casing	5-1/2	6	

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 702H

OWB

PWP0

Anticollision Report

26 February, 2025

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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	19,658.5	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
Offset Well - Wellbore - Design						
RED HILLS WEST						
RED HILLS WEST 21 DM FEDERAL COM #1H - OWB -	9,341.0	13,681.0	216.9	99.3	1.844	Caution - Monitor Closely, CC, ES, SF
RED HILLS WEST 21 W0DM FEDERAL COM #3H - OW	11,807.3	16,570.0	267.8	125.7	1.885	Caution - Monitor Closely, CC, ES, SF
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	3,277.0	3,268.9	233.4	213.1	11.488	CC
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	3,300.0	3,291.7	233.4	213.0	11.425	ES
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	4,200.0	4,181.5	274.6	248.7	10.613	SF
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	2,991.8	3,002.2	104.2	85.3	5.516	CC
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	3,000.0	3,010.1	104.2	85.2	5.495	ES
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	3,100.0	3,108.1	107.2	87.3	5.382	SF
ZIA HILLS 20 FED COM PROJECT						
WILDER 29 FEDERAL #1H - OWB - AWP						Out of range
WILDER 29 FEDERAL #5H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #114H - OWB - AWP						Out of range
ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP	12,318.1	14,109.0	911.4	873.4	23.993	CC
ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP	19,658.5	21,460.0	926.7	776.9	6.187	ES, SF
ZIA HILLS UNIT 2032 PROJECT (S TO N)						
BUCK 20 FEDERAL #1H - OWB - AWP	9,304.4	13,905.0	965.7	844.9	7.991	CC, ES, SF
BUCK 20 FEDERAL 5H_PA - OWB - AWP						Out of range

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWPO	2,000.0	1,999.4	20.0	7.0	1.544	Caution - Monitor Closely, CC, ES, SF
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWPO	2,000.0	1,999.7	20.0	7.0	1.544	Caution - Monitor Closely, CC
_ZIA HILLS UNIT 2832 WC 703H - OWB - PWPO	2,100.0	2,099.7	20.1	6.9	1.519	Caution - Monitor Closely, ES, SF
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWPO	2,000.0	1,999.8	40.0	27.0	3.088	CC
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWPO	2,004.4	2,004.2	40.0	27.0	3.086	ES
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWPO	2,100.0	2,099.3	40.4	27.2	3.070	SF
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWPO	1,966.6	1,966.8	60.0	48.5	5.201	CC
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWPO	2,000.0	2,000.0	60.0	48.4	5.168	ES
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWPO	2,200.0	2,199.4	61.4	49.3	5.079	SF
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWPO	1,966.4	1,967.2	80.0	67.1	6.219	CC
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWPO	2,000.0	2,000.8	80.0	67.0	6.176	ES
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWPO	2,100.0	2,100.4	80.3	67.1	6.082	SF
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWPO						Out of range
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWPO						Out of range
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWPO	1,966.3	1,967.3	100.0	87.1	7.774	CC
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWPO	2,000.0	2,001.0	100.0	87.0	7.719	ES
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWPO	19,658.5	20,368.8	654.3	513.2	4.636	SF
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWPO						Out of range
RED HILLS WEST '21' DM FEDERAL COM 1H - OWB - RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP	9,339.0	13,681.0	216.9	99.9	1.855	Caution - Monitor Closely, CC, ES, SF
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW						Out of range
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW						Out of range
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	11,986.5	16,830.0	392.8	293.6	3.958	CC, ES, SF
RED HILLS WEST 21 W1DM FEDERAL COM 003H - O	11,807.3	16,570.0	267.9	151.0	2.293	Caution - Monitor Closely, CC, ES
RED HILLS WEST 21 W1DM FEDERAL COM 003H - O	11,825.0	16,570.0	268.5	151.4	2.293	Caution - Monitor Closely, SF
WILDER FEDERAL AC COM 28 3H - OWB - AWP	445.2	451.7	934.2	927.9	146.875	CC
WILDER FEDERAL AC COM 28 3H - OWB - AWP	500.0	500.0	934.4	927.9	142.607	ES
WILDER FEDERAL AC COM 28 3H - OWB - AWP	4,900.0	4,803.0	998.5	979.4	52.169	SF

Offset Design: RED HILLS WEST - RED HILLS WEST 21 DM FEDERAL COM #1H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program: 100-r.5 GYRO-NS, 8633-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)					
8,400.0	8,345.8	13,647.4	9,285.4	26.5	82.1	-80.10	781.1	-222.1	964.9	901.8	63.06	15.300			
8,500.0	8,445.8	13,650.0	9,285.5	26.5	82.2	-80.77	778.5	-222.1	867.8	803.6	64.18	13.521			
8,600.0	8,545.8	13,652.8	9,285.6	26.6	82.2	-81.50	775.7	-222.2	771.4	705.8	65.65	11.751			
8,700.0	8,645.8	13,655.7	9,285.7	26.6	82.2	-82.27	772.8	-222.3	676.1	608.5	67.65	9.995			
8,800.0	8,745.8	13,658.9	9,285.9	26.7	82.3	-83.10	769.6	-222.4	582.4	511.9	70.47	8.264			
8,900.0	8,845.8	13,662.3	9,286.0	26.7	82.3	-84.00	766.2	-222.4	491.0	416.4	74.62	6.580			
9,000.0	8,945.8	13,666.0	9,286.1	26.8	82.4	-84.97	762.5	-222.5	403.8	322.9	80.93	4.990			
9,100.0	9,045.8	13,670.0	9,286.3	26.8	82.5	-86.01	758.5	-222.6	324.0	233.4	90.58	3.577			
9,200.0	9,145.8	13,674.3	9,286.5	26.9	82.5	-87.15	754.2	-222.7	258.6	154.5	104.05	2.485	Caution - Monitor Closely		
9,300.0	9,245.8	13,679.0	9,286.7	26.9	82.6	-88.38	749.5	-222.8	220.7	104.6	116.15	1.900	Caution - Monitor Closely		
9,341.0	9,286.8	13,681.0	9,286.8	26.9	82.6	-88.92	747.5	-222.8	216.9	99.3	117.59	1.844	Caution - Monitor Closely, CC, ES, SF		
9,400.0	9,345.8	13,683.7	9,286.9	27.0	82.7	-89.62	744.8	-222.9	224.7	110.3	114.50	1.963	Caution - Monitor Closely		
9,500.0	9,445.8	13,688.1	9,287.1	27.0	82.7	-90.79	740.4	-223.0	268.8	167.6	101.24	2.655	Normal Operations		
9,600.0	9,545.8	13,692.4	9,287.3	27.1	82.8	-91.91	736.2	-223.1	337.6	249.1	88.56	3.812			
9,700.0	9,645.8	13,696.4	9,287.5	27.1	82.9	-92.98	732.1	-223.1	419.1	339.2	79.97	5.241			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - RED HILLS WEST 21 DM FEDERAL COM #1H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-r.5 GYRO-NS, 8633-MWD - OWSG R1											Rule Assigned:		Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.0	9,745.8	13,700.3	9,287.7	27.2	82.9	-93.99	728.2	-223.2	507.3	432.7	74.57	6.802	
9,900.0	9,845.8	13,704.0	9,287.8	27.2	83.0	-94.96	724.5	-223.3	599.1	527.9	71.17	8.418	
10,000.0	9,945.8	13,707.6	9,288.0	27.3	83.0	-95.89	721.0	-223.4	693.2	624.2	68.98	10.049	
10,100.0	10,045.8	13,711.0	9,288.1	27.3	83.1	-96.77	717.6	-223.4	788.7	721.2	67.54	11.678	
10,200.0	10,145.8	13,714.2	9,288.2	27.4	83.1	-97.62	714.3	-223.5	885.2	818.6	66.58	13.294	
10,300.0	10,245.8	13,717.4	9,288.4	27.4	83.2	-98.43	711.2	-223.5	982.4	916.4	65.95	14.897	

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - RED HILLS WEST 21 W0DM FEDERAL COM #3H - OWB - AWP														Offset Site Error:	0.0 usft	
Survey Program: 134-MWD - OWSG R1, 963-MWD+IGRF										Rule Assigned:				Offset Well Error:		2.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning			
10,900.0	10,845.8	16,549.4	11,756.6	27.7	100.2	-94.94	720.4	-272.1	949.1	869.0	80.14	11.844				
11,000.0	10,945.8	16,547.2	11,756.7	27.8	100.1	-94.45	722.7	-272.1	853.6	771.7	81.90	10.423				
11,100.0	11,045.8	16,544.9	11,756.7	27.8	100.1	-93.97	724.9	-272.1	759.3	675.1	84.22	9.015				
11,200.0	11,145.8	16,542.6	11,756.8	27.9	100.0	-93.48	727.2	-272.2	666.6	579.2	87.38	7.629				
11,300.0	11,245.8	16,540.4	11,756.8	27.9	100.0	-92.99	729.5	-272.2	576.3	484.5	91.79	6.279				
11,400.0	11,345.8	16,538.1	11,756.9	28.0	100.0	-92.51	731.7	-272.2	489.8	391.8	98.09	4.994				
11,500.0	11,445.8	16,535.8	11,756.9	28.0	99.9	-92.02	734.0	-272.2	409.6	302.4	107.11	3.824				
11,550.7	11,496.5	16,534.7	11,756.9	28.1	99.9	-91.77	735.2	-272.2	372.5	259.6	112.95	3.298				
11,575.0	11,520.8	16,534.8	11,756.9	28.0	99.9	91.29	735.1	-272.2	355.9	239.9	116.06	3.067				
11,600.0	11,545.7	16,536.1	11,756.9	27.9	99.9	93.52	733.7	-272.2	339.9	220.4	119.45	2.845 Normal Operations				
11,625.0	11,570.5	16,538.8	11,756.8	27.9	100.0	95.16	731.1	-272.2	325.0	202.0	122.98	2.643 Normal Operations				
11,650.0	11,595.1	16,542.7	11,756.8	27.8	100.0	96.25	727.1	-272.2	311.5	184.9	126.58	2.461 Caution - Monitor Closely				
11,675.0	11,619.4	16,548.0	11,756.6	27.7	100.1	96.79	721.9	-272.1	299.5	169.4	130.13	2.302 Caution - Monitor Closely				
11,700.0	11,643.4	16,554.5	11,756.5	27.6	100.3	96.80	715.4	-272.1	289.3	155.8	133.51	2.167 Caution - Monitor Closely				
11,725.0	11,667.0	16,562.3	11,756.3	27.5	100.4	96.30	707.6	-272.0	280.8	144.2	136.58	2.056 Caution - Monitor Closely				
11,750.0	11,690.1	16,570.0	11,756.1	27.4	100.5	95.58	699.9	-271.9	274.3	135.1	139.18	1.971 Caution - Monitor Closely				
11,775.0	11,712.7	16,570.0	11,756.1	27.3	100.5	96.11	699.9	-271.9	269.9	128.9	141.00	1.914 Caution - Monitor Closely				
11,800.0	11,734.6	16,570.0	11,756.1	27.2	100.5	96.34	699.9	-271.9	267.9	125.9	141.99	1.887 Caution - Monitor Closely				
11,807.3	11,741.0	16,570.0	11,756.1	27.1	100.5	96.35	699.9	-271.9	267.8	125.7	142.11	1.885 Caution - Monitor Closely, CC, ES, SF				
11,825.0	11,756.0	16,570.0	11,756.1	27.1	100.5	96.28	699.9	-271.9	268.4	126.4	142.06	1.890 Caution - Monitor Closely				
11,850.0	11,776.6	16,570.0	11,756.1	27.0	100.5	95.92	699.9	-271.9	271.4	130.2	141.22	1.922 Caution - Monitor Closely				
11,875.0	11,796.5	16,570.0	11,756.1	26.9	100.5	95.27	699.9	-271.9	276.7	137.2	139.57	1.983 Caution - Monitor Closely				
11,900.0	11,815.5	16,570.0	11,756.1	26.8	100.5	94.32	699.9	-271.9	284.3	147.1	137.23	2.072 Caution - Monitor Closely				
11,925.0	11,833.6	16,570.0	11,756.1	26.7	100.5	93.08	699.9	-271.9	293.9	159.5	134.40	2.187 Caution - Monitor Closely				
11,950.0	11,850.9	16,570.0	11,756.1	26.6	100.5	91.54	699.9	-271.9	305.3	174.0	131.25	2.326 Caution - Monitor Closely				
11,975.0	11,867.1	16,570.0	11,756.1	26.5	100.5	89.72	699.9	-271.9	318.3	190.3	127.93	2.488 Caution - Monitor Closely				
12,000.0	11,882.4	16,570.0	11,756.1	26.4	100.5	87.61	699.9	-271.9	332.6	208.0	124.58	2.670 Normal Operations				
12,025.0	11,896.6	16,570.0	11,756.1	26.3	100.5	85.24	699.9	-271.9	348.1	226.8	121.29	2.870 Normal Operations				
12,050.0	11,909.7	16,570.0	11,756.1	26.3	100.5	82.62	699.9	-271.9	364.6	246.5	118.13	3.087				
12,075.0	11,921.6	16,570.0	11,756.1	26.2	100.5	79.78	699.9	-271.9	381.9	266.8	115.13	3.317				
12,100.0	11,932.4	16,570.0	11,756.1	26.1	100.5	76.75	699.9	-271.9	399.9	287.6	112.32	3.560				
12,125.0	11,942.0	16,570.0	11,756.1	26.1	100.5	73.56	699.9	-271.9	418.4	308.7	109.70	3.814				
12,150.0	11,950.4	16,570.0	11,756.1	26.1	100.5	70.27	699.9	-271.9	437.3	330.0	107.27	4.076				
12,175.0	11,957.5	16,570.0	11,756.1	26.0	100.5	66.92	699.9	-271.9	456.5	351.4	105.03	4.346				
12,200.0	11,963.4	16,570.0	11,756.1	26.0	100.5	63.55	699.9	-271.9	475.9	372.9	102.96	4.622				
12,225.0	11,968.0	16,570.0	11,756.1	26.0	100.5	60.22	699.9	-271.9	495.5	394.4	101.05	4.903				
12,250.0	11,971.3	16,570.0	11,756.1	25.9	100.5	56.96	699.9	-271.9	515.1	415.9	99.29	5.188				
12,275.0	11,973.3	16,570.0	11,756.1	25.9	100.5	53.80	699.9	-271.9	534.8	437.2	97.66	5.477				
12,300.0	11,974.0	16,570.0	11,756.1	25.9	100.5	50.79	699.9	-271.9	554.5	458.3	96.15	5.767				
12,300.7	11,974.0	16,570.0	11,756.1	25.9	100.5	50.71	699.9	-271.9	555.0	458.9	96.10	5.775				
12,400.0	11,974.0	16,570.0	11,756.1	25.9	100.5	50.71	699.9	-271.9	636.0	544.9	91.01	6.988				
12,500.0	11,974.0	16,570.0	11,756.1	25.9	100.5	50.71	699.9	-271.9	722.1	635.0	87.07	8.294				
12,600.0	11,974.0	16,570.0	11,756.1	25.9	100.5	50.71	699.9	-271.9	811.4	727.4	84.05	9.654				
12,700.0	11,974.0	16,570.0	11,756.1	25.9	100.5	50.71	699.9	-271.9	903.0	821.3	81.71	11.051				
12,800.0	11,974.0	16,570.0	11,756.1	26.0	100.5	50.71	699.9	-271.9	996.2	916.3	79.89	12.470				

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 141-MWD - OWSG R1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	8.6	3.0	3.0	-83.08	34.7	-286.0	288.3					
100.0	100.0	90.6	99.2	3.1	3.0	-83.10	34.6	-286.2	288.2	281.4	6.84	42.134		
200.0	200.0	190.3	198.9	3.3	3.0	-83.17	34.3	-286.6	288.6	281.5	7.09	40.680		
300.0	300.0	290.4	299.0	3.6	3.1	-83.26	33.9	-287.0	289.0	281.6	7.38	39.151		
400.0	400.0	390.7	399.3	3.8	3.2	-83.52	32.6	-287.4	289.3	281.6	7.69	37.601		
500.0	500.0	491.3	499.8	4.0	3.3	-84.00	30.3	-287.9	289.5	281.4	8.03	36.047		
600.0	600.0	591.5	600.0	4.1	3.5	-84.72	26.6	-288.2	289.5	281.1	8.39	34.515		
700.0	700.0	689.0	697.4	4.3	3.7	-85.54	22.5	-289.0	289.9	281.1	8.76	33.099		
800.0	800.0	788.2	796.5	4.5	3.9	-86.42	18.2	-290.3	290.9	281.8	9.15	31.809		
900.0	900.0	879.5	887.7	4.7	4.2	-87.22	14.2	-292.9	293.5	284.0	9.53	30.817		
1,000.0	1,000.0	977.1	985.1	4.8	4.4	-87.98	10.5	-297.8	298.3	288.6	9.77	30.526		
1,100.0	1,100.0	1,076.3	1,084.1	5.0	4.7	-88.43	8.3	-302.9	303.4	293.3	10.19	29.779		
1,200.0	1,200.0	1,187.7	1,195.4	5.2	5.0	-88.25	9.3	-306.5	306.7	296.1	10.64	28.817		
1,300.0	1,300.0	1,293.8	1,301.3	5.3	5.3	-86.97	16.2	-306.7	307.1	296.0	11.07	27.740		
1,400.0	1,400.0	1,400.0	1,406.7	5.5	5.5	-84.68	28.4	-304.7	306.1	294.6	11.50	26.611		
1,500.0	1,500.0	1,506.4	1,512.1	5.6	5.8	-81.95	42.3	-299.3	302.6	290.6	11.95	25.324		
1,600.0	1,600.0	1,606.3	1,611.0	5.8	6.1	-79.38	55.0	-293.3	298.6	286.2	12.39	24.097		
1,700.0	1,700.0	1,705.9	1,709.7	5.9	6.5	-76.88	67.0	-287.3	295.2	282.3	12.85	22.973		
1,800.0	1,800.0	1,806.0	1,808.9	6.0	6.8	-74.43	78.3	-281.2	292.0	278.7	13.32	21.930		
1,900.0	1,900.0	1,907.5	1,909.6	6.2	7.1	-71.91	89.7	-274.4	288.9	275.1	13.79	20.942		
2,000.0	2,000.0	2,007.3	2,008.6	6.3	7.5	-69.40	100.5	-267.3	285.6	271.4	14.28	20.007		
2,100.0	2,100.0	2,105.8	2,106.3	6.5	7.8	-66.93	110.5	-260.5	282.3	267.6	14.77	19.114		
2,200.0	2,199.8	2,203.8	2,203.7	6.8	8.1	-65.70	119.9	-254.5	278.4	263.1	15.27	18.231		
2,300.0	2,299.5	2,303.2	2,302.6	7.0	8.5	-65.50	127.9	-249.6	273.5	257.8	15.77	17.342		
2,400.0	2,398.7	2,401.0	2,400.3	7.2	8.8	-66.67	133.0	-246.4	267.7	251.4	16.26	16.462		
2,436.2	2,434.5	2,437.3	2,436.5	7.3	8.9	-67.44	134.2	-245.6	265.4	249.0	16.41	16.172		
2,500.0	2,497.6	2,501.0	2,500.2	7.4	9.1	-68.92	136.1	-244.3	261.2	244.5	16.69	15.652		
2,600.0	2,596.4	2,600.7	2,599.8	7.6	9.5	-71.43	138.5	-242.2	254.8	237.6	17.16	14.850		
2,700.0	2,695.3	2,699.7	2,698.8	7.9	9.8	-74.21	140.2	-240.2	248.8	231.2	17.62	14.120		
2,800.0	2,794.1	2,798.0	2,797.1	8.1	10.1	-77.27	141.1	-238.6	243.7	225.6	18.08	13.477		
2,900.0	2,892.9	2,896.2	2,895.2	8.4	10.4	-80.53	141.8	-237.4	239.7	221.1	18.54	12.927		
3,000.0	2,991.8	2,994.7	2,993.7	8.7	10.8	-83.91	142.5	-236.4	236.7	217.7	19.00	12.457		
3,100.0	3,090.6	3,093.3	3,092.3	9.0	11.1	-87.42	142.9	-235.7	234.8	215.3	19.46	12.063		
3,200.0	3,189.5	3,192.8	3,191.8	9.3	11.4	-91.04	143.2	-234.8	233.7	213.7	19.94	11.718		
3,277.0	3,265.6	3,268.9	3,268.0	9.6	11.7	-93.81	143.5	-234.0	233.4	213.1	20.32	11.488 CC		
3,300.0	3,288.3	3,291.7	3,290.8	9.6	11.8	-94.64	143.6	-233.8	233.4	213.0	20.43	11.425 ES		
3,400.0	3,387.2	3,391.0	3,390.0	10.0	12.1	-98.21	144.1	-232.7	234.0	213.0	20.94	11.175		
3,500.0	3,486.0	3,488.5	3,487.5	10.3	12.4	-101.67	144.7	-231.7	235.5	214.0	21.46	10.976		
3,600.0	3,584.8	3,585.3	3,584.3	10.7	12.7	-105.14	144.6	-231.7	239.0	217.0	21.99	10.871		
3,700.0	3,683.7	3,684.5	3,683.6	11.0	13.1	-108.64	144.3	-231.8	243.7	221.1	22.55	10.805		
3,800.0	3,782.5	3,784.9	3,783.9	11.4	13.4	-112.18	143.5	-231.2	248.8	225.6	23.16	10.742		
3,900.0	3,881.4	3,884.7	3,883.7	11.7	13.7	-115.61	142.7	-230.0	254.2	230.4	23.80	10.681		
4,000.0	3,980.2	3,983.2	3,982.2	12.1	14.1	-118.91	141.8	-228.5	260.3	235.8	24.46	10.642		
4,100.0	4,079.1	4,083.1	4,082.0	12.5	14.4	-122.22	140.4	-226.6	267.2	242.0	25.16	10.622		
4,200.0	4,177.9	4,181.5	4,180.5	12.9	14.8	-125.39	138.9	-224.3	274.6	248.7	25.87	10.613 SF		
4,300.0	4,276.8	4,278.2	4,277.1	13.3	15.1	-128.25	137.5	-222.5	283.2	256.6	26.59	10.649		
4,400.0	4,375.6	4,377.2	4,376.1	13.6	15.4	-130.91	136.2	-221.3	292.8	265.5	27.34	10.710		
4,500.0	4,474.4	4,475.2	4,474.1	14.0	15.7	-133.32	135.2	-220.4	303.1	275.2	27.92	10.855		
4,600.0	4,573.3	4,574.9	4,573.8	14.4	16.1	-135.31	135.3	-220.5	313.7	285.1	28.67	10.942		
4,700.0	4,672.1	4,674.2	4,673.0	14.8	16.4	-136.89	136.6	-221.6	324.5	295.1	29.41	11.035		
4,800.0	4,771.0	4,773.3	4,772.1	15.2	16.8	-138.31	138.2	-222.9	335.4	305.3	30.14	11.130		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 141-MWD - OWSG R1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,900.0	4,869.8	4,872.3	4,871.1	15.6	17.1	-139.65	139.7	-224.1	346.6	315.7	30.88	11.223		
5,000.0	4,968.7	4,970.6	4,969.4	16.0	17.4	-140.91	141.1	-225.4	358.0	326.4	31.62	11.323		
5,100.0	5,067.5	5,069.3	5,068.1	16.4	17.8	-142.09	142.4	-226.7	369.7	337.4	32.37	11.424		
5,200.0	5,166.3	5,168.6	5,167.4	16.9	18.1	-143.22	143.6	-228.0	381.7	348.6	33.12	11.524		
5,300.0	5,265.2	5,267.1	5,265.8	17.3	18.4	-144.27	144.9	-229.4	393.7	359.8	33.87	11.622		
5,400.0	5,364.0	5,365.3	5,364.0	17.7	18.8	-145.24	146.0	-230.9	406.1	371.4	34.62	11.729		
5,500.0	5,462.9	5,465.3	5,464.0	18.1	19.1	-146.17	147.1	-232.4	418.5	383.2	35.39	11.827		
5,600.0	5,561.7	5,564.9	5,563.6	18.5	19.5	-147.04	148.5	-233.8	430.9	394.7	36.16	11.917		
5,700.0	5,660.6	5,663.6	5,662.3	18.9	19.8	-147.87	149.8	-235.2	443.3	406.4	36.92	12.007		
5,800.0	5,759.4	5,762.0	5,760.7	19.3	20.1	-148.64	151.1	-236.6	455.9	418.2	37.68	12.099		
5,900.0	5,858.2	5,860.9	5,859.5	19.7	20.5	-149.35	152.3	-238.2	468.6	430.2	38.44	12.192		
6,000.0	5,957.1	5,957.1	5,955.7	20.2	20.8	-150.06	153.1	-239.5	481.7	442.5	39.19	12.293		
6,100.0	6,055.9	6,052.9	6,051.5	20.6	21.1	-150.90	152.6	-239.8	495.6	455.6	39.94	12.407		
6,200.0	6,154.8	6,149.4	6,148.1	21.0	21.5	-151.74	151.5	-240.1	510.0	469.3	40.71	12.528		
6,300.0	6,253.6	6,247.9	6,246.5	21.4	21.8	-152.56	150.2	-240.4	524.8	483.3	41.49	12.648		
6,400.0	6,352.5	6,346.5	6,345.1	21.9	22.1	-153.34	148.9	-240.7	539.7	497.4	42.28	12.765		
6,500.0	6,451.3	6,445.0	6,443.6	22.3	22.5	-154.06	147.5	-241.0	554.7	511.6	43.06	12.881		
6,600.0	6,550.1	6,541.6	6,540.2	22.7	22.8	-154.72	146.2	-241.7	569.9	526.1	43.82	13.005		
6,681.7	6,630.9	6,621.3	6,619.9	23.0	23.1	-155.23	144.9	-242.3	582.7	538.2	44.45	13.109		
6,700.0	6,649.0	6,639.3	6,637.8	23.1	23.1	-155.35	144.5	-242.4	585.5	540.9	44.58	13.132		
6,800.0	6,748.0	6,740.8	6,739.3	23.5	23.5	-155.98	143.0	-243.1	600.0	554.6	45.39	13.219		
6,900.0	6,847.2	6,845.4	6,843.9	23.9	23.8	-156.56	142.0	-243.2	612.1	565.9	46.19	13.250		
7,000.0	6,946.7	6,943.5	6,942.0	24.3	24.2	-157.02	141.2	-243.0	622.4	575.5	46.93	13.263		
7,100.0	7,046.3	7,041.3	7,039.9	24.7	24.5	-157.38	140.4	-243.1	631.4	583.7	47.63	13.255		
7,200.0	7,146.0	7,138.6	7,137.1	25.1	24.9	-157.65	139.2	-243.5	639.1	590.8	48.31	13.230		
7,300.0	7,245.9	7,238.0	7,236.5	25.4	25.2	-157.86	137.9	-244.0	645.4	596.5	48.98	13.178		
7,400.0	7,345.8	7,336.8	7,335.3	25.7	25.5	-157.98	136.5	-244.7	650.3	600.7	49.61	13.109		
7,500.0	7,445.8	7,436.4	7,434.9	26.0	25.9	-158.02	135.1	-245.7	653.7	603.5	50.20	13.022		
7,554.2	7,500.0	7,490.9	7,489.4	26.1	26.1	-158.47	134.4	-246.3	654.8	604.3	50.45	12.979		
7,600.0	7,545.8	7,536.7	7,535.2	26.1	26.2	-158.44	133.8	-246.8	655.5	604.9	50.62	12.950		
7,700.0	7,645.8	7,636.9	7,635.3	26.1	26.6	-158.38	132.5	-248.0	657.1	606.1	51.01	12.881		
7,800.0	7,745.8	7,738.4	7,736.8	26.2	26.9	-158.34	131.3	-249.1	658.7	607.2	51.43	12.808		
7,900.0	7,845.8	7,842.0	7,840.4	26.2	27.3	-158.42	129.9	-248.7	659.8	607.9	51.87	12.720		
8,000.0	7,945.8	7,942.4	7,940.8	26.3	27.6	-158.57	128.6	-247.4	660.5	608.2	52.29	12.631		
8,100.0	8,045.8	8,043.3	8,041.7	26.3	28.0	-158.69	127.4	-246.3	661.2	608.5	52.72	12.542		
8,200.0	8,145.8	8,141.2	8,139.5	26.4	28.3	-158.78	126.3	-245.6	662.0	608.9	53.12	12.462		
8,300.0	8,245.8	8,244.3	8,242.7	26.4	28.7	-158.84	125.4	-245.3	662.7	609.2	53.56	12.373		
8,400.0	8,345.8	8,348.7	8,347.1	26.5	29.0	-158.86	125.2	-245.1	662.9	608.8	54.01	12.273		
8,500.0	8,445.8	8,450.1	8,448.5	26.5	29.4	-158.83	125.5	-245.2	662.6	608.1	54.43	12.173		
8,600.0	8,545.8	8,552.8	8,551.2	26.6	29.8	-158.76	126.4	-245.8	661.9	607.1	54.85	12.067		
8,700.0	8,645.8	8,651.7	8,650.0	26.6	30.1	-158.65	127.7	-246.7	661.1	605.8	55.25	11.966		
8,743.9	8,689.8	8,691.0	8,689.4	26.6	30.2	-158.59	128.1	-247.3	660.9	605.5	55.39	11.932		
8,800.0	8,745.8	8,737.5	8,735.9	26.7	30.4	-158.52	128.1	-248.1	661.3	605.7	55.54	11.906		
8,900.0	8,845.8	8,789.0	8,787.3	26.7	30.6	-158.51	126.3	-248.9	665.8	610.3	55.45	12.006		
9,000.0	8,945.8	8,838.4	8,836.3	26.8	30.7	-158.74	119.8	-248.7	678.1	622.9	55.17	12.291		
9,100.0	9,045.8	8,883.0	8,879.8	26.8	30.9	-159.12	110.2	-247.6	697.8	643.1	54.65	12.768		
9,200.0	9,145.8	8,946.0	8,940.1	26.9	31.1	-159.79	92.1	-245.8	723.9	669.5	54.42	13.302		
9,300.0	9,245.8	8,977.0	8,969.2	26.9	31.2	-160.12	81.4	-245.4	756.4	703.0	53.40	14.164		
9,400.0	9,345.8	9,027.7	9,015.6	27.0	31.3	-160.73	60.9	-244.6	794.9	742.0	52.82	15.049		
9,500.0	9,445.8	9,059.8	9,043.8	27.0	31.4	-161.20	45.7	-243.5	839.5	787.7	51.78	16.213		
9,600.0	9,545.8	9,088.2	9,067.7	27.1	31.5	-161.67	30.4	-242.3	890.4	839.7	50.68	17.568		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program: 141-MWD - OWSG R1											Rule Assigned:		Offset Well Error:		3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
9,700.0	9,645.8	9,116.5	9,090.4	27.1	31.6	-162.15	13.7	-241.0	946.7	897.0	49.67	19.060			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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											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)				
0.0	0.0	0.0	6.6	3.0	0.0	-73.60	84.4	-286.9	299.1					
100.0	100.0	91.8	98.4	3.1	0.1	-73.60	84.5	-287.1	299.3	294.1	5.15	58.064		
200.0	200.0	190.1	196.7	3.3	0.3	-73.58	84.8	-287.9	300.1	294.6	5.49	54.663		
300.0	300.0	289.7	296.3	3.6	0.7	-73.62	85.0	-289.1	301.3	295.5	5.86	51.424		
400.0	400.0	390.0	396.6	3.8	1.0	-73.74	84.7	-290.4	302.5	296.3	6.25	48.388		
500.0	500.0	490.1	496.7	4.0	1.4	-73.93	84.0	-291.7	303.6	296.9	6.66	45.566		
600.0	600.0	590.8	597.3	4.1	1.8	-74.24	82.7	-293.2	304.6	297.5	7.09	42.970		
700.0	700.0	690.6	697.1	4.3	2.1	-74.68	80.7	-294.6	305.5	298.0	7.53	40.595		
800.0	800.0	788.0	794.5	4.5	2.5	-75.12	78.7	-296.4	306.7	298.8	7.97	38.501		
900.0	900.0	881.7	888.1	4.7	2.8	-75.60	76.9	-299.5	309.4	301.0	8.41	36.813		
1,000.0	1,000.0	974.1	980.3	4.8	3.1	-76.10	75.4	-304.7	314.5	305.8	8.69	36.210		
1,100.0	1,100.0	1,078.0	1,084.1	5.0	3.5	-76.70	73.6	-311.3	320.3	311.1	9.17	34.928		
1,200.0	1,200.0	1,198.9	1,204.8	5.2	4.0	-77.44	70.0	-314.3	322.0	312.3	9.71	33.171		
1,300.0	1,300.0	1,316.2	1,321.9	5.3	4.3	-77.87	66.6	-309.8	317.6	307.4	10.20	31.138		
1,400.0	1,400.0	1,424.8	1,430.2	5.5	4.7	-77.95	64.2	-300.7	309.0	298.3	10.66	28.975		
1,500.0	1,500.0	1,531.1	1,535.8	5.6	5.1	-77.77	62.7	-289.1	297.9	286.8	11.12	26.784		
1,600.0	1,600.0	1,634.1	1,638.0	5.8	5.4	-77.37	61.8	-275.9	285.2	273.7	11.58	24.622		
1,700.0	1,700.0	1,733.1	1,736.0	5.9	5.7	-76.92	61.0	-262.5	271.9	259.9	12.05	22.562		
1,800.0	1,800.0	1,830.2	1,832.3	6.0	6.1	-76.44	60.3	-249.9	259.1	246.5	12.53	20.680		
1,900.0	1,900.0	1,927.4	1,928.7	6.2	6.5	-75.82	60.1	-237.9	247.1	234.1	13.01	18.997		
2,000.0	2,000.0	2,027.5	2,028.1	6.3	6.8	-74.88	60.9	-225.6	235.4	221.9	13.49	17.450		
2,100.0	2,100.0	2,129.2	2,128.9	6.5	7.2	-73.97	61.9	-212.2	222.5	208.5	13.97	15.919		
2,200.0	2,199.8	2,230.8	2,229.4	6.8	7.6	-74.45	62.4	-197.6	207.3	192.9	14.46	14.337		
2,300.0	2,299.5	2,329.7	2,327.3	7.0	8.0	-76.10	62.5	-182.7	190.5	175.5	14.95	12.744		
2,400.0	2,398.7	2,425.5	2,422.0	7.2	8.4	-79.64	60.9	-169.1	173.6	158.2	15.44	11.250		
2,436.2	2,434.5	2,459.5	2,455.7	7.3	8.5	-81.42	60.2	-164.7	168.0	152.4	15.59	10.778		
2,500.0	2,497.6	2,520.5	2,516.3	7.4	8.7	-84.79	58.9	-157.5	159.1	143.2	15.87	10.023		
2,600.0	2,596.4	2,620.3	2,615.4	7.6	9.1	-90.26	59.1	-145.6	146.3	130.0	16.36	8.945		
2,700.0	2,695.3	2,722.6	2,716.5	7.9	9.5	-96.03	61.5	-130.6	132.3	115.4	16.84	7.853		
2,800.0	2,794.1	2,821.1	2,813.6	8.1	9.9	-103.20	63.4	-114.2	117.8	100.4	17.40	6.772		
2,900.0	2,892.9	2,915.5	2,906.8	8.4	10.3	-113.16	62.3	-98.8	107.1	89.0	18.10	5.918		
2,991.8	2,983.7	3,002.2	2,992.5	8.7	10.7	-124.17	58.9	-86.7	104.2	85.3	18.89	5.516 CC		
3,000.0	2,991.8	3,010.1	3,000.4	8.7	10.7	-125.19	58.5	-85.6	104.2	85.2	18.96	5.495 ES		
3,100.0	3,090.6	3,108.1	3,097.5	9.0	11.1	-137.41	54.5	-72.9	107.2	87.3	19.92	5.382 SF		
3,200.0	3,189.5	3,208.2	3,196.6	9.3	11.5	-148.73	52.0	-59.0	113.2	92.3	20.89	5.416		
3,300.0	3,288.3	3,307.6	3,295.0	9.6	11.9	-158.24	51.9	-45.0	120.6	98.8	21.82	5.528		
3,400.0	3,387.2	3,405.3	3,391.7	10.0	12.3	-166.02	52.5	-31.8	130.5	107.8	22.67	5.757		
3,500.0	3,486.0	3,502.7	3,488.4	10.3	12.7	-172.12	52.8	-19.8	142.9	119.5	23.45	6.094		
3,600.0	3,584.8	3,602.5	3,587.6	10.7	13.1	-176.85	53.3	-9.0	156.5	132.3	24.20	6.468		
3,700.0	3,683.7	3,703.7	3,688.2	11.0	13.5	-179.03	55.4	2.4	169.5	144.6	24.94	6.796		
3,800.0	3,782.5	3,801.8	3,785.5	11.4	13.9	-175.24	58.4	14.5	182.4	156.7	25.65	7.110		
3,900.0	3,881.4	3,898.3	3,881.2	11.7	14.3	-171.91	60.6	26.9	196.7	170.3	26.34	7.468		
4,000.0	3,980.2	3,994.3	3,976.4	12.1	14.7	-169.20	61.8	38.8	212.6	185.6	27.01	7.871		
4,100.0	4,079.1	4,091.2	4,072.6	12.5	15.0	-167.02	62.0	50.3	229.7	202.1	27.68	8.300		
4,200.0	4,177.9	4,188.1	4,168.8	12.9	15.4	-165.26	61.5	61.4	247.7	219.3	28.35	8.735		
4,300.0	4,276.8	4,291.8	4,272.0	13.3	15.8	-163.78	61.6	72.6	265.1	236.1	29.08	9.116		
4,400.0	4,375.6	4,395.1	4,374.7	13.6	16.2	-162.44	63.9	83.2	280.6	250.8	29.80	9.416		
4,500.0	4,474.4	4,489.6	4,468.6	14.0	16.6	-161.18	66.3	93.7	296.1	265.8	30.29	9.775		
4,600.0	4,573.3	4,586.9	4,565.1	14.4	17.0	-159.92	68.1	105.3	312.7	281.7	30.96	10.098		
4,700.0	4,672.1	4,683.7	4,661.1	14.8	17.4	-158.64	69.8	117.7	329.8	298.2	31.63	10.427		
4,800.0	4,771.0	4,781.4	4,757.9	15.2	17.8	-157.42	71.3	130.8	347.5	315.2	32.30	10.757		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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										Rule Assigned:				Offset Well Error:		0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning			
4,900.0	4,869.8	4,880.9	4,856.6	15.6	18.2	156.38	72.8	143.4	365.1	332.1	33.00	11.066				
5,000.0	4,968.7	4,980.2	4,955.2	16.0	18.6	155.54	74.3	155.4	382.5	348.8	33.69	11.353				
5,100.0	5,067.5	5,078.7	5,053.0	16.4	19.0	154.77	76.0	167.2	399.8	365.4	34.38	11.630				
5,200.0	5,166.3	5,173.7	5,147.3	16.9	19.4	154.11	77.3	178.6	417.4	382.3	35.04	11.911				
5,300.0	5,265.2	5,268.4	5,241.3	17.3	19.8	153.58	77.4	189.9	436.2	400.5	35.71	12.215				
5,400.0	5,364.0	5,367.6	5,339.8	17.7	20.2	153.14	77.2	201.4	455.2	418.8	36.42	12.499				
5,500.0	5,462.9	5,467.7	5,439.4	18.1	20.5	152.80	77.0	212.2	473.8	436.7	37.14	12.758				
5,600.0	5,561.7	5,567.4	5,538.5	18.5	20.9	152.51	77.0	222.8	492.1	454.2	37.85	12.999				
5,700.0	5,660.6	5,666.9	5,637.4	18.9	21.3	152.25	77.2	233.0	510.1	471.5	38.57	13.225				
5,800.0	5,759.4	5,762.4	5,732.4	19.3	21.7	151.95	77.7	243.5	528.2	489.0	39.26	13.455				
5,900.0	5,858.2	5,854.7	5,823.9	19.7	22.1	151.48	78.3	255.6	547.2	507.3	39.91	13.713				
6,000.0	5,957.1	5,950.2	5,918.4	20.2	22.5	150.92	78.7	269.5	567.1	526.6	40.57	13.979				
6,100.0	6,055.9	6,047.0	6,014.2	20.6	22.9	150.42	78.8	283.3	587.3	546.0	41.25	14.236				
6,200.0	6,154.8	6,144.5	6,110.8	21.0	23.3	150.01	78.4	296.7	607.6	565.7	41.95	14.485				
6,300.0	6,253.6	6,244.8	6,210.1	21.4	23.7	149.68	77.9	310.0	627.8	585.1	42.67	14.714				
6,400.0	6,352.5	6,347.0	6,311.4	21.9	24.1	149.30	78.1	323.7	647.5	604.1	43.40	14.919				
6,500.0	6,451.3	6,444.3	6,407.8	22.3	24.5	148.91	78.9	337.2	666.9	622.8	44.09	15.126				
6,600.0	6,550.1	6,544.7	6,507.3	22.7	25.0	148.57	79.6	350.6	686.2	641.4	44.81	15.316				
6,681.7	6,630.9	6,625.7	6,587.7	23.0	25.3	148.37	79.9	360.7	701.8	656.5	45.38	15.465				
6,700.0	6,649.0	6,643.9	6,605.7	23.1	25.4	148.35	80.0	362.9	705.3	659.8	45.51	15.498				
6,800.0	6,748.0	6,742.1	6,703.2	23.5	25.8	148.24	80.0	374.3	723.3	677.1	46.21	15.652				
6,900.0	6,847.2	6,838.9	6,799.5	23.9	26.1	148.13	79.4	385.0	740.1	693.2	46.89	15.785				
7,000.0	6,946.7	6,943.5	6,903.6	24.3	26.6	148.06	78.1	395.0	755.2	707.6	47.61	15.863				
7,100.0	7,046.3	7,058.6	7,018.3	24.7	27.0	148.04	76.9	403.4	767.4	719.0	48.38	15.860				
7,200.0	7,146.0	7,172.9	7,132.6	25.1	27.4	148.15	76.2	407.8	775.9	726.8	49.13	15.791				
7,300.0	7,245.9	7,277.0	7,236.7	25.4	27.7	148.27	75.9	410.0	781.7	731.9	49.80	15.698				
7,400.0	7,345.8	7,376.1	7,335.7	25.7	28.1	148.34	75.6	411.7	786.0	735.5	50.40	15.593				
7,500.0	7,445.8	7,479.0	7,438.6	26.0	28.4	148.33	75.3	413.4	788.7	737.7	50.98	15.469				
7,554.2	7,500.0	7,534.5	7,494.1	26.1	28.6	147.82	75.4	414.4	789.3	738.1	51.23	15.407				
7,600.0	7,545.8	7,581.1	7,540.7	26.1	28.8	147.75	75.6	415.3	789.6	738.2	51.41	15.360				
7,700.0	7,645.8	7,688.0	7,647.6	26.1	29.1	147.61	76.4	417.1	789.9	738.0	51.83	15.239				
7,800.0	7,745.8	7,789.6	7,749.2	26.2	29.5	147.51	77.5	418.1	789.5	737.3	52.23	15.116				
7,900.0	7,845.8	7,886.7	7,846.3	26.2	29.8	147.43	78.2	418.9	789.3	736.7	52.61	15.001				
7,916.4	7,862.3	7,902.7	7,862.3	26.2	29.8	147.42	78.3	419.0	789.3	736.6	52.68	14.983				
8,000.0	7,945.8	7,984.4	7,944.0	26.3	30.1	147.35	78.7	419.9	789.4	736.4	53.00	14.893				
8,100.0	8,045.8	8,084.7	8,044.2	26.3	30.4	147.28	79.1	420.8	789.6	736.2	53.41	14.784				
8,200.0	8,145.8	8,183.5	8,143.0	26.4	30.8	147.23	79.2	421.5	789.8	736.0	53.81	14.678				
8,300.0	8,245.8	8,281.8	8,241.4	26.4	31.1	147.20	79.1	422.1	790.3	736.1	54.21	14.579				
8,400.0	8,345.8	8,384.1	8,343.7	26.5	31.4	147.20	78.7	422.4	790.8	736.2	54.63	14.475				
8,500.0	8,445.8	8,486.3	8,445.9	26.5	31.7	147.23	78.4	422.0	790.9	735.8	55.05	14.367				
8,504.4	8,450.3	8,490.7	8,450.3	26.5	31.8	147.23	78.4	422.0	790.9	735.8	55.06	14.362				
8,600.0	8,545.8	8,587.0	8,546.5	26.6	32.1	147.30	77.8	421.2	790.9	735.4	55.46	14.262				
8,694.6	8,640.4	8,680.9	8,640.4	26.6	32.3	147.38	77.4	420.2	790.8	734.9	55.84	14.162				
8,700.0	8,645.8	8,686.1	8,645.6	26.6	32.4	147.39	77.3	420.2	790.8	734.9	55.86	14.156				
8,704.4	8,650.3	8,690.4	8,649.9	26.6	32.4	147.39	77.3	420.2	790.8	734.9	55.88	14.152				
8,800.0	8,745.8	8,764.2	8,723.7	26.7	32.6	147.46	76.4	419.5	791.5	735.4	56.15	14.097				
8,900.0	8,845.8	8,827.0	8,786.3	26.7	32.8	147.75	71.3	418.1	797.0	740.6	56.32	14.150				
9,000.0	8,945.8	8,867.3	8,825.9	26.8	32.9	148.12	64.6	416.2	808.3	752.1	56.18	14.389				
9,100.0	9,045.8	8,910.0	8,867.2	26.8	33.0	148.71	53.8	413.1	826.6	770.6	55.91	14.785				
9,200.0	9,145.8	8,953.0	8,907.5	26.9	33.1	149.42	39.4	410.0	851.8	796.3	55.51	15.344				
9,300.0	9,245.8	8,985.0	8,936.8	26.9	33.2	149.97	26.5	408.4	883.9	829.1	54.81	16.127				

