

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-55653
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NWNW / 366 FNL / 636 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.019855 / LONG: -103.686556 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 1065 FWL / TWSP: 26S / RANGE: 32E / SECTION: 28 / LAT: 32.020586 / LONG: -103.685173 (TVD: 11771 feet, MD: 12129 feet)

BHL: LOT 4 / 50 FSL / 1065 FWL / TWSP: 26S / RANGE: 32E / SECTION: 33 / LAT: 32.00036 / LONG: -103.685166 (TVD: 11772 feet, MD: 19486 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2832 WC 703H
LOCATION:	Section 28, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

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

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

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **9-5/8** inch intermediate casing shall be set at approximately **4365 feet per BLM Geologist. Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** inch intermediate liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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

BOPE Break Testing Variance

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

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

Casing Clearance:

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

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

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

(575) 689-5981

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

JS 7/2/2025

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-025-55653	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 338328	Property Name ZIA HILLS UNIT 2832 WC	Well Number 703H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,159.30'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL D	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 366' FNL	Ft. from E/W 636' FWL	Latitude 32.019855°	Longitude -103.686556°	County LEA
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Bottom Hole Location

UL LOT 4	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 1,065' FWL	Latitude 32.000360°	Longitude -103.685166°	County LEA
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Dedicated Acres 898.92	Infill or Defining Well Infill	Defining Well API Pending 704H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL M	Section 21	Township 26S	Range 32E	Lot	Ft. from N/S 356' FSL	Ft. from E/W 1,115' FWL	Latitude 32.021840°	Longitude -103.685010°	County LEA
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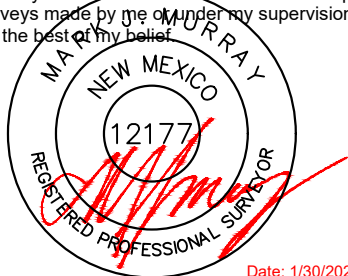
First Take Point (FTP)

UL D	Section 28	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,065' FWL	Latitude 32.020586°	Longitude -103.685173°	County LEA
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Last Take Point (LTP)

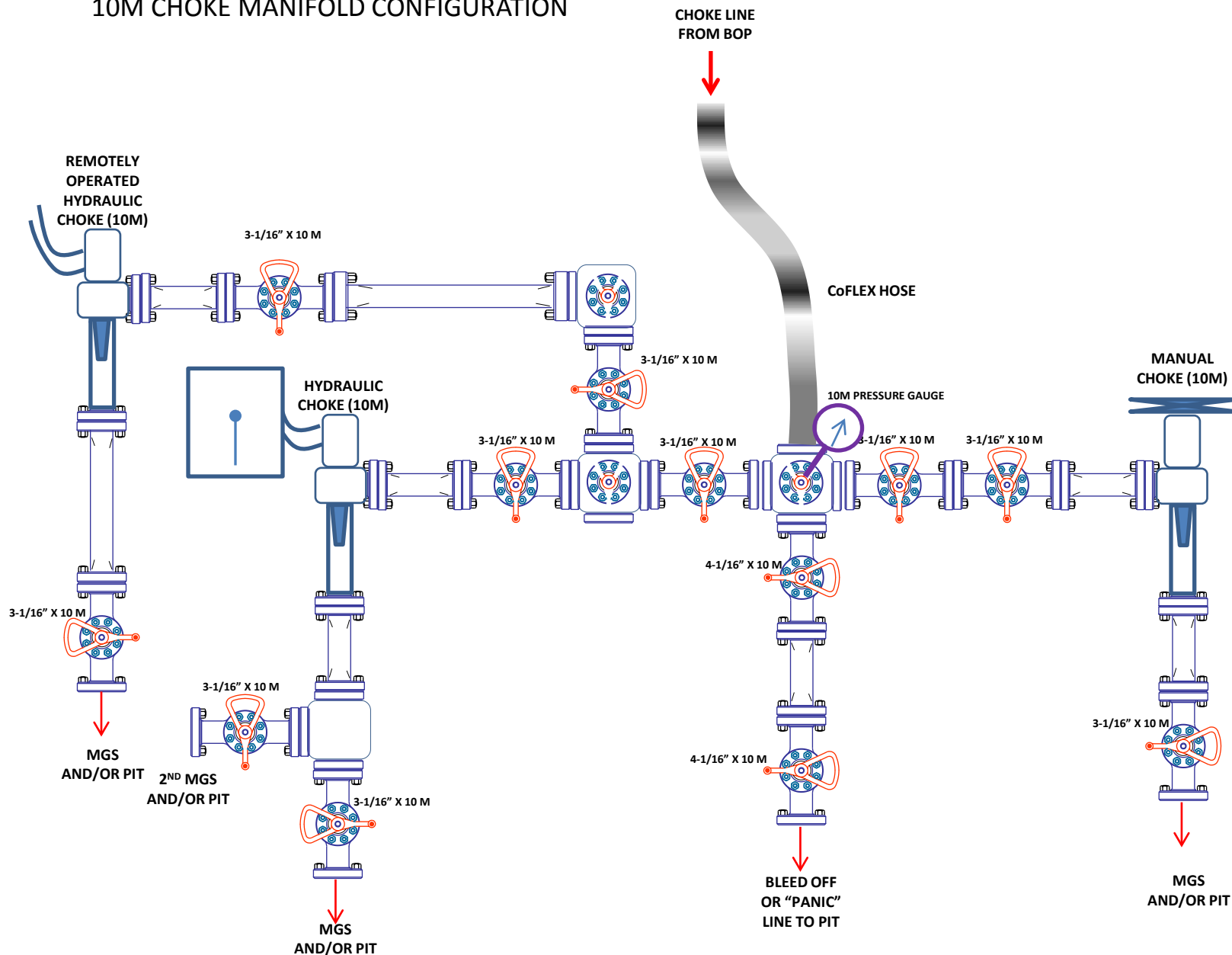
UL LOT 4	Section 33	Township 26S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1,065' FWL	Latitude 32.000498°	Longitude -103.685166°	County LEA
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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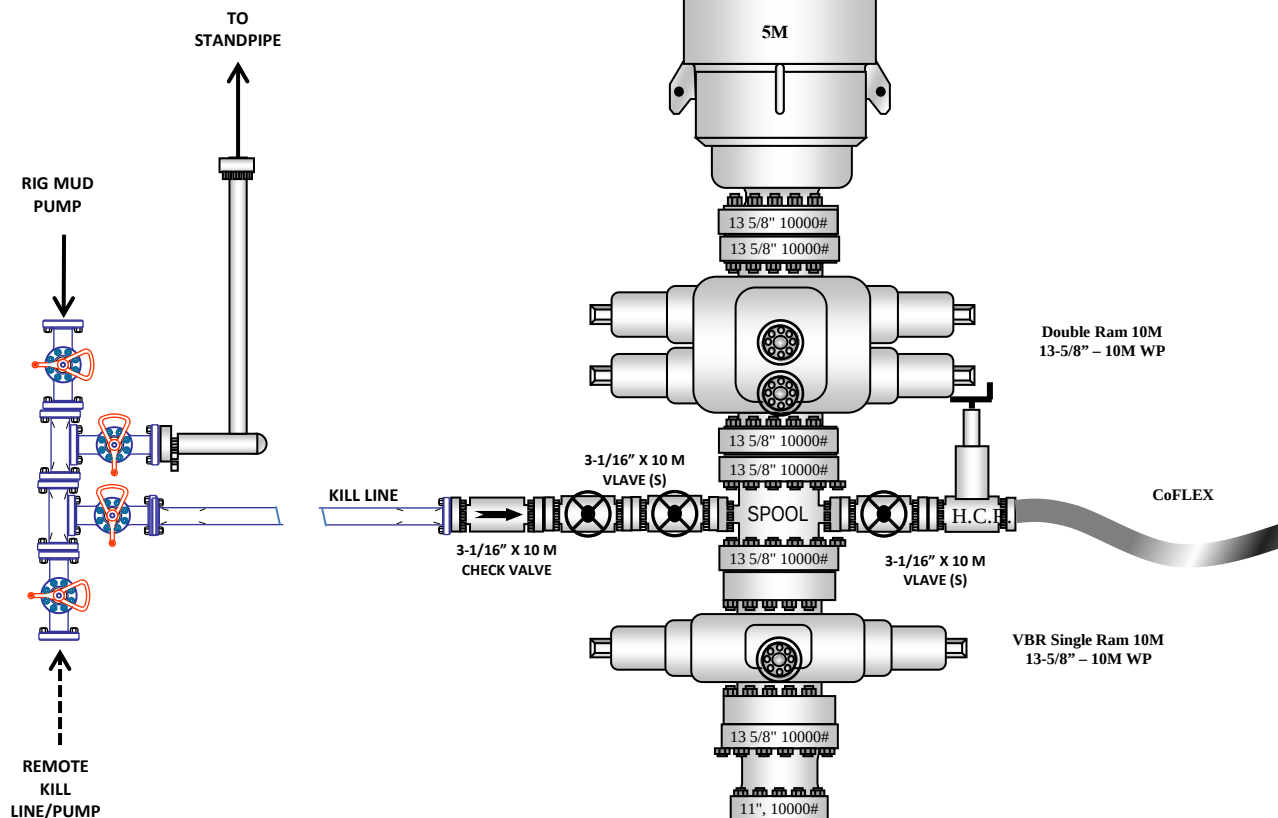
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 1/30/2025	
Signature 	Date 4/15/25	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner		Certificate Number 12177	Date of Survey 1/30/2025
Email Address			

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

10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



ConocoPhillips Company - Zia Hills Unit 2832 WC 703H

1. Geologic Formations

TVD of target	11,772' EOL	Pilot hole depth	NA
MD at TD:	19,486'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	966	Water	
Top of Salt	1297	Salt	
Base of Salt	3925	Salt	
Lamar	4402	Salt Water	
Bell Canyon	4406	Salt Water	
Cherry Canyon	5308	Oil/Gas	
Brushy Canyon	6803	Oil/Gas	
Bone Spring	8423	Oil/Gas	
1st Bone Spring Sand	9409	Oil/Gas	
2nd Bone Spring Sand	10068	Oil/Gas	
3rd Bone Spring Sand	11202	Oil/Gas	
Wolfcamp	11596	Target	
Wolfcamp A	11791	Not Penetrated	
Wolfcamp B	12138	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	4310	9.625"	40	L80-IC	BTC	1.73	1.31	5.31	5.49
8.75"	4110	11250	7.625"	29.7	P110-ICY	W513	1.26	1.56	3.20	1.92
6.75"	0	11050	5.5"	23	P110-CY	BTC	1.87	2.18	2.87	2.87
6.75"	11050	19,486	5.5"	23	P110-CY	W441	1.76	2.05	2.69	2.45
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 703H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

ConocoPhillips Company - Zia Hills Unit 2832 WC 703H

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	4,110'	20%
Production	10,750'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2832 WC 703H

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 703H

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 703H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8265 psi at 11772' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