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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										Rule Assigned:		Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,400.0	9,345.8	9,016.0	8,964.4	27.0	33.3	150.53	12.5	407.0	922.1	868.1	54.00	17.076	
9,500.0	9,445.8	9,048.0	8,991.9	27.0	33.4	151.16	-3.7	405.4	966.1	913.0	53.18	18.166	

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 20 FED COM PROJECT - ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 11102-r.5 MWD+IFR1+MS											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	11,545.7	13,596.9	11,921.1	27.9	17.4	93.60	754.5	-927.5	995.1	957.7	37.40	26.608			
11,625.0	11,570.5	13,601.4	11,921.3	27.9	17.4	94.49	750.0	-927.5	986.1	949.0	37.08	26.596			
11,650.0	11,595.1	13,607.3	11,921.7	27.8	17.4	95.20	744.1	-927.4	977.7	940.9	36.77	26.588			
11,675.0	11,619.4	13,614.4	11,922.1	27.7	17.5	95.76	737.0	-927.4	970.0	933.5	36.49	26.581			
11,700.0	11,643.4	13,622.8	11,922.6	27.6	17.5	96.16	728.6	-927.3	962.8	926.6	36.23	26.576			
11,725.0	11,667.0	13,632.4	11,923.2	27.5	17.6	96.41	719.0	-927.2	956.4	920.4	36.00	26.568			
11,750.0	11,690.1	13,643.3	11,924.0	27.4	17.7	96.52	708.2	-927.1	950.6	914.8	35.79	26.557			
11,775.0	11,712.7	13,655.4	11,924.8	27.3	17.7	96.51	696.1	-926.9	945.4	909.8	35.62	26.540			
11,800.0	11,734.6	13,672.0	11,925.8	27.2	17.9	96.20	679.5	-926.8	940.8	905.3	35.52	26.488			
11,825.0	11,756.0	13,689.9	11,926.7	27.1	18.0	95.79	661.7	-926.5	936.7	901.3	35.45	26.427			
11,850.0	11,776.6	13,708.4	11,927.5	27.0	18.1	95.31	643.2	-926.2	933.1	897.7	35.40	26.360			
11,875.0	11,796.5	13,727.6	11,928.0	26.9	18.2	94.76	624.0	-925.9	930.0	894.7	35.38	26.285			
11,900.0	11,815.5	13,747.4	11,928.2	26.8	18.4	94.16	604.2	-925.6	927.4	892.0	35.39	26.203			
11,925.0	11,833.6	13,765.7	11,928.3	26.7	18.5	93.61	585.9	-925.2	925.1	889.7	35.41	26.128			
11,950.0	11,850.9	13,784.9	11,928.4	26.6	18.6	93.02	566.7	-924.8	923.3	887.8	35.45	26.041			
11,975.0	11,867.1	13,805.0	11,928.5	26.5	18.8	92.40	546.6	-924.4	921.7	886.2	35.53	25.943			
12,000.0	11,882.4	13,826.0	11,928.6	26.4	18.9	91.75	525.6	-923.9	920.5	884.9	35.63	25.835			
12,025.0	11,896.6	13,849.1	11,928.7	26.3	19.1	91.06	502.6	-923.3	919.5	883.8	35.77	25.706			
12,050.0	11,909.7	13,874.7	11,928.9	26.3	19.2	90.33	477.0	-922.6	918.7	882.8	35.95	25.554			
12,075.0	11,921.6	13,901.1	11,929.1	26.2	19.4	89.65	450.5	-921.7	917.9	881.8	36.15	25.391			
12,100.0	11,932.4	13,928.3	11,929.3	26.1	19.6	89.02	423.4	-920.7	917.2	880.8	36.37	25.220			
12,125.0	11,942.0	13,956.9	11,929.6	26.1	19.8	88.44	394.8	-919.4	916.4	879.8	36.61	25.032			
12,150.0	11,950.4	13,986.2	11,930.1	26.1	20.0	87.96	365.5	-918.0	915.5	878.7	36.86	24.836			
12,175.0	11,957.5	14,016.1	11,930.7	26.0	20.2	87.58	335.7	-916.3	914.5	877.4	37.12	24.634			
12,200.0	11,963.4	14,048.4	11,930.8	26.0	20.3	87.64	332.8	-916.1	913.7	876.5	37.13	24.607			
12,225.0	11,968.0	14,048.4	11,931.3	26.0	20.5	87.41	303.4	-914.6	912.7	875.3	37.41	24.394			
12,250.0	11,971.3	14,064.0	11,931.4	25.9	20.6	87.36	287.8	-914.1	912.1	874.5	37.56	24.285			
12,275.0	11,973.3	14,079.7	11,931.5	25.9	20.7	87.33	272.2	-913.7	911.7	874.0	37.70	24.179			
12,300.0	11,974.0	14,109.0	11,931.2	25.9	21.0	87.31	242.9	-913.3	911.6	873.6	37.99	23.996			
12,300.7	11,974.0	14,109.0	11,931.2	25.9	21.0	87.31	242.9	-913.3	911.6	873.6	37.99	23.996			
12,318.1	11,974.0	14,109.0	11,931.2	25.9	21.0	87.31	242.9	-913.3	911.4	873.4	37.99	23.993 CC			
12,400.0	11,974.0	14,167.5	11,929.6	25.9	21.4	87.21	184.4	-913.7	912.6	874.0	38.54	23.678			
12,500.0	11,974.0	14,260.8	11,925.1	25.9	22.0	86.94	91.2	-916.1	916.0	876.5	39.47	23.207			
12,600.0	11,974.0	14,355.1	11,920.0	25.9	22.7	86.63	-2.9	-918.4	919.4	878.9	40.45	22.729			
12,700.0	11,974.0	14,437.8	11,915.7	25.9	23.3	86.38	-85.5	-921.6	924.2	882.8	41.37	22.338			
12,800.0	11,974.0	14,520.0	11,913.0	26.0	23.8	86.23	-167.4	-926.5	931.0	888.7	42.32	22.000			
12,900.0	11,974.0	14,616.2	11,910.1	26.0	24.5	86.09	-263.3	-933.7	939.2	895.8	43.42	21.629			
13,000.0	11,974.0	14,730.9	11,907.8	26.0	25.3	85.99	-377.8	-941.3	946.6	901.9	44.74	21.159			
13,100.0	11,974.0	14,898.7	11,912.9	26.0	26.5	86.31	-545.4	-945.4	949.5	902.9	46.59	20.381			
13,200.0	11,974.0	15,005.0	11,919.3	26.0	27.3	86.70	-651.4	-943.7	948.1	900.2	47.88	19.802			
13,300.0	11,974.0	15,100.1	11,925.7	26.0	28.0	87.08	-746.3	-942.5	947.1	898.0	49.10	19.289			
13,400.0	11,974.0	15,207.8	11,933.7	26.0	28.8	87.56	-853.7	-940.9	945.8	895.4	50.46	18.745			
13,500.0	11,974.0	15,296.8	11,938.1	26.1	29.4	87.83	-942.6	-939.7	944.9	893.2	51.68	18.284			
13,537.6	11,974.0	15,331.1	11,939.1	26.1	29.7	87.89	-976.9	-939.4	944.8	892.7	52.15	18.116			
13,600.0	11,974.0	15,389.0	11,940.3	26.1	30.1	87.96	-1,034.7	-939.3	945.0	892.0	52.95	17.846			
13,700.0	11,974.0	15,492.3	11,942.3	26.1	30.9	88.08	-1,138.0	-939.2	945.5	891.1	54.35	17.395			
13,800.0	11,974.0	15,603.3	11,943.6	26.1	31.7	88.16	-1,249.0	-937.8	944.8	889.0	55.85	16.917			
13,900.0	11,974.0	15,747.9	11,944.2	26.2	32.8	88.19	-1,393.5	-933.0	942.4	884.7	57.67	16.342			
14,000.0	11,974.0	15,854.8	11,943.6	26.2	33.6	88.14	-1,500.2	-925.4	935.9	876.7	59.16	15.821			
14,100.0	11,974.0	15,933.7	11,945.3	26.2	34.2	88.23	-1,578.9	-920.6	930.5	870.0	60.44	15.394			
14,200.0	11,974.0	16,008.0	11,946.1	26.8	34.7	88.28	-1,653.1	-918.1	927.6	865.9	61.69	15.037			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 20 FED COM PROJECT - ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 11102-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis 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		
14,279.3	11,974.0	16,073.4	11,943.7	27.4	35.2	88.13	-1,718.4	-917.1	927.0	864.3	62.72	14.779			
14,300.0	11,974.0	16,090.4	11,942.6	27.6	35.3	88.06	-1,735.5	-917.0	927.0	864.0	62.99	14.716			
14,400.0	11,974.0	16,189.8	11,935.6	28.4	36.1	87.63	-1,834.6	-916.6	927.6	863.1	64.48	14.386			
14,500.0	11,974.0	16,270.7	11,932.0	29.1	36.7	87.41	-1,915.4	-917.2	929.1	863.3	65.79	14.123			
14,600.0	11,974.0	16,353.1	11,930.1	29.9	37.3	87.30	-1,997.7	-919.5	932.6	865.5	67.10	13.898			
14,700.0	11,974.0	16,444.4	11,928.7	30.8	37.9	87.23	-2,088.9	-923.4	937.6	869.1	68.51	13.685			
14,800.0	11,974.0	16,543.1	11,926.9	31.6	38.7	87.14	-2,187.5	-928.1	943.1	873.1	70.01	13.470			
14,900.0	11,974.0	16,654.9	11,925.5	32.4	39.5	87.07	-2,299.2	-932.9	948.0	876.4	71.67	13.228			
15,000.0	11,974.0	16,769.8	11,924.3	33.2	40.3	87.01	-2,414.0	-935.9	951.3	877.9	73.36	12.968			
15,100.0	11,974.0	16,870.8	11,926.7	34.1	41.1	87.16	-2,515.0	-937.9	953.8	878.9	74.90	12.733			
15,200.0	11,974.0	16,970.9	11,929.6	34.9	41.8	87.34	-2,615.0	-940.0	956.4	879.9	76.45	12.510			
15,300.0	11,974.0	17,055.0	11,932.4	35.8	42.5	87.52	-2,699.1	-942.2	959.5	881.6	77.83	12.327			
15,400.0	11,974.0	17,157.0	11,933.0	36.6	43.2	87.56	-2,801.0	-946.5	964.3	884.9	79.42	12.142			
15,500.0	11,974.0	17,298.9	11,933.4	37.5	44.3	87.59	-2,942.8	-948.0	965.9	884.5	81.40	11.865			
15,600.0	11,974.0	17,403.7	11,934.4	38.3	45.1	87.65	-3,047.6	-946.5	965.1	882.1	83.02	11.625			
15,700.0	11,974.0	17,499.4	11,935.2	39.2	45.8	87.70	-3,143.3	-945.4	964.5	879.9	84.57	11.405			
15,800.0	11,974.0	17,595.7	11,935.7	40.1	46.5	87.73	-3,239.6	-944.6	964.3	878.2	86.13	11.196			
15,807.8	11,974.0	17,603.2	11,935.7	40.2	46.6	87.73	-3,247.1	-944.5	964.3	878.0	86.25	11.180			
15,900.0	11,974.0	17,677.8	11,935.2	41.0	47.1	87.70	-3,321.7	-944.5	964.8	877.3	87.56	11.019			
16,000.0	11,974.0	17,757.7	11,934.6	41.8	47.7	87.66	-3,401.5	-946.6	968.1	879.1	88.95	10.883			
16,100.0	11,974.0	17,871.7	11,933.6	42.7	48.6	87.61	-3,515.5	-949.8	971.6	880.9	90.70	10.712			
16,200.0	11,974.0	17,983.9	11,934.0	43.6	49.4	87.64	-3,627.7	-950.9	973.1	880.7	92.42	10.529			
16,300.0	11,974.0	18,080.1	11,935.8	44.5	50.1	87.75	-3,723.9	-951.6	974.5	880.5	93.99	10.368			
16,400.0	11,974.0	18,192.1	11,937.0	45.4	51.0	87.83	-3,835.9	-952.1	975.5	879.8	95.71	10.192			
16,500.0	11,974.0	18,310.2	11,941.1	46.3	51.9	88.07	-3,953.9	-951.2	975.3	877.8	97.47	10.006			
16,600.0	11,974.0	18,433.2	11,952.6	47.2	52.8	88.74	-4,076.3	-947.2	972.3	873.1	99.25	9.796			
16,700.0	11,974.0	18,541.4	11,962.5	48.1	53.6	89.32	-4,183.9	-942.1	968.1	867.2	100.93	9.591			
16,800.0	11,974.0	18,643.4	11,967.1	49.0	54.4	89.59	-4,285.6	-936.7	963.3	860.8	102.58	9.391			
16,900.0	11,974.0	18,739.8	11,967.5	49.9	55.1	89.61	-4,381.9	-931.7	958.8	854.6	104.19	9.202			
17,000.0	11,974.0	18,845.2	11,965.4	50.8	55.9	89.48	-4,487.1	-926.2	954.2	848.3	105.85	9.014			
17,100.0	11,974.0	18,934.9	11,964.9	51.7	56.6	89.45	-4,576.7	-920.9	949.0	841.6	107.44	8.832			
17,200.0	11,974.0	18,998.4	11,964.2	52.7	57.1	89.41	-4,640.1	-919.3	947.0	838.2	108.83	8.702			
17,212.5	11,974.0	19,010.0	11,964.0	52.8	57.2	89.39	-4,651.8	-919.2	947.0	838.0	109.03	8.686			
17,300.0	11,974.0	19,091.6	11,961.8	53.6	57.8	89.26	-4,733.3	-918.9	947.3	836.9	110.40	8.580			
17,400.0	11,974.0	19,192.0	11,958.7	54.5	58.6	89.08	-4,833.7	-918.8	947.8	835.8	112.05	8.459			
17,500.0	11,974.0	19,267.0	11,955.9	55.4	59.1	88.91	-4,908.6	-919.0	949.0	835.6	113.42	8.367			
17,600.0	11,974.0	19,329.3	11,953.5	56.3	59.6	88.77	-4,970.9	-921.2	953.6	839.1	114.57	8.323			
17,700.0	11,974.0	19,457.5	11,955.0	57.2	60.6	88.87	-5,098.7	-929.8	961.4	844.8	116.65	8.242			
17,800.0	11,974.0	19,574.3	11,962.7	58.2	61.5	89.33	-5,215.1	-934.5	966.2	847.7	118.49	8.154			
17,900.0	11,974.0	19,716.8	11,968.4	59.1	62.6	89.67	-5,357.4	-932.5	964.9	844.4	120.56	8.004			
18,000.0	11,974.0	19,802.9	11,967.5	60.0	63.2	89.61	-5,443.5	-931.0	963.7	841.6	122.10	7.893			
18,011.3	11,974.0	19,810.0	11,967.3	60.1	63.3	89.60	-5,450.6	-930.9	963.7	841.5	122.25	7.883			
18,100.0	11,974.0	19,869.1	11,965.3	60.9	63.8	89.48	-5,509.7	-931.3	965.0	841.6	123.41	7.819			
18,200.0	11,974.0	19,978.6	11,960.9	61.9	64.6	89.22	-5,619.0	-934.6	968.7	843.5	125.18	7.738			
18,300.0	11,974.0	20,106.2	11,962.2	62.8	65.5	89.30	-5,746.6	-934.2	968.9	841.8	127.11	7.623			
18,392.2	11,974.0	20,191.1	11,964.1	63.7	66.2	89.41	-5,831.5	-933.3	968.5	839.9	128.57	7.532			
18,400.0	11,974.0	20,197.8	11,964.2	63.7	66.2	89.42	-5,838.2	-933.2	968.5	839.8	128.69	7.525			
18,500.0	11,974.0	20,283.8	11,964.8	64.7	66.9	89.46	-5,924.1	-933.4	969.4	839.1	130.22	7.444			
18,600.0	11,974.0	20,353.0	11,964.6	65.6	67.4	89.45	-5,993.3	-934.4	971.8	840.3	131.49	7.390			
18,700.0	11,974.0	20,443.0	11,963.0	66.5	68.1	89.35	-6,083.2	-938.2	976.6	843.6	133.01	7.342			
18,800.0	11,974.0	20,578.9	11,966.0	67.5	69.1	89.53	-6,218.9	-944.6	982.5	847.3	135.15	7.269			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 20 FED COM PROJECT - ZIA HILLS 20 FEDERAL COM #115H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 11102-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error: 3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis Reference (usft) / Offset (usft)		Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft) / +E/-W (usft)		Distance Between Centres (usft) / Between Ellipses (usft)		No-Go Distance (usft)	Separation Factor	Warning
18,900.0	11,974.0	20,748.1	11,976.4	68.4	70.4	90.14	-6,387.6	-939.2	979.0	841.7	137.35	7.128	
19,000.0	11,974.0	20,844.2	11,975.6	69.3	71.2	90.09	-6,483.6	-934.3	974.6	835.6	139.00	7.012	
19,100.0	11,974.0	21,002.3	11,980.9	70.3	72.4	90.41	-6,641.1	-922.4	968.1	827.4	140.68	6.881	
19,200.0	11,974.0	21,082.5	11,982.1	71.2	73.0	90.49	-6,721.0	-914.8	959.1	816.7	142.41	6.735	
19,300.0	11,974.0	21,185.1	11,984.9	72.1	73.8	90.66	-6,823.1	-905.1	950.2	806.2	144.08	6.595	
19,400.0	11,974.0	21,272.5	11,985.8	73.1	74.4	90.72	-6,910.1	-897.4	942.1	796.3	145.77	6.463	
19,500.0	11,974.0	21,363.0	11,984.6	74.0	75.1	90.65	-7,000.4	-890.6	935.1	787.7	147.44	6.342	
19,600.0	11,974.0	21,460.0	11,982.8	75.0	75.9	90.55	-7,097.0	-883.6	928.5	779.4	149.11	6.227	
19,658.0	11,974.0	21,460.0	11,982.8	75.5	75.9	90.55	-7,097.0	-883.6	926.7	776.9	149.77	6.187	
19,658.5	11,974.0	21,460.0	11,982.8	75.5	75.9	90.55	-7,097.0	-883.6	926.7	776.9	149.78	6.187 ES, SF	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 2032 PROJECT (S TO N) - BUCK 20 FEDERAL #1H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-GYD-CT-CMS, 8329-MWD - OWSG R1											Rule Assigned:		Offset Well Error: 3.0 usft
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,100.0	9,045.8	13,905.0	9,249.3	26.8	85.0	-87.82	780.2	-971.0	986.9	868.0	118.90	8.300	
9,200.0	9,145.8	13,905.0	9,249.3	26.9	85.0	-87.82	780.2	-971.0	971.2	850.9	120.32	8.072	
9,300.0	9,245.8	13,905.0	9,249.3	26.9	85.0	-87.82	780.2	-971.0	965.7	844.9	120.85	7.991	
9,304.4	9,250.3	13,905.0	9,249.3	26.9	85.0	-87.82	780.2	-971.0	965.7	844.9	120.85	7.991	CC, ES, SF
9,400.0	9,345.8	13,905.0	9,249.3	27.0	85.0	-87.82	780.2	-971.0	970.5	850.1	120.44	8.058	
9,500.0	9,445.8	13,905.0	9,249.3	27.0	85.0	-87.82	780.2	-971.0	985.5	866.4	119.14	8.271	

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWPO													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.6	3.0	3.0	-90.34	-0.1	-20.0	20.0					
100.0	100.0	99.4	100.0	3.1	3.1	-90.34	-0.1	-20.0	20.0	13.4	6.62	3.022		
200.0	200.0	199.4	200.0	3.3	3.3	-90.34	-0.1	-20.0	20.0	12.9	7.07	2.829	Normal Operations	
300.0	300.0	299.4	300.0	3.6	3.6	-90.34	-0.1	-20.0	20.0	12.5	7.50	2.668	Normal Operations	
400.0	400.0	399.4	400.0	3.8	3.8	-90.34	-0.1	-20.0	20.0	12.1	7.90	2.532	Normal Operations	
500.0	500.0	499.4	500.0	4.0	4.0	-90.34	-0.1	-20.0	20.0	11.7	8.29	2.413	Caution - Monitor Closely	
600.0	600.0	599.4	600.0	4.1	4.1	-90.34	-0.1	-20.0	20.0	11.3	8.66	2.310	Caution - Monitor Closely	
700.0	700.0	699.4	700.0	4.3	4.3	-90.34	-0.1	-20.0	20.0	11.0	9.02	2.218	Caution - Monitor Closely	
800.0	800.0	799.4	800.0	4.5	4.5	-90.34	-0.1	-20.0	20.0	10.6	9.36	2.136	Caution - Monitor Closely	
900.0	900.0	899.4	900.0	4.7	4.7	-90.34	-0.1	-20.0	20.0	10.3	9.70	2.062	Caution - Monitor Closely	
1,000.0	1,000.0	999.4	1,000.0	4.8	4.8	-90.34	-0.1	-20.0	20.0	10.0	10.03	1.994	Caution - Monitor Closely	
1,100.0	1,100.0	1,099.4	1,100.0	5.0	5.0	-90.34	-0.1	-20.0	20.0	9.7	10.35	1.933	Caution - Monitor Closely	
1,200.0	1,200.0	1,199.4	1,200.0	5.2	5.2	-90.34	-0.1	-20.0	20.0	9.3	10.66	1.876	Caution - Monitor Closely	
1,300.0	1,300.0	1,299.4	1,300.0	5.3	5.3	-90.34	-0.1	-20.0	20.0	9.0	10.97	1.824	Caution - Monitor Closely	
1,400.0	1,400.0	1,399.4	1,400.0	5.5	5.5	-90.34	-0.1	-20.0	20.0	8.7	11.27	1.775	Caution - Monitor Closely	
1,500.0	1,500.0	1,499.4	1,500.0	5.6	5.6	-90.34	-0.1	-20.0	20.0	8.4	11.56	1.730	Caution - Monitor Closely	
1,600.0	1,600.0	1,599.4	1,600.0	5.8	5.8	-90.34	-0.1	-20.0	20.0	8.2	11.85	1.688	Caution - Monitor Closely	
1,700.0	1,700.0	1,699.4	1,700.0	5.9	5.9	-90.34	-0.1	-20.0	20.0	7.9	12.13	1.649	Caution - Monitor Closely	
1,800.0	1,800.0	1,799.4	1,800.0	6.0	6.0	-90.34	-0.1	-20.0	20.0	7.6	12.41	1.612	Caution - Monitor Closely	
1,900.0	1,900.0	1,899.4	1,900.0	6.2	6.2	-90.34	-0.1	-20.0	20.0	7.3	12.68	1.577	Caution - Monitor Closely	
2,000.0	2,000.0	1,999.4	2,000.0	6.3	6.3	-90.34	-0.1	-20.0	20.0	7.0	12.95	1.544	Caution - Monitor Closely, CC, ES, SF	
2,100.0	2,100.0	2,099.4	2,099.6	6.5	6.5	-90.75	1.3	-21.0	21.0	7.7	13.24	1.584	Caution - Monitor Closely	
2,200.0	2,199.8	2,198.5	2,199.0	6.8	6.8	-92.86	5.5	-23.9	23.9	10.4	13.51	1.771	Caution - Monitor Closely	
2,300.0	2,299.5	2,297.9	2,298.0	7.0	7.0	-95.36	12.6	-28.8	28.9	15.1	13.78	2.098	Caution - Monitor Closely	
2,400.0	2,398.7	2,397.2	2,396.5	7.2	7.2	-97.65	22.5	-35.7	35.9	21.9	14.04	2.558	Normal Operations	
2,436.2	2,434.5	2,433.1	2,432.0	7.3	7.3	-98.38	26.7	-38.6	39.0	24.9	14.11	2.762	Normal Operations	
2,500.0	2,497.6	2,496.2	2,494.3	7.4	7.5	-98.73	35.1	-44.4	44.9	30.6	14.24	3.151		
2,600.0	2,596.4	2,595.7	2,592.4	7.6	7.8	-98.14	49.2	-54.2	54.6	39.9	14.64	3.728		
2,700.0	2,695.3	2,695.2	2,690.4	7.9	8.1	-97.72	63.2	-63.9	64.3	49.4	14.93	4.307		
2,800.0	2,794.1	2,794.8	2,788.4	8.1	8.3	-97.41	77.3	-73.7	74.0	58.8	15.21	4.864		
2,900.0	2,892.9	2,894.3	2,886.5	8.4	8.6	-97.17	91.3	-83.4	83.7	68.2	15.51	5.399		
3,000.0	2,991.8	2,993.8	2,984.5	8.7	8.9	-96.98	105.4	-93.1	93.4	77.6	15.80	5.911		
3,100.0	3,090.6	3,093.3	3,082.6	9.0	9.2	-96.83	119.4	-102.9	103.1	87.0	16.11	6.403		
3,200.0	3,189.5	3,192.9	3,180.6	9.3	9.5	-96.71	133.5	-112.6	112.9	96.4	16.42	6.873		
3,300.0	3,288.3	3,292.4	3,278.7	9.6	9.8	-96.60	147.5	-122.4	122.6	105.8	16.74	7.324		
3,400.0	3,387.2	3,391.9	3,376.7	10.0	10.1	-96.51	161.6	-132.1	132.3	115.2	17.06	7.756		
3,500.0	3,486.0	3,491.4	3,474.8	10.3	10.5	-96.43	175.6	-141.9	142.0	124.6	17.38	8.170		
3,600.0	3,584.8	3,591.0	3,572.8	10.7	10.8	-96.36	189.7	-151.6	151.7	134.0	17.71	8.567		
3,700.0	3,683.7	3,690.5	3,670.9	11.0	11.2	-96.30	203.7	-161.4	161.4	143.4	18.04	8.947		
3,800.0	3,782.5	3,790.0	3,768.9	11.4	11.6	-96.25	217.8	-171.1	171.2	152.8	18.38	9.312		
3,900.0	3,881.4	3,889.6	3,867.0	11.7	11.9	-96.20	231.8	-180.8	180.9	162.2	18.72	9.661		
4,000.0	3,980.2	3,989.1	3,965.0	12.1	12.3	-96.16	245.9	-190.6	190.6	171.5	19.07	9.996		
4,100.0	4,079.1	4,088.6	4,063.0	12.5	12.7	-96.12	259.9	-200.3	200.3	180.9	19.41	10.318		
4,200.0	4,177.9	4,188.1	4,161.1	12.9	13.1	-96.09	274.0	-210.1	210.0	190.3	19.77	10.626		
4,300.0	4,276.8	4,287.7	4,259.1	13.3	13.5	-96.06	288.0	-219.8	219.8	199.6	20.12	10.922		
4,400.0	4,375.6	4,387.2	4,357.2	13.6	13.9	-96.03	302.1	-229.6	229.5	209.0	20.48	11.207		
4,500.0	4,474.4	4,486.7	4,455.2	14.0	14.2	-96.00	316.1	-239.3	239.2	218.4	20.84	11.480		
4,600.0	4,573.3	4,586.2	4,553.3	14.4	14.6	-95.98	330.2	-249.1	248.9	227.7	21.20	11.742		
4,700.0	4,672.1	4,685.8	4,651.3	14.8	15.1	-95.95	344.3	-258.8	258.6	237.1	21.56	11.995		
4,800.0	4,771.0	4,785.3	4,749.4	15.2	15.5	-95.93	358.3	-268.5	268.3	246.4	21.93	12.238		
4,900.0	4,869.8	4,884.8	4,847.4	15.6	15.9	-95.91	372.4	-278.3	278.1	255.8	22.30	12.471		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWPO														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft	
Reference				Offset			Semi Major Axis			Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)				
5,000.0	4,968.7	4,984.3	4,945.5	16.0	16.3	-95.89	386.4	-288.0	287.8	265.1	22.67	12.696			
5,100.0	5,067.5	5,083.9	5,043.5	16.4	16.7	-95.88	400.5	-297.8	297.5	274.5	23.04	12.913			
5,200.0	5,166.3	5,183.4	5,141.6	16.9	17.1	-95.86	414.5	-307.5	307.2	283.8	23.41	13.121			
5,300.0	5,265.2	5,282.9	5,239.6	17.3	17.5	-95.85	428.6	-317.3	316.9	293.1	23.79	13.322			
5,400.0	5,364.0	5,382.5	5,337.7	17.7	17.9	-95.83	442.6	-327.0	326.7	302.5	24.17	13.516			
5,500.0	5,462.9	5,482.0	5,435.7	18.1	18.4	-95.82	456.7	-336.8	336.4	311.8	24.55	13.703			
5,600.0	5,561.7	5,581.5	5,533.7	18.5	18.8	-95.81	470.7	-346.5	346.1	321.2	24.93	13.884			
5,700.0	5,660.6	5,681.0	5,631.8	18.9	19.2	-95.79	484.8	-356.2	355.8	330.5	25.31	14.058			
5,800.0	5,759.4	5,780.6	5,729.8	19.3	19.6	-95.78	498.8	-366.0	365.5	339.8	25.69	14.226			
5,900.0	5,858.2	5,880.1	5,827.9	19.7	20.1	-95.77	512.9	-375.7	375.3	349.2	26.08	14.389			
6,000.0	5,957.1	5,979.6	5,925.9	20.2	20.5	-95.76	526.9	-385.5	385.0	358.5	26.47	14.546			
6,100.0	6,055.9	6,079.4	6,024.2	20.6	20.9	-95.75	541.0	-395.2	394.7	367.9	26.84	14.707			
6,200.0	6,154.8	6,182.3	6,125.8	21.0	21.3	-95.88	554.7	-404.7	403.9	376.7	27.21	14.844			
6,300.0	6,253.6	6,285.4	6,227.8	21.4	21.8	-96.23	566.9	-413.2	412.3	384.8	27.55	14.964			
6,400.0	6,352.5	6,388.5	6,330.1	21.9	22.2	-96.78	577.5	-420.6	419.9	392.1	27.86	15.071			
6,500.0	6,451.3	6,491.5	6,432.5	22.3	22.6	-97.55	586.7	-426.9	426.7	398.6	28.13	15.168			
6,600.0	6,550.1	6,594.5	6,535.0	22.7	23.0	-98.50	594.3	-432.2	432.9	404.5	28.38	15.254			
6,681.7	6,630.9	6,678.5	6,618.8	23.0	23.3	-99.42	599.4	-435.7	437.4	408.9	28.55	15.323			
6,700.0	6,649.0	6,697.2	6,637.5	23.1	23.4	-99.65	600.4	-436.4	438.4	409.8	28.58	15.339			
6,800.0	6,748.0	6,799.9	6,740.1	23.5	23.7	-100.88	605.0	-439.6	443.1	414.3	28.80	15.385			
6,900.0	6,847.2	6,902.5	6,842.6	23.9	24.0	-102.06	608.1	-441.8	447.0	418.0	29.01	15.407			
7,000.0	6,946.7	7,005.1	6,945.1	24.3	24.3	-103.21	609.7	-442.8	450.0	420.8	29.21	15.403			
7,100.0	7,046.3	7,106.2	7,046.3	24.7	24.4	-104.30	609.9	-443.0	452.2	422.8	29.37	15.396			
7,200.0	7,146.0	7,206.0	7,146.0	25.1	24.4	-105.18	609.9	-443.0	454.0	424.4	29.56	15.358			
7,300.0	7,245.9	7,305.9	7,245.9	25.4	24.5	-105.83	609.9	-443.0	455.4	425.6	29.76	15.303			
7,400.0	7,345.8	7,405.8	7,345.8	25.7	24.5	-106.27	609.9	-443.0	456.4	426.4	29.96	15.235			
7,500.0	7,445.8	7,505.8	7,445.8	26.0	24.6	-106.50	609.9	-443.0	456.9	426.7	30.14	15.157			
7,554.2	7,500.0	7,560.0	7,500.0	26.1	24.6	-106.99	609.9	-443.0	456.9	426.7	30.22	15.121			
7,600.0	7,545.8	7,605.8	7,545.8	26.1	24.6	-106.99	609.9	-443.0	456.9	426.7	30.27	15.094			
7,700.0	7,645.8	7,705.8	7,645.8	26.1	24.7	-106.99	609.9	-443.0	456.9	426.5	30.42	15.020			
7,800.0	7,745.8	7,805.8	7,745.8	26.2	24.7	-106.99	609.9	-443.0	456.9	426.4	30.57	14.947			
7,900.0	7,845.8	7,905.8	7,845.8	26.2	24.8	-106.99	609.9	-443.0	456.9	426.2	30.72	14.874			
8,000.0	7,945.8	8,005.8	7,945.8	26.3	24.8	-106.99	609.9	-443.0	456.9	426.1	30.87	14.802			
8,100.0	8,045.8	8,105.8	8,045.8	26.3	24.9	-106.99	609.9	-443.0	456.9	425.9	31.02	14.731			
8,200.0	8,145.8	8,205.8	8,145.8	26.4	24.9	-106.99	609.9	-443.0	456.9	425.8	31.17	14.660			
8,300.0	8,245.8	8,305.8	8,245.8	26.4	25.0	-106.99	609.9	-443.0	456.9	425.6	31.32	14.590			
8,400.0	8,345.8	8,405.8	8,345.8	26.5	25.0	-106.99	609.9	-443.0	456.9	425.5	31.47	14.520			
8,500.0	8,445.8	8,505.8	8,445.8	26.5	25.0	-106.99	609.9	-443.0	456.9	425.3	31.62	14.451			
8,600.0	8,545.8	8,605.8	8,545.8	26.6	25.1	-106.99	609.9	-443.0	456.9	425.2	31.77	14.383			
8,700.0	8,645.8	8,705.8	8,645.8	26.6	25.1	-106.99	609.9	-443.0	456.9	425.0	31.92	14.315			
8,800.0	8,745.8	8,805.8	8,745.8	26.7	25.2	-106.99	609.9	-443.0	456.9	424.9	32.07	14.248			
8,900.0	8,845.8	8,905.8	8,845.8	26.7	25.2	-106.99	609.9	-443.0	456.9	424.7	32.22	14.181			
9,000.0	8,945.8	9,005.8	8,945.8	26.8	25.3	-106.99	609.9	-443.0	456.9	424.6	32.37	14.115			
9,100.0	9,045.8	9,105.8	9,045.8	26.8	25.3	-106.99	609.9	-443.0	456.9	424.4	32.52	14.050			
9,200.0	9,145.8	9,205.8	9,145.8	26.9	25.4	-106.99	609.9	-443.0	456.9	424.3	32.67	13.985			
9,300.0	9,245.8	9,305.8	9,245.8	26.9	25.4	-106.99	609.9	-443.0	456.9	424.1	32.82	13.921			
9,400.0	9,345.8	9,405.8	9,345.8	27.0	25.5	-106.99	609.9	-443.0	456.9	424.0	32.98	13.857			
9,500.0	9,445.8	9,505.8	9,445.8	27.0	25.5	-106.99	609.9	-443.0	456.9	423.8	33.13	13.794			
9,600.0	9,545.8	9,605.8	9,545.8	27.1	25.6	-106.99	609.9	-443.0	456.9	423.7	33.28	13.731			
9,700.0	9,645.8	9,705.8	9,645.8	27.1	25.6	-106.99	609.9	-443.0	456.9	423.5	33.43	13.669			
9,800.0	9,745.8	9,805.8	9,745.8	27.2	25.7	-106.99	609.9	-443.0	456.9	423.4	33.58	13.607			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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		Semi Major Axis					Offset Wellbore Centre		Distance				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					
9,900.0	9,845.8	9,905.8	9,845.8	27.2	25.8	-106.99	609.9	-443.0	456.9	423.2	33.73	13.546						
10,000.0	9,945.8	10,005.8	9,945.8	27.3	25.8	-106.99	609.9	-443.0	456.9	423.1	33.88	13.486						
10,100.0	10,045.8	10,105.8	10,045.8	27.3	25.9	-106.99	609.9	-443.0	456.9	422.9	34.04	13.425						
10,200.0	10,145.8	10,205.8	10,145.8	27.4	25.9	-106.99	609.9	-443.0	456.9	422.8	34.19	13.366						
10,300.0	10,245.8	10,305.8	10,245.8	27.4	26.0	-106.99	609.9	-443.0	456.9	422.6	34.34	13.307						
10,400.0	10,345.8	10,405.8	10,345.8	27.5	26.0	-106.99	609.9	-443.0	456.9	422.5	34.49	13.248						
10,500.0	10,445.8	10,505.8	10,445.8	27.5	26.1	-106.99	609.9	-443.0	456.9	422.3	34.64	13.190						
10,600.0	10,545.8	10,605.8	10,545.8	27.6	26.1	-106.99	609.9	-443.0	456.9	422.1	34.80	13.132						
10,700.0	10,645.8	10,705.8	10,645.8	27.6	26.2	-106.99	609.9	-443.0	456.9	422.0	34.95	13.075						
10,800.0	10,745.8	10,805.8	10,745.8	27.7	26.2	-106.99	609.9	-443.0	456.9	421.8	35.10	13.018						
10,900.0	10,845.8	10,905.8	10,845.8	27.7	26.3	-106.99	609.9	-443.0	456.9	421.7	35.25	12.962						
11,000.0	10,945.8	11,005.8	10,945.8	27.8	26.3	-106.99	609.9	-443.0	456.9	421.5	35.40	12.906						
11,100.0	11,045.8	11,105.8	11,045.8	27.8	26.4	-106.99	609.9	-443.0	456.9	421.4	35.56	12.851						
11,200.0	11,145.8	11,205.8	11,145.8	27.9	26.4	-106.99	609.9	-443.0	456.9	421.2	35.71	12.796						
11,300.0	11,245.8	11,305.8	11,245.8	27.9	26.5	-106.99	609.9	-443.0	456.9	421.1	35.86	12.742						
11,310.0	11,255.8	11,315.8	11,255.8	27.9	26.5	-106.99	609.9	-443.0	456.9	421.1	35.87	12.738						
11,400.0	11,345.8	11,391.7	11,331.6	28.0	26.4	-107.31	607.2	-443.0	457.9	422.0	35.98	12.729						
11,500.0	11,445.8	11,467.3	11,405.9	28.0	26.2	-108.96	593.3	-442.9	463.7	427.5	36.19	12.814						
11,550.7	11,496.5	11,503.6	11,440.5	28.1	26.0	-110.22	582.5	-442.8	468.9	432.5	36.36	12.897						
11,575.0	11,520.8	11,520.5	11,456.3	28.0	26.0	69.17	576.6	-442.8	471.8	435.3	36.44	12.946						
11,600.0	11,545.7	11,537.7	11,472.3	27.9	25.9	68.23	569.9	-442.8	474.7	438.2	36.52	13.000						
11,625.0	11,570.5	11,554.9	11,487.8	27.9	25.9	67.34	562.8	-442.7	477.6	441.0	36.60	13.051						
11,650.0	11,595.1	11,575.0	11,505.8	27.8	25.8	66.40	553.7	-442.6	480.5	443.8	36.66	13.106						
11,675.0	11,619.4	11,588.9	11,518.0	27.7	25.7	65.70	547.0	-442.6	483.2	446.5	36.77	13.143						
11,700.0	11,643.4	11,605.8	11,532.5	27.6	25.7	64.95	538.4	-442.6	485.9	449.0	36.86	13.183						
11,725.0	11,667.0	11,625.0	11,548.6	27.5	25.6	64.21	527.9	-442.5	488.4	451.5	36.93	13.225						
11,750.0	11,690.1	11,639.3	11,560.3	27.4	25.6	63.63	519.7	-442.4	490.8	453.8	37.05	13.247						
11,775.0	11,712.7	11,656.0	11,573.7	27.3	25.5	63.04	509.7	-442.4	493.1	455.9	37.16	13.271						
11,800.0	11,734.6	11,675.0	11,588.5	27.2	25.5	62.46	497.8	-442.3	495.2	457.9	37.24	13.297						
11,825.0	11,756.0	11,689.2	11,599.2	27.1	25.4	62.03	488.5	-442.2	497.1	459.7	37.38	13.297						
11,850.0	11,776.6	11,705.7	11,611.3	27.0	25.4	61.60	477.3	-442.2	498.8	461.3	37.50	13.300						
11,875.0	11,796.5	11,725.0	11,625.0	26.9	25.3	61.19	463.6	-442.1	500.3	462.8	37.60	13.308						
11,900.0	11,815.5	11,738.6	11,634.3	26.8	25.3	60.90	453.7	-442.0	501.7	463.9	37.77	13.281						
11,925.0	11,833.6	11,755.1	11,645.1	26.7	25.2	60.64	441.4	-441.9	502.8	464.9	37.92	13.259						
11,950.0	11,850.9	11,775.0	11,657.7	26.6	25.2	60.40	425.9	-441.9	503.7	465.7	38.02	13.249						
11,975.0	11,867.1	11,787.9	11,665.5	26.5	25.1	60.26	415.6	-441.8	504.4	466.2	38.24	13.191						
12,000.0	11,882.4	11,800.0	11,672.6	26.4	25.1	60.16	405.8	-441.7	504.9	466.4	38.49	13.118						
12,025.0	11,896.6	11,820.6	11,684.0	26.3	25.1	60.09	388.6	-441.6	505.1	466.5	38.59	13.089						
12,050.0	11,909.7	11,837.0	11,692.5	26.3	25.0	60.08	374.7	-441.5	505.2	466.4	38.78	13.027						
12,075.0	11,921.6	11,850.0	11,699.0	26.2	25.0	60.12	363.4	-441.5	505.0	465.9	39.04	12.935						
12,100.0	11,932.4	11,869.7	11,708.2	26.1	25.0	60.23	345.9	-441.4	504.5	465.4	39.17	12.881						
12,125.0	11,942.0	11,886.1	11,715.2	26.1	24.9	60.38	331.1	-441.3	503.9	464.5	39.37	12.798						
12,150.0	11,950.4	11,900.0	11,720.8	26.1	24.9	60.57	318.4	-441.2	503.0	463.4	39.63	12.692						
12,175.0	11,957.5	11,918.9	11,727.9	26.0	24.9	60.84	300.9	-441.1	501.9	462.1	39.79	12.616						
12,200.0	11,963.4	11,935.4	11,733.4	26.0	24.9	61.15	285.4	-441.0	500.6	460.6	39.99	12.518						
12,225.0	11,968.0	11,950.0	11,737.9	26.0	24.9	61.49	271.4	-440.9	499.2	458.9	40.24	12.404						
12,250.0	11,971.3	11,968.4	11,742.9	25.9	24.8	61.93	253.8	-440.8	497.5	457.1	40.40	12.313						
12,275.0	11,973.3	11,984.9	11,746.8	25.9	24.8	62.40	237.7	-440.7	495.6	455.0	40.60	12.208						
12,300.0	11,974.0	12,000.0	11,749.9	25.9	24.8	62.89	222.9	-440.6	493.5	452.7	40.82	12.091						
12,300.7	11,974.0	12,000.0	11,749.9	25.9	24.8	62.90	222.9	-440.6	493.5	452.6	40.83	12.085						
12,400.0	11,974.0	12,069.4	11,758.1	25.9	24.8	63.75	154.1	-440.2	488.3	446.6	41.69	11.712						

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWPO														Offset Site Error:	0.0 usft
Survey Program: Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	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)					
12,434.4	11,974.0	12,094.0	11,758.6	25.9	24.8	63.80	129.4	-440.0	488.0	445.9	42.07	11.598			
12,500.0	11,974.0	12,159.6	11,758.6	25.9	24.9	63.80	63.9	-439.6	488.0	445.5	42.43	11.501			
12,600.0	11,974.0	12,259.6	11,758.6	25.9	25.0	63.80	-36.1	-439.0	488.0	444.9	43.03	11.339			
12,700.0	11,974.0	12,359.6	11,758.6	25.9	25.1	63.80	-136.1	-438.3	488.0	444.3	43.71	11.165			
12,800.0	11,974.0	12,459.6	11,758.6	26.0	25.2	63.80	-236.1	-437.7	488.0	443.5	44.45	10.979			
12,900.0	11,974.0	12,559.6	11,758.6	26.0	25.3	63.81	-336.1	-437.1	488.0	442.7	45.25	10.784			
13,000.0	11,974.0	12,659.6	11,758.6	26.0	25.5	63.81	-436.1	-436.5	488.0	441.9	46.11	10.582			
13,100.0	11,974.0	12,759.6	11,758.6	26.0	25.6	63.81	-536.1	-435.8	488.0	440.9	47.03	10.375			
13,200.0	11,974.0	12,859.6	11,758.6	26.0	25.8	63.81	-636.1	-435.2	488.0	440.0	48.00	10.165			
13,300.0	11,974.0	12,959.6	11,758.6	26.0	26.1	63.81	-736.1	-434.6	488.0	438.9	49.03	9.953			
13,400.0	11,974.0	13,059.6	11,758.6	26.0	26.4	63.81	-836.1	-434.0	488.0	437.9	50.10	9.741			
13,500.0	11,974.0	13,159.6	11,758.6	26.1	26.6	63.81	-936.1	-433.4	488.0	436.8	51.21	9.529			
13,600.0	11,974.0	13,259.6	11,758.6	26.1	27.0	63.81	-1,036.1	-432.7	488.0	435.6	52.36	9.319			
13,700.0	11,974.0	13,359.6	11,758.6	26.1	27.3	63.81	-1,136.1	-432.1	488.0	434.4	53.56	9.111			
13,800.0	11,974.0	13,459.6	11,758.6	26.1	27.7	63.81	-1,236.1	-431.5	488.0	433.2	54.79	8.907			
13,900.0	11,974.0	13,559.6	11,758.6	26.2	28.2	63.81	-1,336.1	-430.9	488.0	431.9	56.05	8.706			
14,000.0	11,974.0	13,659.6	11,758.6	26.2	28.6	63.81	-1,436.1	-430.2	488.0	430.6	57.34	8.510			
14,100.0	11,974.0	13,759.6	11,758.6	26.2	29.1	63.81	-1,536.1	-429.6	488.0	429.3	58.67	8.318			
14,200.0	11,974.0	13,859.6	11,758.6	26.8	29.7	63.81	-1,636.1	-429.0	488.0	428.0	60.02	8.131			
14,300.0	11,974.0	13,959.6	11,758.6	27.6	30.2	63.81	-1,736.1	-428.4	488.0	426.6	61.39	7.949			
14,400.0	11,974.0	14,059.6	11,758.6	28.4	30.8	63.81	-1,836.1	-427.7	488.0	425.2	62.79	7.772			
14,500.0	11,974.0	14,159.6	11,758.6	29.1	31.4	63.81	-1,936.1	-427.1	488.0	423.8	64.21	7.600			
14,600.0	11,974.0	14,259.6	11,758.6	29.9	32.1	63.81	-2,036.1	-426.5	488.0	422.3	65.66	7.433			
14,700.0	11,974.0	14,359.6	11,758.6	30.8	32.7	63.81	-2,136.1	-425.9	488.0	420.9	67.12	7.271			
14,800.0	11,974.0	14,459.6	11,758.6	31.6	33.4	63.81	-2,236.1	-425.2	488.0	419.4	68.60	7.114			
14,900.0	11,974.0	14,559.6	11,758.6	32.4	34.1	63.81	-2,336.1	-424.6	488.0	417.9	70.09	6.962			
15,000.0	11,974.0	14,659.6	11,758.6	33.2	34.8	63.81	-2,436.1	-424.0	488.0	416.4	71.61	6.815			
15,100.0	11,974.0	14,759.6	11,758.6	34.1	35.6	63.81	-2,536.1	-423.4	488.0	414.9	73.14	6.673			
15,200.0	11,974.0	14,859.6	11,758.6	34.9	36.3	63.81	-2,636.1	-422.7	488.0	413.3	74.68	6.535			
15,300.0	11,974.0	14,959.6	11,758.6	35.8	37.1	63.81	-2,736.1	-422.1	488.0	411.8	76.23	6.402			
15,400.0	11,974.0	15,059.6	11,758.6	36.6	37.9	63.81	-2,836.1	-421.5	488.0	410.2	77.80	6.273			
15,500.0	11,974.0	15,159.6	11,758.6	37.5	38.6	63.81	-2,936.1	-420.9	488.0	408.6	79.38	6.148			
15,600.0	11,974.0	15,259.6	11,758.6	38.3	39.4	63.81	-3,036.0	-420.2	488.0	407.1	80.97	6.027			
15,700.0	11,974.0	15,359.6	11,758.6	39.2	40.2	63.81	-3,136.0	-419.6	488.0	405.5	82.57	5.911			
15,800.0	11,974.0	15,459.6	11,758.6	40.1	41.0	63.81	-3,236.0	-419.0	488.0	403.8	84.18	5.797			
15,900.0	11,974.0	15,559.6	11,758.6	41.0	41.8	63.81	-3,336.0	-418.4	488.0	402.2	85.80	5.688			
16,000.0	11,974.0	15,659.6	11,758.6	41.8	42.7	63.81	-3,436.0	-417.7	488.0	400.6	87.43	5.582			
16,100.0	11,974.0	15,759.6	11,758.6	42.7	43.5	63.81	-3,536.0	-417.1	488.0	399.0	89.06	5.480			
16,200.0	11,974.0	15,859.6	11,758.6	43.6	44.3	63.81	-3,636.0	-416.5	488.0	397.3	90.70	5.380			
16,300.0	11,974.0	15,959.6	11,758.6	44.5	45.2	63.81	-3,736.0	-415.9	488.0	395.7	92.36	5.284			
16,400.0	11,974.0	16,059.6	11,758.6	45.4	46.0	63.81	-3,836.0	-415.2	488.0	394.0	94.01	5.191			
16,500.0	11,974.0	16,159.6	11,758.6	46.3	46.9	63.81	-3,936.0	-414.6	488.0	392.4	95.68	5.101			
16,600.0	11,974.0	16,259.6	11,758.6	47.2	47.7	63.81	-4,036.0	-414.0	488.0	390.7	97.35	5.013			
16,700.0	11,974.0	16,359.6	11,758.6	48.1	48.6	63.81	-4,136.0	-413.4	488.0	389.0	99.03	4.928			
16,800.0	11,974.0	16,459.6	11,758.6	49.0	49.5	63.81	-4,236.0	-412.8	488.0	387.3	100.71	4.846			
16,900.0	11,974.0	16,559.6	11,758.6	49.9	50.3	63.81	-4,336.0	-412.1	488.0	385.7	102.39	4.766			
17,000.0	11,974.0	16,659.6	11,758.6	50.8	51.2	63.81	-4,436.0	-411.5	488.0	384.0	104.09	4.689			
17,100.0	11,974.0	16,759.6	11,758.6	51.7	52.1	63.81	-4,536.0	-410.9	488.1	382.3	105.78	4.614			
17,200.0	11,974.0	16,859.6	11,758.6	52.7	53.0	63.81	-4,636.0	-410.3	488.1	380.6	107.49	4.541			
17,300.0	11,974.0	16,959.6	11,758.6	53.6	53.9	63.81	-4,736.0	-409.6	488.1	378.9	109.19	4.470			
17,400.0	11,974.0	17,059.6	11,758.6	54.5	54.8	63.81	-4,836.0	-409.0	488.1	377.2	110.90	4.401			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWPO													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference	Vertical Reference	Measured Offset	Vertical Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,500.0	11,974.0	17,159.6	11,758.6	55.4	55.6	63.81	-4,936.0	-408.4	488.1	375.4	112.62	4.334		
17,600.0	11,974.0	17,259.6	11,758.6	56.3	56.5	63.81	-5,036.0	-407.8	488.1	373.7	114.34	4.269		
17,700.0	11,974.0	17,359.6	11,758.6	57.2	57.4	63.81	-5,136.0	-407.1	488.1	372.0	116.06	4.205		
17,800.0	11,974.0	17,459.6	11,758.6	58.2	58.3	63.81	-5,236.0	-406.5	488.1	370.3	117.78	4.144		
17,900.0	11,974.0	17,559.6	11,758.6	59.1	59.2	63.81	-5,336.0	-405.9	488.1	368.6	119.51	4.084		
18,000.0	11,974.0	17,659.6	11,758.6	60.0	60.1	63.81	-5,436.0	-405.3	488.1	366.8	121.24	4.025		
18,100.0	11,974.0	17,759.6	11,758.6	60.9	61.0	63.81	-5,536.0	-404.6	488.1	365.1	122.98	3.969		
18,200.0	11,974.0	17,859.6	11,758.6	61.9	61.9	63.81	-5,636.0	-404.0	488.1	363.4	124.72	3.913		
18,300.0	11,974.0	17,959.6	11,758.6	62.8	62.9	63.81	-5,736.0	-403.4	488.1	361.6	126.46	3.860		
18,400.0	11,974.0	18,059.6	11,758.6	63.7	63.8	63.81	-5,836.0	-402.8	488.1	359.9	128.20	3.807		
18,500.0	11,974.0	18,159.6	11,758.6	64.7	64.7	63.81	-5,936.0	-402.1	488.1	358.1	129.95	3.756		
18,600.0	11,974.0	18,259.6	11,758.6	65.6	65.6	63.81	-6,036.0	-401.5	488.1	356.4	131.70	3.706		
18,700.0	11,974.0	18,359.6	11,758.6	66.5	66.5	63.81	-6,136.0	-400.9	488.1	354.6	133.45	3.657		
18,800.0	11,974.0	18,459.6	11,758.6	67.5	67.4	63.81	-6,236.0	-400.3	488.1	352.9	135.20	3.610		
18,900.0	11,974.0	18,559.6	11,758.6	68.4	68.3	63.81	-6,336.0	-399.6	488.1	351.1	136.96	3.564		
19,000.0	11,974.0	18,659.6	11,758.6	69.3	69.3	63.81	-6,436.0	-399.0	488.1	349.4	138.71	3.519		
19,100.0	11,974.0	18,759.6	11,758.6	70.3	70.2	63.81	-6,536.0	-398.4	488.1	347.6	140.47	3.475		
19,200.0	11,974.0	18,859.6	11,758.6	71.2	71.1	63.81	-6,636.0	-397.8	488.1	345.9	142.23	3.432		
19,300.0	11,974.0	18,959.6	11,758.6	72.1	72.0	63.81	-6,736.0	-397.1	488.1	344.1	144.00	3.390		
19,400.0	11,974.0	19,059.6	11,758.6	73.1	72.9	63.81	-6,836.0	-396.5	488.1	342.3	145.76	3.349		
19,500.0	11,974.0	19,159.6	11,758.6	74.0	73.9	63.81	-6,936.0	-395.9	488.1	340.6	147.53	3.308		
19,600.0	11,974.0	19,259.6	11,758.6	75.0	74.8	63.81	-7,036.0	-395.3	488.1	338.8	149.30	3.269		
19,658.5	11,974.0	19,318.1	11,758.6	75.5	75.3	63.81	-7,094.4	-394.9	488.1	337.8	150.33	3.247		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWPO													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.3	3.0	3.0	89.66	0.1	20.0	20.0					
100.0	100.0	99.7	100.0	3.1	3.1	89.66	0.1	20.0	20.0	13.4	6.62	3.021		
200.0	200.0	199.7	200.0	3.3	3.3	89.66	0.1	20.0	20.0	12.9	7.07	2.829	Normal Operations	
300.0	300.0	299.7	300.0	3.6	3.6	89.66	0.1	20.0	20.0	12.5	7.50	2.668	Normal Operations	
400.0	400.0	399.7	400.0	3.8	3.8	89.66	0.1	20.0	20.0	12.1	7.90	2.531	Normal Operations	
500.0	500.0	499.7	500.0	4.0	4.0	89.66	0.1	20.0	20.0	11.7	8.29	2.413	Caution - Monitor Closely	
600.0	600.0	599.7	600.0	4.1	4.1	89.66	0.1	20.0	20.0	11.3	8.66	2.310	Caution - Monitor Closely	
700.0	700.0	699.7	700.0	4.3	4.3	89.66	0.1	20.0	20.0	11.0	9.02	2.218	Caution - Monitor Closely	
800.0	800.0	799.7	800.0	4.5	4.5	89.66	0.1	20.0	20.0	10.6	9.37	2.136	Caution - Monitor Closely	
900.0	900.0	899.7	900.0	4.7	4.7	89.66	0.1	20.0	20.0	10.3	9.70	2.061	Caution - Monitor Closely	
1,000.0	1,000.0	999.7	1,000.0	4.8	4.8	89.66	0.1	20.0	20.0	10.0	10.03	1.994	Caution - Monitor Closely	
1,100.0	1,100.0	1,099.7	1,100.0	5.0	5.0	89.66	0.1	20.0	20.0	9.7	10.35	1.932	Caution - Monitor Closely	
1,200.0	1,200.0	1,199.7	1,200.0	5.2	5.2	89.66	0.1	20.0	20.0	9.3	10.66	1.876	Caution - Monitor Closely	
1,300.0	1,300.0	1,299.7	1,300.0	5.3	5.3	89.66	0.1	20.0	20.0	9.0	10.97	1.824	Caution - Monitor Closely	
1,400.0	1,400.0	1,399.7	1,400.0	5.5	5.5	89.66	0.1	20.0	20.0	8.7	11.27	1.775	Caution - Monitor Closely	
1,500.0	1,500.0	1,499.7	1,500.0	5.6	5.6	89.66	0.1	20.0	20.0	8.4	11.56	1.730	Caution - Monitor Closely	
1,600.0	1,600.0	1,599.7	1,600.0	5.8	5.8	89.66	0.1	20.0	20.0	8.2	11.85	1.688	Caution - Monitor Closely	
1,700.0	1,700.0	1,699.7	1,700.0	5.9	5.9	89.66	0.1	20.0	20.0	7.9	12.13	1.649	Caution - Monitor Closely	
1,800.0	1,800.0	1,799.7	1,800.0	6.0	6.0	89.66	0.1	20.0	20.0	7.6	12.41	1.612	Caution - Monitor Closely	
1,900.0	1,900.0	1,899.7	1,900.0	6.2	6.2	89.66	0.1	20.0	20.0	7.3	12.68	1.577	Caution - Monitor Closely	
2,000.0	2,000.0	1,999.7	2,000.0	6.3	6.3	89.66	0.1	20.0	20.0	7.0	12.95	1.544	Caution - Monitor Closely, CC	
2,004.4	2,004.4	2,004.1	2,004.4	6.3	6.3	90.13	0.1	20.0	20.0	7.0	12.96	1.543	Caution - Monitor Closely	
2,100.0	2,100.0	2,099.7	2,100.0	6.5	6.5	95.10	0.1	20.0	20.1	6.9	13.22	1.519	Caution - Monitor Closely, ES, SF	
2,200.0	2,199.8	2,199.3	2,199.6	6.8	6.7	104.85	1.6	20.9	21.7	8.2	13.50	1.607	Caution - Monitor Closely	
2,300.0	2,299.5	2,299.0	2,299.1	7.0	6.9	112.55	5.9	23.8	25.8	12.1	13.78	1.876	Caution - Monitor Closely	
2,400.0	2,398.7	2,398.6	2,398.3	7.2	7.1	117.33	13.1	28.5	32.3	18.2	14.07	2.297	Caution - Monitor Closely	
2,436.2	2,434.5	2,434.7	2,434.2	7.3	7.2	118.44	16.5	30.7	35.2	21.0	14.15	2.487	Caution - Monitor Closely	
2,500.0	2,497.6	2,498.1	2,497.2	7.4	7.4	119.01	23.2	35.1	40.5	26.2	14.29	2.837	Normal Operations	
2,600.0	2,596.4	2,597.6	2,595.4	7.6	7.6	116.35	36.2	43.6	49.2	34.7	14.55	3.383		
2,700.0	2,695.3	2,696.7	2,692.7	7.9	7.9	111.16	51.9	53.9	58.6	43.8	14.79	3.961		
2,800.0	2,794.1	2,795.3	2,788.8	8.1	8.2	104.72	70.3	66.0	69.3	54.3	15.04	4.608		
2,900.0	2,892.9	2,893.3	2,883.5	8.4	8.5	97.93	91.4	79.8	82.1	66.8	15.29	5.367		
3,000.0	2,991.8	2,991.9	2,978.6	8.7	8.7	92.41	113.4	94.2	96.2	80.6	15.64	6.152		
3,100.0	3,090.6	3,090.6	3,073.7	9.0	9.0	88.33	135.3	108.6	111.0	95.0	16.03	6.926		
3,200.0	3,189.5	3,189.2	3,168.7	9.3	9.4	85.21	157.3	123.0	126.2	109.8	16.45	7.674		
3,300.0	3,288.3	3,287.8	3,263.8	9.6	9.7	82.77	179.3	137.4	141.7	124.8	16.89	8.390		
3,400.0	3,387.2	3,386.5	3,358.8	10.0	10.0	80.81	201.3	151.8	157.4	140.1	17.36	9.070		
3,500.0	3,486.0	3,485.1	3,453.9	10.3	10.4	79.21	223.3	166.2	173.3	155.4	17.84	9.713		
3,600.0	3,584.8	3,583.7	3,549.0	10.7	10.8	77.87	245.3	180.7	189.2	170.9	18.34	10.318		
3,700.0	3,683.7	3,682.4	3,644.0	11.0	11.1	76.75	267.3	195.1	205.3	186.4	18.86	10.887		
3,800.0	3,782.5	3,781.0	3,739.1	11.4	11.5	75.79	289.3	209.5	221.4	202.0	19.38	11.422		
3,900.0	3,881.4	3,879.6	3,834.1	11.7	11.9	74.95	311.3	223.9	237.6	217.6	19.93	11.923		
4,000.0	3,980.2	3,978.2	3,929.2	12.1	12.3	74.23	333.3	238.3	253.8	233.3	20.48	12.393		
4,100.0	4,079.1	4,076.9	4,024.2	12.5	12.7	73.59	355.3	252.7	270.0	249.0	21.04	12.834		
4,200.0	4,177.9	4,175.5	4,119.3	12.9	13.1	73.02	377.3	267.1	286.3	264.7	21.61	13.247		
4,300.0	4,276.8	4,274.1	4,214.4	13.3	13.5	72.52	399.3	281.5	302.6	280.4	22.19	13.635		
4,400.0	4,375.6	4,372.8	4,309.4	13.6	14.0	72.06	421.3	295.9	318.9	296.1	22.78	13.999		
4,500.0	4,474.4	4,471.4	4,404.5	14.0	14.4	71.65	443.3	310.4	335.2	311.9	23.38	14.341		
4,600.0	4,573.3	4,570.0	4,499.5	14.4	14.8	71.28	465.3	324.8	351.6	327.6	23.98	14.663		
4,700.0	4,672.1	4,668.7	4,594.6	14.8	15.3	70.94	487.3	339.2	368.0	343.4	24.59	14.965		
4,800.0	4,771.0	4,767.3	4,689.7	15.2	15.7	70.63	509.3	353.6	384.3	359.1	25.20	15.250		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWPO														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		Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)				
4,900.0	4,869.8	4,865.9	4,784.7	15.6	16.2	70.35	531.3	368.0	400.7	374.9	25.82	15.518					
5,000.0	4,968.7	4,965.0	4,880.2	16.0	16.6	70.09	553.4	382.5	417.1	390.7	26.43	15.780					
5,100.0	5,067.5	5,070.0	4,981.7	16.4	17.1	69.92	575.9	397.2	432.7	405.6	27.08	15.975					
5,200.0	5,166.3	5,175.5	5,084.1	16.9	17.5	69.91	597.0	411.0	446.8	419.1	27.72	16.121					
5,300.0	5,265.2	5,281.4	5,187.4	17.3	18.0	70.05	616.5	423.8	459.5	431.1	28.31	16.229					
5,400.0	5,364.0	5,387.6	5,291.5	17.7	18.5	70.33	634.5	435.6	470.6	441.8	28.86	16.305					
5,500.0	5,462.9	5,494.1	5,396.1	18.1	18.9	70.74	650.9	446.4	480.4	451.0	29.38	16.353					
5,600.0	5,561.7	5,600.8	5,501.3	18.5	19.4	71.27	665.8	456.1	488.7	458.8	29.84	16.377					
5,700.0	5,660.6	5,707.6	5,607.0	18.9	19.8	71.93	679.0	464.8	495.6	465.3	30.25	16.381					
5,800.0	5,759.4	5,814.5	5,713.0	19.3	20.3	72.72	690.5	472.3	501.1	470.4	30.61	16.370					
5,900.0	5,858.2	5,921.3	5,819.1	19.7	20.7	73.63	700.4	478.8	505.2	474.3	30.91	16.346					
6,000.0	5,957.1	6,028.1	5,925.4	20.2	21.1	74.67	708.6	484.2	508.1	477.0	31.14	16.315					
6,100.0	6,055.9	6,134.6	6,031.7	20.6	21.5	75.85	715.2	488.5	509.7	478.4	31.31	16.279					
6,200.0	6,154.8	6,240.9	6,137.8	21.0	21.8	77.17	720.1	491.7	510.2	478.8	31.41	16.245					
6,300.0	6,253.6	6,346.9	6,243.8	21.4	22.2	78.63	723.3	493.8	509.7	478.2	31.43	16.217					
6,400.0	6,352.5	6,452.5	6,349.3	21.9	22.4	80.26	724.9	494.9	508.1	476.8	31.34	16.215					
6,500.0	6,451.3	6,554.5	6,451.3	22.3	22.5	81.96	725.1	495.0	505.9	474.8	31.15	16.243					
6,600.0	6,550.1	6,653.3	6,550.1	22.7	22.5	83.65	725.1	495.0	504.0	473.1	30.94	16.287					
6,681.7	6,630.9	6,734.1	6,630.9	23.0	22.6	85.04	725.1	495.0	502.8	472.0	30.78	16.333					
6,700.0	6,649.0	6,752.2	6,649.0	23.1	22.6	85.35	725.1	495.0	502.5	471.8	30.74	16.346					
6,800.0	6,748.0	6,851.2	6,748.0	23.5	22.6	86.91	725.1	495.0	501.6	471.0	30.61	16.386					
6,900.0	6,847.2	6,950.4	6,847.2	23.9	22.7	88.30	725.1	495.0	501.1	470.5	30.52	16.417					
7,000.0	6,946.7	7,049.9	6,946.7	24.3	22.7	89.49	725.1	495.0	500.9	470.4	30.48	16.433					
7,048.2	6,994.7	7,097.9	6,994.7	24.5	22.8	90.00	725.1	495.0	500.8	470.4	30.47	16.435					
7,100.0	7,046.3	7,149.5	7,046.3	24.7	22.8	90.49	725.1	495.0	500.9	470.4	30.48	16.433					
7,200.0	7,146.0	7,249.2	7,146.0	25.1	22.8	91.30	725.1	495.0	501.0	470.4	30.52	16.416					
7,300.0	7,245.9	7,349.1	7,245.9	25.4	22.9	91.91	725.1	495.0	501.1	470.5	30.59	16.382					
7,400.0	7,345.8	7,449.0	7,345.8	25.7	22.9	92.31	725.1	495.0	501.2	470.6	30.69	16.334					
7,500.0	7,445.8	7,549.0	7,445.8	26.0	23.0	92.52	725.1	495.0	501.3	470.5	30.81	16.272					
7,554.2	7,500.0	7,603.2	7,500.0	26.1	23.0	92.09	725.1	495.0	501.3	470.5	30.87	16.240					
7,600.0	7,545.8	7,649.0	7,545.8	26.1	23.0	92.09	725.1	495.0	501.3	470.4	30.92	16.213					
7,700.0	7,645.8	7,749.0	7,645.8	26.1	23.1	92.09	725.1	495.0	501.3	470.3	31.07	16.137					
7,800.0	7,745.8	7,849.0	7,745.8	26.2	23.1	92.09	725.1	495.0	501.3	470.1	31.21	16.063					
7,900.0	7,845.8	7,949.0	7,845.8	26.2	23.2	92.09	725.1	495.0	501.3	470.0	31.36	15.989					
8,000.0	7,945.8	8,049.0	7,945.8	26.3	23.3	92.09	725.1	495.0	501.3	469.8	31.50	15.915					
8,100.0	8,045.8	8,149.0	8,045.8	26.3	23.3	92.09	725.1	495.0	501.3	469.7	31.65	15.842					
8,200.0	8,145.8	8,249.0	8,145.8	26.4	23.4	92.09	725.1	495.0	501.3	469.5	31.79	15.770					
8,300.0	8,245.8	8,349.0	8,245.8	26.4	23.4	92.09	725.1	495.0	501.3	469.4	31.94	15.698					
8,400.0	8,345.8	8,449.0	8,345.8	26.5	23.5	92.09	725.1	495.0	501.3	469.3	32.08	15.627					
8,500.0	8,445.8	8,549.0	8,445.8	26.5	23.5	92.09	725.1	495.0	501.3	469.1	32.23	15.556					
8,600.0	8,545.8	8,649.0	8,545.8	26.6	23.6	92.09	725.1	495.0	501.3	469.0	32.37	15.486					
8,700.0	8,645.8	8,749.0	8,645.8	26.6	23.6	92.09	725.1	495.0	501.3	468.8	32.52	15.417					
8,800.0	8,745.8	8,849.0	8,745.8	26.7	23.7	92.09	725.1	495.0	501.3	468.7	32.66	15.348					
8,900.0	8,845.8	8,949.0	8,845.8	26.7	23.7	92.09	725.1	495.0	501.3	468.5	32.81	15.280					
9,000.0	8,945.8	9,049.0	8,945.8	26.8	23.8	92.09	725.1	495.0	501.3	468.4	32.96	15.212					
9,100.0	9,045.8	9,149.0	9,045.8	26.8	23.8	92.09	725.1	495.0	501.3	468.2	33.10	15.144					
9,200.0	9,145.8	9,249.0	9,145.8	26.9	23.9	92.09	725.1	495.0	501.3	468.1	33.25	15.078					
9,300.0	9,245.8	9,349.0	9,245.8	26.9	23.9	92.09	725.1	495.0	501.3	467.9	33.40	15.011					
9,400.0	9,345.8	9,449.0	9,345.8	27.0	24.0	92.09	725.1	495.0	501.3	467.8	33.54	14.946					
9,500.0	9,445.8	9,549.0	9,445.8	27.0	24.0	92.09	725.1	495.0	501.3	467.6	33.69	14.881					
9,600.0	9,545.8	9,649.0	9,545.8	27.1	24.1	92.09	725.1	495.0	501.3	467.5	33.84	14.816					