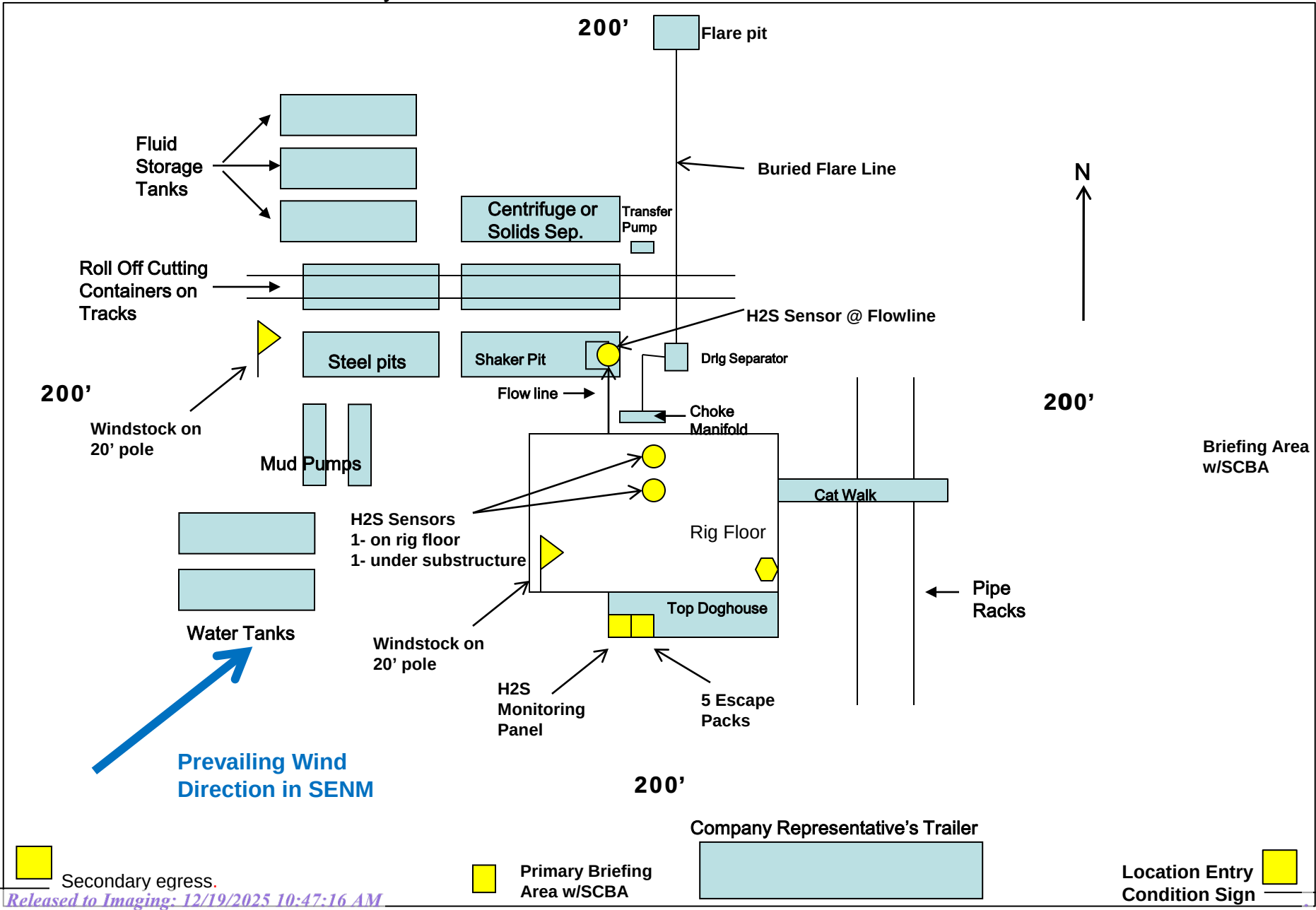
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

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

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

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



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 703H

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 703H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.3usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.3usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 703H	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	47,133.47793218

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	176.18

Plan Survey Tool Program		Date	2/25/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,486.4	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	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,873.2	15.46	33.23	2,863.8	86.7	56.8	2.00	2.00	0.00	33.23	
4,957.2	15.46	33.23	4,872.4	551.5	361.3	0.00	0.00	0.00	0.00	
6,503.5	0.00	0.00	6,400.0	725.0	475.0	1.00	-1.00	0.00	180.00	
11,398.0	0.00	0.00	11,294.5	725.0	475.0	0.00	0.00	0.00	0.00	
12,148.0	90.00	184.50	11,772.0	249.0	437.5	12.00	12.00	0.00	184.50	
12,390.9	90.00	179.64	11,772.0	6.4	428.8	2.00	0.00	-2.00	-90.00	
19,486.4	90.00	179.64	11,772.0	-7,089.0	473.1	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.3usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.3usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	2.00	33.23	2,200.0	1.5	1.0	-1.4	2.00	2.00	0.00
2,300.0	4.00	33.23	2,299.8	5.8	3.8	-5.6	2.00	2.00	0.00
2,400.0	6.00	33.23	2,399.5	13.1	8.6	-12.5	2.00	2.00	0.00
2,500.0	8.00	33.23	2,498.7	23.3	15.3	-22.3	2.00	2.00	0.00
2,600.0	10.00	33.23	2,597.5	36.4	23.9	-34.7	2.00	2.00	0.00
2,700.0	12.00	33.23	2,695.6	52.4	34.3	-50.0	2.00	2.00	0.00
2,800.0	14.00	33.23	2,793.1	71.2	46.6	-67.9	2.00	2.00	0.00
2,873.2	15.46	33.23	2,863.8	86.7	56.8	-82.8	2.00	2.00	0.00
2,900.0	15.46	33.23	2,889.7	92.7	60.8	-88.5	0.00	0.00	0.00
3,000.0	15.46	33.23	2,986.1	115.0	75.4	-109.8	0.00	0.00	0.00
3,100.0	15.46	33.23	3,082.4	137.3	90.0	-131.0	0.00	0.00	0.00
3,200.0	15.46	33.23	3,178.8	159.6	104.6	-152.3	0.00	0.00	0.00
3,300.0	15.46	33.23	3,275.2	181.9	119.2	-173.6	0.00	0.00	0.00
3,400.0	15.46	33.23	3,371.6	204.2	133.8	-194.9	0.00	0.00	0.00
3,500.0	15.46	33.23	3,468.0	226.5	148.4	-216.2	0.00	0.00	0.00
3,600.0	15.46	33.23	3,564.3	248.8	163.0	-237.4	0.00	0.00	0.00
3,700.0	15.46	33.23	3,660.7	271.1	177.6	-258.7	0.00	0.00	0.00
3,800.0	15.46	33.23	3,757.1	293.4	192.3	-280.0	0.00	0.00	0.00
3,900.0	15.46	33.23	3,853.5	315.7	206.9	-301.3	0.00	0.00	0.00
4,000.0	15.46	33.23	3,949.9	338.0	221.5	-322.6	0.00	0.00	0.00
4,100.0	15.46	33.23	4,046.2	360.4	236.1	-343.8	0.00	0.00	0.00
4,200.0	15.46	33.23	4,142.6	382.7	250.7	-365.1	0.00	0.00	0.00
4,300.0	15.46	33.23	4,239.0	405.0	265.3	-386.4	0.00	0.00	0.00
4,400.0	15.46	33.23	4,335.4	427.3	279.9	-407.7	0.00	0.00	0.00
4,500.0	15.46	33.23	4,431.8	449.6	294.5	-429.0	0.00	0.00	0.00
4,600.0	15.46	33.23	4,528.1	471.9	309.2	-450.2	0.00	0.00	0.00
4,700.0	15.46	33.23	4,624.5	494.2	323.8	-471.5	0.00	0.00	0.00
4,800.0	15.46	33.23	4,720.9	516.5	338.4	-492.8	0.00	0.00	0.00
4,900.0	15.46	33.23	4,817.3	538.8	353.0	-514.1	0.00	0.00	0.00
4,957.2	15.46	33.23	4,872.4	551.5	361.3	-526.2	0.00	0.00	0.00
5,000.0	15.03	33.23	4,913.7	560.9	367.5	-535.2	1.00	-1.00	0.00
5,100.0	14.03	33.23	5,010.5	581.9	381.3	-555.3	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.3usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.3usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	13.03	33.23	5,107.7	601.5	394.1	-573.9	1.00	-1.00	0.00	
5,300.0	12.03	33.23	5,205.3	619.7	406.0	-591.3	1.00	-1.00	0.00	
5,400.0	11.03	33.23	5,303.3	636.4	416.9	-607.2	1.00	-1.00	0.00	
5,500.0	10.03	33.23	5,401.6	651.7	427.0	-621.8	1.00	-1.00	0.00	
5,600.0	9.03	33.23	5,500.2	665.5	436.0	-635.0	1.00	-1.00	0.00	
5,700.0	8.03	33.23	5,599.1	678.0	444.2	-646.9	1.00	-1.00	0.00	
5,800.0	7.03	33.23	5,698.3	688.9	451.4	-657.3	1.00	-1.00	0.00	
5,900.0	6.03	33.23	5,797.6	698.4	457.6	-666.4	1.00	-1.00	0.00	
6,000.0	5.03	33.23	5,897.2	706.5	462.9	-674.1	1.00	-1.00	0.00	
6,100.0	4.03	33.23	5,996.8	713.1	467.2	-680.4	1.00	-1.00	0.00	
6,200.0	3.03	33.23	6,096.6	718.3	470.6	-685.4	1.00	-1.00	0.00	
6,300.0	2.03	33.23	6,196.5	722.0	473.0	-688.9	1.00	-1.00	0.00	
6,400.0	1.03	33.23	6,296.5	724.2	474.5	-691.0	1.00	-1.00	0.00	
6,500.0	0.03	33.23	6,396.5	725.0	475.0	-691.8	1.00	-1.00	0.00	
6,503.5	0.00	0.00	6,400.0	725.0	475.0	-691.8	1.00	-1.00	0.00	
6,600.0	0.00	0.00	6,496.5	725.0	475.0	-691.8	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,596.5	725.0	475.0	-691.8	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,696.5	725.0	475.0	-691.8	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,796.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,896.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,996.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,096.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,196.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,296.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,396.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,496.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,596.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,696.5	725.0	475.0	-691.8	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,796.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,896.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,996.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,096.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,196.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,296.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,396.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,496.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,596.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,696.5	725.0	475.0	-691.8	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,796.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,896.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,996.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,096.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,196.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,296.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,396.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,496.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,596.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,696.5	725.0	475.0	-691.8	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,796.5	725.0	475.0	-691.8	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,896.5	725.0	475.0	-691.8	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,996.5	725.0	475.0	-691.8	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,096.5	725.0	475.0	-691.8	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,196.5	725.0	475.0	-691.8	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,296.5	725.0	475.0	-691.8	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.3usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.3usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,396.5	725.0	475.0	-691.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,496.5	725.0	475.0	-691.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,596.5	725.0	475.0	-691.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,696.5	725.0	475.0	-691.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,796.5	725.0	475.0	-691.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,896.5	725.0	475.0	-691.8	0.00	0.00	0.00
11,100.0	0.00	0.00	10,996.5	725.0	475.0	-691.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,096.5	725.0	475.0	-691.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,196.5	725.0	475.0	-691.8	0.00	0.00	0.00
11,398.0	0.00	0.00	11,294.5	725.0	475.0	-691.8	0.00	0.00	0.00
11,400.0	0.24	184.50	11,296.5	725.0	475.0	-691.8	12.00	12.00	0.00
11,500.0	12.24	184.50	11,395.7	714.2	474.1	-681.0	12.00	12.00	0.00
11,600.0	24.24	184.50	11,490.5	683.0	471.7	-650.1	12.00	12.00	0.00
11,700.0	36.24	184.50	11,576.8	632.9	467.8	-600.4	12.00	12.00	0.00
11,800.0	48.24	184.50	11,650.7	566.0	462.5	-534.0	12.00	12.00	0.00
11,900.0	60.24	184.50	11,709.0	485.3	456.1	-453.8	12.00	12.00	0.00
12,000.0	72.24	184.50	11,749.2	394.2	449.0	-363.4	12.00	12.00	0.00
12,100.0	84.24	184.50	11,769.6	296.8	441.3	-266.7	12.00	12.00	0.00
12,148.0	90.00	184.50	11,772.0	249.0	437.5	-219.3	12.00	12.00	0.00
12,200.0	90.00	183.46	11,772.0	197.1	433.9	-167.8	2.00	0.00	-2.00
12,300.0	90.00	181.46	11,772.0	97.2	429.6	-68.4	2.00	0.00	-2.00
12,390.9	90.00	179.64	11,772.0	6.4	428.8	22.2	2.00	0.00	-2.00
12,400.0	90.00	179.64	11,772.0	-2.8	428.8	31.3	0.00	0.00	0.00
12,500.0	90.00	179.64	11,772.0	-102.8	429.4	131.1	0.00	0.00	0.00
12,600.0	90.00	179.64	11,772.0	-202.8	430.1	230.9	0.00	0.00	0.00
12,700.0	90.00	179.64	11,772.0	-302.8	430.7	330.8	0.00	0.00	0.00
12,800.0	90.00	179.64	11,772.0	-402.8	431.3	430.6	0.00	0.00	0.00
12,900.0	90.00	179.64	11,772.0	-502.8	431.9	530.4	0.00	0.00	0.00
13,000.0	90.00	179.64	11,772.0	-602.8	432.6	630.2	0.00	0.00	0.00
13,100.0	90.00	179.64	11,772.0	-702.8	433.2	730.0	0.00	0.00	0.00
13,200.0	90.00	179.64	11,772.0	-802.8	433.8	829.9	0.00	0.00	0.00
13,300.0	90.00	179.64	11,772.0	-902.7	434.4	929.7	0.00	0.00	0.00
13,400.0	90.00	179.64	11,772.0	-1,002.7	435.1	1,029.5	0.00	0.00	0.00
13,500.0	90.00	179.64	11,772.0	-1,102.7	435.7	1,129.3	0.00	0.00	0.00
13,600.0	90.00	179.64	11,772.0	-1,202.7	436.3	1,229.1	0.00	0.00	0.00
13,700.0	90.00	179.64	11,772.0	-1,302.7	436.9	1,328.9	0.00	0.00	0.00
13,800.0	90.00	179.64	11,772.0	-1,402.7	437.6	1,428.8	0.00	0.00	0.00
13,900.0	90.00	179.64	11,772.0	-1,502.7	438.2	1,528.6	0.00	0.00	0.00
14,000.0	90.00	179.64	11,772.0	-1,602.7	438.8	1,628.4	0.00	0.00	0.00
14,100.0	90.00	179.64	11,772.0	-1,702.7	439.4	1,728.2	0.00	0.00	0.00
14,200.0	90.00	179.64	11,772.0	-1,802.7	440.1	1,828.0	0.00	0.00	0.00
14,300.0	90.00	179.64	11,772.0	-1,902.7	440.7	1,927.8	0.00	0.00	0.00
14,400.0	90.00	179.64	11,772.0	-2,002.7	441.3	2,027.7	0.00	0.00	0.00
14,500.0	90.00	179.64	11,772.0	-2,102.7	441.9	2,127.5	0.00	0.00	0.00
14,600.0	90.00	179.64	11,772.0	-2,202.7	442.6	2,227.3	0.00	0.00	0.00
14,700.0	90.00	179.64	11,772.0	-2,302.7	443.2	2,327.1	0.00	0.00	0.00
14,800.0	90.00	179.64	11,772.0	-2,402.7	443.8	2,426.9	0.00	0.00	0.00
14,900.0	90.00	179.64	11,772.0	-2,502.7	444.4	2,526.8	0.00	0.00	0.00
15,000.0	90.00	179.64	11,772.0	-2,602.7	445.0	2,626.6	0.00	0.00	0.00
15,100.0	90.00	179.64	11,772.0	-2,702.7	445.7	2,726.4	0.00	0.00	0.00
15,200.0	90.00	179.64	11,772.0	-2,802.7	446.3	2,826.2	0.00	0.00	0.00
15,300.0	90.00	179.64	11,772.0	-2,902.7	446.9	2,926.0	0.00	0.00	0.00
15,400.0	90.00	179.64	11,772.0	-3,002.7	447.5	3,025.8	0.00	0.00	0.00
15,500.0	90.00	179.64	11,772.0	-3,102.7	448.2	3,125.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.3usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.3usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,600.0	90.00	179.64	11,772.0	-3,202.7	448.8	3,225.5	0.00	0.00	0.00
15,700.0	90.00	179.64	11,772.0	-3,302.7	449.4	3,325.3	0.00	0.00	0.00
15,800.0	90.00	179.64	11,772.0	-3,402.7	450.0	3,425.1	0.00	0.00	0.00
15,900.0	90.00	179.64	11,772.0	-3,502.7	450.7	3,524.9	0.00	0.00	0.00
16,000.0	90.00	179.64	11,772.0	-3,602.7	451.3	3,624.7	0.00	0.00	0.00
16,100.0	90.00	179.64	11,772.0	-3,702.7	451.9	3,724.6	0.00	0.00	0.00
16,200.0	90.00	179.64	11,772.0	-3,802.7	452.5	3,824.4	0.00	0.00	0.00
16,300.0	90.00	179.64	11,772.0	-3,902.7	453.2	3,924.2	0.00	0.00	0.00
16,400.0	90.00	179.64	11,772.0	-4,002.7	453.8	4,024.0	0.00	0.00	0.00
16,500.0	90.00	179.64	11,772.0	-4,102.7	454.4	4,123.8	0.00	0.00	0.00
16,600.0	90.00	179.64	11,772.0	-4,202.7	455.0	4,223.7	0.00	0.00	0.00
16,700.0	90.00	179.64	11,772.0	-4,302.7	455.7	4,323.5	0.00	0.00	0.00
16,800.0	90.00	179.64	11,772.0	-4,402.7	456.3	4,423.3	0.00	0.00	0.00
16,900.0	90.00	179.64	11,772.0	-4,502.7	456.9	4,523.1	0.00	0.00	0.00
17,000.0	90.00	179.64	11,772.0	-4,602.7	457.5	4,622.9	0.00	0.00	0.00
17,100.0	90.00	179.64	11,772.0	-4,702.7	458.2	4,722.7	0.00	0.00	0.00
17,200.0	90.00	179.64	11,772.0	-4,802.7	458.8	4,822.6	0.00	0.00	0.00
17,300.0	90.00	179.64	11,772.0	-4,902.7	459.4	4,922.4	0.00	0.00	0.00
17,400.0	90.00	179.64	11,772.0	-5,002.7	460.0	5,022.2	0.00	0.00	0.00
17,500.0	90.00	179.64	11,772.0	-5,102.7	460.7	5,122.0	0.00	0.00	0.00
17,600.0	90.00	179.64	11,772.0	-5,202.7	461.3	5,221.8	0.00	0.00	0.00
17,700.0	90.00	179.64	11,772.0	-5,302.7	461.9	5,321.7	0.00	0.00	0.00
17,800.0	90.00	179.64	11,772.0	-5,402.7	462.5	5,421.5	0.00	0.00	0.00
17,900.0	90.00	179.64	11,772.0	-5,502.7	463.1	5,521.3	0.00	0.00	0.00
18,000.0	90.00	179.64	11,772.0	-5,602.7	463.8	5,621.1	0.00	0.00	0.00
18,100.0	90.00	179.64	11,772.0	-5,702.7	464.4	5,720.9	0.00	0.00	0.00
18,200.0	90.00	179.64	11,772.0	-5,802.7	465.0	5,820.7	0.00	0.00	0.00
18,300.0	90.00	179.64	11,772.0	-5,902.7	465.6	5,920.6	0.00	0.00	0.00
18,400.0	90.00	179.64	11,772.0	-6,002.6	466.3	6,020.4	0.00	0.00	0.00
18,500.0	90.00	179.64	11,772.0	-6,102.6	466.9	6,120.2	0.00	0.00	0.00
18,600.0	90.00	179.64	11,772.0	-6,202.6	467.5	6,220.0	0.00	0.00	0.00
18,700.0	90.00	179.64	11,772.0	-6,302.6	468.1	6,319.8	0.00	0.00	0.00
18,800.0	90.00	179.64	11,772.0	-6,402.6	468.8	6,419.6	0.00	0.00	0.00
18,900.0	90.00	179.64	11,772.0	-6,502.6	469.4	6,519.5	0.00	0.00	0.00
19,000.0	90.00	179.64	11,772.0	-6,602.6	470.0	6,619.3	0.00	0.00	0.00
19,100.0	90.00	179.64	11,772.0	-6,702.6	470.6	6,719.1	0.00	0.00	0.00
19,200.0	90.00	179.64	11,772.0	-6,802.6	471.3	6,818.9	0.00	0.00	0.00
19,300.0	90.00	179.64	11,772.0	-6,902.6	471.9	6,918.7	0.00	0.00	0.00
19,400.0	90.00	179.64	11,772.0	-7,002.6	472.5	7,018.6	0.00	0.00	0.00
19,486.4	90.00	179.64	11,772.0	-7,089.0	473.1	7,104.7	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3186.3usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB @ 3186.3usft
Site:	ZIA HILLS UNIT 2832 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