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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		Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
9,700.0	9,645.8	9,749.0	9,645.8	27.1	24.2	92.09	92.09	725.1	495.0	501.3	467.3	33.98	14.752		
9,800.0	9,745.8	9,849.0	9,745.8	27.2	24.2	92.09	92.09	725.1	495.0	501.3	467.2	34.13	14.688		
9,900.0	9,845.8	9,949.0	9,845.8	27.2	24.3	92.09	92.09	725.1	495.0	501.3	467.1	34.28	14.625		
10,000.0	9,945.8	10,049.0	9,945.8	27.3	24.3	92.09	92.09	725.1	495.0	501.3	466.9	34.43	14.562		
10,100.0	10,045.8	10,149.0	10,045.8	27.3	24.4	92.09	92.09	725.1	495.0	501.3	466.8	34.57	14.500		
10,200.0	10,145.8	10,249.0	10,145.8	27.4	24.4	92.09	92.09	725.1	495.0	501.3	466.6	34.72	14.438		
10,300.0	10,245.8	10,349.0	10,245.8	27.4	24.5	92.09	92.09	725.1	495.0	501.3	466.5	34.87	14.377		
10,400.0	10,345.8	10,449.0	10,345.8	27.5	24.5	92.09	92.09	725.1	495.0	501.3	466.3	35.02	14.316		
10,500.0	10,445.8	10,549.0	10,445.8	27.5	24.6	92.09	92.09	725.1	495.0	501.3	466.2	35.17	14.256		
10,600.0	10,545.8	10,649.0	10,545.8	27.6	24.7	92.09	92.09	725.1	495.0	501.3	466.0	35.32	14.196		
10,700.0	10,645.8	10,749.0	10,645.8	27.6	24.7	92.09	92.09	725.1	495.0	501.3	465.9	35.46	14.137		
10,800.0	10,745.8	10,849.0	10,745.8	27.7	24.8	92.09	92.09	725.1	495.0	501.3	465.7	35.61	14.078		
10,900.0	10,845.8	10,949.0	10,845.8	27.7	24.8	92.09	92.09	725.1	495.0	501.3	465.6	35.76	14.019		
11,000.0	10,945.8	11,049.0	10,945.8	27.8	24.9	92.09	92.09	725.1	495.0	501.3	465.4	35.91	13.961		
11,100.0	11,045.8	11,149.0	11,045.8	27.8	24.9	92.09	92.09	725.1	495.0	501.3	465.3	36.06	13.903		
11,200.0	11,145.8	11,249.0	11,145.8	27.9	25.0	92.09	92.09	725.1	495.0	501.3	465.1	36.21	13.846		
11,300.0	11,245.8	11,349.0	11,245.8	27.9	25.1	92.09	92.09	725.1	495.0	501.3	465.0	36.36	13.790		
11,400.0	11,345.8	11,451.2	11,347.8	28.0	25.0	92.43	92.43	722.2	494.8	501.2	464.8	36.41	13.765		
11,489.3	11,435.1	11,540.4	11,435.1	28.0	24.7	94.50	94.50	704.1	493.3	500.9	464.6	36.24	13.821		
11,500.0	11,445.8	11,550.6	11,444.8	28.0	24.6	94.85	94.85	701.0	493.1	500.9	464.7	36.22	13.830		
11,550.7	11,496.5	11,596.7	11,487.8	28.1	24.5	96.75	96.75	684.5	491.8	501.4	465.2	36.11	13.883		
11,575.0	11,520.8	11,617.8	11,506.9	28.0	24.4	-81.87	-81.87	675.6	491.1	501.8	465.7	36.07	13.912		
11,600.0	11,545.7	11,639.2	11,525.8	27.9	24.3	-80.84	-80.84	665.7	490.3	502.4	466.3	36.03	13.941		
11,625.0	11,570.5	11,660.2	11,544.0	27.9	24.3	-79.84	-79.84	655.1	489.5	503.0	467.0	36.01	13.966		
11,650.0	11,595.1	11,680.9	11,561.4	27.8	24.2	-78.87	-78.87	644.0	488.6	503.6	467.6	36.01	13.987		
11,675.0	11,619.4	11,700.0	11,577.1	27.7	24.1	-77.98	-77.98	633.0	487.8	504.4	468.3	36.02	14.000		
11,700.0	11,643.4	11,721.5	11,594.1	27.6	24.1	-77.01	-77.01	620.0	486.7	505.1	469.1	36.04	14.016		
11,725.0	11,667.0	11,741.4	11,609.3	27.5	24.0	-76.12	-76.12	607.2	485.7	505.8	469.8	36.07	14.024		
11,750.0	11,690.1	11,761.1	11,623.9	27.4	23.9	-75.27	-75.27	594.0	484.7	506.6	470.5	36.12	14.026		
11,775.0	11,712.7	11,780.6	11,637.7	27.3	23.9	-74.45	-74.45	580.3	483.6	507.4	471.2	36.18	14.024		
11,800.0	11,734.6	11,800.0	11,651.0	27.2	23.8	-73.66	-73.66	566.1	482.5	508.1	471.8	36.25	14.016		
11,825.0	11,756.0	11,818.9	11,663.3	27.1	23.8	-72.92	-72.92	551.8	481.4	508.8	472.4	36.34	14.001		
11,850.0	11,776.6	11,837.9	11,675.0	27.0	23.7	-72.20	-72.20	537.0	480.2	509.4	473.0	36.44	13.980		
11,875.0	11,796.5	11,856.6	11,686.1	26.9	23.7	-71.53	-71.53	521.9	479.0	510.0	473.5	36.55	13.953		
11,900.0	11,815.5	11,875.0	11,696.3	26.8	23.6	-70.89	-70.89	506.7	477.8	510.5	473.9	36.68	13.918		
11,925.0	11,833.6	11,893.8	11,706.2	26.7	23.6	-70.29	-70.29	490.8	476.6	511.0	474.2	36.82	13.878		
11,950.0	11,850.9	11,912.1	11,715.2	26.6	23.5	-69.72	-69.72	474.8	475.3	511.3	474.4	36.97	13.830		
11,975.0	11,867.1	11,930.4	11,723.5	26.5	23.5	-69.20	-69.20	458.6	474.0	511.6	474.4	37.14	13.775		
12,000.0	11,882.4	11,950.0	11,731.8	26.4	23.5	-68.68	-68.68	440.9	472.6	511.7	474.4	37.30	13.720		
12,025.0	11,896.6	11,966.6	11,738.2	26.3	23.4	-68.28	-68.28	425.7	471.4	511.8	474.3	37.51	13.643		
12,050.0	11,909.7	11,984.6	11,744.6	26.3	23.4	-67.88	-67.88	408.9	470.1	511.7	474.0	37.71	13.567		
12,075.0	11,921.6	12,000.0	11,749.5	26.2	23.4	-67.58	-67.58	394.3	469.0	511.5	473.5	37.96	13.472		
12,100.0	11,932.4	12,020.3	11,755.3	26.1	23.4	-67.21	-67.21	374.9	467.4	511.1	472.9	38.15	13.396		
12,125.0	11,942.0	12,038.0	11,759.7	26.1	23.4	-66.94	-66.94	357.8	466.1	510.6	472.2	38.39	13.302		
12,150.0	11,950.4	12,055.7	11,763.4	26.1	23.4	-66.71	-66.71	340.5	464.7	509.9	471.3	38.63	13.205		
12,175.0	11,957.5	12,075.0	11,766.7	26.0	23.3	-66.50	-66.50	321.6	463.2	509.1	470.3	38.85	13.106		
12,200.0	11,963.4	12,091.0	11,768.9	26.0	23.3	-66.39	-66.39	305.8	462.0	508.2	469.1	39.12	12.989		
12,225.0	11,968.0	12,108.6	11,770.6	26.0	23.3	-66.29	-66.29	288.4	460.6	507.1	467.7	39.38	12.877		
12,250.0	11,971.3	12,125.0	11,771.7	25.9	23.3	-66.25	-66.25	272.0	459.3	505.8	466.2	39.65	12.757		
12,275.0	11,973.3	12,143.6	11,772.2	25.9	23.3	-66.23	-66.23	253.5	457.9	504.4	464.5	39.89	12.646		
12,300.0	11,974.0	12,164.1	11,772.3	25.9	23.4	-66.28	-66.28	233.1	456.3	502.8	462.7	40.09	12.542		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWPO													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				Distance (usft)
12,300.7	11,974.0	12,164.7	11,772.3	25.9	23.4	-66.28	232.5	456.3	502.7	462.6	40.09	12.539		
12,400.0	11,974.0	12,250.2	11,772.3	25.9	23.4	-66.03	147.2	451.3	496.9	456.1	40.84	12.166		
12,500.0	11,974.0	12,336.5	11,772.3	25.9	23.5	-65.89	60.9	448.9	493.8	452.1	41.68	11.848		
12,591.2	11,974.0	12,419.1	11,772.3	25.9	23.5	-65.86	-21.8	448.9	493.3	450.8	42.41	11.630		
12,600.0	11,974.0	12,427.9	11,772.3	25.9	23.5	-65.86	-30.6	449.0	493.3	450.8	42.47	11.614		
12,700.0	11,974.0	12,527.9	11,772.3	25.9	23.6	-65.86	-130.6	449.6	493.3	450.1	43.15	11.432		
12,800.0	11,974.0	12,627.9	11,772.3	26.0	23.8	-65.86	-230.6	450.2	493.3	449.4	43.89	11.237		
12,900.0	11,974.0	12,727.9	11,772.3	26.0	23.9	-65.86	-330.6	450.9	493.3	448.5	44.71	11.033		
13,000.0	11,974.0	12,827.9	11,772.3	26.0	24.1	-65.86	-430.6	451.5	493.3	447.7	45.58	10.822		
13,100.0	11,974.0	12,927.9	11,772.3	26.0	24.3	-65.86	-530.6	452.1	493.3	446.7	46.51	10.606		
13,200.0	11,974.0	13,027.9	11,772.3	26.0	24.5	-65.86	-630.6	452.7	493.2	445.8	47.49	10.386		
13,300.0	11,974.0	13,127.9	11,772.3	26.0	24.8	-65.86	-730.6	453.4	493.2	444.7	48.53	10.165		
13,400.0	11,974.0	13,227.9	11,772.3	26.0	25.1	-65.86	-830.5	454.0	493.2	443.6	49.61	9.943		
13,500.0	11,974.0	13,327.9	11,772.3	26.1	25.5	-65.86	-930.5	454.6	493.2	442.5	50.74	9.722		
13,600.0	11,974.0	13,427.9	11,772.3	26.1	25.9	-65.86	-1,030.5	455.2	493.2	441.3	51.91	9.503		
13,700.0	11,974.0	13,527.9	11,772.3	26.1	26.3	-65.86	-1,130.5	455.9	493.2	440.1	53.11	9.287		
13,800.0	11,974.0	13,627.9	11,772.3	26.1	26.8	-65.86	-1,230.5	456.5	493.2	438.9	54.36	9.074		
13,900.0	11,974.0	13,727.9	11,772.3	26.2	27.3	-65.86	-1,330.5	457.1	493.2	437.6	55.64	8.865		
14,000.0	11,974.0	13,827.9	11,772.3	26.2	27.8	-65.86	-1,430.5	457.7	493.2	436.3	56.94	8.662		
14,100.0	11,974.0	13,927.9	11,772.3	26.2	28.4	-65.86	-1,530.5	458.4	493.2	434.9	58.28	8.463		
14,200.0	11,974.0	14,027.9	11,772.3	26.8	29.0	-65.86	-1,630.5	459.0	493.2	433.6	59.65	8.269		
14,300.0	11,974.0	14,127.9	11,772.3	27.6	29.6	-65.86	-1,730.5	459.6	493.2	432.2	61.04	8.080		
14,400.0	11,974.0	14,227.9	11,772.3	28.4	30.3	-65.86	-1,830.5	460.2	493.2	430.8	62.46	7.897		
14,500.0	11,974.0	14,327.9	11,772.3	29.1	30.9	-65.86	-1,930.5	460.9	493.2	429.3	63.90	7.719		
14,600.0	11,974.0	14,427.9	11,772.3	29.9	31.6	-65.86	-2,030.5	461.5	493.2	427.9	65.35	7.547		
14,700.0	11,974.0	14,527.9	11,772.3	30.8	32.3	-65.86	-2,130.5	462.1	493.2	426.4	66.83	7.380		
14,800.0	11,974.0	14,627.9	11,772.3	31.6	33.1	-65.86	-2,230.5	462.7	493.2	424.9	68.33	7.218		
14,900.0	11,974.0	14,727.9	11,772.3	32.4	33.8	-65.86	-2,330.5	463.4	493.2	423.4	69.84	7.062		
15,000.0	11,974.0	14,827.9	11,772.3	33.2	34.6	-65.86	-2,430.5	464.0	493.2	421.8	71.37	6.910		
15,100.0	11,974.0	14,927.9	11,772.3	34.1	35.3	-65.86	-2,530.5	464.6	493.2	420.3	72.92	6.764		
15,200.0	11,974.0	15,027.9	11,772.3	34.9	36.1	-65.86	-2,630.5	465.2	493.2	418.7	74.47	6.623		
15,300.0	11,974.0	15,127.9	11,772.3	35.8	36.9	-65.86	-2,730.5	465.8	493.2	417.2	76.04	6.486		
15,400.0	11,974.0	15,227.9	11,772.3	36.6	37.7	-65.86	-2,830.5	466.5	493.2	415.6	77.63	6.353		
15,500.0	11,974.0	15,327.9	11,772.3	37.5	38.5	-65.86	-2,930.5	467.1	493.2	414.0	79.22	6.226		
15,600.0	11,974.0	15,427.9	11,772.3	38.3	39.3	-65.86	-3,030.5	467.7	493.2	412.4	80.83	6.102		
15,700.0	11,974.0	15,527.9	11,772.3	39.2	40.1	-65.86	-3,130.5	468.3	493.2	410.8	82.44	5.982		
15,800.0	11,974.0	15,627.9	11,772.3	40.1	41.0	-65.86	-3,230.5	469.0	493.2	409.1	84.07	5.867		
15,900.0	11,974.0	15,727.9	11,772.3	41.0	41.8	-65.86	-3,330.5	469.6	493.2	407.5	85.70	5.755		
16,000.0	11,974.0	15,827.9	11,772.3	41.8	42.6	-65.86	-3,430.5	470.2	493.2	405.8	87.35	5.646		
16,100.0	11,974.0	15,927.9	11,772.3	42.7	43.5	-65.86	-3,530.5	470.8	493.2	404.2	89.00	5.542		
16,200.0	11,974.0	16,027.9	11,772.3	43.6	44.3	-65.86	-3,630.5	471.5	493.2	402.5	90.66	5.440		
16,300.0	11,974.0	16,127.9	11,772.3	44.5	45.2	-65.86	-3,730.5	472.1	493.2	400.9	92.32	5.342		
16,400.0	11,974.0	16,227.9	11,772.3	45.4	46.1	-65.86	-3,830.5	472.7	493.2	399.2	93.99	5.247		
16,500.0	11,974.0	16,327.9	11,772.3	46.3	46.9	-65.86	-3,930.5	473.3	493.2	397.5	95.67	5.155		
16,600.0	11,974.0	16,427.9	11,772.3	47.2	47.8	-65.86	-4,030.5	474.0	493.2	395.8	97.36	5.066		
16,700.0	11,974.0	16,527.9	11,772.3	48.1	48.7	-65.86	-4,130.5	474.6	493.2	394.1	99.05	4.979		
16,800.0	11,974.0	16,627.9	11,772.3	49.0	49.5	-65.86	-4,230.5	475.2	493.2	392.4	100.75	4.895		
16,900.0	11,974.0	16,727.9	11,772.3	49.9	50.4	-65.86	-4,330.5	475.8	493.2	390.7	102.45	4.814		
17,000.0	11,974.0	16,827.9	11,772.3	50.8	51.3	-65.86	-4,430.5	476.5	493.2	389.0	104.16	4.735		
17,100.0	11,974.0	16,927.9	11,772.3	51.7	52.2	-65.86	-4,530.5	477.1	493.2	387.3	105.87	4.658		
17,200.0	11,974.0	17,027.9	11,772.3	52.7	53.1	-65.86	-4,630.5	477.7	493.2	385.6	107.58	4.584		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 703H - OWB - PWPO													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
17,300.0	11,974.0	17,127.9	11,772.3	53.6	54.0	-65.86	-4,730.5	478.3	493.2	383.9	109.30	4.512		
17,400.0	11,974.0	17,227.9	11,772.3	54.5	54.9	-65.86	-4,830.5	479.0	493.2	382.1	111.03	4.442		
17,500.0	11,974.0	17,327.9	11,772.3	55.4	55.8	-65.86	-4,930.5	479.6	493.2	380.4	112.76	4.374		
17,600.0	11,974.0	17,427.9	11,772.3	56.3	56.7	-65.86	-5,030.5	480.2	493.2	378.7	114.49	4.307		
17,700.0	11,974.0	17,527.9	11,772.3	57.2	57.6	-65.86	-5,130.5	480.8	493.2	376.9	116.23	4.243		
17,800.0	11,974.0	17,627.9	11,772.3	58.2	58.5	-65.86	-5,230.5	481.5	493.2	375.2	117.97	4.180		
17,900.0	11,974.0	17,727.9	11,772.3	59.1	59.4	-65.86	-5,330.5	482.1	493.2	373.4	119.71	4.120		
18,000.0	11,974.0	17,827.9	11,772.3	60.0	60.3	-65.86	-5,430.5	482.7	493.1	371.7	121.45	4.060		
18,100.0	11,974.0	17,927.9	11,772.3	60.9	61.2	-65.86	-5,530.5	483.3	493.1	369.9	123.20	4.003		
18,200.0	11,974.0	18,027.9	11,772.3	61.9	62.1	-65.86	-5,630.5	483.9	493.1	368.2	124.95	3.947		
18,300.0	11,974.0	18,127.9	11,772.3	62.8	63.0	-65.86	-5,730.5	484.6	493.1	366.4	126.71	3.892		
18,400.0	11,974.0	18,227.9	11,772.3	63.7	63.9	-65.86	-5,830.5	485.2	493.1	364.7	128.46	3.839		
18,500.0	11,974.0	18,327.9	11,772.3	64.7	64.9	-65.86	-5,930.4	485.8	493.1	362.9	130.22	3.787		
18,600.0	11,974.0	18,427.9	11,772.3	65.6	65.8	-65.86	-6,030.4	486.4	493.1	361.1	131.99	3.736		
18,700.0	11,974.0	18,527.9	11,772.3	66.5	66.7	-65.86	-6,130.4	487.1	493.1	359.4	133.75	3.687		
18,800.0	11,974.0	18,627.9	11,772.3	67.5	67.6	-65.86	-6,230.4	487.7	493.1	357.6	135.52	3.639		
18,900.0	11,974.0	18,727.9	11,772.3	68.4	68.5	-65.86	-6,330.4	488.3	493.1	355.8	137.28	3.592		
19,000.0	11,974.0	18,827.9	11,772.3	69.3	69.5	-65.86	-6,430.4	488.9	493.1	354.1	139.06	3.546		
19,100.0	11,974.0	18,927.9	11,772.3	70.3	70.4	-65.86	-6,530.4	489.6	493.1	352.3	140.83	3.502		
19,200.0	11,974.0	19,027.9	11,772.3	71.2	71.3	-65.86	-6,630.4	490.2	493.1	350.5	142.60	3.458		
19,300.0	11,974.0	19,127.9	11,772.3	72.1	72.2	-65.86	-6,730.4	490.8	493.1	348.7	144.38	3.415		
19,400.0	11,974.0	19,227.9	11,772.3	73.1	73.2	-65.86	-6,830.4	491.4	493.1	347.0	146.16	3.374		
19,500.0	11,974.0	19,327.9	11,772.3	74.0	74.1	-65.86	-6,930.4	492.1	493.1	345.2	147.94	3.333		
19,600.0	11,974.0	19,427.9	11,772.3	75.0	75.0	-65.86	-7,030.4	492.7	493.1	343.4	149.72	3.294		
19,646.6	11,974.0	19,474.5	11,772.3	75.4	75.5	-65.86	-7,077.0	493.0	493.1	342.6	150.55	3.275		
19,658.5	11,974.0	19,486.4	11,772.3	75.5	75.6	-65.86	-7,088.9	493.1	493.1	342.4	150.76	3.271		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWPO													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.2	3.0	3.0	89.64	0.2	40.0	40.0					
100.0	100.0	99.8	100.0	3.1	3.1	89.64	0.2	40.0	40.0	33.4	6.62	6.042		
200.0	200.0	199.8	200.0	3.3	3.3	89.64	0.2	40.0	40.0	32.9	7.07	5.657		
300.0	300.0	299.8	300.0	3.6	3.6	89.64	0.2	40.0	40.0	32.5	7.50	5.336		
400.0	400.0	399.8	400.0	3.8	3.8	89.64	0.2	40.0	40.0	32.1	7.90	5.063		
500.0	500.0	499.8	500.0	4.0	4.0	89.64	0.2	40.0	40.0	31.7	8.29	4.826		
600.0	600.0	599.8	600.0	4.1	4.1	89.64	0.2	40.0	40.0	31.3	8.66	4.619		
700.0	700.0	699.8	700.0	4.3	4.3	89.64	0.2	40.0	40.0	31.0	9.02	4.435		
800.0	800.0	799.8	800.0	4.5	4.5	89.64	0.2	40.0	40.0	30.6	9.37	4.271		
900.0	900.0	899.8	900.0	4.7	4.7	89.64	0.2	40.0	40.0	30.3	9.70	4.123		
1,000.0	1,000.0	999.8	1,000.0	4.8	4.8	89.64	0.2	40.0	40.0	30.0	10.03	3.988		
1,100.0	1,100.0	1,099.8	1,100.0	5.0	5.0	89.64	0.2	40.0	40.0	29.7	10.35	3.865		
1,200.0	1,200.0	1,199.8	1,200.0	5.2	5.2	89.64	0.2	40.0	40.0	29.3	10.66	3.752		
1,300.0	1,300.0	1,299.8	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	1,399.8	1,400.0	5.5	5.5	89.64	0.2	40.0	40.0	28.7	11.27	3.551		
1,500.0	1,500.0	1,499.8	1,500.0	5.6	5.6	89.64	0.2	40.0	40.0	28.4	11.56	3.461		
1,600.0	1,600.0	1,599.8	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	1,699.8	1,700.0	5.9	5.9	89.64	0.2	40.0	40.0	27.9	12.13	3.298		
1,800.0	1,800.0	1,799.8	1,800.0	6.0	6.0	89.64	0.2	40.0	40.0	27.6	12.41	3.224		
1,900.0	1,900.0	1,899.8	1,900.0	6.2	6.2	89.64	0.2	40.0	40.0	27.3	12.68	3.154		
2,000.0	2,000.0	1,999.8	2,000.0	6.3	6.3	89.64	0.2	40.0	40.0	27.0	12.95	3.088 CC		
2,004.4	2,004.4	2,004.2	2,004.4	6.3	6.3	90.11	0.2	40.0	40.0	27.0	12.96	3.086 ES		
2,100.0	2,100.0	2,099.3	2,099.5	6.5	6.4	92.56	0.2	40.3	40.4	27.2	13.15	3.070 SF		
2,200.0	2,199.8	2,198.0	2,198.2	6.8	6.5	99.20	0.3	42.9	43.5	30.1	13.42	3.239		
2,300.0	2,299.5	2,296.3	2,296.3	7.0	6.7	107.83	0.3	47.9	50.6	36.9	13.72	3.687		
2,400.0	2,398.7	2,394.1	2,393.8	7.2	6.8	116.04	0.3	55.5	62.4	48.4	14.00	4.454		
2,436.2	2,434.5	2,429.8	2,429.4	7.3	6.9	118.48	0.6	58.8	67.6	53.5	14.11	4.793		
2,500.0	2,497.6	2,492.8	2,492.1	7.4	7.1	121.54	2.1	65.0	77.2	62.9	14.32	5.391		
2,600.0	2,596.4	2,591.9	2,590.4	7.6	7.3	123.32	7.0	76.2	92.3	77.6	14.67	6.290		
2,700.0	2,695.3	2,691.2	2,688.5	7.9	7.5	122.75	14.9	88.9	107.0	92.0	14.99	7.139		
2,800.0	2,794.1	2,790.3	2,786.0	8.1	7.8	120.69	25.8	103.2	121.6	106.2	15.30	7.942		
2,900.0	2,892.9	2,889.2	2,882.6	8.4	8.1	117.62	39.7	119.0	136.1	120.5	15.60	8.726		
3,000.0	2,991.8	2,987.7	2,978.6	8.7	8.4	114.49	55.1	135.5	151.1	135.1	15.96	9.465		
3,100.0	3,090.6	3,086.3	3,074.5	9.0	8.7	111.92	70.5	151.9	166.4	150.1	16.30	10.210		
3,200.0	3,189.5	3,184.9	3,170.5	9.3	9.0	109.79	85.9	168.4	182.0	165.3	16.64	10.937		
3,300.0	3,288.3	3,283.4	3,266.4	9.6	9.3	108.00	101.3	184.9	197.8	180.8	17.00	11.636		
3,400.0	3,387.2	3,382.0	3,362.4	10.0	9.6	106.47	116.7	201.4	213.7	196.4	17.37	12.307		
3,500.0	3,486.0	3,480.6	3,458.3	10.3	10.0	105.15	132.0	217.9	229.8	212.1	17.75	12.947		
3,600.0	3,584.8	3,579.1	3,554.3	10.7	10.3	104.01	147.4	234.4	246.0	227.9	18.15	13.557		
3,700.0	3,683.7	3,677.7	3,650.2	11.0	10.7	103.00	162.8	250.8	262.3	243.7	18.55	14.138		
3,800.0	3,782.5	3,776.3	3,746.2	11.4	11.1	102.12	178.2	267.3	278.6	259.7	18.97	14.689		
3,900.0	3,881.4	3,874.9	3,842.1	11.7	11.4	101.33	193.6	283.8	295.0	275.7	19.39	15.213		
4,000.0	3,980.2	3,973.4	3,938.1	12.1	11.8	100.63	209.0	300.3	311.5	291.7	19.83	15.710		
4,100.0	4,079.1	4,072.0	4,034.1	12.5	12.2	99.99	224.4	316.8	328.0	307.7	20.27	16.180		
4,200.0	4,177.9	4,170.6	4,130.0	12.9	12.6	99.42	239.8	333.3	344.5	323.8	20.72	16.627		
4,300.0	4,276.8	4,269.1	4,226.0	13.3	13.0	98.90	255.2	349.7	361.1	339.9	21.18	17.050		
4,400.0	4,375.6	4,367.7	4,321.9	13.6	13.4	98.42	270.5	366.2	377.7	356.0	21.64	17.452		
4,500.0	4,474.4	4,466.3	4,417.9	14.0	13.8	97.99	285.9	382.7	394.3	372.2	22.11	17.832		
4,600.0	4,573.3	4,564.8	4,513.8	14.4	14.3	97.59	301.3	399.2	410.9	388.3	22.58	18.193		
4,700.0	4,672.1	4,663.4	4,609.8	14.8	14.7	97.22	316.7	415.7	427.5	404.5	23.07	18.536		
4,800.0	4,771.0	4,762.0	4,705.7	15.2	15.1	96.88	332.1	432.2	444.2	420.6	23.55	18.861		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWPO													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)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,900.0	4,869.8	4,860.5	4,801.7	15.6	15.5	96.56	347.5	448.6	460.9	436.8	24.04	19.170		
5,000.0	4,968.7	4,959.1	4,897.6	16.0	16.0	96.27	362.9	465.1	477.6	453.0	24.54	19.464		
5,100.0	5,067.5	5,057.7	4,993.6	16.4	16.4	95.99	378.3	481.6	494.3	469.2	25.03	19.744		
5,200.0	5,166.3	5,156.2	5,089.6	16.9	16.8	95.74	393.7	498.1	511.0	485.4	25.54	20.009		
5,300.0	5,265.2	5,254.8	5,185.5	17.3	17.3	95.50	409.1	514.6	527.7	501.6	26.04	20.263		
5,400.0	5,364.0	5,353.4	5,281.5	17.7	17.7	95.27	424.4	531.1	544.4	517.9	26.55	20.504		
5,500.0	5,462.9	5,452.0	5,377.4	18.1	18.2	95.06	439.8	547.5	561.2	534.1	27.07	20.733		
5,600.0	5,561.7	5,550.5	5,473.4	18.5	18.6	94.86	455.2	564.0	577.9	550.3	27.58	20.953		
5,700.0	5,660.6	5,649.1	5,569.3	18.9	19.0	94.67	470.6	580.5	594.6	566.5	28.10	21.162		
5,800.0	5,759.4	5,747.7	5,665.3	19.3	19.5	94.49	486.0	597.0	611.4	582.8	28.62	21.362		
5,900.0	5,858.2	5,846.2	5,761.2	19.7	19.9	94.32	501.4	613.5	628.2	599.0	29.15	21.552		
6,000.0	5,957.1	5,944.8	5,857.2	20.2	20.4	94.16	516.8	630.0	644.9	615.3	29.67	21.735		
6,100.0	6,055.9	6,043.4	5,953.1	20.6	20.8	94.01	532.2	646.5	661.7	631.5	30.20	21.910		
6,200.0	6,154.8	6,141.9	6,049.1	21.0	21.3	93.87	547.6	662.9	678.5	647.7	30.73	22.077		
6,300.0	6,253.6	6,240.5	6,145.1	21.4	21.7	93.73	562.9	679.4	695.2	664.0	31.27	22.237		
6,400.0	6,352.5	6,339.1	6,241.0	21.9	22.2	93.60	578.3	695.9	712.0	680.2	31.80	22.391		
6,500.0	6,451.3	6,437.6	6,337.0	22.3	22.7	93.48	593.7	712.4	728.8	696.5	32.34	22.538		
6,600.0	6,550.1	6,536.2	6,432.9	22.7	23.1	93.36	609.1	728.9	745.6	712.7	32.88	22.679		
6,681.7	6,630.9	6,616.8	6,511.3	23.0	23.5	93.26	621.7	742.3	759.3	726.0	33.31	22.796		
6,700.0	6,649.0	6,634.8	6,528.9	23.1	23.6	93.27	624.5	745.4	762.4	729.0	33.40	22.825		
6,800.0	6,748.0	6,733.3	6,624.8	23.5	24.0	93.24	639.9	761.8	779.1	745.2	33.97	22.938		
6,900.0	6,847.2	6,835.3	6,724.1	23.9	24.5	93.09	655.7	778.8	795.7	761.1	34.56	23.027		
7,000.0	6,946.7	6,944.7	6,830.9	24.3	25.0	92.86	671.7	795.9	811.2	776.0	35.18	23.059		
7,100.0	7,046.3	7,054.5	6,938.7	24.7	25.5	92.60	686.3	811.5	825.3	789.5	35.79	23.060		
7,200.0	7,146.0	7,164.9	7,047.3	25.1	26.0	92.31	699.5	825.7	838.1	801.7	36.39	23.032		
7,300.0	7,245.9	7,275.7	7,156.7	25.4	26.5	91.98	711.3	838.4	849.4	812.5	36.97	22.978		
7,400.0	7,345.8	7,386.8	7,266.9	25.7	26.9	91.63	721.8	849.6	859.4	821.9	37.53	22.898		
7,500.0	7,445.8	7,498.4	7,377.6	26.0	27.4	91.24	730.8	859.2	868.0	829.9	38.08	22.796		
7,554.2	7,500.0	7,558.9	7,437.9	26.1	27.6	90.55	735.1	863.8	872.0	833.7	38.35	22.739		
7,600.0	7,545.8	7,610.3	7,488.9	26.1	27.8	90.33	738.4	867.3	875.2	836.6	38.58	22.687		
7,700.0	7,645.8	7,722.5	7,600.8	26.1	28.3	89.93	744.4	873.8	881.0	841.9	39.05	22.557		
7,800.0	7,745.8	7,835.1	7,713.2	26.2	28.7	89.63	749.0	878.7	885.4	845.9	39.48	22.424		
7,900.0	7,845.8	7,947.8	7,825.9	26.2	29.0	89.44	752.1	882.1	888.3	848.5	39.85	22.292		
8,000.0	7,945.8	8,060.8	7,938.8	26.3	29.3	89.34	753.7	883.8	889.8	849.7	40.14	22.171		
8,100.0	8,045.8	8,167.8	8,045.8	26.3	29.4	89.32	753.9	884.0	890.1	849.8	40.28	22.095		
8,200.0	8,145.8	8,267.8	8,145.8	26.4	29.5	89.32	753.9	884.0	890.1	849.7	40.39	22.037		
8,300.0	8,245.8	8,367.8	8,245.8	26.4	29.5	89.32	753.9	884.0	890.1	849.6	40.50	21.977		
8,400.0	8,345.8	8,467.8	8,345.8	26.5	29.6	89.32	753.9	884.0	890.1	849.5	40.61	21.918		
8,500.0	8,445.8	8,567.8	8,445.8	26.5	29.6	89.32	753.9	884.0	890.1	849.3	40.72	21.858		
8,600.0	8,545.8	8,667.8	8,545.8	26.6	29.6	89.32	753.9	884.0	890.1	849.2	40.83	21.799		
8,700.0	8,645.8	8,767.8	8,645.8	26.6	29.7	89.32	753.9	884.0	890.1	849.1	40.94	21.740		
8,800.0	8,745.8	8,867.8	8,745.8	26.7	29.7	89.32	753.9	884.0	890.1	849.0	41.05	21.681		
8,900.0	8,845.8	8,967.8	8,845.8	26.7	29.8	89.32	753.9	884.0	890.1	848.9	41.16	21.622		
9,000.0	8,945.8	9,067.8	8,945.8	26.8	29.8	89.32	753.9	884.0	890.1	848.8	41.28	21.563		
9,100.0	9,045.8	9,167.8	9,045.8	26.8	29.8	89.32	753.9	884.0	890.1	848.7	41.39	21.505		
9,200.0	9,145.8	9,267.8	9,145.8	26.9	29.9	89.32	753.9	884.0	890.1	848.6	41.50	21.446		
9,300.0	9,245.8	9,367.8	9,245.8	26.9	29.9	89.32	753.9	884.0	890.1	848.4	41.61	21.388		
9,400.0	9,345.8	9,467.8	9,345.8	27.0	29.9	89.32	753.9	884.0	890.1	848.3	41.73	21.330		
9,500.0	9,445.8	9,567.8	9,445.8	27.0	30.0	89.32	753.9	884.0	890.1	848.2	41.84	21.272		
9,600.0	9,545.8	9,667.8	9,545.8	27.1	30.0	89.32	753.9	884.0	890.1	848.1	41.96	21.214		
9,700.0	9,645.8	9,767.8	9,645.8	27.1	30.1	89.32	753.9	884.0	890.1	848.0	42.07	21.157		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWPO														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Rule Assigned:		Offset Well Error:	3.0 usft
Reference				Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)				
9,800.0	9,745.8	9,867.8	9,745.8	27.2	30.1	89.32	753.9	884.0	890.1	847.9	42.18	21.099			
9,900.0	9,845.8	9,967.8	9,845.8	27.2	30.1	89.32	753.9	884.0	890.1	847.8	42.30	21.042			
10,000.0	9,945.8	10,067.8	9,945.8	27.3	30.2	89.32	753.9	884.0	890.1	847.6	42.41	20.985			
10,100.0	10,045.8	10,167.8	10,045.8	27.3	30.2	89.32	753.9	884.0	890.1	847.5	42.53	20.928			
10,200.0	10,145.8	10,267.8	10,145.8	27.4	30.3	89.32	753.9	884.0	890.1	847.4	42.65	20.871			
10,300.0	10,245.8	10,367.8	10,245.8	27.4	30.3	89.32	753.9	884.0	890.1	847.3	42.76	20.815			
10,400.0	10,345.8	10,467.8	10,345.8	27.5	30.4	89.32	753.9	884.0	890.1	847.2	42.88	20.758			
10,500.0	10,445.8	10,567.8	10,445.8	27.5	30.4	89.32	753.9	884.0	890.1	847.1	42.99	20.702			
10,600.0	10,545.8	10,667.8	10,545.8	27.6	30.4	89.32	753.9	884.0	890.1	847.0	43.11	20.646			
10,700.0	10,645.8	10,767.8	10,645.8	27.6	30.5	89.32	753.9	884.0	890.1	846.8	43.23	20.590			
10,800.0	10,745.8	10,867.8	10,745.8	27.7	30.5	89.32	753.9	884.0	890.1	846.7	43.35	20.534			
10,900.0	10,845.8	10,967.8	10,845.8	27.7	30.6	89.32	753.9	884.0	890.1	846.6	43.46	20.478			
11,000.0	10,945.8	11,067.8	10,945.8	27.8	30.6	89.32	753.9	884.0	890.1	846.5	43.58	20.423			
11,100.0	11,045.8	11,167.8	11,045.8	27.8	30.7	89.32	753.9	884.0	890.1	846.4	43.70	20.367			
11,200.0	11,145.8	11,267.8	11,145.8	27.9	30.7	89.32	753.9	884.0	890.1	846.2	43.82	20.312			
11,300.0	11,245.8	11,367.8	11,245.8	27.9	30.7	89.32	753.9	884.0	890.1	846.1	43.94	20.257			
11,400.0	11,345.8	11,467.8	11,345.8	28.0	30.8	89.32	753.9	884.0	890.1	846.0	44.06	20.203			
11,500.0	11,445.8	11,567.8	11,445.8	28.0	30.8	89.32	753.9	884.0	890.1	845.9	44.18	20.148			
11,550.7	11,496.5	11,618.5	11,496.5	28.1	30.8	89.32	753.9	884.0	890.1	845.8	44.22	20.127			
11,575.0	11,520.8	11,642.9	11,520.9	28.0	30.8	-90.35	753.9	884.0	890.1	845.8	44.24	20.121			
11,600.0	11,545.7	11,668.2	11,546.2	27.9	30.8	-90.40	752.7	884.0	890.1	845.8	44.24	20.121			
11,625.0	11,570.5	11,693.6	11,571.4	27.9	30.7	-90.45	750.2	884.0	890.1	845.8	44.23	20.125			
11,650.0	11,595.1	11,718.9	11,596.5	27.8	30.7	-90.50	746.4	884.0	890.1	845.9	44.22	20.130			
11,675.0	11,619.4	11,744.4	11,621.4	27.7	30.6	-90.55	741.2	884.1	890.1	845.9	44.20	20.137			
11,700.0	11,643.4	11,769.8	11,646.0	27.6	30.5	-90.59	734.7	884.1	890.1	845.9	44.18	20.145			
11,725.0	11,667.0	11,795.3	11,670.3	27.5	30.5	-90.64	726.9	884.2	890.1	845.9	44.16	20.155			
11,750.0	11,690.1	11,820.9	11,694.1	27.4	30.4	-90.68	717.7	884.2	890.1	846.0	44.14	20.167			
11,775.0	11,712.7	11,846.4	11,717.5	27.3	30.3	-90.72	707.3	884.3	890.1	846.0	44.11	20.180			
11,800.0	11,734.6	11,872.1	11,740.3	27.2	30.2	-90.76	695.7	884.4	890.1	846.0	44.08	20.194			
11,825.0	11,756.0	11,897.7	11,762.5	27.1	30.2	-90.79	682.8	884.4	890.1	846.1	44.05	20.209			
11,850.0	11,776.6	11,923.4	11,783.9	27.0	30.1	-90.83	668.7	884.5	890.1	846.1	44.01	20.224			
11,875.0	11,796.5	11,949.1	11,804.6	26.9	30.0	-90.86	653.5	884.6	890.1	846.2	43.98	20.241			
11,900.0	11,815.5	11,974.8	11,824.5	26.8	29.9	-90.89	637.2	884.7	890.2	846.2	43.94	20.257			
11,925.0	11,833.6	12,000.5	11,843.5	26.7	29.9	-90.91	619.8	884.8	890.2	846.3	43.91	20.273			
11,950.0	11,850.9	12,026.3	11,861.6	26.6	29.8	-90.94	601.4	885.0	890.2	846.3	43.87	20.290			
11,975.0	11,867.1	12,052.1	11,878.6	26.5	29.8	-90.96	582.0	885.1	890.2	846.3	43.84	20.305			
12,000.0	11,882.4	12,077.9	11,894.6	26.4	29.7	-90.98	561.8	885.2	890.2	846.4	43.81	20.320			
12,025.0	11,896.6	12,103.8	11,909.4	26.3	29.7	-90.99	540.7	885.3	890.2	846.4	43.78	20.333			
12,050.0	11,909.7	12,129.6	11,923.1	26.3	29.6	-91.01	518.8	885.5	890.2	846.4	43.76	20.345			
12,075.0	11,921.6	12,155.4	11,935.6	26.2	29.6	-91.02	496.1	885.6	890.2	846.5	43.73	20.355			
12,100.0	11,932.4	12,181.3	11,946.9	26.1	29.5	-91.02	472.9	885.8	890.2	846.5	43.72	20.362			
12,125.0	11,942.0	12,207.2	11,956.9	26.1	29.5	-91.03	449.0	885.9	890.2	846.5	43.71	20.368			
12,150.0	11,950.4	12,233.0	11,965.6	26.1	29.5	-91.03	424.7	886.1	890.2	846.5	43.70	20.371			
12,175.0	11,957.5	12,258.9	11,972.9	26.0	29.5	-91.03	399.9	886.2	890.2	846.5	43.70	20.371			
12,200.0	11,963.4	12,284.8	11,979.0	26.0	29.5	-91.02	374.7	886.4	890.2	846.5	43.71	20.368			
12,225.0	11,968.0	12,310.6	11,983.6	26.0	29.5	-91.02	349.3	886.5	890.2	846.5	43.72	20.362			
12,250.0	11,971.3	12,336.5	11,986.8	25.9	29.5	-91.01	323.6	886.7	890.2	846.4	43.74	20.353			
12,275.0	11,973.3	12,362.3	11,988.7	25.9	29.5	-90.99	297.9	886.9	890.2	846.4	43.76	20.341			
12,300.0	11,974.0	12,388.0	11,989.2	25.9	29.5	-90.98	272.2	887.0	890.2	846.4	43.80	20.325			
12,300.7	11,974.0	12,388.7	11,989.2	25.9	29.5	-90.98	271.5	887.0	890.2	846.4	43.80	20.324			
12,400.0	11,974.0	12,488.0	11,989.2	25.9	29.6	-90.98	172.2	887.6	890.2	846.1	44.04	20.212			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWPO														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1														Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
12,500.0	11,974.0	12,588.0	11,989.2	25.9	29.7	-90.98	72.2	888.3	890.2	845.8	44.37	20.063			
12,600.0	11,974.0	12,688.0	11,989.2	25.9	29.8	-90.98	-27.8	888.9	890.2	845.4	44.77	19.882			
12,700.0	11,974.0	12,788.0	11,989.2	25.9	30.0	-90.98	-127.8	889.5	890.2	844.9	45.26	19.670			
12,800.0	11,974.0	12,888.0	11,989.2	26.0	30.2	-90.98	-227.8	890.1	890.2	844.4	45.81	19.431			
12,900.0	11,974.0	12,988.0	11,989.2	26.0	30.4	-90.98	-327.8	890.8	890.2	843.7	46.44	19.168			
13,000.0	11,974.0	13,088.0	11,989.2	26.0	30.6	-90.98	-427.8	891.4	890.2	843.0	47.14	18.884			
13,100.0	11,974.0	13,188.0	11,989.2	26.0	30.8	-90.98	-527.8	892.0	890.2	842.3	47.90	18.583			
13,200.0	11,974.0	13,288.0	11,989.2	26.0	31.1	-90.98	-627.8	892.6	890.2	841.4	48.73	18.268			
13,300.0	11,974.0	13,388.0	11,989.2	26.0	31.4	-90.98	-727.8	893.3	890.2	840.6	49.61	17.942			
13,400.0	11,974.0	13,488.0	11,989.2	26.0	31.7	-90.98	-827.8	893.9	890.2	839.6	50.56	17.607			
13,500.0	11,974.0	13,588.0	11,989.2	26.1	32.0	-90.98	-927.8	894.5	890.2	838.6	51.55	17.267			
13,600.0	11,974.0	13,688.0	11,989.2	26.1	32.4	-90.98	-1,027.8	895.1	890.2	837.6	52.60	16.923			
13,700.0	11,974.0	13,788.0	11,989.2	26.1	32.8	-90.98	-1,127.8	895.8	890.2	836.5	53.69	16.579			
13,800.0	11,974.0	13,888.0	11,989.2	26.1	33.2	-90.98	-1,227.8	896.4	890.2	835.3	54.83	16.235			
13,900.0	11,974.0	13,988.0	11,989.2	26.2	33.6	-90.98	-1,327.8	897.0	890.2	834.1	56.01	15.892			
14,000.0	11,974.0	14,088.0	11,989.2	26.2	34.1	-90.98	-1,427.8	897.6	890.2	832.9	57.23	15.554			
14,100.0	11,974.0	14,188.0	11,989.2	26.2	34.5	-90.98	-1,527.8	898.3	890.2	831.7	58.49	15.220			
14,200.0	11,974.0	14,288.0	11,989.2	26.8	35.0	-90.98	-1,627.8	898.9	890.2	830.4	59.78	14.891			
14,300.0	11,974.0	14,388.0	11,989.2	27.6	35.5	-90.98	-1,727.8	899.5	890.2	829.1	61.10	14.569			
14,400.0	11,974.0	14,488.0	11,989.2	28.4	36.1	-90.98	-1,827.8	900.2	890.2	827.7	62.45	14.254			
14,500.0	11,974.0	14,588.0	11,989.2	29.1	36.6	-90.98	-1,927.8	900.8	890.2	826.3	63.83	13.945			
14,600.0	11,974.0	14,688.0	11,989.2	29.9	37.2	-90.98	-2,027.8	901.4	890.2	824.9	65.24	13.645			
14,700.0	11,974.0	14,788.0	11,989.2	30.8	37.8	-90.98	-2,127.8	902.0	890.2	823.5	66.67	13.352			
14,800.0	11,974.0	14,888.0	11,989.2	31.6	38.4	-90.98	-2,227.8	902.7	890.2	822.0	68.12	13.066			
14,900.0	11,974.0	14,988.0	11,989.2	32.4	39.0	-90.98	-2,327.8	903.3	890.2	820.6	69.60	12.789			
15,000.0	11,974.0	15,088.0	11,989.2	33.2	39.7	-90.98	-2,427.8	903.9	890.2	819.1	71.10	12.520			
15,100.0	11,974.0	15,188.0	11,989.2	34.1	40.3	-90.98	-2,527.8	904.5	890.2	817.5	72.61	12.259			
15,200.0	11,974.0	15,288.0	11,989.2	34.9	41.0	-90.98	-2,627.8	905.2	890.2	816.0	74.15	12.005			
15,300.0	11,974.0	15,388.0	11,989.2	35.8	41.7	-90.98	-2,727.8	905.8	890.1	814.5	75.70	11.759			
15,400.0	11,974.0	15,488.0	11,989.2	36.6	42.3	-90.98	-2,827.7	906.4	890.1	812.9	77.26	11.521			
15,500.0	11,974.0	15,588.0	11,989.2	37.5	43.0	-90.98	-2,927.7	907.0	890.1	811.3	78.85	11.290			
15,600.0	11,974.0	15,688.0	11,989.2	38.3	43.8	-90.98	-3,027.7	907.7	890.1	809.7	80.44	11.066			
15,700.0	11,974.0	15,788.0	11,989.2	39.2	44.5	-90.98	-3,127.7	908.3	890.1	808.1	82.05	10.849			
15,800.0	11,974.0	15,888.0	11,989.2	40.1	45.2	-90.98	-3,227.7	908.9	890.1	806.5	83.67	10.639			
15,900.0	11,974.0	15,988.0	11,989.2	41.0	46.0	-90.98	-3,327.7	909.5	890.1	804.8	85.30	10.435			
16,000.0	11,974.0	16,088.0	11,989.2	41.8	46.7	-90.98	-3,427.7	910.2	890.1	803.2	86.94	10.238			
16,100.0	11,974.0	16,188.0	11,989.2	42.7	47.5	-90.98	-3,527.7	910.8	890.1	801.5	88.60	10.047			
16,200.0	11,974.0	16,288.0	11,989.2	43.6	48.3	-90.98	-3,627.7	911.4	890.1	799.9	90.26	9.862			
16,300.0	11,974.0	16,388.0	11,989.2	44.5	49.0	-90.98	-3,727.7	912.0	890.1	798.2	91.93	9.683			
16,400.0	11,974.0	16,488.0	11,989.2	45.4	49.8	-90.98	-3,827.7	912.7	890.1	796.5	93.61	9.509			
16,500.0	11,974.0	16,588.0	11,989.2	46.3	50.6	-90.98	-3,927.7	913.3	890.1	794.8	95.30	9.340			
16,600.0	11,974.0	16,688.0	11,989.2	47.2	51.4	-90.98	-4,027.7	913.9	890.1	793.1	97.00	9.177			
16,700.0	11,974.0	16,788.0	11,989.2	48.1	52.2	-90.98	-4,127.7	914.5	890.1	791.4	98.71	9.018			
16,800.0	11,974.0	16,888.0	11,989.2	49.0	53.0	-90.98	-4,227.7	915.2	890.1	789.7	100.42	8.864			
16,900.0	11,974.0	16,988.0	11,989.2	49.9	53.9	-90.98	-4,327.7	915.8	890.1	788.0	102.14	8.715			
17,000.0	11,974.0	17,088.0	11,989.2	50.8	54.7	-90.98	-4,427.7	916.4	890.1	786.3	103.86	8.570			
17,100.0	11,974.0	17,188.0	11,989.2	51.7	55.5	-90.98	-4,527.7	917.0	890.1	784.5	105.59	8.430			
17,200.0	11,974.0	17,288.0	11,989.2	52.7	56.3	-90.98	-4,627.7	917.7	890.1	782.8	107.33	8.294			
17,300.0	11,974.0	17,388.0	11,989.2	53.6	57.2	-90.98	-4,727.7	918.3	890.1	781.1	109.07	8.161			
17,400.0	11,974.0	17,488.0	11,989.2	54.5	58.0	-90.98	-4,827.7	918.9	890.1	779.3	110.82	8.032			
17,500.0	11,974.0	17,588.0	11,989.2	55.4	58.9	-90.98	-4,927.7	919.5	890.1	777.6	112.57	7.907			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWPO													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		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (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	
17,600.0	11,974.0	17,688.0	11,989.2	56.3	59.7	-90.98	-90.98	-90.98	-5,027.7	920.2	890.1	775.8	114.33	7.786		
17,700.0	11,974.0	17,788.0	11,989.2	57.2	60.6	-90.98	-90.98	-90.98	-5,127.7	920.8	890.1	774.0	116.09	7.668		
17,800.0	11,974.0	17,888.0	11,989.2	58.2	61.4	-90.98	-90.98	-90.98	-5,227.7	921.4	890.1	772.3	117.86	7.553		
17,900.0	11,974.0	17,988.0	11,989.2	59.1	62.3	-90.98	-90.98	-90.98	-5,327.7	922.0	890.1	770.5	119.63	7.441		
18,000.0	11,974.0	18,088.0	11,989.2	60.0	63.2	-90.98	-90.98	-90.98	-5,427.7	922.7	890.1	768.7	121.40	7.332		
18,100.0	11,974.0	18,188.0	11,989.2	60.9	64.0	-90.98	-90.98	-90.98	-5,527.7	923.3	890.1	766.9	123.18	7.226		
18,200.0	11,974.0	18,288.0	11,989.2	61.9	64.9	-90.98	-90.98	-90.98	-5,627.7	923.9	890.1	765.2	124.96	7.123		
18,300.0	11,974.0	18,388.0	11,989.2	62.8	65.8	-90.98	-90.98	-90.98	-5,727.7	924.6	890.1	763.4	126.75	7.023		
18,400.0	11,974.0	18,488.0	11,989.2	63.7	66.6	-90.98	-90.98	-90.98	-5,827.7	925.2	890.1	761.6	128.54	6.925		
18,500.0	11,974.0	18,588.0	11,989.2	64.7	67.5	-90.98	-90.98	-90.98	-5,927.7	925.8	890.1	759.8	130.33	6.830		
18,600.0	11,974.0	18,688.0	11,989.2	65.6	68.4	-90.98	-90.98	-90.98	-6,027.7	926.4	890.1	758.0	132.12	6.737		
18,700.0	11,974.0	18,788.0	11,989.2	66.5	69.3	-90.98	-90.98	-90.98	-6,127.7	927.1	890.1	756.2	133.92	6.647		
18,800.0	11,974.0	18,888.0	11,989.2	67.5	70.2	-90.98	-90.98	-90.98	-6,227.7	927.7	890.1	754.4	135.72	6.558		
18,900.0	11,974.0	18,988.0	11,989.2	68.4	71.1	-90.98	-90.98	-90.98	-6,327.7	928.3	890.1	752.6	137.52	6.472		
19,000.0	11,974.0	19,088.0	11,989.2	69.3	71.9	-90.98	-90.98	-90.98	-6,427.7	928.9	890.1	750.8	139.33	6.389		
19,100.0	11,974.0	19,188.0	11,989.2	70.3	72.8	-90.98	-90.98	-90.98	-6,527.7	929.6	890.1	749.0	141.14	6.307		
19,200.0	11,974.0	19,288.0	11,989.2	71.2	73.7	-90.98	-90.98	-90.98	-6,627.7	930.2	890.1	747.2	142.95	6.227		
19,300.0	11,974.0	19,388.0	11,989.2	72.1	74.6	-90.98	-90.98	-90.98	-6,727.7	930.8	890.1	745.4	144.76	6.149		
19,400.0	11,974.0	19,488.0	11,989.2	73.1	75.5	-90.98	-90.98	-90.98	-6,827.7	931.4	890.1	743.5	146.58	6.073		
19,500.0	11,974.0	19,588.0	11,989.2	74.0	76.4	-90.98	-90.98	-90.98	-6,927.7	932.1	890.1	741.7	148.39	5.998		
19,600.0	11,974.0	19,688.0	11,989.2	75.0	77.3	-90.98	-90.98	-90.98	-7,027.7	932.7	890.1	739.9	150.21	5.926		
19,641.2	11,974.0	19,729.2	11,989.2	75.3	77.6	-90.98	-90.98	-90.98	-7,068.8	932.9	890.1	739.2	150.87	5.900		
19,658.5	11,974.0	19,746.4	11,989.2	75.5	77.8	-90.98	-90.98	-90.98	-7,086.0	933.0	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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWPO														Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR														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	89.65	0.4	60.0	60.0	60.0	53.4	6.56	9.146				
100.0	100.0	100.2	100.0	3.1	3.1	89.65	0.4	60.0	60.0	60.0	53.1	6.91	8.686				
200.0	200.0	200.2	200.0	3.3	3.2	89.65	0.4	60.0	60.0	60.0	52.8	7.24	8.289				
300.0	300.0	300.2	300.0	3.6	3.3	89.65	0.4	60.0	60.0	60.0	52.4	7.56	7.941				
400.0	400.0	400.2	400.0	3.8	3.4	89.65	0.4	60.0	60.0	60.0	52.1	7.86	7.632				
500.0	500.0	500.2	500.0	4.0	3.6	89.65	0.4	60.0	60.0	60.0	51.8	8.16	7.356				
600.0	600.0	600.2	600.0	4.1	3.7	89.65	0.4	60.0	60.0	60.0	51.6	8.44	7.107				
700.0	700.0	700.2	700.0	4.3	3.8	89.65	0.4	60.0	60.0	60.0	51.3	8.72	6.881				
800.0	800.0	800.2	800.0	4.5	3.9	89.65	0.4	60.0	60.0	60.0	51.0	8.99	6.674				
900.0	900.0	900.2	900.0	4.7	4.0	89.65	0.4	60.0	60.0	60.0	50.7	9.25	6.484				
1,000.0	1,000.0	1,000.2	1,000.0	4.8	4.2	89.65	0.4	60.0	60.0	60.0	50.5	9.51	6.309				
1,100.0	1,100.0	1,100.2	1,100.0	5.0	4.3	89.65	0.4	60.0	60.0	60.0	50.2	9.76	6.147				
1,200.0	1,200.0	1,200.2	1,200.0	5.2	4.4	89.65	0.4	60.0	60.0	60.0	50.0	10.01	5.996				
1,300.0	1,300.0	1,300.2	1,300.0	5.3	4.5	89.65	0.4	60.0	60.0	60.0	49.8	10.25	5.855				
1,400.0	1,400.0	1,400.2	1,400.0	5.5	4.6	89.65	0.4	60.0	60.0	60.0	49.5	10.48	5.723				
1,500.0	1,500.0	1,500.2	1,500.0	5.6	4.8	89.65	0.4	60.0	60.0	60.0	49.3	10.72	5.599				
1,600.0	1,600.0	1,600.2	1,600.0	5.8	4.9	89.65	0.4	60.0	60.0	60.0	49.1	10.95	5.482				
1,700.0	1,700.0	1,700.2	1,700.0	5.9	5.0	89.65	0.4	60.0	60.0	60.0	48.8	11.17	5.371				
1,800.0	1,800.0	1,800.2	1,800.0	6.0	5.1	89.65	0.4	60.0	60.0	60.0	48.6	11.39	5.267				
1,900.0	1,900.0	1,900.2	1,900.0	6.2	5.2	89.65	0.4	60.0	60.0	60.0	48.5	11.54	5.201 CC				
1,966.6	1,966.6	1,966.8	1,966.6	6.3	5.3	89.65	0.4	60.0	60.0	60.0	48.4	11.61	5.168 ES				
2,000.0	2,000.0	2,000.0	1,999.8	6.3	5.3	89.65	0.4	60.0	60.0	60.0	48.5	11.82	5.104				
2,100.0	2,100.0	2,099.8	2,099.6	6.5	5.5	90.56	1.6	60.3	60.4	60.4	49.3	12.10	5.079 SF				
2,200.0	2,199.8	2,199.4	2,199.1	6.8	5.6	91.89	5.4	61.3	61.4	61.4	51.1	12.30	5.158				
2,300.0	2,299.5	2,298.4	2,297.9	7.0	5.7	94.04	11.5	63.1	63.4	63.4	55.8	12.59	5.434				
2,400.0	2,398.7	2,396.1	2,395.3	7.2	5.9	97.51	18.9	67.5	68.4	68.4	58.5	12.67	5.620				
2,436.2	2,434.5	2,431.4	2,430.4	7.3	5.9	99.00	21.8	69.9	71.2	71.2	64.4	12.82	6.022				
2,500.0	2,497.6	2,493.4	2,491.9	7.4	6.0	101.37	27.2	75.1	77.2	77.2	76.1	13.11	6.809				
2,600.0	2,596.4	2,590.2	2,587.6	7.6	6.2	103.51	36.4	85.7	89.2	89.2	90.8	13.38	7.788				
2,700.0	2,695.3	2,686.3	2,682.2	7.9	6.4	104.18	46.5	99.3	104.2	104.2	108.3	13.64	8.941				
2,800.0	2,794.1	2,781.5	2,775.3	8.1	6.5	103.89	57.3	115.7	122.0	122.0	128.6	13.90	10.253				
2,900.0	2,892.9	2,875.6	2,866.7	8.4	6.7	103.01	68.9	134.9	142.5	142.5	151.1	14.17	11.666				
3,000.0	2,991.8	2,971.7	2,959.5	8.7	6.9	101.92	81.3	156.8	165.3	165.3	173.7	14.44	13.031				
3,100.0	3,090.6	3,069.0	3,053.4	9.0	7.0	101.07	94.0	179.0	188.1	188.1	196.3	14.72	14.341				
3,200.0	3,189.5	3,166.3	3,147.3	9.3	7.2	100.39	106.7	201.2	211.0	211.0	219.0	15.00	15.598				
3,300.0	3,288.3	3,263.6	3,241.2	9.6	7.3	99.85	119.3	223.4	234.0	234.0	241.6	15.29	16.804				
3,400.0	3,387.2	3,360.9	3,335.1	10.0	7.5	99.41	132.0	245.6	256.9	256.9	264.3	15.58	17.962				
3,500.0	3,486.0	3,458.3	3,429.0	10.3	7.7	99.04	144.6	267.9	279.9	279.9	287.0	15.88	19.073				
3,600.0	3,584.8	3,555.6	3,522.9	10.7	7.8	98.72	157.3	290.1	302.9	302.9	309.7	16.18	20.140				
3,700.0	3,683.7	3,652.9	3,616.7	11.0	8.0	98.45	169.9	312.3	325.8	325.8	332.3	16.48	21.164				
3,800.0	3,782.5	3,750.2	3,710.6	11.4	8.2	98.22	182.6	334.5	348.8	348.8	355.0	16.79	22.147				
3,900.0	3,881.4	3,847.5	3,804.5	11.7	8.3	98.01	195.2	356.8	371.8	371.8	377.7	17.10	23.092				
4,000.0	3,980.2	3,944.8	3,898.4	12.1	8.5	97.83	207.9	379.0	394.8	394.8	400.4	17.41	23.999				
4,100.0	4,079.1	4,042.1	3,992.3	12.5	8.7	97.67	220.6	401.2	417.8	417.8	423.1	17.72	24.871				
4,200.0	4,177.9	4,139.4	4,086.2	12.9	8.9	97.52	233.2	423.4	440.8	440.8	445.8	18.04	25.710				
4,300.0	4,276.8	4,236.8	4,180.1	13.3	9.1	97.39	245.9	445.7	463.8	463.8	468.5	18.36	26.516				
4,400.0	4,375.6	4,334.1	4,274.0	13.6	9.2	97.27	258.5	467.9	486.8	486.8	491.1	18.68	27.292				
4,500.0	4,474.4	4,431.4	4,367.9	14.0	9.4	97.17	271.2	490.1	509.8	509.8	513.8	19.00	28.039				
4,600.0	4,573.3	4,528.7	4,461.8	14.4	9.6	97.07	283.8	512.3	532.8	532.8	536.5	19.33	28.758				
4,700.0	4,672.1	4,626.0	4,555.7	14.8	9.8	96.98	296.5	534.5	555.8	555.8	559.2	19.66	29.450				
4,800.0	4,771.0	4,723.3	4,649.6	15.2	10.0	96.90	309.1	556.8	578.8	578.8							