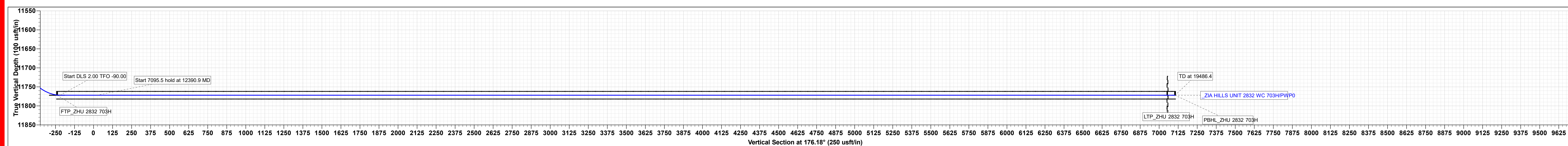
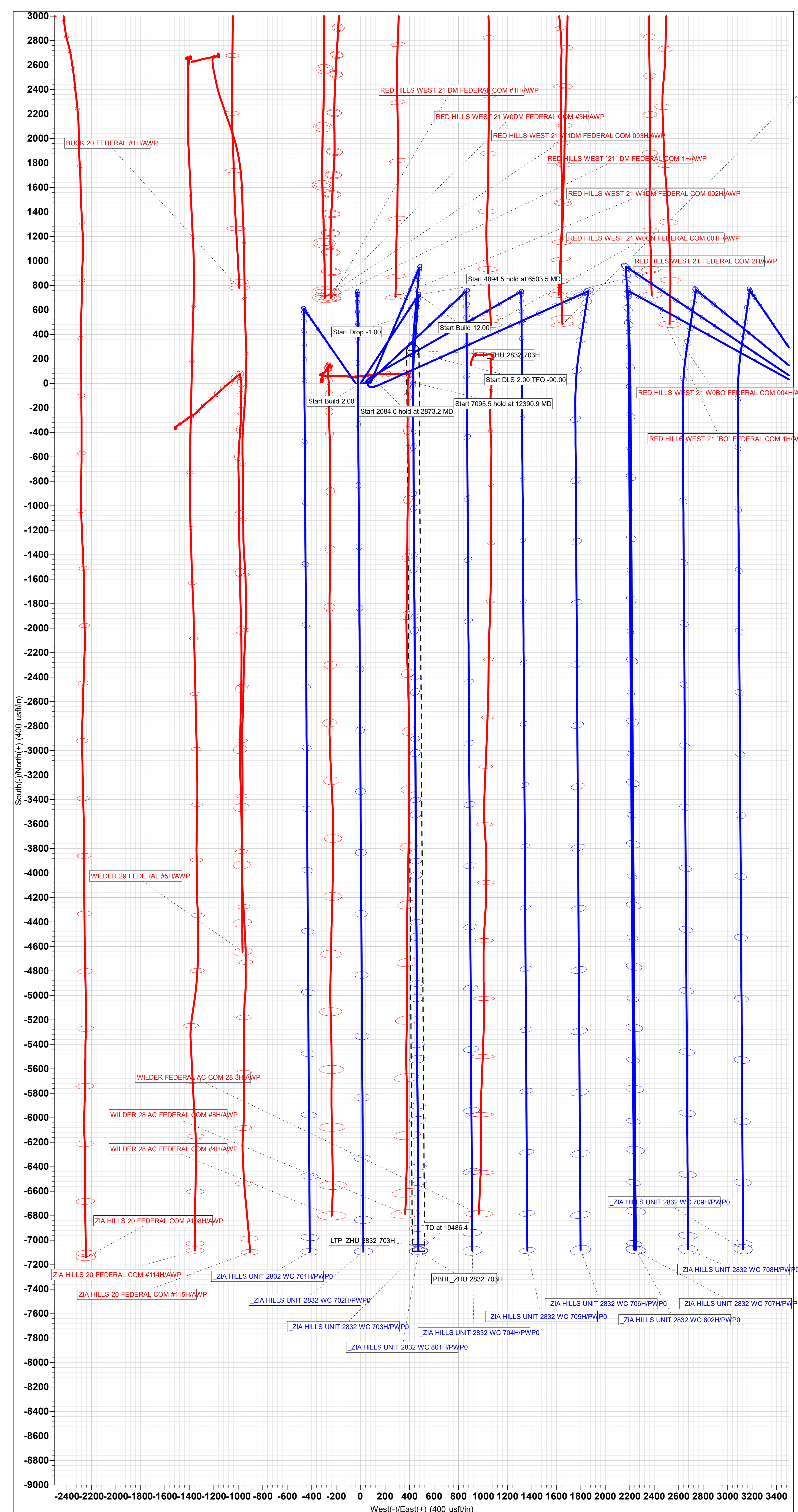
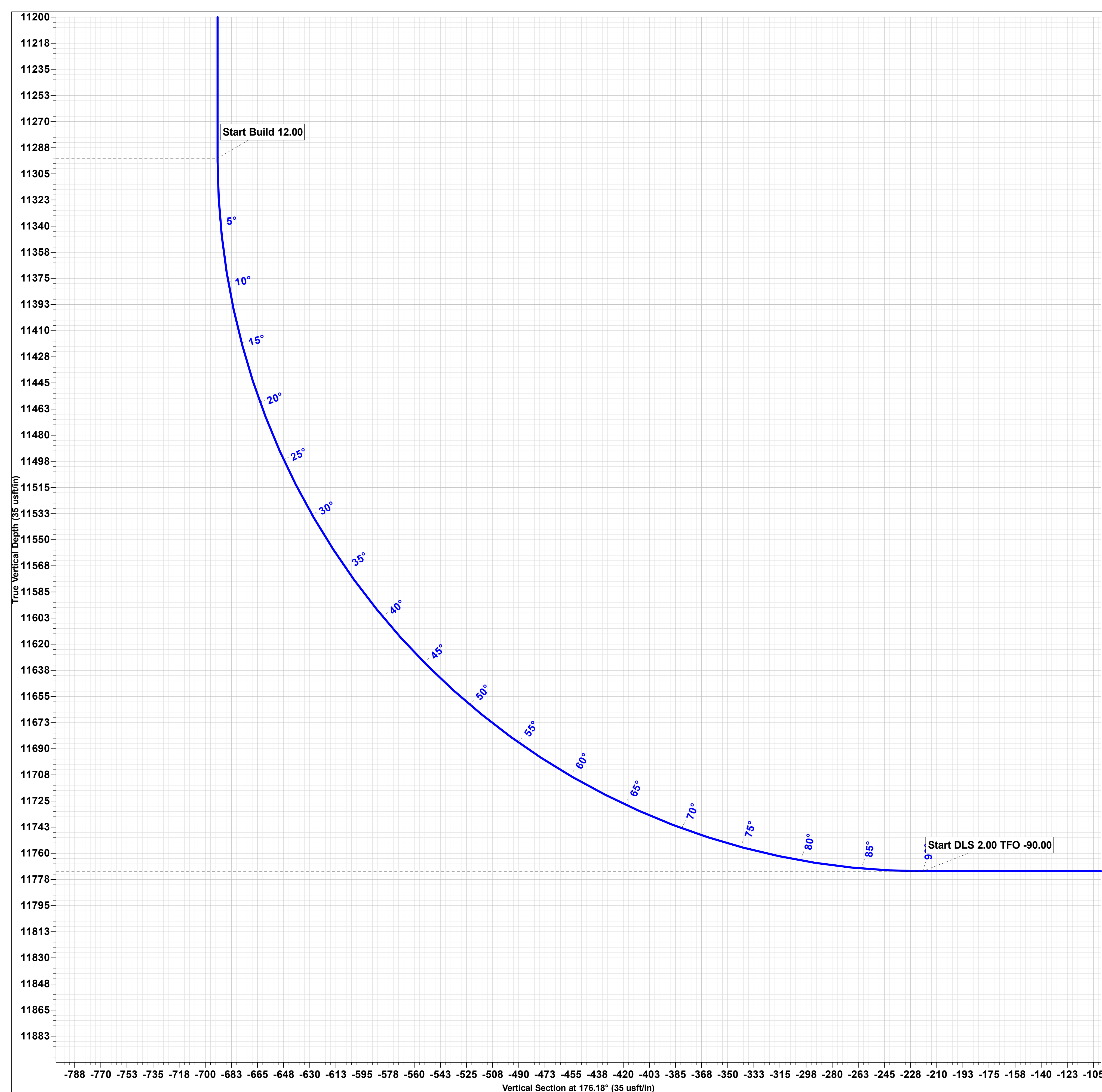
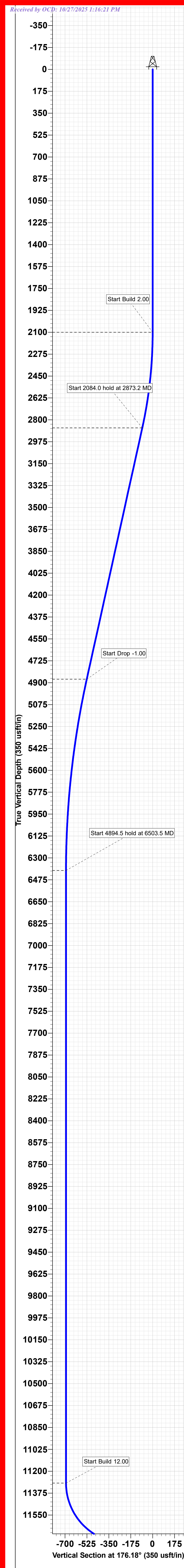
Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP_ZHU 2832 703H	0.00	0.00	11,772.0	268.7	427.2	371,773.59	701,029.19	32° 1' 13.660 N	103° 41' 4.931 W
- plan misses target center by 11.9usft at 12129.2usft MD (11771.6 TVD, 267.7 N, 439.0 E)									
- Circle (radius 50.0)									
PBHL_ZHU 2832 703H	0.00	359.64	11,772.0	-7,089.0	473.1	364,415.95	701,075.08	32° 0' 0.845 N	103° 41' 4.911 W
- plan hits target center									
- Rectangle (sides W100.0 H7,357.7 D20.0)									
LTP_ZHU 2832 703H	90.00	0.00	11,772.0	-7,039.0	472.7	364,465.95	701,074.76	32° 0' 1.340 N	103° 41' 4.911 W
- plan misses target center by 36.4usft at 19400.0usft MD (11772.0 TVD, -7002.6 N, 472.5 E)									
- Circle (radius 50.0)									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	19,486.4	11,772.0	5-1/2" Production Casing	5-1/2	6



Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2832 PROJECT
Well: ZIA HILLS UNIT 2832 WC 703H
Wellbore: OWB
Design: PWP0

SECTION DETAILS									
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
	2100.0	0.00	0.00	2100.0	0.0	0.0	0.00	0.00	0.0
	2873.2	15.46	33.23	2863.8	86.7	56.8	2.00	33.23	-82.8
	4957.2	15.46	33.23	4872.4	85.15	361.3	0.00	0.00	-526.2
	6503.5	0.00	0.00	6400.0	725.0	475.0	-1.00	180.00	-691.8
	11593.0	0.00	0.00	11294.5	725.0	475.0	0.00	0.00	-691.8
	12148.0	90.00	184.50	11772.0	249.0	437.5	12.00	184.50	-219.3
	12390.9	90.00	179.64	11772.0	6.4	428.8	2.00	-90.00	22.2
	19486.4	90.00	179.64	11772.0	-7089.0	473.1	0.00	0.00	7104.7



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2832 PROJECT

_ZIA HILLS UNIT 2832 WC 703H

OWB

PWP0

Anticollision Report

26 February, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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	19,486.4	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
RED HILLS WEST						
RED HILLS WEST 21 DM FEDERAL COM #1H - OWB -	9,390.4	13,689.6	718.1	599.5	6.053 CC, ES, SF	
RED HILLS WEST 21 W0DM FEDERAL COM #3H - OW	11,800.0	16,570.0	773.3	632.9	5.505 SF	
RED HILLS WEST 21 W0DM FEDERAL COM #3H - OW	11,811.6	16,570.0	773.2	632.8	5.508 CC, ES	
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,305.9	2,310.0	299.4	283.6	18.989 CC, ES	
WILDER 28 AC FEDERAL COM #4H - OWB - AWP	2,873.2	2,868.2	319.3	300.8	17.231 SF	
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	2,844.5	2,874.2	181.3	163.3	10.093 CC, ES	
WILDER 28 AC FEDERAL COM #8H - OWB - AWP	3,000.0	3,017.5	190.0	170.9	9.933 SF	
ZIA HILLS 20 FED COM PROJECT						
WILDER 29 FEDERAL #5H - 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						Out of range
ZIA HILLS UNIT 2032 PROJECT (S TO N)						
BUCK 20 FEDERAL #1H - OWB - AWP						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2832 PROJECT						
_ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0	2,000.0	1,999.7	40.0	27.0	3.088 CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	1,966.6	1,966.9	20.0	7.1	1.555 Caution - Monitor Closely, CC	
_ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0	2,100.0	2,100.3	20.1	6.9	1.519 Caution - Monitor Closely, ES, SF	
_ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0	2,010.0	2,010.1	20.0	7.0	1.542 Caution - Monitor Closely, CC, ES, SF	
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	2,368.6	2,366.7	39.5	26.9	3.133 CC	
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	2,400.0	2,397.7	39.6	26.9	3.112 ES	
_ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0	2,500.0	2,496.4	40.5	27.5	3.110 SF	
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	1,966.3	1,967.4	60.0	47.1	4.664 CC	
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	2,228.5	2,228.6	60.3	46.8	4.461 ES	
_ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0	2,300.0	2,299.1	60.7	47.0	4.439 SF	
_ZIA HILLS UNIT 2832 WC 707H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 708H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 709H - OWB - PWP0					Out of range	
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0	3,467.3	3,457.7	30.3	12.7	1.719 Caution - Monitor Closely, CC	
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0	3,500.0	3,490.3	30.4	12.3	1.680 Caution - Monitor Closely, ES	
_ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0	3,600.0	3,589.8	33.1	13.2	1.660 Caution - Monitor Closely, SF	
_ZIA HILLS UNIT 2832 WC 802H - OWB - PWP0					Out of range	
RED HILLS WEST '21' DM FEDERAL COM 1H - OWB -	9,388.4	13,689.6	718.1	600.1	6.086 CC, ES, SF	
RED HILLS WEST 21 'BO' FEDERAL COM 1H - OWB -					Out of range	
RED HILLS WEST 21 FEDERAL COM 2H - OWB - AWP					Out of range	
RED HILLS WEST 21 W0BO FEDERAL COM 004H - OW					Out of range	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	11,861.8	16,717.0	615.2	494.0	5.074 CC	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	11,875.0	16,723.8	615.4	493.9	5.066 ES	
RED HILLS WEST 21 W0CN FEDERAL COM 001H - OW	11,950.0	16,786.1	619.5	496.2	5.026 SF	
RED HILLS WEST 21 W1CN FEDERAL COM 002H - OW					Out of range	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	11,825.0	16,830.0	462.6	378.1	5.476 SF	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	11,875.0	16,830.0	452.9	372.0	5.600 ES	
RED HILLS WEST 21 W1DM FEDERAL COM 002H - O	11,898.0	16,830.0	451.8	372.9	5.731 CC	
RED HILLS WEST 21 W1DM FEDERAL COM 003H - O	11,800.0	16,570.0	773.4	658.1	6.710 SF	
RED HILLS WEST 21 W1DM FEDERAL COM 003H - O	11,811.6	16,570.0	773.3	658.1	6.712 CC, ES	
WILDER FEDERAL AC COM 28 3H - OWB - AWP	4,786.9	4,690.6	674.7	655.3	34.793 CC	
WILDER FEDERAL AC COM 28 3H - OWB - AWP	4,800.0	4,700.9	674.7	655.3	34.724 ES	
WILDER FEDERAL AC COM 28 3H - OWB - AWP	8,800.0	8,707.7	795.7	766.3	27.029 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						Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
8,700.0	8,596.5	13,658.9	9,285.6	23.6	82.3	-86.46	769.4	-242.4	995.7	900.6	95.09	10.471	
8,800.0	8,696.5	13,662.6	9,285.7	23.6	82.3	-86.75	765.8	-242.4	929.3	830.0	99.30	9.358	
8,900.0	8,796.5	13,666.6	9,285.9	23.7	82.4	-87.06	761.8	-242.5	869.3	765.6	103.74	8.380	
9,000.0	8,896.5	13,670.9	9,286.1	23.8	82.5	-87.41	757.5	-242.6	817.2	709.0	108.20	7.552	
9,100.0	8,996.5	13,675.6	9,286.3	23.8	82.5	-87.78	752.8	-242.7	774.5	662.2	112.36	6.893	
9,200.0	9,096.5	13,680.7	9,286.5	23.9	82.6	-88.19	747.7	-242.8	742.9	627.1	115.78	6.416	
9,300.0	9,196.5	13,685.5	9,286.7	23.9	82.7	-88.57	742.9	-242.9	723.8	605.8	117.99	6.134	
9,390.4	9,286.9	13,689.6	9,286.9	24.0	82.8	-88.90	738.8	-243.0	718.1	599.5	118.64	6.053 CC, ES, SF	
9,400.0	9,296.5	13,690.1	9,286.9	24.0	82.8	-88.93	738.4	-243.0	718.2	599.6	118.63	6.054	
9,500.0	9,396.5	13,694.4	9,287.1	24.0	82.8	-89.28	734.0	-243.1	726.4	608.8	117.60	6.177	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - 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		Offset Wellbore Centre			Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,600.0	9,496.5	13,698.5	9,287.3	24.1	82.9	-89.61	729.9	-243.2	748.0	633.0	115.09	6.500		
9,700.0	9,596.5	13,702.5	9,287.5	24.1	83.0	-89.93	725.9	-243.3	781.9	670.4	111.50	7.013		
9,800.0	9,696.5	13,706.3	9,287.6	24.2	83.0	-90.23	722.1	-243.3	826.6	719.2	107.32	7.702		
9,900.0	9,796.5	13,709.9	9,287.8	24.2	83.1	-90.52	718.5	-243.4	880.3	777.4	102.95	8.551		
10,000.0	9,896.5	13,713.4	9,287.9	24.3	83.1	-90.79	715.1	-243.5	941.6	842.9	98.72	9.539		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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											Offset Well Error:	2.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
11,300.0	11,196.5	16,564.1	11,756.0	25.0	100.4	-91.45	705.6	-292.0	949.5	826.5	123.07	7.715
11,398.0	11,294.5	16,561.9	11,756.0	25.1	100.4	-91.28	707.8	-292.0	895.3	767.3	127.97	6.996
11,400.0	11,296.5	16,561.9	11,756.0	25.1	100.4	84.36	707.9	-292.0	894.3	766.2	128.07	6.983
11,425.0	11,321.5	16,562.1	11,756.0	25.0	100.4	86.10	707.7	-292.0	881.6	752.3	129.32	6.818
11,450.0	11,346.4	16,563.5	11,756.0	25.0	100.4	87.66	706.2	-292.0	869.4	738.9	130.58	6.658
11,475.0	11,371.2	16,566.3	11,755.9	24.9	100.5	89.04	703.4	-291.9	857.7	725.9	131.84	6.506
11,500.0	11,395.7	16,570.0	11,755.8	24.8	100.5	90.27	699.7	-291.9	846.6	713.5	133.08	6.362
11,525.0	11,420.0	16,570.0	11,755.8	24.7	100.5	91.66	699.7	-291.9	836.1	701.9	134.20	6.230
11,550.0	11,444.0	16,570.0	11,755.8	24.7	100.5	92.95	699.7	-291.9	826.2	690.9	135.27	6.108
11,575.0	11,467.5	16,570.0	11,755.8	24.6	100.5	94.14	699.7	-291.9	817.0	680.7	136.27	5.995
11,600.0	11,490.5	16,570.0	11,755.8	24.5	100.5	95.21	699.7	-291.9	808.6	671.4	137.19	5.894
11,625.0	11,513.0	16,570.0	11,755.8	24.4	100.5	96.16	699.7	-291.9	800.9	662.9	138.02	5.803
11,650.0	11,535.0	16,570.0	11,755.8	24.3	100.5	97.00	699.7	-291.9	794.2	655.4	138.75	5.724
11,675.0	11,556.2	16,570.0	11,755.8	24.2	100.5	97.72	699.7	-291.9	788.3	648.9	139.36	5.656
11,700.0	11,576.8	16,570.0	11,755.8	24.1	100.5	98.32	699.7	-291.9	783.3	643.5	139.86	5.601
11,725.0	11,596.5	16,570.0	11,755.8	24.0	100.5	98.80	699.7	-291.9	779.4	639.1	140.23	5.558
11,750.0	11,615.5	16,570.0	11,755.8	24.0	100.5	99.16	699.7	-291.9	776.3	635.9	140.45	5.527
11,775.0	11,633.5	16,570.0	11,755.8	23.9	100.5	99.40	699.7	-291.9	774.3	633.8	140.54	5.510
11,800.0	11,650.7	16,570.0	11,755.8	23.8	100.5	99.51	699.7	-291.9	773.3	632.9	140.48	5.505 SF
11,811.6	11,658.3	16,570.0	11,755.8	23.8	100.5	99.53	699.7	-291.9	773.2	632.8	140.40	5.508 CC, ES
11,825.0	11,666.8	16,570.0	11,755.8	23.7	100.5	99.51	699.7	-291.9	773.4	633.1	140.27	5.514
11,850.0	11,682.0	16,570.0	11,755.8	23.7	100.5	99.39	699.7	-291.9	774.4	634.5	139.91	5.535
11,875.0	11,696.0	16,570.0	11,755.8	23.6	100.5	99.14	699.7	-291.9	776.5	637.1	139.41	5.570
11,900.0	11,709.0	16,570.0	11,755.8	23.6	100.5	98.77	699.7	-291.9	779.6	640.8	138.77	5.618
11,925.0	11,720.8	16,570.0	11,755.8	23.5	100.5	98.28	699.7	-291.9	783.7	645.7	138.00	5.679
11,950.0	11,731.5	16,570.0	11,755.8	23.5	100.5	97.67	699.7	-291.9	788.7	651.6	137.10	5.752
11,975.0	11,741.0	16,570.0	11,755.8	23.4	100.5	96.95	699.7	-291.9	794.6	658.5	136.09	5.839
12,000.0	11,749.2	16,570.0	11,755.8	23.4	100.5	96.10	699.7	-291.9	801.4	666.5	134.98	5.937
12,025.0	11,756.2	16,570.0	11,755.8	23.4	100.5	95.14	699.7	-291.9	809.1	675.3	133.79	6.048
12,050.0	11,761.9	16,570.0	11,755.8	23.4	100.5	94.06	699.7	-291.9	817.6	685.1	132.51	6.170
12,075.0	11,766.4	16,570.0	11,755.8	23.3	100.5	92.87	699.7	-291.9	826.8	695.7	131.17	6.304
12,100.0	11,769.6	16,570.0	11,755.8	23.3	100.5	91.57	699.7	-291.9	836.8	707.0	129.77	6.448
12,125.0	11,771.4	16,570.0	11,755.8	23.3	100.5	90.17	699.7	-291.9	847.4	719.0	128.33	6.603
12,148.0	11,772.0	16,570.0	11,755.8	23.3	100.5	88.79	699.7	-291.9	857.6	730.6	126.98	6.754
12,200.0	11,772.0	16,570.0	11,755.8	23.4	100.5	88.78	699.7	-291.9	883.0	759.1	123.90	7.127
12,300.0	11,772.0	16,570.0	11,755.8	23.4	100.5	88.75	699.7	-291.9	940.2	822.1	118.09	7.961

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning			
Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)		Factor		
0.0	0.0	0.0	8.3	3.0	3.0	-83.56	34.6	-306.0	308.1					
100.0	100.0	90.9	99.2	3.1	3.0	-83.57	34.5	-306.2	308.1	301.3	6.84	45.036		
200.0	200.0	190.5	198.8	3.3	3.0	-83.63	34.2	-306.6	308.5	301.4	7.09	43.478		
300.0	300.0	290.6	298.9	3.6	3.1	-83.72	33.8	-307.0	308.8	301.4	7.38	41.841		
400.0	400.0	390.9	399.2	3.8	3.2	-83.96	32.5	-307.4	309.2	301.5	7.69	40.182		
500.0	500.0	491.5	499.7	4.0	3.3	-84.41	30.2	-307.9	309.3	301.3	8.03	38.522		
600.0	600.0	591.7	599.9	4.1	3.5	-85.09	26.5	-308.2	309.4	301.0	8.39	36.888		
700.0	700.0	689.1	697.2	4.3	3.7	-85.85	22.4	-309.0	309.8	301.0	8.76	35.375		
800.0	800.0	788.2	796.2	4.5	3.9	-86.67	18.0	-310.3	310.9	301.7	9.15	33.991		
900.0	900.0	879.0	886.9	4.7	4.2	-87.42	14.1	-312.9	313.5	304.0	9.52	32.918		
1,000.0	1,000.0	976.4	984.1	4.8	4.4	-88.12	10.4	-317.8	318.3	308.5	9.77	32.576		
1,100.0	1,100.0	1,075.5	1,083.0	5.0	4.7	-88.54	8.2	-322.9	323.4	313.2	10.19	31.745		
1,200.0	1,200.0	1,187.7	1,195.2	5.2	5.0	-88.38	9.2	-326.5	326.7	316.1	10.64	30.695		
1,300.0	1,300.0	1,294.3	1,301.5	5.3	5.3	-87.17	16.1	-326.7	327.1	316.0	11.07	29.540		
1,400.0	1,400.0	1,401.1	1,407.6	5.5	5.5	-85.00	28.4	-324.7	326.0	314.5	11.51	28.333		
1,500.0	1,500.0	1,507.9	1,513.3	5.6	5.8	-82.44	42.4	-319.3	322.3	310.4	11.95	26.970		
1,600.0	1,600.0	1,607.8	1,612.2	5.8	6.1	-80.03	55.0	-313.2	318.3	305.9	12.40	25.673		
1,700.0	1,700.0	1,707.4	1,710.9	5.9	6.5	-77.69	67.0	-307.2	314.6	301.8	12.85	24.480		
1,800.0	1,800.0	1,807.5	1,810.2	6.0	6.8	-75.40	78.4	-301.1	311.3	298.0	13.32	23.369		
1,900.0	1,900.0	1,909.3	1,911.1	6.2	7.1	-73.04	89.8	-294.3	307.9	294.1	13.80	22.313		
2,000.0	2,000.0	2,009.0	2,010.0	6.3	7.5	-70.71	100.5	-287.1	304.4	290.1	14.28	21.312		
2,100.0	2,100.0	2,107.2	2,107.5	6.5	7.8	-68.49	110.5	-280.4	301.5	286.7	14.77	20.418		
2,200.0	2,200.0	2,204.9	2,204.5	6.7	8.1	-99.98	119.9	-274.4	299.8	284.6	15.25	19.658		
2,300.0	2,299.8	2,304.2	2,303.4	6.9	8.5	-99.20	127.9	-269.5	299.4	283.6	15.74	19.024		
2,305.9	2,305.7	2,310.0	2,309.2	6.9	8.5	-99.19	128.2	-269.3	299.4	283.6	15.77	18.989 CC, ES		
2,400.0	2,399.5	2,402.1	2,401.1	7.1	8.8	-99.68	132.9	-266.4	299.9	283.7	16.21	18.502		
2,500.0	2,498.7	2,502.7	2,501.6	7.4	9.1	-101.24	136.0	-264.2	301.4	284.7	16.69	18.057		
2,600.0	2,597.5	2,602.5	2,601.3	7.6	9.5	-103.52	138.4	-262.1	303.6	286.5	17.18	17.679		
2,700.0	2,695.6	2,701.1	2,699.9	7.9	9.8	-106.46	140.1	-260.2	307.3	289.6	17.67	17.395		
2,800.0	2,793.1	2,798.1	2,796.9	8.2	10.1	-109.95	141.0	-258.6	313.1	295.0	18.17	17.234		
2,873.2	2,863.8	2,868.2	2,867.0	8.4	10.4	-112.74	141.5	-257.7	319.3	300.8	18.53	17.231 SF		
2,900.0	2,889.7	2,894.0	2,892.8	8.5	10.4	-113.84	141.7	-257.4	321.9	303.3	18.66	17.256		
3,000.0	2,986.1	2,990.1	2,988.9	8.8	10.8	-117.77	142.3	-256.5	333.0	313.8	19.21	17.337		
3,100.0	3,082.4	3,086.1	3,084.9	9.1	11.1	-121.48	142.7	-255.8	345.8	326.0	19.77	17.486		
3,200.0	3,178.8	3,183.7	3,182.4	9.4	11.4	-125.01	143.0	-254.9	359.9	339.5	20.38	17.662		
3,300.0	3,275.2	3,280.3	3,279.1	9.7	11.7	-128.22	143.4	-253.9	375.1	354.1	20.99	17.868		
3,400.0	3,371.6	3,377.6	3,376.3	10.1	12.1	-131.19	143.9	-252.9	391.4	369.8	21.64	18.089		
3,500.0	3,468.0	3,472.8	3,471.5	10.4	12.4	-133.86	144.5	-251.8	408.6	386.3	22.29	18.331		
3,600.0	3,564.3	3,564.9	3,563.6	10.8	12.7	-136.28	144.5	-251.6	427.6	404.7	22.93	18.644		
3,700.0	3,660.7	3,661.4	3,660.1	11.2	13.0	-138.63	144.3	-251.8	447.8	424.2	23.62	18.960		
3,800.0	3,757.1	3,760.5	3,759.2	11.6	13.3	-140.91	143.5	-251.4	468.3	444.0	24.34	19.245		
3,900.0	3,853.5	3,859.6	3,858.3	12.0	13.7	-143.03	142.8	-250.3	488.8	463.8	25.07	19.499		
4,000.0	3,949.9	3,956.4	3,955.1	12.4	14.0	-144.97	142.0	-248.9	509.6	483.8	25.80	19.750		
4,100.0	4,046.2	4,054.1	4,052.8	12.8	14.3	-146.81	140.7	-247.3	531.0	504.4	26.56	19.994		
4,200.0	4,142.6	4,151.9	4,150.6	13.2	14.7	-148.57	139.2	-245.0	552.3	525.0	27.32	20.216		
4,300.0	4,239.0	4,245.0	4,243.6	13.7	15.0	-150.11	137.8	-243.0	574.3	546.2	28.06	20.467		
4,400.0	4,335.4	4,339.6	4,338.2	14.1	15.3	-151.51	136.6	-241.8	597.3	568.5	28.81	20.731		
4,500.0	4,431.8	4,434.8	4,433.4	14.5	15.6	-152.81	135.5	-240.7	620.6	591.2	29.40	21.108		
4,600.0	4,528.1	4,529.5	4,528.0	15.0	15.9	-153.93	134.9	-240.2	644.5	614.3	30.16	21.370		
4,700.0	4,624.5	4,624.5	4,623.1	15.4	16.3	-154.82	135.7	-240.9	668.8	637.9	30.91	21.635		
4,800.0	4,720.9	4,720.5	4,719.1	15.9	16.6	-155.58	137.3	-242.2	693.4	661.8	31.68	21.891		