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWPO													Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:		3.0 usft
Reference: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR													Rule Assigned:		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
4,900.0	4,869.8	4,820.6	4,743.5	15.6	10.2	96.82	321.8	579.0	601.9	581.9	19.98	30.118			
5,000.0	4,968.7	4,918.0	4,837.4	16.0	10.4	96.75	334.5	601.2	624.9	604.6	20.31	30.761			
5,100.0	5,067.5	5,015.3	4,931.2	16.4	10.6	96.68	347.1	623.4	647.9	627.2	20.65	31.381			
5,200.0	5,166.3	5,112.6	5,025.1	16.9	10.8	96.62	359.8	645.7	670.9	649.9	20.98	31.980			
5,300.0	5,265.2	5,209.9	5,119.0	17.3	11.0	96.56	372.4	667.9	693.9	672.6	21.31	32.557			
5,400.0	5,364.0	5,307.2	5,212.9	17.7	11.2	96.51	385.1	690.1	716.9	695.3	21.65	33.115			
5,500.0	5,462.9	5,404.5	5,306.8	18.1	11.4	96.46	397.7	712.3	739.9	718.0	21.99	33.653			
5,600.0	5,561.7	5,501.8	5,400.7	18.5	11.6	96.41	410.4	734.5	763.0	740.6	22.33	34.173			
5,700.0	5,660.6	5,599.1	5,494.6	18.9	11.8	96.37	423.0	756.8	786.0	763.3	22.67	34.676			
5,800.0	5,759.4	5,696.5	5,588.5	19.3	12.0	96.33	435.7	779.0	809.0	786.0	23.01	35.163			
5,900.0	5,858.2	5,793.8	5,682.4	19.7	12.2	96.29	448.4	801.2	832.0	808.7	23.35	35.633			
6,000.0	5,957.1	5,891.1	5,776.3	20.2	12.4	96.25	461.0	823.4	855.0	831.3	23.69	36.088			
6,100.0	6,055.9	5,988.4	5,870.2	20.6	12.6	96.21	473.7	845.7	878.0	854.0	24.04	36.529			
6,200.0	6,154.8	6,085.7	5,964.1	21.0	12.8	96.18	486.3	867.9	901.1	876.7	24.38	36.955			
6,300.0	6,253.6	6,183.0	6,058.0	21.4	13.1	96.15	499.0	890.1	924.1	899.4	24.73	37.369			
6,400.0	6,352.5	6,280.3	6,151.9	21.9	13.3	96.12	511.6	912.3	947.1	922.0	25.08	37.769			
6,500.0	6,451.3	6,377.7	6,245.7	22.3	13.5	96.09	524.3	934.5	970.1	944.7	25.42	38.157			
6,600.0	6,550.1	6,475.0	6,339.6	22.7	13.7	96.06	536.9	956.8	993.1	967.4	25.77	38.534			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWPO														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	0.8	0.0	3.0	3.0	89.64	0.5	80.0	80.0						
100.0	100.0	100.8	100.0	3.1	3.1	89.64	0.5	80.0	80.0	73.4	6.62	12.081			
200.0	200.0	200.8	200.0	3.3	3.3	89.64	0.5	80.0	80.0	72.9	7.07	11.311			
300.0	300.0	300.8	300.0	3.6	3.6	89.64	0.5	80.0	80.0	72.5	7.50	10.669			
400.0	400.0	400.8	400.0	3.8	3.8	89.64	0.5	80.0	80.0	72.1	7.90	10.123			
500.0	500.0	500.8	500.0	4.0	4.0	89.64	0.5	80.0	80.0	71.7	8.29	9.651			
600.0	600.0	600.8	600.0	4.1	4.1	89.64	0.5	80.0	80.0	71.3	8.66	9.236			
700.0	700.0	700.8	700.0	4.3	4.3	89.64	0.5	80.0	80.0	71.0	9.02	8.869			
800.0	800.0	800.8	800.0	4.5	4.5	89.64	0.5	80.0	80.0	70.6	9.37	8.540			
900.0	900.0	900.8	900.0	4.7	4.7	89.64	0.5	80.0	80.0	70.3	9.70	8.244			
1,000.0	1,000.0	1,000.8	1,000.0	4.8	4.8	89.64	0.5	80.0	80.0	70.0	10.03	7.975			
1,100.0	1,100.0	1,100.8	1,100.0	5.0	5.0	89.64	0.5	80.0	80.0	69.7	10.35	7.729			
1,200.0	1,200.0	1,200.8	1,200.0	5.2	5.2	89.64	0.5	80.0	80.0	69.3	10.66	7.503			
1,300.0	1,300.0	1,300.8	1,300.0	5.3	5.3	89.64	0.5	80.0	80.0	69.0	10.97	7.294			
1,400.0	1,400.0	1,400.8	1,400.0	5.5	5.5	89.64	0.5	80.0	80.0	68.7	11.27	7.100			
1,500.0	1,500.0	1,500.8	1,500.0	5.6	5.6	89.64	0.5	80.0	80.0	68.4	11.56	6.920			
1,600.0	1,600.0	1,600.8	1,600.0	5.8	5.8	89.64	0.5	80.0	80.0	68.2	11.85	6.752			
1,700.0	1,700.0	1,700.8	1,700.0	5.9	5.9	89.64	0.5	80.0	80.0	67.9	12.13	6.595			
1,800.0	1,800.0	1,800.8	1,800.0	6.0	6.0	89.64	0.5	80.0	80.0	67.6	12.41	6.447			
1,900.0	1,900.0	1,900.8	1,900.0	6.2	6.2	89.64	0.5	80.0	80.0	67.3	12.68	6.307			
1,966.4	1,966.4	1,967.2	1,966.4	6.3	6.3	89.64	0.5	80.0	80.0	67.1	12.86	6.219 CC			
2,000.0	2,000.0	2,000.8	2,000.0	6.3	6.3	89.64	0.5	80.0	80.0	67.0	12.95	6.176 ES			
2,100.0	2,100.0	2,100.4	2,099.5	6.5	6.5	92.27	-0.8	80.2	80.3	67.1	13.20	6.082 SF			
2,200.0	2,199.8	2,199.4	2,198.5	6.8	6.6	98.53	-4.6	80.9	81.8	68.4	13.43	6.091			
2,300.0	2,299.5	2,297.4	2,296.3	7.0	6.8	108.10	-10.9	82.0	86.4	72.7	13.69	6.313			
2,400.0	2,398.7	2,394.1	2,392.7	7.2	6.8	118.70	-18.6	83.9	96.3	82.4	13.95	6.904			
2,436.2	2,434.5	2,429.1	2,427.6	7.3	6.9	122.01	-21.0	85.2	101.4	87.3	14.05	7.215			
2,500.0	2,497.6	2,490.9	2,489.2	7.4	7.0	126.87	-24.5	88.2	111.5	97.3	14.26	7.822			
2,600.0	2,596.4	2,588.2	2,586.1	7.6	7.2	131.73	-28.3	95.0	129.1	114.4	14.66	8.802			
2,700.0	2,695.3	2,685.8	2,683.3	7.9	7.4	134.12	-29.9	104.3	147.5	132.4	15.08	9.781			
2,800.0	2,794.1	2,783.6	2,780.4	8.1	7.5	134.83	-29.3	116.1	166.3	150.9	15.48	10.744			
2,900.0	2,892.9	2,881.3	2,877.0	8.4	7.7	134.34	-26.6	130.4	185.4	169.6	15.86	11.692			
3,000.0	2,991.8	2,978.7	2,972.8	8.7	7.9	133.00	-21.6	147.1	204.8	188.6	16.22	12.628			
3,100.0	3,090.6	3,075.6	3,067.6	9.0	8.1	131.05	-14.6	166.1	224.7	208.2	16.57	13.563			
3,200.0	3,189.5	3,171.9	3,161.0	9.3	8.3	128.66	-5.5	187.4	245.4	228.5	16.88	14.540			
3,300.0	3,288.3	3,269.0	3,255.0	9.6	8.6	126.34	4.6	209.8	266.7	249.5	17.21	15.495			
3,400.0	3,387.2	3,366.2	3,349.0	10.0	8.8	124.36	14.7	232.2	288.4	270.8	17.58	16.403			
3,500.0	3,486.0	3,463.4	3,443.0	10.3	9.1	122.66	24.7	254.7	310.4	292.4	17.97	17.273			
3,600.0	3,584.8	3,560.5	3,537.0	10.7	9.4	121.18	34.8	277.1	332.6	314.2	18.37	18.105			
3,700.0	3,683.7	3,657.7	3,631.0	11.0	9.7	119.88	44.8	299.5	354.9	336.2	18.78	18.902			
3,800.0	3,782.5	3,754.9	3,725.1	11.4	10.1	118.74	54.9	322.0	377.5	358.2	19.22	19.641			
3,900.0	3,881.4	3,852.1	3,819.1	11.7	10.4	117.73	65.0	344.4	400.1	380.5	19.66	20.356			
4,000.0	3,980.2	3,949.2	3,913.1	12.1	10.7	116.83	75.0	366.8	422.9	402.8	20.11	21.032			
4,100.0	4,079.1	4,046.4	4,007.1	12.5	11.1	116.02	85.1	389.3	445.7	425.2	20.57	21.670			
4,200.0	4,177.9	4,143.6	4,101.1	12.9	11.5	115.28	95.1	411.7	468.7	447.6	21.04	22.274			
4,300.0	4,276.8	4,240.7	4,195.1	13.3	11.8	114.62	105.2	434.1	491.7	470.1	21.52	22.845			
4,400.0	4,375.6	4,337.9	4,289.1	13.6	12.2	114.01	115.3	456.6	514.7	492.7	22.01	23.385			
4,500.0	4,474.4	4,435.1	4,383.1	14.0	12.6	113.46	125.3	479.0	537.8	515.3	22.51	23.894			
4,600.0	4,573.3	4,532.2	4,477.1	14.4	13.0	112.95	135.4	501.4	561.0	537.9	23.01	24.376			
4,700.0	4,672.1	4,629.4	4,571.1	14.8	13.4	112.48	145.4	523.9	584.1	560.6	23.52	24.832			
4,800.0	4,771.0	4,726.6	4,665.1	15.2	13.8	112.05	155.5	546.3	607.4	583.3	24.04	25.263			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWPO													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		Rule Assigned: Distance			Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)				
4,900.0	4,869.8	4,823.7	4,759.1	15.6	14.2	111.65	165.6	568.7	630.6	606.0	24.56	25.671			
5,000.0	4,968.7	4,920.9	4,853.1	16.0	14.6	111.28	175.6	591.1	653.9	628.8	25.09	26.058			
5,100.0	5,067.5	5,018.1	4,947.2	16.4	15.0	110.93	185.7	613.6	677.2	651.5	25.63	26.423			
5,200.0	5,166.3	5,115.3	5,041.2	16.9	15.5	110.61	195.7	636.0	700.5	674.3	26.17	26.770			
5,300.0	5,265.2	5,212.4	5,135.2	17.3	15.9	110.31	205.8	658.4	723.8	697.1	26.71	27.099			
5,400.0	5,364.0	5,309.6	5,229.2	17.7	16.3	110.02	215.9	680.9	747.2	719.9	27.26	27.411			
5,500.0	5,462.9	5,406.8	5,323.2	18.1	16.7	109.76	225.9	703.3	770.6	742.8	27.81	27.707			
5,600.0	5,561.7	5,503.9	5,417.2	18.5	17.2	109.50	236.0	725.7	794.0	765.6	28.37	27.989			
5,700.0	5,660.6	5,601.1	5,511.2	18.9	17.6	109.27	246.0	748.2	817.4	788.4	28.93	28.256			
5,800.0	5,759.4	5,698.3	5,605.2	19.3	18.0	109.05	256.1	770.6	840.8	811.3	29.49	28.511			
5,900.0	5,858.2	5,795.4	5,699.2	19.7	18.5	108.83	266.2	793.0	864.2	834.1	30.06	28.753			
6,000.0	5,957.1	5,892.6	5,793.2	20.2	18.9	108.63	276.2	815.5	887.6	857.0	30.63	28.984			
6,100.0	6,055.9	5,989.8	5,887.2	20.6	19.4	108.44	286.3	837.9	911.1	879.9	31.20	29.204			
6,200.0	6,154.8	6,086.9	5,981.2	21.0	19.8	108.26	296.3	860.3	934.5	902.8	31.77	29.414			
6,300.0	6,253.6	6,184.1	6,075.2	21.4	20.3	108.09	306.4	882.8	958.0	925.7	32.35	29.614			
6,400.0	6,352.5	6,281.3	6,169.3	21.9	20.7	107.93	316.5	905.2	981.5	948.6	32.93	29.806			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWPO														Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 MWD+IFR1														Rule Assigned:		Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)							
0.0	0.0	1.0	0.0	3.0	3.0	89.64	0.6	100.0	100.0								
100.0	100.0	101.0	100.0	3.1	3.1	89.64	0.6	100.0	100.0	93.4	6.62	15.101					
200.0	200.0	201.0	200.0	3.3	3.3	89.64	0.6	100.0	100.0	92.9	7.07	14.138					
300.0	300.0	301.0	300.0	3.6	3.6	89.64	0.6	100.0	100.0	92.5	7.50	13.336					
400.0	400.0	401.0	400.0	3.8	3.8	89.64	0.6	100.0	100.0	92.1	7.90	12.653					
500.0	500.0	501.0	500.0	4.0	4.0	89.64	0.6	100.0	100.0	91.7	8.29	12.063					
600.0	600.0	601.0	600.0	4.1	4.1	89.64	0.6	100.0	100.0	91.3	8.66	11.545					
700.0	700.0	701.0	700.0	4.3	4.3	89.64	0.6	100.0	100.0	91.0	9.02	11.086					
800.0	800.0	801.0	800.0	4.5	4.5	89.64	0.6	100.0	100.0	90.6	9.37	10.675					
900.0	900.0	901.0	900.0	4.7	4.7	89.64	0.6	100.0	100.0	90.3	9.70	10.305					
1,000.0	1,000.0	1,001.0	1,000.0	4.8	4.8	89.64	0.6	100.0	100.0	90.0	10.03	9.968					
1,100.0	1,100.0	1,101.0	1,100.0	5.0	5.0	89.64	0.6	100.0	100.0	89.7	10.35	9.661					
1,200.0	1,200.0	1,201.0	1,200.0	5.2	5.2	89.64	0.6	100.0	100.0	89.3	10.66	9.378					
1,300.0	1,300.0	1,301.0	1,300.0	5.3	5.3	89.64	0.6	100.0	100.0	89.0	10.97	9.117					
1,400.0	1,400.0	1,401.0	1,400.0	5.5	5.5	89.64	0.6	100.0	100.0	88.7	11.27	8.875					
1,500.0	1,500.0	1,501.0	1,500.0	5.6	5.6	89.64	0.6	100.0	100.0	88.4	11.56	8.650					
1,600.0	1,600.0	1,601.0	1,600.0	5.8	5.8	89.64	0.6	100.0	100.0	88.2	11.85	8.440					
1,700.0	1,700.0	1,701.0	1,700.0	5.9	5.9	89.64	0.6	100.0	100.0	87.9	12.13	8.243					
1,800.0	1,800.0	1,801.0	1,800.0	6.0	6.0	89.64	0.6	100.0	100.0	87.6	12.41	8.058					
1,900.0	1,900.0	1,901.0	1,900.0	6.2	6.2	89.64	0.6	100.0	100.0	87.3	12.68	7.884					
1,966.3	1,966.3	1,967.3	1,966.3	6.3	6.3	89.64	0.6	100.0	100.0	87.1	12.86	7.774 CC					
2,000.0	2,000.0	2,001.0	2,000.0	6.3	6.3	89.64	0.6	100.0	100.0	87.0	12.95	7.719 ES					
2,100.0	2,100.0	2,100.0	2,099.0	6.5	6.5	90.17	2.2	100.7	100.7	87.5	13.23	7.612					
2,200.0	2,199.8	2,198.2	2,197.1	6.8	6.8	90.38	6.9	102.7	102.8	89.3	13.50	7.615					
2,300.0	2,299.5	2,296.8	2,295.2	7.0	7.0	90.72	14.8	106.0	106.2	92.4	13.76	7.720					
2,400.0	2,398.7	2,395.2	2,393.0	7.2	7.2	91.17	25.7	110.6	111.0	97.0	14.02	7.920					
2,436.2	2,434.5	2,430.9	2,428.3	7.3	7.3	91.35	30.4	112.6	113.1	99.0	14.09	8.027					
2,500.0	2,497.6	2,493.6	2,490.2	7.4	7.5	91.43	39.7	116.5	117.2	102.9	14.23	8.232					
2,600.0	2,596.4	2,593.1	2,588.2	7.6	7.7	90.88	55.8	123.4	124.1	109.6	14.49	8.563					
2,700.0	2,695.3	2,692.9	2,686.3	7.9	8.0	90.38	72.0	130.2	131.1	116.3	14.77	8.876					
2,800.0	2,794.1	2,792.6	2,784.5	8.1	8.3	89.93	88.1	137.0	138.1	123.0	15.05	9.174					
2,900.0	2,892.9	2,892.4	2,882.7	8.4	8.5	89.52	104.3	143.9	145.1	129.7	15.34	9.457					
3,000.0	2,991.8	2,992.1	2,980.9	8.7	8.8	89.15	120.5	150.7	152.1	136.5	15.64	9.726					
3,100.0	3,090.6	3,091.9	3,079.1	9.0	9.1	88.82	136.7	157.6	159.1	143.2	15.94	9.982					
3,200.0	3,189.5	3,191.6	3,177.3	9.3	9.4	88.51	152.8	164.4	166.1	149.9	16.25	10.225					
3,300.0	3,288.3	3,291.4	3,275.5	9.6	9.8	88.22	169.0	171.3	173.1	156.6	16.56	10.455					
3,400.0	3,387.2	3,391.1	3,373.7	10.0	10.1	87.96	185.2	178.1	180.2	163.3	16.88	10.674					
3,500.0	3,486.0	3,490.9	3,471.9	10.3	10.5	87.72	201.3	185.0	187.2	170.0	17.20	10.882					
3,600.0	3,584.8	3,590.6	3,570.1	10.7	10.8	87.50	217.5	191.8	194.2	176.7	17.53	11.078					
3,700.0	3,683.7	3,690.4	3,668.3	11.0	11.2	87.29	233.7	198.7	201.3	183.4	17.87	11.265					
3,800.0	3,782.5	3,790.1	3,766.4	11.4	11.5	87.09	249.9	205.5	208.3	190.1	18.20	11.442					
3,900.0	3,881.4	3,889.9	3,864.6	11.7	11.9	86.91	266.0	212.3	215.3	196.8	18.55	11.610					
4,000.0	3,980.2	3,989.6	3,962.8	12.1	12.3	86.74	282.2	219.2	222.4	203.5	18.89	11.769					
4,100.0	4,079.1	4,089.4	4,061.0	12.5	12.7	86.58	298.4	226.0	229.4	210.2	19.25	11.920					
4,200.0	4,177.9	4,189.1	4,159.2	12.9	13.1	86.43	314.6	232.9	236.5	216.9	19.60	12.064					
4,300.0	4,276.8	4,288.9	4,257.4	13.3	13.5	86.29	330.7	239.7	243.5	223.5	19.96	12.200					
4,400.0	4,375.6	4,388.6	4,355.6	13.6	13.9	86.16	346.9	246.6	250.6	230.2	20.32	12.329					
4,500.0	4,474.4	4,488.4	4,453.8	14.0	14.3	86.03	363.1	253.4	257.6	236.9	20.69	12.452					
4,600.0	4,573.3	4,588.1	4,552.0	14.4	14.7	85.91	379.2	260.3	264.6	243.6	21.06	12.569					
4,700.0	4,672.1	4,687.9	4,650.2	14.8	15.1	85.80	395.4	267.1	271.7	250.3	21.43	12.680					
4,800.0	4,771.0	4,787.6	4,748.4	15.2	15.5	85.69	411.6	274.0	278.8	256.9	21.80	12.786					

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWPO														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		Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)				
4,900.0	4,869.8	4,887.4	4,846.6	15.6	15.9	85.59	427.8	280.8	285.8	263.6	22.18	12.886			
5,000.0	4,968.7	4,987.1	4,944.7	16.0	16.3	85.49	443.9	287.6	292.9	270.3	22.56	12.982			
5,100.0	5,067.5	5,086.9	5,042.9	16.4	16.7	85.40	460.1	294.5	299.9	277.0	22.94	13.073			
5,200.0	5,166.3	5,186.6	5,141.1	16.9	17.2	85.31	476.3	301.3	307.0	283.6	23.33	13.160			
5,300.0	5,265.2	5,286.4	5,239.3	17.3	17.6	85.22	492.5	308.2	314.0	290.3	23.71	13.242			
5,400.0	5,364.0	5,386.1	5,337.5	17.7	18.0	85.14	508.6	315.0	321.1	297.0	24.10	13.321			
5,500.0	5,462.9	5,485.9	5,435.7	18.1	18.4	85.07	524.8	321.9	328.1	303.6	24.49	13.397			
5,600.0	5,561.7	5,585.6	5,533.9	18.5	18.9	84.99	541.0	328.7	335.2	310.3	24.89	13.469			
5,700.0	5,660.6	5,685.4	5,632.1	18.9	19.3	84.92	557.1	335.6	342.2	317.0	25.28	13.537			
5,800.0	5,759.4	5,785.1	5,730.3	19.3	19.7	84.85	573.3	342.4	349.3	323.6	25.68	13.603			
5,900.0	5,858.2	5,884.9	5,828.5	19.7	20.1	84.79	589.5	349.3	356.4	330.3	26.08	13.666			
6,000.0	5,957.1	5,984.6	5,926.7	20.2	20.6	84.72	605.7	356.1	363.4	336.9	26.48	13.726			
6,100.0	6,055.9	6,084.4	6,024.9	20.6	21.0	84.66	621.8	363.0	370.5	343.6	26.88	13.783			
6,200.0	6,154.8	6,184.1	6,123.0	21.0	21.4	84.61	638.0	369.8	377.5	350.3	27.28	13.838			
6,300.0	6,253.6	6,283.9	6,221.2	21.4	21.9	84.55	654.2	376.6	384.6	356.9	27.69	13.891			
6,400.0	6,352.5	6,383.6	6,319.4	21.9	22.3	84.50	670.4	383.5	391.7	363.6	28.09	13.941			
6,500.0	6,451.3	6,483.4	6,417.6	22.3	22.8	84.44	686.5	390.3	398.7	370.2	28.50	13.990			
6,600.0	6,550.1	6,583.1	6,515.8	22.7	23.2	84.39	702.7	397.2	405.8	376.9	28.91	14.036			
6,681.7	6,630.9	6,664.6	6,596.1	23.0	23.5	84.35	715.9	402.8	411.6	382.3	29.24	14.077			
6,700.0	6,649.0	6,682.9	6,614.0	23.1	23.6	84.35	718.9	404.0	412.9	383.5	29.30	14.089			
6,800.0	6,748.0	6,782.6	6,712.2	23.5	24.1	84.22	735.0	410.9	420.0	390.3	29.76	14.113			
6,900.0	6,847.2	6,882.3	6,810.3	23.9	24.5	83.85	751.2	417.7	427.4	397.1	30.27	14.121			
7,000.0	6,946.7	6,981.9	6,908.3	24.3	24.9	83.28	767.4	424.5	435.0	404.2	30.83	14.108			
7,100.0	7,046.3	7,081.3	7,006.3	24.7	25.4	82.51	783.5	431.4	442.9	411.4	31.47	14.075			
7,200.0	7,146.0	7,180.7	7,104.0	25.1	25.8	81.55	799.6	438.2	451.1	418.9	32.17	14.023			
7,300.0	7,245.9	7,279.8	7,201.6	25.4	26.3	80.43	815.7	445.0	459.8	426.8	32.95	13.953			
7,400.0	7,345.8	7,378.8	7,299.0	25.7	26.7	79.15	831.7	451.8	468.9	435.1	33.81	13.869			
7,500.0	7,445.8	7,477.5	7,396.2	26.0	27.1	77.72	847.7	458.6	478.8	444.0	34.76	13.774			
7,554.2	7,500.0	7,530.9	7,448.8	26.1	27.4	76.44	856.4	462.2	484.4	449.1	35.28	13.729			
7,600.0	7,545.8	7,576.1	7,493.3	26.1	27.6	75.68	863.7	465.3	489.3	453.5	35.73	13.693			
7,700.0	7,645.8	7,680.3	7,596.1	26.1	28.0	74.09	879.7	472.1	499.6	462.9	36.73	13.603			
7,800.0	7,745.8	7,785.1	7,699.7	26.2	28.5	72.72	894.0	478.2	509.1	471.5	37.66	13.520			
7,900.0	7,845.8	7,890.5	7,804.1	26.2	28.9	71.55	906.7	483.5	517.7	479.2	38.51	13.444			
8,000.0	7,945.8	7,996.3	7,909.3	26.3	29.4	70.58	917.6	488.1	525.2	485.9	39.27	13.373			
8,100.0	8,045.8	8,102.5	8,015.1	26.3	29.8	69.79	926.8	492.0	531.6	491.6	39.96	13.304			
8,200.0	8,145.8	8,209.1	8,121.3	26.4	30.2	69.16	934.1	495.1	536.8	496.2	40.55	13.237			
8,300.0	8,245.8	8,315.9	8,228.0	26.4	30.5	68.70	939.7	497.5	540.7	499.7	41.06	13.169			
8,400.0	8,345.8	8,422.9	8,334.9	26.5	30.9	68.39	943.5	499.1	543.4	501.9	41.47	13.104			
8,500.0	8,445.8	8,530.1	8,442.0	26.5	31.1	68.24	945.4	499.9	544.7	503.0	41.75	13.047			
8,600.0	8,545.8	8,633.9	8,545.8	26.6	31.2	68.22	945.6	500.0	544.9	503.0	41.88	13.010			
8,700.0	8,645.8	8,733.9	8,645.8	26.6	31.3	68.22	945.6	500.0	544.9	502.9	42.01	12.972			
8,800.0	8,745.8	8,833.9	8,745.8	26.7	31.3	68.22	945.6	500.0	544.9	502.8	42.12	12.937			
8,900.0	8,845.8	8,933.9	8,845.8	26.7	31.4	68.22	945.6	500.0	544.9	502.7	42.23	12.902			
9,000.0	8,945.8	9,033.9	8,945.8	26.8	31.4	68.22	945.6	500.0	544.9	502.6	42.35	12.868			
9,100.0	9,045.8	9,133.9	9,045.8	26.8	31.4	68.22	945.6	500.0	544.9	502.4	42.46	12.833			
9,200.0	9,145.8	9,233.9	9,145.8	26.9	31.5	68.22	945.6	500.0	544.9	502.3	42.58	12.798			
9,300.0	9,245.8	9,333.9	9,245.8	26.9	31.5	68.22	945.6	500.0	544.9	502.2	42.69	12.764			
9,400.0	9,345.8	9,433.9	9,345.8	27.0	31.6	68.22	945.6	500.0	544.9	502.1	42.81	12.729			
9,500.0	9,445.8	9,533.9	9,445.8	27.0	31.6	68.22	945.6	500.0	544.9	502.0	42.92	12.695			
9,600.0	9,545.8	9,633.9	9,545.8	27.1	31.6	68.22	945.6	500.0	544.9	501.9	43.04	12.661			
9,700.0	9,645.8	9,733.9	9,645.8	27.1	31.7	68.22	945.6	500.0	544.9	501.8	43.15	12.627			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWPO														Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 MWD+IFR1														Rule Assigned:		Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)							
9,800.0	9,745.8	9,833.9	9,745.8	27.2	31.7	68.22	945.6	500.0	544.9	501.6	43.27	12.593					
9,900.0	9,845.8	9,933.9	9,845.8	27.2	31.8	68.22	945.6	500.0	544.9	501.5	43.39	12.559					
10,000.0	9,945.8	10,033.9	9,945.8	27.3	31.8	68.22	945.6	500.0	544.9	501.4	43.51	12.525					
10,100.0	10,045.8	10,133.9	10,045.8	27.3	31.9	68.22	945.6	500.0	544.9	501.3	43.62	12.492					
10,200.0	10,145.8	10,233.9	10,145.8	27.4	31.9	68.22	945.6	500.0	544.9	501.2	43.74	12.458					
10,300.0	10,245.8	10,333.9	10,245.8	27.4	31.9	68.22	945.6	500.0	544.9	501.1	43.86	12.424					
10,400.0	10,345.8	10,433.9	10,345.8	27.5	32.0	68.22	945.6	500.0	544.9	500.9	43.98	12.391					
10,500.0	10,445.8	10,533.9	10,445.8	27.5	32.0	68.22	945.6	500.0	544.9	500.8	44.09	12.358					
10,600.0	10,545.8	10,633.9	10,545.8	27.6	32.1	68.22	945.6	500.0	544.9	500.7	44.21	12.325					
10,700.0	10,645.8	10,733.9	10,645.8	27.6	32.1	68.22	945.6	500.0	544.9	500.6	44.33	12.291					
10,800.0	10,745.8	10,833.9	10,745.8	27.7	32.2	68.22	945.6	500.0	544.9	500.5	44.45	12.259					
10,900.0	10,845.8	10,933.9	10,845.8	27.7	32.2	68.22	945.6	500.0	544.9	500.3	44.57	12.226					
11,000.0	10,945.8	11,033.9	10,945.8	27.8	32.2	68.22	945.6	500.0	544.9	500.2	44.69	12.193					
11,100.0	11,045.8	11,133.9	11,045.8	27.8	32.3	68.22	945.6	500.0	544.9	500.1	44.81	12.160					
11,200.0	11,145.8	11,233.9	11,145.8	27.9	32.3	68.22	945.6	500.0	544.9	500.0	44.93	12.128					
11,300.0	11,245.8	11,333.9	11,245.8	27.9	32.4	68.22	945.6	500.0	544.9	499.9	45.05	12.095					
11,400.0	11,345.8	11,433.9	11,345.8	28.0	32.4	68.22	945.6	500.0	544.9	499.7	45.17	12.063					
11,500.0	11,445.8	11,533.9	11,445.8	28.0	32.5	68.22	945.6	500.0	544.9	499.6	45.29	12.031					
11,550.7	11,496.5	11,584.6	11,496.5	28.1	32.5	68.22	945.6	500.0	544.9	499.6	45.35	12.017					
11,575.0	11,520.8	11,608.9	11,520.8	28.0	32.5	-111.46	945.6	500.0	545.1	499.8	45.38	12.012					
11,600.0	11,545.7	11,633.8	11,545.7	27.9	32.5	-111.57	945.6	500.0	545.8	500.4	45.45	12.009					
11,625.0	11,570.5	11,658.6	11,570.5	27.9	32.5	-111.75	945.6	500.0	547.0	501.5	45.57	12.003					
11,650.0	11,595.1	11,683.2	11,595.1	27.8	32.5	-111.99	945.6	500.0	548.8	503.0	45.74	11.997					
11,675.0	11,619.4	11,707.5	11,619.4	27.7	32.5	-112.29	945.6	500.0	551.0	505.0	45.96	11.990					
11,700.0	11,643.4	11,731.5	11,643.4	27.6	32.6	-112.63	945.6	500.0	553.8	507.6	46.21	11.984					
11,725.0	11,667.0	11,755.0	11,667.0	27.5	32.6	-113.00	945.6	500.0	557.2	510.7	46.51	11.980					
11,750.0	11,690.1	11,778.1	11,690.1	27.4	32.6	-113.39	945.6	500.0	561.2	514.3	46.85	11.979					
11,775.0	11,712.7	11,800.7	11,712.7	27.3	32.6	-113.79	945.6	500.0	565.9	518.6	47.22	11.984					
11,800.0	11,734.6	11,822.7	11,734.6	27.2	32.6	-114.17	945.6	500.0	571.2	523.6	47.62	11.996					
11,825.0	11,756.0	11,844.0	11,756.0	27.1	32.6	-114.53	945.6	500.0	577.3	529.3	48.05	12.016					
11,850.0	11,776.6	11,864.7	11,776.6	27.0	32.6	-114.83	945.6	500.0	584.2	535.7	48.50	12.047					
11,875.0	11,796.5	11,884.5	11,796.5	26.9	32.6	-115.07	945.6	500.0	591.9	542.9	48.96	12.090					
11,900.0	11,815.5	11,903.5	11,815.5	26.8	32.6	-115.23	945.6	500.0	600.4	551.0	49.44	12.145					
11,925.0	11,833.6	11,921.7	11,833.6	26.7	32.6	-115.29	945.6	500.0	609.8	559.9	49.92	12.216					
11,950.0	11,850.9	11,938.9	11,850.9	26.6	32.7	-115.22	945.6	500.0	620.0	569.6	50.40	12.302					
11,975.0	11,867.1	11,955.2	11,867.1	26.5	32.7	-115.02	945.6	500.0	631.1	580.2	50.88	12.405					
12,000.0	11,882.4	11,970.4	11,882.4	26.4	32.7	-114.65	945.6	500.0	643.1	591.8	51.35	12.525					
12,025.0	11,896.6	11,984.6	11,896.6	26.3	32.7	-114.11	945.6	500.0	656.0	604.2	51.80	12.662					
12,050.0	11,909.7	11,997.7	11,909.7	26.3	32.7	-113.36	945.6	500.0	669.7	617.4	52.25	12.817					
12,075.0	11,921.6	12,009.7	11,921.6	26.2	32.7	-112.40	945.6	500.0	684.2	631.5	52.67	12.990					
12,100.0	11,932.4	12,852.2	12,449.0	26.1	30.5	-134.86	427.5	455.0	692.0	645.6	46.37	14.923					
12,125.0	11,942.0	12,872.0	12,449.0	26.1	30.5	-135.23	407.7	453.6	683.7	637.4	46.27	14.775					
12,150.0	11,950.4	12,892.3	12,449.0	26.1	30.5	-135.54	387.5	452.4	676.4	630.2	46.19	14.644					
12,175.0	11,957.5	12,912.9	12,449.0	26.0	30.5	-135.80	366.9	451.2	670.2	624.0	46.13	14.529					
12,200.0	11,963.4	12,933.9	12,449.0	26.0	30.5	-136.01	345.9	450.2	665.0	618.9	46.08	14.431					
12,225.0	11,968.0	12,955.1	12,449.0	26.0	30.5	-136.19	324.8	449.4	660.8	614.8	46.05	14.349					
12,250.0	11,971.3	12,976.4	12,449.0	25.9	30.5	-136.32	303.4	448.7	657.8	611.7	46.04	14.286					
12,275.0	11,973.3	13,000.0	12,449.0	25.9	30.5	-136.43	279.8	448.1	655.8	609.7	46.07	14.234					
12,300.0	11,974.0	13,019.5	12,449.0	25.9	30.5	-136.50	260.3	447.8	654.9	608.8	46.09	14.209					
12,300.7	11,974.0	13,020.1	12,449.0	25.9	30.5	-136.50	259.7	447.8	654.9	608.8	46.09	14.209					
12,400.0	11,974.0	13,110.4	12,449.0	25.9	30.6	-136.54	169.4	447.7	654.4	608.1	46.29	14.137					