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #4H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 141-MWD - OWSG R1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,817.3	4,817.9	4,816.4	16.3	16.9	-156.30	138.8	-243.4	718.1	685.7	32.45	22.128	
4,957.2	4,872.4	4,872.6	4,871.1	16.6	17.1	-156.69	139.6	-244.1	732.2	699.4	32.88	22.270	
5,000.0	4,913.7	4,913.1	4,911.6	16.7	17.2	-157.01	140.2	-244.6	742.8	709.6	33.20	22.375	
5,100.0	5,010.5	5,009.1	5,007.6	17.2	17.6	-157.69	141.5	-245.9	766.4	732.4	33.96	22.565	
5,200.0	5,107.7	5,106.1	5,104.6	17.6	17.9	-158.28	142.7	-247.2	788.5	753.8	34.73	22.705	
5,300.0	5,205.3	5,205.0	5,203.4	18.1	18.2	-158.81	144.0	-248.5	809.1	773.6	35.50	22.789	
5,400.0	5,303.3	5,299.8	5,298.3	18.5	18.6	-159.23	145.2	-249.9	828.2	792.0	36.24	22.854	
5,500.0	5,401.6	5,398.0	5,396.4	19.0	18.9	-159.61	146.2	-251.4	846.0	809.0	36.99	22.869	
5,600.0	5,500.2	5,499.4	5,497.8	19.4	19.2	-159.94	147.5	-252.9	862.0	824.3	37.76	22.829	
5,700.0	5,599.1	5,598.6	5,597.0	19.8	19.6	-160.19	148.8	-254.3	876.2	837.7	38.50	22.759	
5,800.0	5,698.3	5,696.8	5,695.1	20.2	19.9	-160.40	150.1	-255.6	888.9	849.7	39.22	22.663	
5,900.0	5,797.6	5,794.8	5,793.2	20.6	20.3	-160.56	151.3	-257.1	900.0	860.1	39.93	22.542	
6,000.0	5,897.2	5,893.4	5,891.7	21.0	20.6	-160.66	152.6	-258.7	909.7	869.1	40.62	22.394	
6,100.0	5,996.8	5,993.4	5,991.8	21.3	20.9	-160.80	152.9	-259.6	917.7	876.4	41.31	22.214	
6,200.0	6,096.6	6,090.5	6,088.9	21.7	21.3	-160.97	152.1	-259.9	924.2	882.3	41.96	22.025	
6,300.0	6,196.5	6,188.0	6,186.3	22.0	21.6	-161.13	150.9	-260.2	929.4	886.8	42.59	21.822	
6,400.0	6,296.5	6,288.2	6,286.6	22.3	21.9	-161.25	149.5	-260.5	933.0	889.8	43.21	21.593	
6,500.0	6,396.5	6,387.8	6,386.1	22.5	22.3	-161.32	148.2	-260.8	935.0	891.3	43.70	21.394	
6,503.5	6,400.0	6,391.3	6,389.6	22.5	22.3	-128.10	148.1	-260.8	935.0	891.3	43.72	21.387	
6,600.0	6,496.5	6,485.6	6,483.9	22.5	22.6	-128.14	146.9	-261.3	936.2	892.1	44.08	21.237	
6,700.0	6,596.5	6,582.9	6,581.2	22.6	22.9	-128.18	145.4	-262.0	937.7	893.3	44.46	21.092	
6,800.0	6,696.5	6,683.7	6,682.0	22.6	23.3	-128.24	143.7	-262.7	939.4	894.5	44.87	20.938	
6,900.0	6,796.5	6,792.6	6,790.9	22.7	23.7	-128.29	142.2	-263.3	940.6	895.2	45.34	20.746	
7,000.0	6,896.5	6,895.2	6,893.5	22.7	24.0	-128.33	141.5	-263.1	940.9	895.1	45.76	20.560	
7,100.0	6,996.5	6,992.5	6,990.7	22.8	24.4	-128.37	140.7	-263.0	941.3	895.2	46.15	20.398	
7,200.0	7,096.5	7,087.8	7,086.1	22.8	24.7	-128.41	139.7	-263.3	942.2	895.7	46.52	20.253	
7,300.0	7,196.5	7,187.1	7,185.3	22.9	25.0	-128.45	138.5	-263.8	943.4	896.4	46.92	20.104	
7,400.0	7,296.5	7,284.9	7,283.1	22.9	25.4	-128.49	137.1	-264.3	944.6	897.3	47.32	19.963	
7,500.0	7,396.5	7,382.9	7,381.1	23.0	25.7	-128.52	135.8	-265.1	946.2	898.5	47.72	19.829	
7,600.0	7,496.5	7,482.0	7,480.2	23.0	26.0	-128.55	134.4	-266.2	947.9	899.7	48.13	19.695	
7,700.0	7,596.5	7,582.0	7,580.1	23.1	26.4	-128.56	133.1	-267.4	949.6	901.0	48.54	19.562	
7,800.0	7,696.5	7,682.4	7,680.5	23.1	26.7	-128.58	131.9	-268.6	951.3	902.4	48.96	19.429	
7,900.0	7,796.5	7,793.3	7,791.4	23.2	27.1	-128.63	130.4	-269.0	952.4	903.0	49.47	19.253	
8,000.0	7,896.5	7,900.5	7,898.6	23.2	27.5	-128.74	129.0	-267.9	952.4	902.5	49.95	19.068	
8,100.0	7,996.5	7,999.3	7,997.4	23.3	27.8	-128.84	127.8	-266.7	952.3	901.9	50.37	18.907	
8,171.2	8,067.7	8,069.6	8,067.7	23.3	28.1	-128.90	127.0	-266.0	952.2	901.6	50.67	18.794	
8,200.0	8,096.5	8,096.8	8,094.9	23.3	28.2	-128.93	126.7	-265.8	952.3	901.5	50.78	18.753	
8,300.0	8,196.5	8,195.3	8,193.4	23.4	28.5	-128.99	125.6	-265.4	952.6	901.4	51.20	18.607	
8,400.0	8,296.5	8,298.6	8,296.7	23.4	28.9	-129.03	125.0	-265.1	952.8	901.1	51.65	18.447	
8,500.0	8,396.5	8,399.4	8,397.5	23.5	29.2	-129.02	125.2	-265.1	952.7	900.6	52.08	18.293	
8,600.0	8,496.5	8,499.8	8,497.9	23.5	29.6	-128.98	125.8	-265.5	952.6	900.0	52.51	18.142	
8,700.0	8,596.5	8,599.7	8,597.8	23.6	29.9	-128.90	126.9	-266.2	952.4	899.5	52.93	17.994	
8,733.9	8,630.5	8,632.4	8,630.4	23.6	30.0	-128.87	127.4	-266.5	952.4	899.3	53.06	17.948	
8,800.0	8,696.5	8,691.0	8,689.1	23.6	30.2	-128.81	128.0	-267.3	952.6	899.3	53.29	17.876	
8,900.0	8,796.5	8,765.7	8,763.8	23.7	30.5	-128.78	127.5	-268.6	954.5	901.0	53.52	17.833	
9,000.0	8,896.5	8,820.0	8,817.8	23.8	30.7	-129.00	122.7	-268.9	960.4	906.8	53.56	17.933	
9,100.0	8,996.5	8,873.0	8,869.7	23.8	30.9	-129.51	112.5	-267.9	971.1	917.6	53.51	18.148	
9,200.0	9,096.5	8,925.8	8,920.6	23.9	31.0	-130.21	98.3	-266.3	986.5	933.1	53.40	18.473	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 174-MWD - OWSG R1												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	6.3	3.0	0.0	-74.64	84.3	-306.9	318.3				
100.0	100.0	91.9	98.2	3.1	0.1	-74.63	84.4	-307.1	318.5	313.3	5.15	61.790	
200.0	200.0	190.2	196.5	3.3	0.3	-74.62	84.7	-307.9	319.3	313.8	5.49	58.160	
300.0	300.0	289.7	296.0	3.6	0.7	-74.65	84.9	-309.1	320.5	314.7	5.86	54.702	
400.0	400.0	390.1	396.3	3.8	1.0	-74.75	84.6	-310.4	321.7	315.5	6.25	51.461	
500.0	500.0	490.2	496.4	4.0	1.4	-74.93	83.9	-311.7	322.8	316.2	6.66	48.454	
600.0	600.0	590.8	597.0	4.1	1.8	-75.23	82.6	-313.2	323.9	316.8	7.09	45.688	
700.0	700.0	690.6	696.8	4.3	2.1	-75.64	80.6	-314.6	324.8	317.3	7.53	43.161	
800.0	800.0	788.0	794.2	4.5	2.5	-76.04	78.6	-316.4	326.1	318.1	7.97	40.929	
900.0	900.0	881.1	887.2	4.7	2.8	-76.49	76.8	-319.5	328.8	320.4	8.40	39.126	
1,000.0	1,000.0	973.1	979.0	4.8	3.1	-76.95	75.3	-324.6	333.9	325.2	8.68	38.457	
1,100.0	1,100.0	1,077.0	1,082.7	5.0	3.5	-77.49	73.5	-331.3	339.8	330.6	9.17	37.064	
1,200.0	1,200.0	1,199.5	1,205.1	5.2	4.0	-78.19	69.9	-334.2	341.5	331.8	9.71	35.177	
1,300.0	1,300.0	1,318.0	1,323.5	5.3	4.4	-78.61	66.4	-329.7	337.1	326.9	10.20	33.033	
1,400.0	1,400.0	1,427.3	1,432.4	5.5	4.7	-78.70	64.0	-320.5	328.4	317.8	10.67	30.779	
1,500.0	1,500.0	1,533.9	1,538.3	5.6	5.1	-78.55	62.5	-308.7	317.3	306.2	11.13	28.505	
1,600.0	1,600.0	1,637.2	1,640.7	5.8	5.4	-78.21	61.7	-295.5	304.6	293.0	11.59	26.269	
1,700.0	1,700.0	1,735.0	1,737.6	5.9	5.8	-77.83	60.9	-282.3	291.2	279.2	12.06	24.142	
1,800.0	1,800.0	1,833.0	1,834.8	6.0	6.1	-77.43	60.1	-269.5	278.3	265.8	12.54	22.202	
1,900.0	1,900.0	1,930.1	1,931.2	6.2	6.5	-76.89	60.0	-257.6	266.3	253.3	13.02	20.463	
2,000.0	2,000.0	2,030.4	2,030.7	6.3	6.8	-76.06	60.9	-245.2	254.5	241.0	13.50	18.858	
2,100.0	2,100.0	2,132.3	2,131.7	6.5	7.2	-75.07	61.8	-231.8	242.0	228.0	13.98	17.310	
2,200.0	2,200.0	2,234.4	2,232.7	6.7	7.6	-107.90	62.3	-217.1	228.7	214.3	14.47	15.810	
2,300.0	2,299.8	2,334.0	2,331.1	6.9	8.0	-108.41	62.3	-202.0	215.8	200.8	14.96	14.422	
2,400.0	2,399.5	2,430.4	2,426.6	7.1	8.4	-110.32	60.7	-188.4	204.5	189.0	15.47	13.222	
2,500.0	2,498.7	2,526.3	2,521.7	7.4	8.8	-113.46	58.7	-176.8	196.7	180.7	15.99	12.303	
2,600.0	2,597.5	2,627.5	2,622.2	7.6	9.1	-117.19	59.0	-164.6	191.4	174.9	16.52	11.590	
2,700.0	2,695.6	2,731.8	2,725.3	7.9	9.6	-121.46	61.6	-149.2	186.1	169.0	17.06	10.906	
2,800.0	2,793.1	2,831.5	2,823.6	8.2	10.0	-126.83	63.4	-132.4	181.8	164.2	17.67	10.289	
2,844.5	2,836.2	2,874.2	2,865.7	8.3	10.1	-129.76	63.1	-125.3	181.3	163.3	17.96	10.093 CC, ES	
2,873.2	2,863.8	2,900.3	2,891.5	8.4	10.3	-131.71	62.6	-121.1	181.7	163.5	18.17	10.002	
2,900.0	2,889.7	2,924.7	2,915.5	8.5	10.4	-133.60	61.9	-117.4	182.6	164.3	18.35	9.952	
3,000.0	2,986.1	3,017.5	3,007.4	8.8	10.7	-140.85	58.1	-104.7	190.0	170.9	19.13	9.933 SF	
3,100.0	3,082.4	3,115.3	3,104.3	9.1	11.1	-147.75	54.2	-91.9	201.2	181.3	19.94	10.090	
3,200.0	3,178.8	3,215.9	3,203.9	9.4	11.5	-153.79	51.8	-77.9	213.5	192.7	20.77	10.277	
3,300.0	3,275.2	3,314.6	3,301.6	9.7	11.9	-158.56	51.8	-64.0	226.2	204.6	21.60	10.476	
3,400.0	3,371.6	3,410.2	3,396.3	10.1	12.3	-162.50	52.4	-51.1	240.6	218.1	22.41	10.734	
3,500.0	3,468.0	3,504.3	3,489.8	10.4	12.7	-165.81	52.7	-39.7	257.1	233.8	23.21	11.074	
3,600.0	3,564.3	3,602.9	3,587.8	10.8	13.1	-168.63	53.2	-28.9	275.1	251.1	24.02	11.452	
3,700.0	3,660.7	3,706.4	3,690.5	11.2	13.5	-171.06	55.4	-17.3	292.3	267.5	24.84	11.768	
3,800.0	3,757.1	3,805.8	3,789.2	11.6	13.9	-173.18	58.4	-5.0	308.5	282.9	25.65	12.028	
3,900.0	3,853.5	3,900.9	3,883.4	12.0	14.3	-175.14	60.6	7.2	325.4	298.9	26.45	12.301	
4,000.0	3,949.9	3,994.3	3,976.1	12.4	14.7	-176.93	61.6	18.8	343.8	316.5	27.25	12.616	
4,100.0	4,046.2	4,089.2	4,070.3	12.8	15.0	-178.59	61.8	30.0	363.5	335.5	28.05	12.959	
4,200.0	4,142.6	4,183.7	4,164.2	13.2	15.4	179.91	61.5	41.0	384.2	355.4	28.85	13.319	
4,300.0	4,239.0	4,284.1	4,264.0	13.7	15.8	178.60	61.4	51.8	405.3	375.6	29.68	13.656	
4,400.0	4,335.4	4,390.4	4,369.7	14.1	16.2	177.58	63.6	62.7	425.0	394.4	30.53	13.920	
4,500.0	4,431.8	4,487.0	4,465.7	14.5	16.6	176.69	66.2	73.4	443.9	412.8	31.16	14.246	
4,600.0	4,528.1	4,585.0	4,563.0	15.0	17.0	175.72	68.0	85.1	463.2	431.2	31.98	14.484	
4,700.0	4,624.5	4,684.7	4,661.8	15.4	17.4	174.71	69.7	97.9	482.3	449.5	32.82	14.696	
4,800.0	4,720.9	4,781.5	4,757.8	15.9	17.8	173.74	71.2	110.8	501.4	467.8	33.64	14.905	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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: Reference		174-MWD - OWSG R1 Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,900.0	4,817.3	4,877.5	4,852.9	16.3	18.2	172.90	72.6	123.0	521.0	486.6	34.46	15.121		
4,957.2	4,872.4	4,932.8	4,907.8	16.6	18.4	172.48	73.4	129.7	532.4	497.5	34.92	15.249		
5,000.0	4,913.7	4,975.0	4,949.7	16.7	18.6	172.19	74.1	134.8	540.8	505.5	35.26	15.338		
5,100.0	5,010.5	5,073.4	5,047.4	17.2	19.0	171.53	75.7	146.6	559.2	523.1	36.08	15.496		
5,200.0	5,107.7	5,167.5	5,140.8	17.6	19.3	170.91	77.2	157.8	576.1	539.2	36.87	15.623		
5,300.0	5,205.3	5,260.0	5,232.7	18.1	19.7	170.26	77.3	168.9	592.5	554.9	37.64	15.742		
5,400.0	5,303.3	5,356.6	5,328.7	18.5	20.1	169.61	77.1	180.1	607.9	569.5	38.43	15.819		
5,500.0	5,401.6	5,455.1	5,426.5	19.0	20.5	169.01	76.8	190.9	621.9	582.7	39.22	15.858		
5,600.0	5,500.2	5,554.7	5,525.5	19.4	20.9	168.43	76.9	201.4	634.2	594.2	40.01	15.852		
5,700.0	5,599.1	5,654.5	5,624.8	19.8	21.3	167.87	77.1	211.7	644.8	604.0	40.78	15.810		
5,800.0	5,698.3	5,760.6	5,730.3	20.2	21.7	167.21	77.5	223.2	653.3	611.7	41.60	15.707		
5,900.0	5,797.6	5,863.7	5,832.5	20.6	22.1	166.36	78.3	236.9	659.2	616.8	42.37	15.557		
6,000.0	5,897.2	5,962.0	5,929.7	21.0	22.5	165.41	78.6	251.2	663.4	620.3	43.10	15.391		
6,100.0	5,996.8	6,057.3	6,024.0	21.3	22.9	164.47	78.6	264.7	666.5	622.8	43.79	15.222		
6,200.0	6,096.6	6,152.5	6,118.4	21.7	23.3	163.54	78.2	277.8	668.8	624.4	44.45	15.048		
6,300.0	6,196.5	6,254.4	6,219.4	22.0	23.8	162.53	77.7	291.2	669.8	624.7	45.12	14.844		
6,400.0	6,296.5	6,362.5	6,326.5	22.3	24.2	161.41	78.1	305.9	668.4	622.6	45.81	14.592		
6,500.0	6,396.5	6,459.3	6,422.3	22.5	24.6	160.32	78.9	319.2	665.1	618.8	46.29	14.369		
6,503.5	6,400.0	6,462.7	6,425.7	22.5	24.6	-166.48	79.0	319.7	665.0	618.6	46.30	14.361		
6,600.0	6,496.5	6,556.3	6,518.5	22.5	25.0	-167.51	79.5	332.1	661.5	614.8	46.67	14.174		
6,700.0	6,596.5	6,651.9	6,613.3	22.6	25.4	-168.51	79.9	343.9	658.5	611.5	47.04	14.000		
6,800.0	6,696.5	6,747.3	6,708.1	22.6	25.8	-169.46	79.8	354.9	656.4	609.0	47.40	13.846		
6,900.0	6,796.5	6,841.5	6,801.8	22.7	26.2	-170.36	79.2	365.3	655.1	607.3	47.76	13.717		
6,984.8	6,881.3	6,921.4	6,881.3	22.7	26.5	-171.04	78.2	373.1	654.7	606.7	48.05	13.625		
7,000.0	6,896.5	6,936.5	6,896.3	22.7	26.5	-171.16	78.0	374.4	654.7	606.6	48.11	13.608		
7,100.0	6,996.5	7,037.4	6,996.9	22.8	26.9	-171.84	76.9	382.1	654.7	606.2	48.52	13.493		
7,122.7	7,019.2	7,059.7	7,019.2	22.8	27.0	-171.96	76.8	383.4	654.7	606.1	48.61	13.468		
7,200.0	7,096.5	7,136.5	7,095.9	22.8	27.3	-172.25	76.2	386.7	654.7	605.8	48.92	13.385		
7,300.0	7,196.5	7,237.5	7,196.8	22.9	27.6	-172.47	75.9	389.2	654.7	605.4	49.33	13.272		
7,334.9	7,231.5	7,272.1	7,231.5	22.9	27.7	-172.53	75.8	389.9	654.7	605.2	49.47	13.235		
7,400.0	7,296.5	7,336.3	7,295.6	22.9	27.9	-172.63	75.7	391.0	654.8	605.0	49.72	13.168		
7,500.0	7,396.5	7,436.8	7,396.1	23.0	28.3	-172.78	75.2	392.7	655.0	604.8	50.14	13.064		
7,600.0	7,496.5	7,540.8	7,500.1	23.0	28.6	-172.94	75.3	394.5	654.7	604.1	50.58	12.944		
7,700.0	7,596.5	7,644.1	7,603.4	23.1	29.0	-173.10	75.9	396.5	653.9	602.9	51.01	12.818		
7,800.0	7,696.5	7,744.7	7,704.0	23.1	29.3	-173.20	76.9	397.8	652.7	601.3	51.43	12.692		
7,900.0	7,796.5	7,842.8	7,802.1	23.2	29.6	-173.26	77.8	398.5	651.7	599.9	51.83	12.575		
8,000.0	7,896.5	7,941.3	7,900.5	23.2	30.0	-173.33	78.4	399.4	651.0	598.8	52.23	12.464		
8,100.0	7,996.5	8,040.1	7,999.3	23.3	30.3	-173.41	78.8	400.4	650.5	597.8	52.64	12.358		
8,200.0	8,096.5	8,138.8	8,098.0	23.3	30.6	-173.48	79.1	401.2	650.1	597.1	53.05	12.256		
8,265.9	8,162.4	8,203.2	8,162.4	23.4	30.8	-173.52	79.1	401.6	650.0	596.7	53.31	12.193		
8,300.0	8,196.5	8,236.3	8,195.6	23.4	30.9	-173.54	79.1	401.8	650.1	596.6	53.45	12.163		
8,400.0	8,296.5	8,334.9	8,294.2	23.4	31.3	-173.59	78.7	402.3	650.3	596.5	53.85	12.076		
8,500.0	8,396.5	8,435.6	8,394.8	23.5	31.6	-173.59	78.4	402.3	650.7	596.4	54.27	11.990		
8,600.0	8,496.5	8,532.6	8,491.9	23.5	31.9	-173.54	78.0	401.7	651.1	596.5	54.64	11.916		
8,700.0	8,596.5	8,633.4	8,592.7	23.6	32.2	-173.45	77.5	400.7	651.8	596.7	55.05	11.839		
8,800.0	8,696.5	8,732.0	8,691.2	23.6	32.5	-173.39	77.0	399.9	652.4	596.9	55.44	11.767		
8,900.0	8,796.5	8,788.5	8,747.7	23.7	32.7	-173.34	74.9	399.1	656.4	601.0	55.41	11.846		
9,000.0	8,896.5	8,838.3	8,797.1	23.8	32.8	-173.27	69.7	397.7	667.3	612.2	55.13	12.105		
9,100.0	8,996.5	8,876.4	8,834.5	23.8	32.9	-173.17	62.5	395.6	686.6	632.2	54.46	12.608		
9,200.0	9,096.5	8,922.0	8,878.2	23.9	33.1	-173.00	50.0	392.2	714.3	660.5	53.78	13.281		
9,300.0	9,196.5	8,953.0	8,907.2	23.9	33.1	-172.94	39.2	390.0	749.1	696.4	52.69	14.219		