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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		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)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
12,500.0	11,974.0	13,210.4	12,449.0	25.9	30.6	-136.54	69.4	448.4	654.4	607.8	46.63	14.034			
12,600.0	11,974.0	13,310.4	12,449.0	25.9	30.6	-136.54	-30.6	449.0	654.4	607.4	47.03	13.914			
12,700.0	11,974.0	13,410.4	12,449.0	25.9	30.7	-136.54	-130.6	449.6	654.4	606.9	47.49	13.779			
12,800.0	11,974.0	13,510.4	12,449.0	26.0	30.8	-136.54	-230.6	450.2	654.4	606.4	48.01	13.630			
12,900.0	11,974.0	13,610.4	12,449.0	26.0	30.8	-136.54	-330.6	450.9	654.4	605.8	48.59	13.468			
13,000.0	11,974.0	13,710.4	12,449.0	26.0	30.9	-136.54	-430.6	451.5	654.4	605.2	49.22	13.296			
13,100.0	11,974.0	13,810.4	12,449.0	26.0	31.0	-136.54	-530.6	452.1	654.4	604.5	49.90	13.115			
13,200.0	11,974.0	13,910.4	12,449.0	26.0	31.1	-136.54	-630.5	452.7	654.4	603.8	50.63	12.925			
13,300.0	11,974.0	14,010.4	12,449.0	26.0	31.3	-136.54	-730.5	453.4	654.4	603.0	51.41	12.729			
13,400.0	11,974.0	14,110.4	12,449.0	26.0	31.4	-136.54	-830.5	454.0	654.4	602.2	52.23	12.528			
13,500.0	11,974.0	14,210.4	12,449.0	26.1	31.6	-136.54	-930.5	454.6	654.4	601.3	53.10	12.323			
13,600.0	11,974.0	14,310.4	12,449.0	26.1	31.8	-136.54	-1,030.5	455.2	654.4	600.4	54.01	12.116			
13,700.0	11,974.0	14,410.4	12,449.0	26.1	32.0	-136.54	-1,130.5	455.9	654.4	599.4	54.96	11.906			
13,800.0	11,974.0	14,510.4	12,449.0	26.1	32.2	-136.54	-1,230.5	456.5	654.4	598.4	55.95	11.696			
13,900.0	11,974.0	14,610.4	12,449.0	26.2	32.5	-136.54	-1,330.5	457.1	654.4	597.4	56.97	11.487			
14,000.0	11,974.0	14,710.4	12,449.0	26.2	32.8	-136.54	-1,430.5	457.7	654.4	596.4	58.02	11.278			
14,100.0	11,974.0	14,810.4	12,449.0	26.2	33.1	-136.54	-1,530.5	458.4	654.4	595.3	59.11	11.070			
14,200.0	11,974.0	14,910.4	12,449.0	26.8	33.5	-136.54	-1,630.5	459.0	654.4	594.2	60.23	10.865			
14,300.0	11,974.0	15,010.4	12,449.0	27.6	33.9	-136.54	-1,730.5	459.6	654.4	593.0	61.37	10.662			
14,400.0	11,974.0	15,110.4	12,449.0	28.4	34.3	-136.54	-1,830.5	460.2	654.4	591.8	62.54	10.463			
14,500.0	11,974.0	15,210.4	12,449.0	29.1	34.8	-136.54	-1,930.5	460.9	654.4	590.6	63.74	10.266			
14,600.0	11,974.0	15,310.4	12,449.0	29.9	35.4	-136.54	-2,030.5	461.5	654.4	589.4	64.96	10.073			
14,700.0	11,974.0	15,410.4	12,449.0	30.8	35.9	-136.54	-2,130.5	462.1	654.4	588.2	66.21	9.884			
14,800.0	11,974.0	15,510.4	12,449.0	31.6	36.5	-136.54	-2,230.5	462.7	654.4	586.9	67.47	9.699			
14,900.0	11,974.0	15,610.4	12,449.0	32.4	37.1	-136.54	-2,330.5	463.4	654.4	585.6	68.75	9.518			
15,000.0	11,974.0	15,710.4	12,449.0	33.2	37.8	-136.54	-2,430.5	464.0	654.4	584.3	70.06	9.341			
15,100.0	11,974.0	15,810.4	12,449.0	34.1	38.5	-136.54	-2,530.5	464.6	654.4	583.0	71.38	9.168			
15,200.0	11,974.0	15,910.4	12,449.0	34.9	39.1	-136.54	-2,630.5	465.2	654.4	581.7	72.72	8.999			
15,300.0	11,974.0	16,010.4	12,449.0	35.8	39.9	-136.54	-2,730.5	465.9	654.4	580.3	74.07	8.834			
15,400.0	11,974.0	16,110.4	12,449.0	36.6	40.6	-136.54	-2,830.5	466.5	654.4	578.9	75.44	8.674			
15,500.0	11,974.0	16,210.4	12,449.0	37.5	41.3	-136.54	-2,930.5	467.1	654.4	577.5	76.82	8.518			
15,600.0	11,974.0	16,310.4	12,449.0	38.3	42.1	-136.54	-3,030.5	467.7	654.4	576.1	78.22	8.366			
15,700.0	11,974.0	16,410.4	12,449.0	39.2	42.9	-136.54	-3,130.5	468.3	654.4	574.7	79.63	8.217			
15,800.0	11,974.0	16,510.4	12,449.0	40.1	43.7	-136.54	-3,230.5	469.0	654.4	573.3	81.05	8.073			
15,900.0	11,974.0	16,610.4	12,449.0	41.0	44.5	-136.54	-3,330.5	469.6	654.4	571.9	82.49	7.933			
16,000.0	11,974.0	16,710.4	12,449.0	41.8	45.3	-136.54	-3,430.5	470.2	654.4	570.4	83.93	7.796			
16,100.0	11,974.0	16,810.4	12,449.0	42.7	46.1	-136.54	-3,530.5	470.8	654.4	569.0	85.39	7.663			
16,200.0	11,974.0	16,910.4	12,449.0	43.6	46.9	-136.54	-3,630.5	471.5	654.4	567.5	86.85	7.534			
16,300.0	11,974.0	17,010.4	12,449.0	44.5	47.7	-136.54	-3,730.5	472.1	654.4	566.0	88.33	7.408			
16,400.0	11,974.0	17,110.4	12,449.0	45.4	48.6	-136.54	-3,830.5	472.7	654.4	564.5	89.81	7.286			
16,500.0	11,974.0	17,210.4	12,449.0	46.3	49.4	-136.54	-3,930.5	473.3	654.3	563.0	91.30	7.167			
16,600.0	11,974.0	17,310.4	12,449.0	47.2	50.3	-136.54	-4,030.5	474.0	654.3	561.5	92.80	7.051			
16,700.0	11,974.0	17,410.4	12,449.0	48.1	51.1	-136.55	-4,130.5	474.6	654.3	560.0	94.31	6.938			
16,800.0	11,974.0	17,510.4	12,449.0	49.0	52.0	-136.55	-4,230.5	475.2	654.3	558.5	95.82	6.829			
16,900.0	11,974.0	17,610.4	12,449.0	49.9	52.9	-136.55	-4,330.5	475.8	654.3	557.0	97.34	6.722			
17,000.0	11,974.0	17,710.4	12,449.0	50.8	53.7	-136.55	-4,430.5	476.5	654.3	555.5	98.87	6.618			
17,100.0	11,974.0	17,810.4	12,449.0	51.7	54.6	-136.55	-4,530.5	477.1	654.3	553.9	100.41	6.517			
17,200.0	11,974.0	17,910.4	12,449.0	52.7	55.5	-136.55	-4,630.5	477.7	654.3	552.4	101.95	6.418			
17,300.0	11,974.0	18,010.4	12,449.0	53.6	56.4	-136.55	-4,730.5	478.3	654.3	550.8	103.49	6.322			
17,400.0	11,974.0	18,110.4	12,449.0	54.5	57.2	-136.55	-4,830.5	479.0	654.3	549.3	105.05	6.229			
17,500.0	11,974.0	18,210.4	12,449.0	55.4	58.1	-136.55	-4,930.5	479.6	654.3	547.7	106.60	6.138			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWPO													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1										Rule Assigned:			Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,600.0	11,974.0	18,310.4	12,449.0	56.3	59.0	-136.55	-5,030.5	480.2	654.3	546.2	108.16	6.049		
17,700.0	11,974.0	18,410.4	12,449.0	57.2	59.9	-136.55	-5,130.5	480.8	654.3	544.6	109.73	5.963		
17,800.0	11,974.0	18,510.4	12,449.0	58.2	60.8	-136.55	-5,230.5	481.5	654.3	543.0	111.30	5.879		
17,900.0	11,974.0	18,610.4	12,449.0	59.1	61.7	-136.55	-5,330.5	482.1	654.3	541.4	112.88	5.797		
18,000.0	11,974.0	18,710.4	12,449.0	60.0	62.6	-136.55	-5,430.5	482.7	654.3	539.9	114.46	5.717		
18,100.0	11,974.0	18,810.4	12,449.0	60.9	63.5	-136.55	-5,530.5	483.3	654.3	538.3	116.04	5.639		
18,200.0	11,974.0	18,910.4	12,449.0	61.9	64.4	-136.55	-5,630.5	484.0	654.3	536.7	117.63	5.562		
18,300.0	11,974.0	19,010.4	12,449.0	62.8	65.3	-136.55	-5,730.4	484.6	654.3	535.1	119.22	5.488		
18,400.0	11,974.0	19,110.4	12,449.0	63.7	66.2	-136.55	-5,830.4	485.2	654.3	533.5	120.82	5.416		
18,500.0	11,974.0	19,210.4	12,449.0	64.7	67.1	-136.55	-5,930.4	485.8	654.3	531.9	122.42	5.345		
18,600.0	11,974.0	19,310.4	12,449.0	65.6	68.0	-136.55	-6,030.4	486.5	654.3	530.3	124.02	5.276		
18,700.0	11,974.0	19,410.4	12,449.0	66.5	69.0	-136.55	-6,130.4	487.1	654.3	528.7	125.63	5.208		
18,800.0	11,974.0	19,510.4	12,449.0	67.5	69.9	-136.55	-6,230.4	487.7	654.3	527.1	127.24	5.143		
18,900.0	11,974.0	19,610.4	12,449.0	68.4	70.8	-136.55	-6,330.4	488.3	654.3	525.5	128.85	5.078		
19,000.0	11,974.0	19,710.4	12,449.0	69.3	71.7	-136.55	-6,430.4	488.9	654.3	523.9	130.46	5.015		
19,100.0	11,974.0	19,810.4	12,449.0	70.3	72.6	-136.55	-6,530.4	489.6	654.3	522.2	132.08	4.954		
19,200.0	11,974.0	19,910.4	12,449.0	71.2	73.5	-136.55	-6,630.4	490.2	654.3	520.6	133.70	4.894		
19,300.0	11,974.0	20,010.4	12,449.0	72.1	74.5	-136.55	-6,730.4	490.8	654.3	519.0	135.32	4.835		
19,400.0	11,974.0	20,110.4	12,449.0	73.1	75.4	-136.55	-6,830.4	491.4	654.3	517.4	136.95	4.778		
19,500.0	11,974.0	20,210.4	12,449.0	74.0	76.3	-136.55	-6,930.4	492.1	654.3	515.7	138.57	4.722		
19,600.0	11,974.0	20,310.4	12,449.0	75.0	77.2	-136.55	-7,030.4	492.7	654.3	514.1	140.20	4.667		
19,643.3	11,974.0	20,353.7	12,449.0	75.4	77.6	-136.55	-7,073.7	493.0	654.3	513.4	140.91	4.644		
19,658.5	11,974.0	20,368.8	12,449.0	75.5	77.8	-136.55	-7,088.8	493.1	654.3	513.2	141.15	4.636 SF		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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' DM FEDERAL COM 1H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program: 100-r.5 MWD													Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
8,400.0	8,345.8	13,647.4	9,283.4	26.5	81.6	-80.11	781.1	-222.1	962.9	894.2	68.74	14.009			
8,500.0	8,445.8	13,650.0	9,283.5	26.5	81.6	-80.79	778.5	-222.1	865.8	795.8	70.10	12.352			
8,600.0	8,545.8	13,652.8	9,283.6	26.6	81.7	-81.51	775.7	-222.2	769.5	697.7	71.83	10.712			
8,700.0	8,645.8	13,655.8	9,283.7	26.6	81.7	-82.29	772.7	-222.3	674.2	600.1	74.12	9.097			
8,800.0	8,745.8	13,659.0	9,283.9	26.7	81.8	-83.12	769.5	-222.4	580.5	503.3	77.22	7.518			
8,900.0	8,845.8	13,662.4	9,284.0	26.7	81.8	-84.02	766.1	-222.4	489.2	407.7	81.58	5.997			
9,000.0	8,945.8	13,666.1	9,284.1	26.8	81.9	-84.99	762.4	-222.5	402.1	314.2	87.90	4.575			
9,100.0	9,045.8	13,670.1	9,284.3	26.8	81.9	-86.03	758.4	-222.6	322.5	225.5	97.05	3.323			
9,200.0	9,145.8	13,674.4	9,284.5	26.9	82.0	-87.17	754.1	-222.7	257.5	148.7	108.84	2.366	Caution - Monitor Closely		
9,300.0	9,245.8	13,679.1	9,284.7	26.9	82.1	-88.40	749.4	-222.8	220.3	103.1	117.28	1.879	Caution - Monitor Closely		
9,339.0	9,284.8	13,681.0	9,284.8	26.9	82.1	-88.92	747.5	-222.8	216.9	99.9	116.93	1.855	Caution - Monitor Closely, CC, ES, SF		
9,400.0	9,345.8	13,683.8	9,284.9	27.0	82.2	-89.64	744.7	-222.9	225.3	114.0	111.28	2.024	Caution - Monitor Closely		
9,500.0	9,445.8	13,688.2	9,285.1	27.0	82.2	-90.82	740.3	-223.0	270.0	174.2	95.77	2.819	Normal Operations		
9,600.0	9,545.8	13,692.5	9,285.3	27.1	82.3	-91.93	736.1	-223.1	339.2	256.3	82.87	4.093			
9,700.0	9,645.8	13,696.5	9,285.5	27.1	82.4	-93.00	732.0	-223.1	420.8	346.0	74.89	5.620			
9,800.0	9,745.8	13,700.4	9,285.7	27.2	82.4	-94.01	728.2	-223.2	509.1	438.8	70.30	7.242			
9,900.0	9,845.8	13,704.1	9,285.8	27.2	82.5	-94.98	724.5	-223.3	601.0	533.3	67.66	8.882			
10,000.0	9,945.8	13,707.6	9,286.0	27.3	82.5	-95.91	720.9	-223.4	695.1	629.0	66.14	10.509			
10,100.0	10,045.8	13,711.0	9,286.1	27.3	82.6	-96.79	717.5	-223.4	790.6	725.4	65.27	12.114			
10,200.0	10,145.8	13,714.3	9,286.2	27.4	82.6	-97.63	714.3	-223.5	887.2	822.4	64.78	13.695			
10,300.0	10,245.8	13,717.4	9,286.4	27.4	82.7	-98.44	711.1	-223.5	984.4	919.8	64.53	15.254			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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			Offset Wellbore Centre		Distance			Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)				
11,200.0	11,145.8	16,796.6	12,064.0	27.9	85.9	90.62	740.0	306.1	969.8	896.4	73.35	13.221			
11,300.0	11,245.8	16,797.1	12,064.0	27.9	85.9	90.71	739.5	306.1	875.7	801.4	74.27	11.790			
11,400.0	11,345.8	16,797.7	12,064.0	28.0	85.9	90.81	739.0	306.1	783.1	707.5	75.58	10.361			
11,500.0	11,445.8	16,798.2	12,064.0	28.0	85.9	90.91	738.5	306.1	692.5	615.0	77.49	8.937			
11,550.7	11,496.5	16,798.5	12,064.0	28.1	85.9	90.95	738.2	306.1	647.7	568.9	78.79	8.220			
11,575.0	11,520.8	16,799.2	12,064.0	28.0	85.9	-93.74	737.5	306.0	626.5	546.9	79.52	7.878			
11,600.0	11,545.7	16,801.3	12,064.0	27.9	85.9	-98.40	735.4	306.0	605.0	524.6	80.37	7.527			
11,625.0	11,570.5	16,804.6	12,064.0	27.9	86.0	-102.49	732.0	305.9	583.8	502.5	81.31	7.180			
11,650.0	11,595.1	16,809.3	12,064.1	27.8	86.0	-106.00	727.4	305.8	563.1	480.8	82.36	6.838			
11,675.0	11,619.4	16,815.2	12,064.1	27.7	86.1	-108.95	721.5	305.6	543.0	459.4	83.52	6.501			
11,700.0	11,643.4	16,822.4	12,064.1	27.6	86.2	-111.39	714.3	305.4	523.4	438.6	84.79	6.173			
11,725.0	11,667.0	16,830.0	12,064.2	27.5	86.4	-113.48	706.7	305.2	504.5	418.3	86.18	5.854			
11,750.0	11,690.1	16,830.0	12,064.2	27.4	86.4	-116.31	706.7	305.2	486.5	398.9	87.57	5.556			
11,775.0	11,712.7	16,830.0	12,064.2	27.3	86.4	-118.77	706.7	305.2	469.5	380.5	89.04	5.273			
11,800.0	11,734.6	16,830.0	12,064.2	27.2	86.4	-120.88	706.7	305.2	453.8	363.2	90.58	5.010			
11,825.0	11,756.0	16,830.0	12,064.2	27.1	86.4	-122.66	706.7	305.2	439.5	347.3	92.15	4.769			
11,850.0	11,776.6	16,830.0	12,064.2	27.0	86.4	-124.14	706.7	305.2	426.8	333.1	93.70	4.555			
11,875.0	11,796.5	16,830.0	12,064.2	26.9	86.4	-125.34	706.7	305.2	415.8	320.6	95.19	4.369			
11,900.0	11,815.5	16,830.0	12,064.2	26.8	86.4	-126.28	706.7	305.2	406.9	310.3	96.54	4.215			
11,925.0	11,833.6	16,830.0	12,064.2	26.7	86.4	-126.97	706.7	305.2	400.0	302.3	97.69	4.095			
11,950.0	11,850.9	16,830.0	12,064.2	26.6	86.4	-127.42	706.7	305.2	395.4	296.8	98.56	4.011			
11,975.0	11,867.1	16,830.0	12,064.2	26.5	86.4	-127.64	706.7	305.2	393.1	294.0	99.12	3.966			
11,986.5	11,874.3	16,830.0	12,064.2	26.5	86.4	-127.66	706.7	305.2	392.8	293.6	99.25	3.958 CC, ES, SF			
12,000.0	11,882.4	16,830.0	12,064.2	26.4	86.4	-127.63	706.7	305.2	393.2	293.9	99.31	3.959			
12,025.0	11,896.6	16,830.0	12,064.2	26.3	86.4	-127.39	706.7	305.2	395.7	296.6	99.11	3.992			
12,050.0	11,909.7	16,830.0	12,064.2	26.3	86.4	-126.92	706.7	305.2	400.5	301.9	98.54	4.064			
12,075.0	11,921.6	16,830.0	12,064.2	26.2	86.4	-126.21	706.7	305.2	407.5	309.9	97.62	4.174			
12,100.0	11,932.4	16,830.0	12,064.2	26.1	86.4	-125.26	706.7	305.2	416.6	320.2	96.40	4.322			
12,125.0	11,942.0	16,830.0	12,064.2	26.1	86.4	-124.03	706.7	305.2	427.7	332.8	94.93	4.506			
12,150.0	11,950.4	16,830.0	12,064.2	26.1	86.4	-122.53	706.7	305.2	440.6	347.3	93.27	4.723			
12,175.0	11,957.5	16,830.0	12,064.2	26.0	86.4	-120.72	706.7	305.2	455.0	363.5	91.48	4.974			
12,200.0	11,963.4	16,830.0	12,064.2	26.0	86.4	-118.59	706.7	305.2	470.8	381.2	89.60	5.255			
12,225.0	11,968.0	16,830.0	12,064.2	26.0	86.4	-116.10	706.7	305.2	487.9	400.2	87.67	5.565			
12,250.0	11,971.3	16,830.0	12,064.2	25.9	86.4	-113.23	706.7	305.2	506.0	420.3	85.74	5.902			
12,275.0	11,973.3	16,830.0	12,064.2	25.9	86.4	-109.96	706.7	305.2	525.0	441.2	83.82	6.263			
12,300.0	11,974.0	16,830.0	12,064.2	25.9	86.4	-106.28	706.7	305.2	544.8	462.8	81.95	6.648			
12,300.7	11,974.0	16,830.0	12,064.2	25.9	86.4	-106.18	706.7	305.2	545.3	463.4	81.90	6.659			
12,400.0	11,974.0	16,830.0	12,064.2	25.9	86.4	-106.18	706.7	305.2	628.0	552.7	75.37	8.332			
12,500.0	11,974.0	16,830.0	12,064.2	25.9	86.4	-106.18	706.7	305.2	715.6	645.3	70.29	10.180			
12,600.0	11,974.0	16,830.0	12,064.2	25.9	86.4	-106.18	706.7	305.2	806.0	739.7	66.35	12.147			
12,700.0	11,974.0	16,830.0	12,064.2	25.9	86.4	-106.18	706.7	305.2	898.5	835.2	63.28	14.198			
12,800.0	11,974.0	16,830.0	12,064.2	26.0	86.4	-106.18	706.7	305.2	992.4	931.6	60.85	16.309			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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 003H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 134-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)					
10,900.0	10,845.8	16,549.5	11,756.6	27.7	81.8	-94.94	720.4	-272.1	949.1	873.8	75.32	12.601			
11,000.0	10,945.8	16,547.2	11,756.6	27.8	81.8	-94.45	722.7	-272.2	853.6	777.4	76.22	11.199			
11,100.0	11,045.8	16,545.0	11,756.7	27.8	81.8	-93.97	724.9	-272.2	759.3	681.9	77.43	9.806			
11,200.0	11,145.8	16,542.7	11,756.7	27.9	81.7	-93.48	727.2	-272.2	666.6	587.5	79.13	8.424			
11,300.0	11,245.8	16,540.4	11,756.8	27.9	81.7	-92.99	729.5	-272.2	576.3	494.7	81.58	7.064			
11,400.0	11,345.8	16,538.1	11,756.8	28.0	81.7	-92.51	731.7	-272.2	489.9	404.6	85.26	5.745			
11,500.0	11,445.8	16,535.9	11,756.9	28.0	81.6	-92.02	734.0	-272.3	409.6	318.7	90.85	4.508			
11,550.7	11,496.5	16,534.7	11,756.9	28.1	81.6	-91.77	735.2	-272.3	372.5	277.9	94.65	3.936			
11,575.0	11,520.8	16,534.8	11,756.9	28.0	81.6	91.29	735.1	-272.3	356.0	259.2	96.73	3.680			
11,600.0	11,545.7	16,536.2	11,756.9	27.9	81.6	93.51	733.7	-272.3	339.9	240.9	99.05	3.432			
11,625.0	11,570.5	16,538.8	11,756.8	27.9	81.7	95.16	731.1	-272.2	325.0	223.5	101.52	3.202			
11,650.0	11,595.1	16,542.8	11,756.7	27.8	81.7	96.25	727.1	-272.2	311.5	207.4	104.10	2.993	Normal Operations		
11,675.0	11,619.4	16,548.0	11,756.6	27.7	81.8	96.78	721.9	-272.1	299.6	192.9	106.72	2.807	Normal Operations		
11,700.0	11,643.4	16,554.6	11,756.5	27.6	81.9	96.79	715.4	-272.1	289.3	180.0	109.29	2.647	Normal Operations		
11,725.0	11,667.0	16,562.3	11,756.3	27.5	82.0	96.30	707.6	-272.0	280.8	169.1	111.72	2.514	Normal Operations		
11,750.0	11,690.1	16,570.0	11,756.1	27.4	82.2	95.58	699.9	-272.0	274.3	160.4	113.88	2.409	Caution - Monitor Closely		
11,775.0	11,712.7	16,570.0	11,756.1	27.3	82.2	96.11	699.9	-272.0	269.9	154.4	115.52	2.337	Caution - Monitor Closely		
11,800.0	11,734.6	16,570.0	11,756.1	27.2	82.2	96.35	699.9	-272.0	268.0	151.4	116.62	2.298	Caution - Monitor Closely		
11,807.3	11,740.9	16,570.0	11,756.1	27.1	82.2	96.36	699.9	-272.0	267.9	151.0	116.83	2.293	Caution - Monitor Closely, CC, ES		
11,825.0	11,756.0	16,570.0	11,756.1	27.1	82.2	96.29	699.9	-272.0	268.5	151.4	117.11	2.293	Caution - Monitor Closely, SF		
11,850.0	11,776.6	16,570.0	11,756.1	27.0	82.2	95.93	699.9	-272.0	271.5	154.5	116.95	2.321	Caution - Monitor Closely		
11,875.0	11,796.5	16,570.0	11,756.1	26.9	82.2	95.28	699.9	-272.0	276.8	160.6	116.20	2.382	Caution - Monitor Closely		
11,900.0	11,815.5	16,570.0	11,756.1	26.8	82.2	94.33	699.9	-272.0	284.4	169.4	114.92	2.474	Caution - Monitor Closely		
11,925.0	11,833.6	16,570.0	11,756.1	26.7	82.2	93.08	699.9	-272.0	293.9	180.7	113.22	2.596	Normal Operations		
11,950.0	11,850.9	16,570.0	11,756.1	26.6	82.2	91.55	699.9	-272.0	305.3	194.1	111.22	2.745	Normal Operations		
11,975.0	11,867.1	16,570.0	11,756.1	26.5	82.2	89.72	699.9	-272.0	318.3	209.3	109.04	2.919	Normal Operations		
12,000.0	11,882.4	16,570.0	11,756.1	26.4	82.2	87.62	699.9	-272.0	332.7	225.9	106.75	3.116			
12,025.0	11,896.6	16,570.0	11,756.1	26.3	82.2	85.25	699.9	-272.0	348.2	243.8	104.43	3.334			
12,050.0	11,909.7	16,570.0	11,756.1	26.3	82.2	82.63	699.9	-272.0	364.7	262.6	102.12	3.571			
12,075.0	11,921.6	16,570.0	11,756.1	26.2	82.2	79.78	699.9	-272.0	382.0	282.1	99.87	3.825			
12,100.0	11,932.4	16,570.0	11,756.1	26.1	82.2	76.75	699.9	-272.0	399.9	302.2	97.69	4.094			
12,125.0	11,942.0	16,570.0	11,756.1	26.1	82.2	73.57	699.9	-272.0	418.4	322.8	95.58	4.377			
12,150.0	11,950.4	16,570.0	11,756.1	26.1	82.2	70.28	699.9	-272.0	437.3	343.7	93.56	4.674			
12,175.0	11,957.5	16,570.0	11,756.1	26.0	82.2	66.92	699.9	-272.0	456.5	364.9	91.63	4.982			
12,200.0	11,963.4	16,570.0	11,756.1	26.0	82.2	63.56	699.9	-272.0	476.0	386.2	89.77	5.302			
12,225.0	11,968.0	16,570.0	11,756.1	26.0	82.2	60.22	699.9	-272.0	495.5	407.5	87.99	5.632			
12,250.0	11,971.3	16,570.0	11,756.1	25.9	82.2	56.96	699.9	-272.0	515.2	428.9	86.28	5.971			
12,275.0	11,973.3	16,570.0	11,756.1	25.9	82.2	53.81	699.9	-272.0	534.9	450.3	84.63	6.320			
12,300.0	11,974.0	16,570.0	11,756.1	25.9	82.2	50.79	699.9	-272.0	554.5	471.5	83.04	6.678			
12,300.7	11,974.0	16,570.0	11,756.1	25.9	82.2	50.71	699.9	-272.0	555.1	472.1	82.99	6.688			
12,400.0	11,974.0	16,570.0	11,756.1	25.9	82.2	50.71	699.9	-272.0	636.0	558.6	77.40	8.217			
12,500.0	11,974.0	16,570.0	11,756.1	25.9	82.2	50.71	699.9	-272.0	722.2	649.2	72.91	9.904			
12,600.0	11,974.0	16,570.0	11,756.1	25.9	82.2	50.71	699.9	-272.0	811.5	742.1	69.35	11.700			
12,700.0	11,974.0	16,570.0	11,756.1	25.9	82.2	50.71	699.9	-272.0	903.0	836.5	66.52	13.576			
12,800.0	11,974.0	16,570.0	11,756.1	26.0	82.2	50.71	699.9	-272.0	996.2	932.0	64.23	15.509			

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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												Rule Assigned:		Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis 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	6.8	0.4	3.0	0.0	80.93	147.9	926.6	938.3					
100.0	100.0	113.2	106.8	3.1	0.1	80.87	148.8	926.0	937.9	932.8	5.15	181.980		
200.0	200.0	218.8	212.3	3.3	0.4	80.76	150.4	924.6	936.9	931.4	5.50	170.215		
300.0	300.0	320.0	313.6	3.6	0.7	80.65	152.0	922.8	935.4	929.5	5.86	159.650		
400.0	400.0	411.7	405.2	3.8	0.9	80.52	153.9	921.6	934.3	928.1	6.21	150.478		
445.2	445.2	451.7	445.2	3.8	1.0	80.44	155.1	921.3	934.2	927.9	6.36	146.875	CC	
500.0	500.0	500.0	493.5	4.0	1.1	80.34	156.8	921.1	934.4	927.9	6.55	142.607	ES	
600.0	600.0	596.8	590.2	4.1	1.4	80.08	161.1	921.2	935.3	928.4	6.90	135.531		
700.0	700.0	687.1	680.3	4.3	1.6	79.78	166.2	921.8	936.8	929.6	7.24	129.361		
800.0	800.0	779.9	772.9	4.5	1.8	79.40	172.8	922.9	939.3	931.8	7.59	123.832		
900.0	900.0	866.8	859.4	4.7	2.1	79.00	179.8	924.7	942.9	935.1	7.77	121.382		
1,000.0	1,000.0	961.0	953.2	4.8	2.4	78.51	188.5	927.5	947.6	939.5	8.15	116.345		
1,100.0	1,100.0	1,061.3	1,053.1	5.0	2.7	78.00	197.8	930.7	952.6	944.1	8.54	111.494		
1,200.0	1,200.0	1,160.1	1,151.5	5.2	3.1	77.55	206.1	933.9	957.6	948.6	8.94	107.138		
1,300.0	1,300.0	1,252.7	1,243.7	5.3	3.5	77.17	213.5	937.3	963.0	953.7	9.32	103.361		
1,400.0	1,400.0	1,348.9	1,339.5	5.5	3.8	76.79	220.9	941.6	969.1	959.4	9.71	99.801		
1,500.0	1,500.0	1,464.6	1,454.8	5.6	4.3	76.43	228.5	946.4	974.7	964.5	10.20	95.597		
1,600.0	1,600.0	1,570.0	1,560.1	5.8	4.7	76.24	232.7	950.1	979.0	968.4	10.61	92.282		
1,700.0	1,700.0	1,675.4	1,665.4	5.9	5.0	76.08	236.3	953.5	982.9	971.9	11.03	89.150		
1,800.0	1,800.0	1,785.0	1,774.9	6.0	5.4	75.93	239.7	956.0	985.9	974.4	11.44	86.188		
1,900.0	1,900.0	1,894.5	1,884.4	6.2	5.7	75.79	242.5	957.7	988.0	976.2	11.84	83.467		
2,000.0	2,000.0	2,002.1	1,991.9	6.3	5.8	75.84	241.9	959.1	989.1	976.9	12.19	81.139		
2,100.0	2,100.0	2,107.5	2,097.3	6.5	5.9	76.50	240.4	960.0	989.3	976.8	12.49	79.222		
2,200.0	2,199.8	2,211.1	2,201.0	6.8	6.0	76.86	240.0	960.2	988.1	975.4	12.74	77.568		
2,300.0	2,299.5	2,316.2	2,306.0	7.0	6.1	77.40	240.2	959.7	985.8	972.9	12.93	76.258		
2,400.0	2,398.7	2,414.1	2,404.0	7.2	6.1	78.14	240.1	959.1	982.6	969.5	13.08	75.116		
2,436.2	2,434.5	2,450.5	2,440.4	7.3	6.1	78.47	240.1	959.0	981.3	968.2	13.11	74.863		
2,500.0	2,497.6	2,514.8	2,504.6	7.4	6.1	79.04	239.9	958.6	979.0	965.8	13.18	74.301		
2,600.0	2,596.4	2,616.9	2,606.7	7.6	6.2	79.92	239.8	957.6	975.3	961.9	13.34	73.107		
2,700.0	2,695.3	2,715.8	2,705.6	7.9	6.3	80.78	239.9	956.5	971.6	958.1	13.51	71.893		
2,800.0	2,794.1	2,811.9	2,801.7	8.1	6.3	81.61	240.2	955.6	968.3	954.6	13.70	70.673		
2,900.0	2,892.9	2,910.7	2,900.5	8.4	6.5	82.45	240.6	954.7	965.4	951.5	13.90	69.431		
3,000.0	2,991.8	3,005.9	2,995.7	8.7	6.6	83.27	241.1	954.0	962.8	948.7	14.12	68.196		
3,100.0	3,090.6	3,098.6	3,088.4	9.0	6.8	84.08	241.5	953.9	961.1	946.7	14.35	66.975		
3,200.0	3,189.5	3,193.6	3,183.4	9.3	6.9	84.93	241.7	954.3	960.0	945.4	14.60	65.760		
3,300.0	3,288.3	3,288.7	3,278.5	9.6	7.0	85.78	241.8	955.1	959.6	944.8	14.86	64.593		
3,312.2	3,300.4	3,300.2	3,290.0	9.7	7.1	85.88	241.8	955.2	959.6	944.7	14.89	64.455		
3,400.0	3,387.2	3,384.9	3,374.7	10.0	7.2	86.64	242.1	956.3	959.9	944.7	15.12	63.481		
3,500.0	3,486.0	3,489.0	3,478.8	10.3	7.4	87.55	242.6	957.4	960.2	944.8	15.39	62.376		
3,600.0	3,584.8	3,594.7	3,584.5	10.7	7.6	88.48	243.1	957.7	960.0	944.4	15.65	61.355		
3,691.4	3,675.2	3,683.6	3,673.4	11.0	7.7	89.27	243.3	957.7	959.7	943.9	15.86	60.513		
3,700.0	3,683.7	3,691.6	3,681.3	11.0	7.7	89.34	243.4	957.7	959.7	943.9	15.88	60.437		
3,800.0	3,782.5	3,786.4	3,776.2	11.4	7.8	90.20	243.3	958.2	960.2	944.1	16.13	59.543		
3,900.0	3,881.4	3,883.9	3,873.7	11.7	7.9	91.11	243.0	959.0	961.1	944.7	16.38	58.661		
4,000.0	3,980.2	3,983.4	3,973.2	12.1	8.0	92.03	242.6	959.7	962.3	945.7	16.64	57.820		
4,100.0	4,079.1	4,077.7	4,067.5	12.5	8.1	92.93	241.7	960.5	963.9	947.0	16.90	57.048		
4,200.0	4,177.9	4,169.6	4,159.3	12.9	8.1	93.83	240.2	961.9	966.4	949.2	17.15	56.339		
4,300.0	4,276.8	4,270.5	4,260.2	13.3	8.2	94.83	238.5	963.8	969.5	952.1	17.43	55.611		
4,400.0	4,375.6	4,374.8	4,364.5	13.6	8.3	95.83	237.2	965.1	972.4	954.7	17.73	54.858		
4,500.0	4,474.4	4,474.5	4,464.2	14.0	8.3	96.77	236.2	966.1	975.1	957.1	18.02	54.128		
4,600.0	4,573.3	4,572.2	4,561.9	14.4	8.4	97.67	235.3	967.0	978.2	960.0	18.18	53.812		

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 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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											Rule Assigned:		Offset Well Error: 0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,700.0	4,672.1	4,652.0	4,641.7	14.8	8.5	98.41	234.6	968.6	982.4	963.9	18.48	53.172	
4,800.0	4,771.0	4,725.5	4,715.0	15.2	8.7	99.06	234.0	971.6	989.1	970.3	18.80	52.612	
4,900.0	4,869.8	4,803.0	4,792.3	15.6	8.9	99.69	233.7	977.1	998.5	979.4	19.14	52.169 SF	

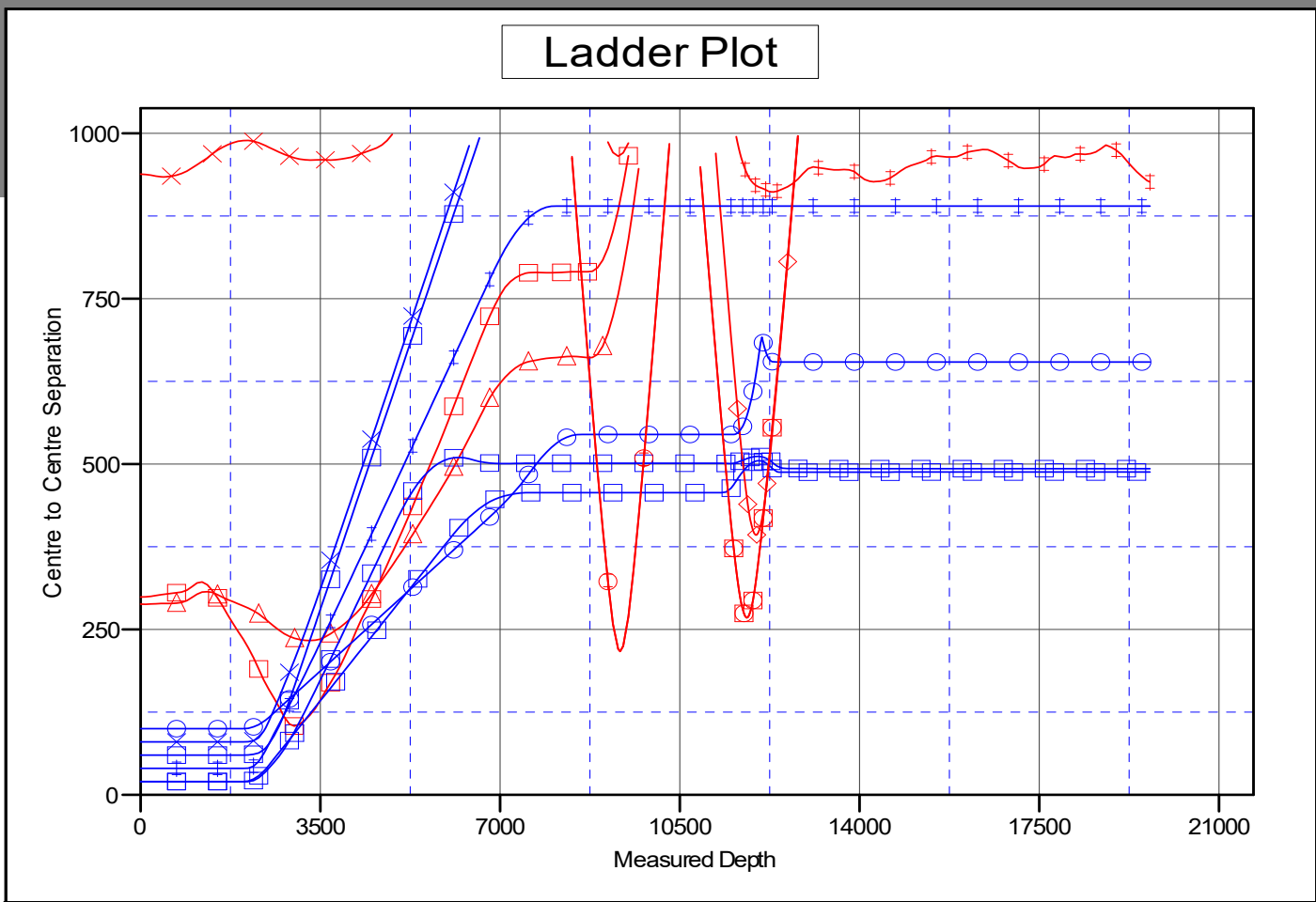
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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

Reference Depths are relative to KB @ 3186.6usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 702H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.34°



LEGEND

- | | | |
|--|--|--|
| RED HILLS WEST 21 DM FEDERAL COM #1H, OWB, AWP V0 | _ZIA HILLS UNIT 2832 WC 701H OWB, PWPO V0 | RED HILLS WEST 21 DM FEDERAL COM 1H, OWB, AWP V0 |
| WILDER 28 AC FEDERAL COM #8H, OWB, AWP V0 | _ZIA HILLS UNIT 2832 WC 705H OWB, PWPO V0 | _ZIA HILLS UNIT 2832 WC 706H OWB, PWPO V0 |
| WILDER 28 AC FEDERAL COM #4H, OWB, AWP V0 | _ZIA HILLS UNIT 2832 WC 801H OWB, PWPO V0 | _ZIA HILLS 20 FEDERAL COM #15H, OWB, AWP V0 |
| RED HILLS WEST 21 W0DM FEDERAL COM #3H, OWB, AWP V0 | _ZIA HILLS UNIT 2832 WC 704H OWB, PWPO V0 | BUCK 20 FEDERAL #1H, OWB, AWP V0 |
| WILDER FEDERAL AC COM 2 2H, OWB, AWP V0 | _ZIA HILLS UNIT 2832 WC 703H OWB, PWPO V0 | |
| RED HILLS WEST 21 W1DM FEDERAL COM 002H, OWB, AWP V0 | RED HILLS WEST 21 W1DM FEDERAL COM 003H, OWB, AWP V0 | |

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

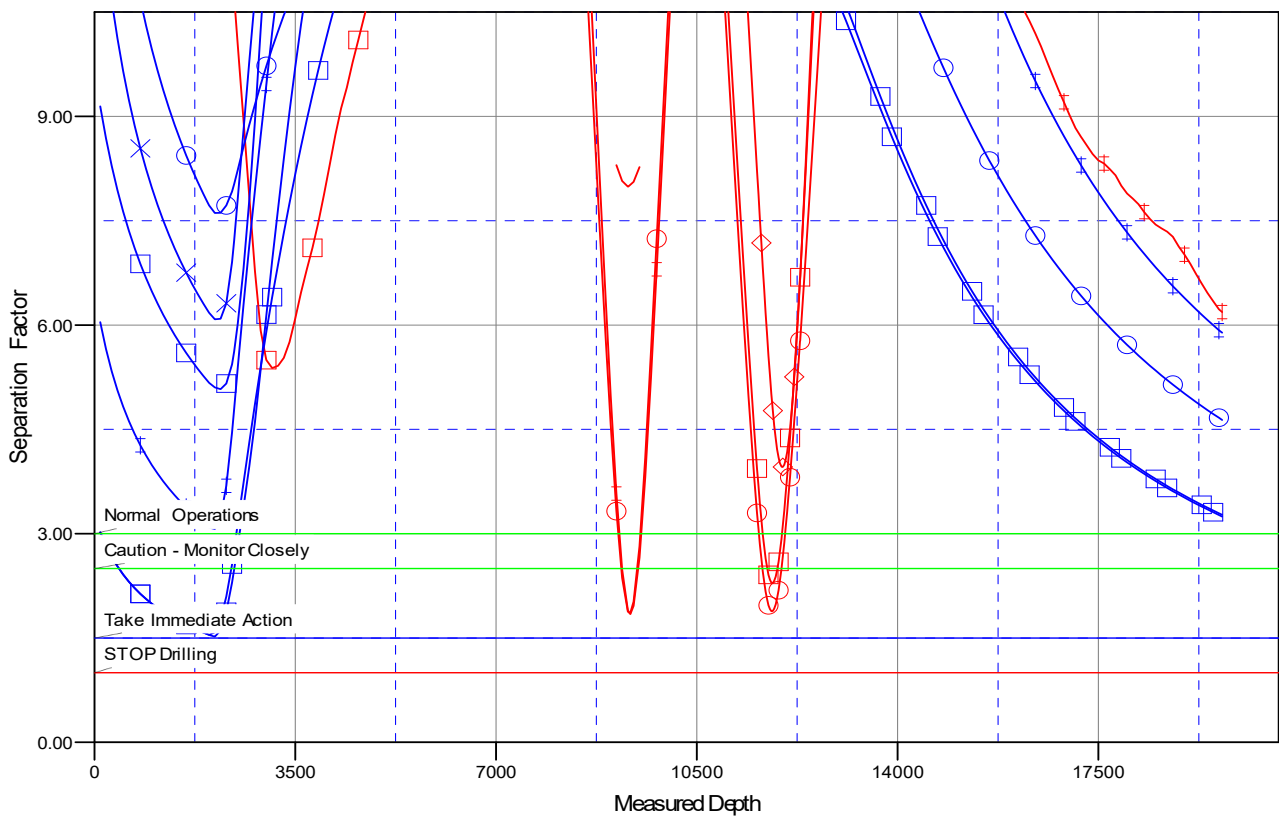
ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 702H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.6usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 702H	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

Reference Depths are relative to KB @ 3186.6usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 702H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> RED HILLS WEST 21 DM FEDERAL COM #1H, OWB, AWP V0 WILDER 28 AC FEDERAL COM #8H, OWB, AWP V0 WILDER 28 AC FEDERAL COM #4H, OWB, AWP V0 RED HILLS WEST 21 W0DM FEDERAL COM #3H, OWB, AWP V0 WILDER FEDERAL AC COM 2 3H, OWB, AWP V0 RED HILLS WEST 21 W1DM FEDERAL COM 002H, OWB, AWP V0 | <ul style="list-style-type: none"> _ZIA HILLS UNIT 2832 WC 701H OWB, PWPO V0 _ZIA HILLS UNIT 2832 WC 705H OWB, PWPO V0 _ZIA HILLS UNIT 2832 WC 801H OWB, PWPO V0 _ZIA HILLS UNIT 2832 WC 704H OWB, PWPO V0 _ZIA HILLS UNIT 2832 WC 703H OWB, PWPO V0 RED HILLS WEST 21 W1DM FEDERAL COM 003H, OWB, AWP V0 | <ul style="list-style-type: none"> RED HILLS WEST 21 DM FEDERAL COM 1H, OWB, AWP V0 _ZIA HILLS UNIT 2832 WC 706H OWB, PWPO V0 _ZIA HILLS 20 FEDERAL COM #15H, OWB, AWP V0 BUCK 20 FEDERAL #1H, OWB, AWP V0 |
|---|---|--|

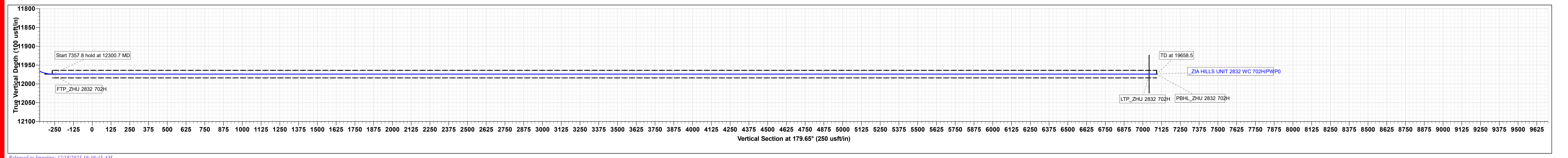
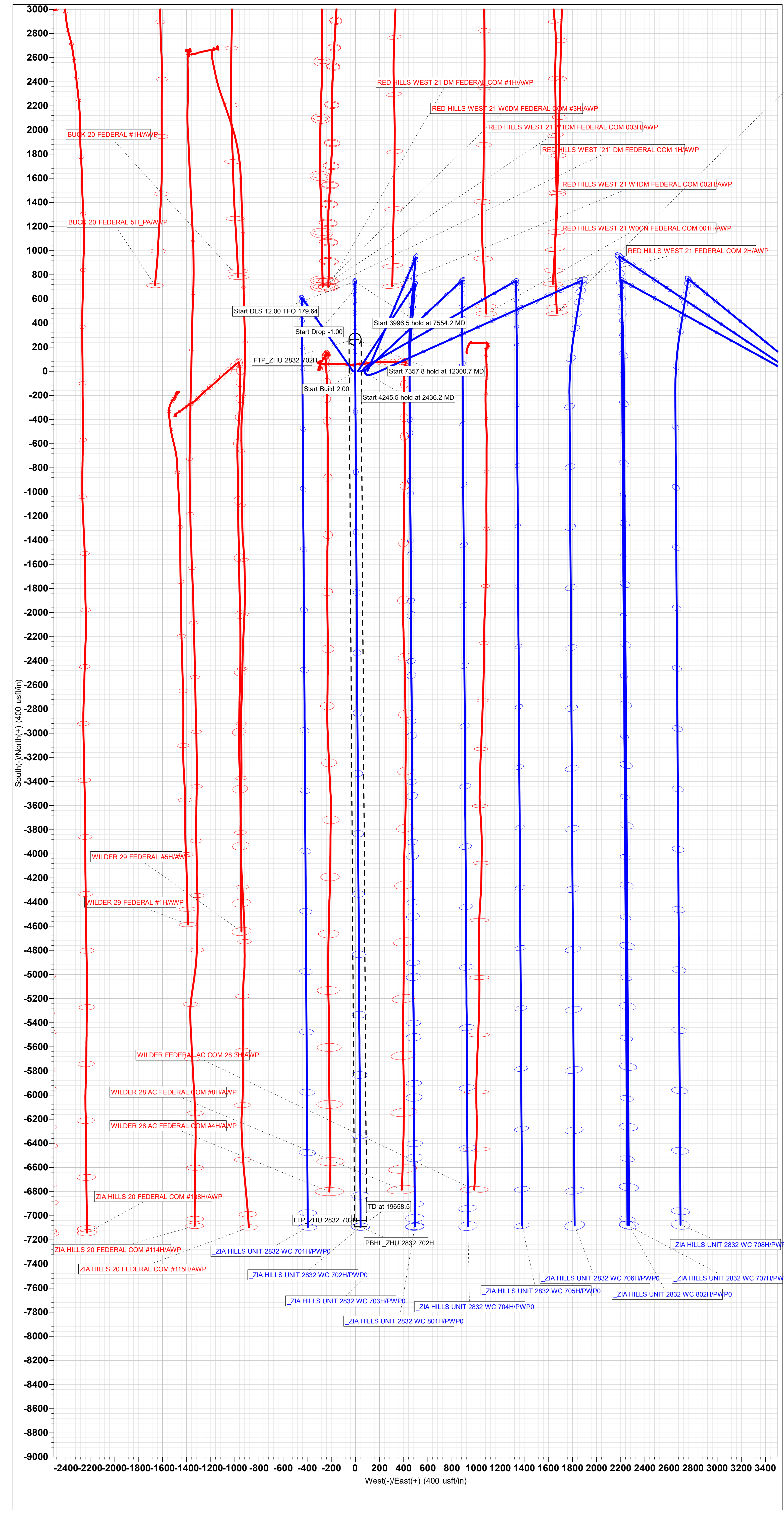
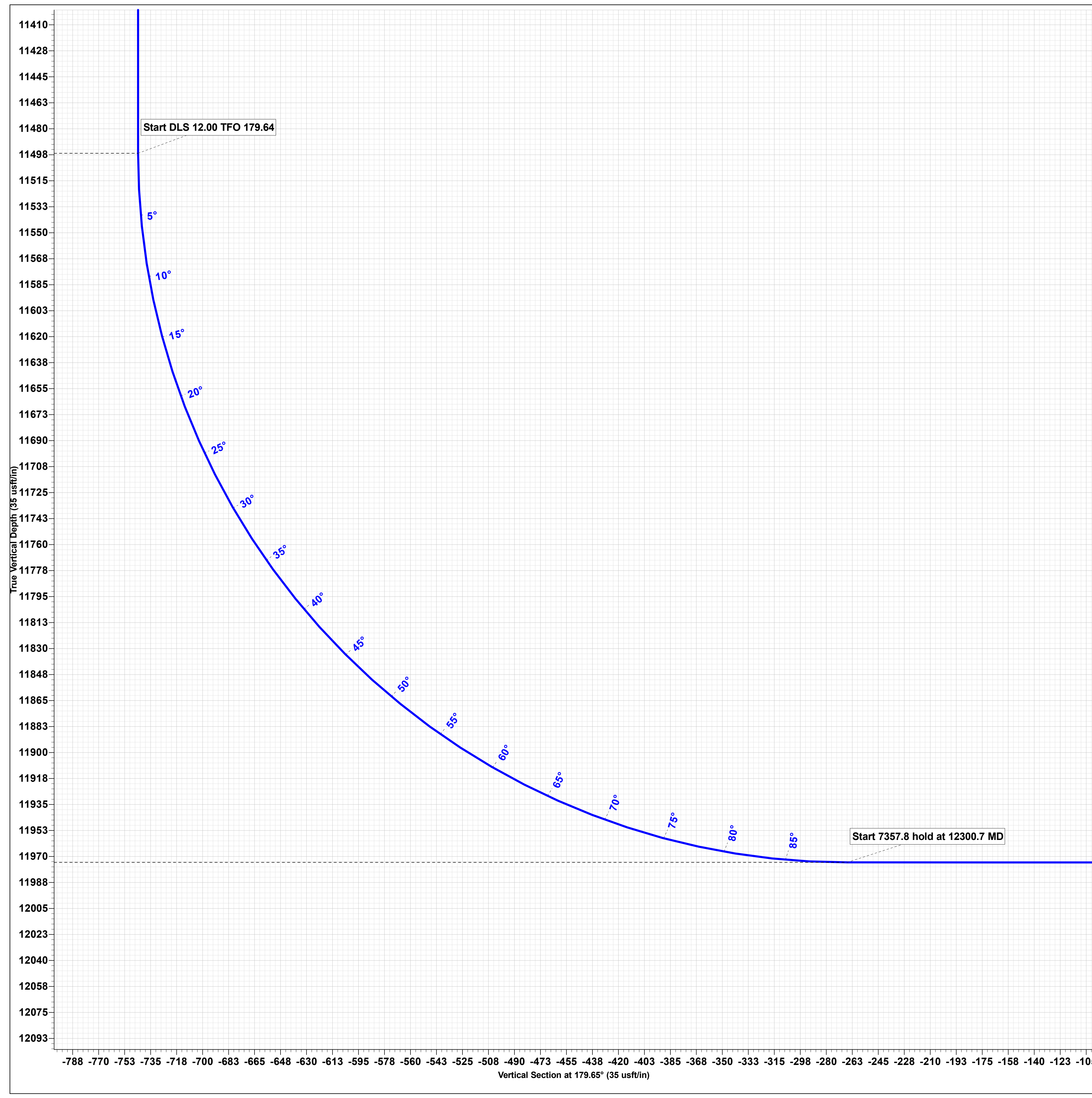
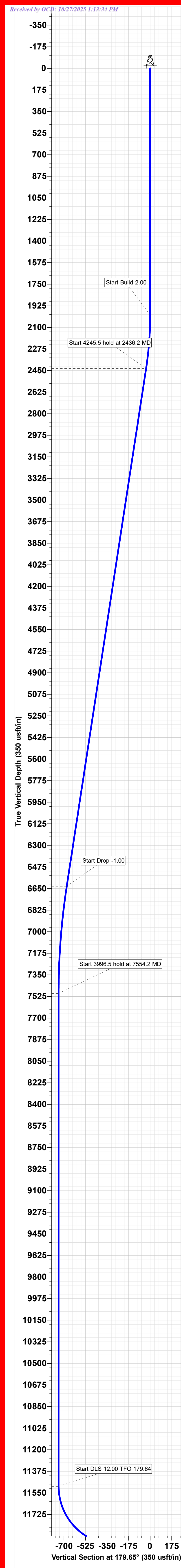
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Project: ZIA HILLS UNIT AREA
 Site: ZIA HILLS UNIT 2832 PROJECT
 Well: ZIA HILLS UNIT 2832 WC 702H
 Wellbore: OWB
 Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0
2436.2	8.72	359.54	2434.5	33.1	-0.3	2.00	359.54	-33.1
6681.7	8.72	359.54	6630.9	677.1	-5.5	0.00	0.00	-677.1
7554.2	0.00	0.00	7500.0	743.4	-6.0	1.00	180.00	-743.4
11550.7	0.00	0.00	11496.5	743.4	-6.0	0.00	0.00	-743.4
12300.7	90.00	179.64	11974.0	265.9	-3.0	12.00	179.64	-266.0
19658.5	90.00	179.64	11974.0	-7091.7	43.1	0.00	0.00	7091.8



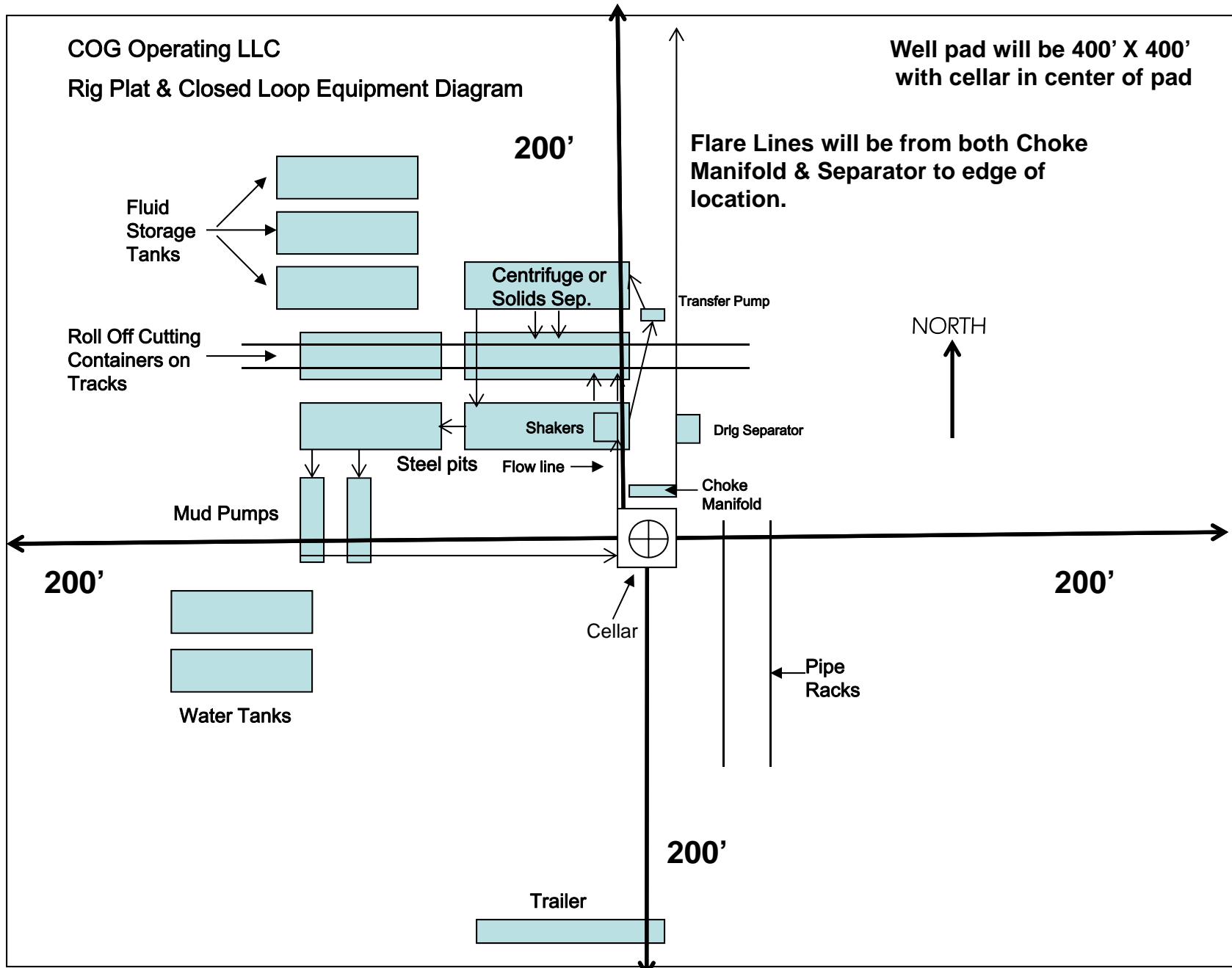


Exhibit 1

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: ConocoPhillips Company **OGRID:** 217817 **Date:** 01/28/2025

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

If Other, please describe: _____

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

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

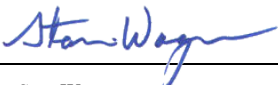
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

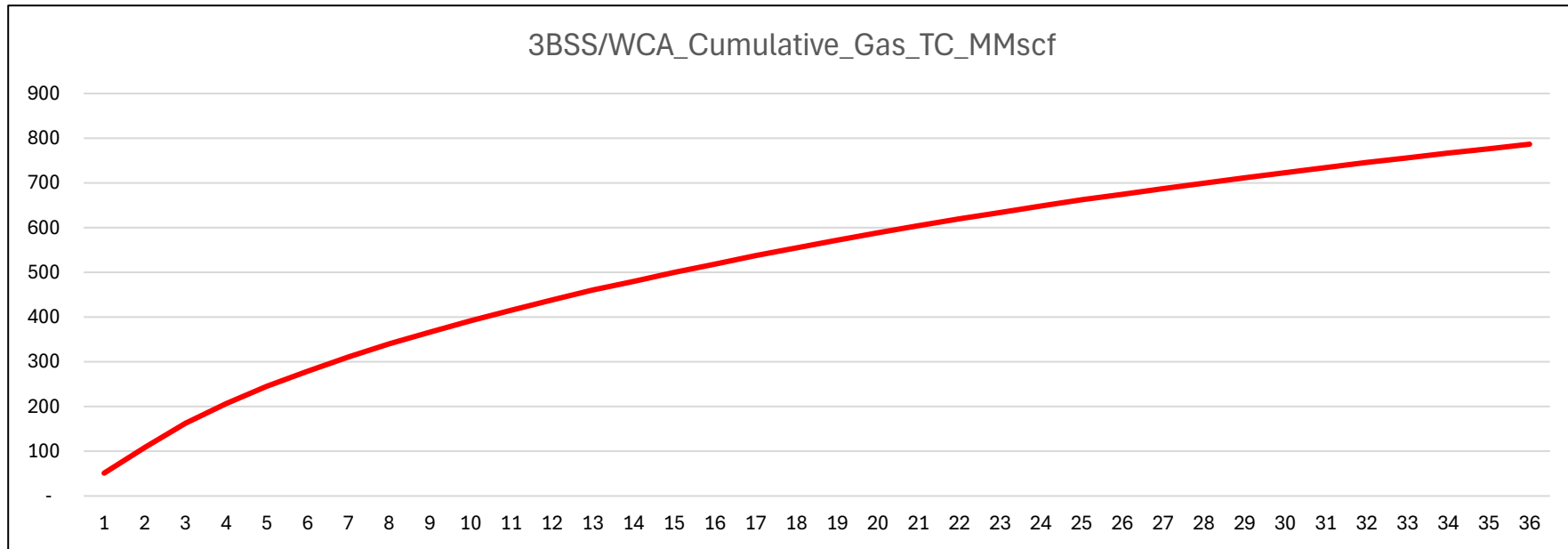
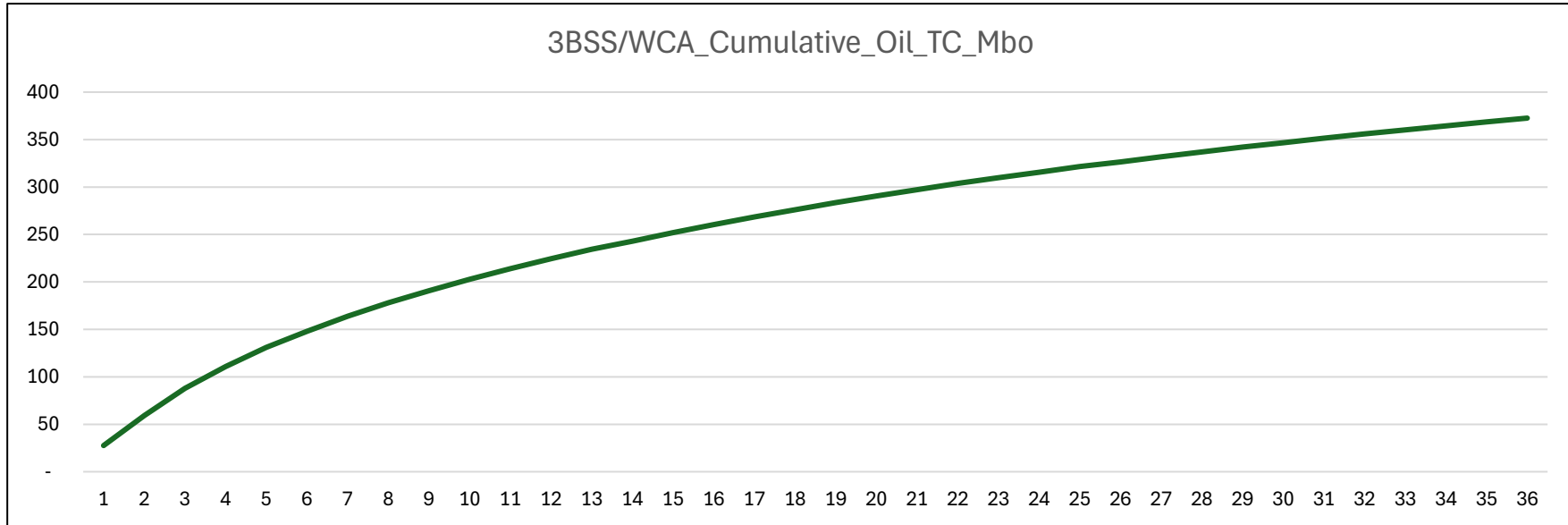
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize 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 702.H
LOCATION:	Section 28, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input type="checkbox"/> Contingency Cement Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> 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/ocd/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 520241

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520241
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
-------------------------------------	--

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 520241

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520241
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

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