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	RED HILLS WEST - WILDER 28 AC FEDERAL COM #8H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	174-MWD - OWSG R1											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,400.0	9,296.5	8,994.2	8,944.8	24.0	33.3	-172.94	22.4	388.0	790.6	738.7	51.81	15.258	
9,500.0	9,396.5	9,029.2	8,975.6	24.0	33.3	-172.97	5.9	386.4	837.9	787.1	50.82	16.488	
9,600.0	9,496.5	9,061.1	9,002.7	24.1	33.4	-173.02	-10.9	384.9	890.9	841.0	49.82	17.881	
9,700.0	9,596.5	9,091.4	9,027.3	24.1	33.5	-173.12	-28.4	384.1	948.6	899.7	48.88	19.407	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.3	3.0	3.0	-90.34	-0.2	-40.0	40.0				
100.0	100.0	99.7	100.0	3.1	3.1	-90.34	-0.2	-40.0	40.0	33.4	6.62	6.043	
200.0	200.0	199.7	200.0	3.3	3.3	-90.34	-0.2	-40.0	40.0	32.9	7.07	5.658	
300.0	300.0	299.7	300.0	3.6	3.6	-90.34	-0.2	-40.0	40.0	32.5	7.50	5.336	
400.0	400.0	399.7	400.0	3.8	3.8	-90.34	-0.2	-40.0	40.0	32.1	7.90	5.063	
500.0	500.0	499.7	500.0	4.0	4.0	-90.34	-0.2	-40.0	40.0	31.7	8.29	4.827	
600.0	600.0	599.7	600.0	4.1	4.1	-90.34	-0.2	-40.0	40.0	31.3	8.66	4.619	
700.0	700.0	699.7	700.0	4.3	4.3	-90.34	-0.2	-40.0	40.0	31.0	9.02	4.436	
800.0	800.0	799.7	800.0	4.5	4.5	-90.34	-0.2	-40.0	40.0	30.6	9.37	4.271	
900.0	900.0	899.7	900.0	4.7	4.7	-90.34	-0.2	-40.0	40.0	30.3	9.70	4.123	
1,000.0	1,000.0	999.7	1,000.0	4.8	4.8	-90.34	-0.2	-40.0	40.0	30.0	10.03	3.988	
1,100.0	1,100.0	1,099.7	1,100.0	5.0	5.0	-90.34	-0.2	-40.0	40.0	29.7	10.35	3.865	
1,200.0	1,200.0	1,199.7	1,200.0	5.2	5.2	-90.34	-0.2	-40.0	40.0	29.3	10.66	3.752	
1,300.0	1,300.0	1,299.7	1,300.0	5.3	5.3	-90.34	-0.2	-40.0	40.0	29.0	10.97	3.647	
1,400.0	1,400.0	1,399.7	1,400.0	5.5	5.5	-90.34	-0.2	-40.0	40.0	28.7	11.27	3.551	
1,500.0	1,500.0	1,499.7	1,500.0	5.6	5.6	-90.34	-0.2	-40.0	40.0	28.4	11.56	3.461	
1,600.0	1,600.0	1,599.7	1,600.0	5.8	5.8	-90.34	-0.2	-40.0	40.0	28.2	11.85	3.376	
1,700.0	1,700.0	1,699.7	1,700.0	5.9	5.9	-90.34	-0.2	-40.0	40.0	27.9	12.13	3.298	
1,800.0	1,800.0	1,799.7	1,800.0	6.0	6.0	-90.34	-0.2	-40.0	40.0	27.6	12.41	3.224	
1,900.0	1,900.0	1,899.7	1,900.0	6.2	6.2	-90.34	-0.2	-40.0	40.0	27.3	12.68	3.154	
2,000.0	2,000.0	1,999.7	2,000.0	6.3	6.3	-90.34	-0.2	-40.0	40.0	27.0	12.95	3.088 CC, ES, SF	
2,100.0	2,100.0	2,098.9	2,099.2	6.5	6.5	-88.38	1.2	-41.0	41.0	27.8	13.24	3.096	
2,200.0	2,200.0	2,197.8	2,198.0	6.7	6.7	-118.15	5.4	-43.9	45.1	31.5	13.55	3.327	
2,300.0	2,299.8	2,296.4	2,296.2	6.9	7.0	-115.86	12.3	-48.7	53.1	39.2	13.85	3.833	
2,400.0	2,399.5	2,394.3	2,393.4	7.1	7.2	-114.69	22.0	-55.4	64.9	50.8	14.15	4.589	
2,500.0	2,498.7	2,491.4	2,489.3	7.4	7.5	-114.26	34.3	-64.0	80.5	66.1	14.44	5.576	
2,600.0	2,597.5	2,589.7	2,586.1	7.6	7.8	-114.94	48.2	-73.6	98.8	83.9	14.87	6.643	
2,700.0	2,695.6	2,687.6	2,682.6	7.9	8.0	-116.83	62.0	-83.2	118.6	103.4	15.21	7.796	
2,800.0	2,793.1	2,785.0	2,778.5	8.2	8.3	-119.32	75.8	-92.7	140.2	124.6	15.56	9.011	
2,873.2	2,863.8	2,855.9	2,848.4	8.4	8.5	-121.32	85.8	-99.6	157.2	141.4	15.79	9.957	
2,900.0	2,889.7	2,881.9	2,874.0	8.5	8.6	-122.15	89.4	-102.2	163.7	147.9	15.87	10.317	
3,000.0	2,986.1	2,978.5	2,969.2	8.8	8.8	-124.73	103.1	-111.7	188.2	171.9	16.24	11.587	
3,100.0	3,082.4	3,075.2	3,064.4	9.1	9.1	-126.72	116.7	-121.1	212.9	196.2	16.62	12.807	
3,200.0	3,178.8	3,171.9	3,159.6	9.4	9.4	-128.30	130.4	-130.6	237.8	220.7	17.02	13.972	
3,300.0	3,275.2	3,268.5	3,254.9	9.7	9.7	-129.58	144.0	-140.0	262.8	245.4	17.43	15.078	
3,400.0	3,371.6	3,365.2	3,350.1	10.1	10.1	-130.63	157.7	-149.5	287.9	270.1	17.85	16.127	
3,500.0	3,468.0	3,461.9	3,445.3	10.4	10.4	-131.52	171.3	-159.0	313.1	294.8	18.29	17.119	
3,600.0	3,564.3	3,558.5	3,540.5	10.8	10.7	-132.27	185.0	-168.4	338.4	319.7	18.74	18.057	
3,700.0	3,660.7	3,655.2	3,635.8	11.2	11.1	-132.92	198.6	-177.9	363.7	344.5	19.20	18.941	
3,800.0	3,757.1	3,751.9	3,731.0	11.6	11.4	-133.49	212.3	-187.4	389.1	369.4	19.67	19.776	
3,900.0	3,853.5	3,848.5	3,826.2	12.0	11.8	-133.98	225.9	-196.8	414.5	394.3	20.16	20.563	
4,000.0	3,949.9	3,945.2	3,921.5	12.4	12.1	-134.42	239.6	-206.3	439.9	419.2	20.65	21.305	
4,100.0	4,046.2	4,041.8	4,016.7	12.8	12.5	-134.81	253.2	-215.8	465.3	444.2	21.15	22.005	
4,200.0	4,142.6	4,138.5	4,111.9	13.2	12.9	-135.16	266.9	-225.2	490.8	469.1	21.65	22.665	
4,300.0	4,239.0	4,235.2	4,207.1	13.7	13.3	-135.48	280.5	-234.7	516.2	494.1	22.17	23.288	
4,400.0	4,335.4	4,331.8	4,302.4	14.1	13.6	-135.76	294.2	-244.1	541.7	519.0	22.69	23.875	
4,500.0	4,431.8	4,428.5	4,397.6	14.5	14.0	-136.02	307.8	-253.6	567.2	544.0	23.22	24.431	
4,600.0	4,528.1	4,525.2	4,492.8	15.0	14.4	-136.26	321.5	-263.1	592.7	569.0	23.75	24.955	
4,700.0	4,624.5	4,621.8	4,588.1	15.4	14.8	-136.48	335.1	-272.5	618.2	593.9	24.29	25.451	
4,800.0	4,720.9	4,718.5	4,683.3	15.9	15.2	-136.68	348.8	-282.0	643.8	618.9	24.84	25.920	
4,900.0	4,817.3	4,815.2	4,778.5	16.3	15.6	-136.87	362.4	-291.5	669.3	643.9	25.39	26.364	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,957.2	4,872.4	4,870.4	4,832.9	16.6	15.8	-136.97	370.2	-296.9	683.9	658.2	25.69	26.623	
5,000.0	4,913.7	4,911.9	4,873.8	16.7	16.0	-137.11	376.1	-300.9	694.7	668.8	25.91	26.812	
5,100.0	5,010.5	5,008.8	4,969.3	17.2	16.4	-137.35	389.7	-310.4	719.1	692.6	26.46	27.177	
5,200.0	5,107.7	5,106.1	5,065.1	17.6	16.8	-137.48	403.5	-320.0	742.2	715.2	27.00	27.488	
5,300.0	5,205.3	5,203.7	5,161.2	18.1	17.2	-137.51	417.3	-329.5	764.1	736.6	27.54	27.749	
5,400.0	5,303.3	5,301.5	5,257.6	18.5	17.6	-137.46	431.1	-339.1	784.7	756.7	28.06	27.965	
5,500.0	5,401.6	5,399.5	5,354.2	19.0	18.0	-137.32	444.9	-348.7	804.1	775.6	28.58	28.139	
5,600.0	5,500.2	5,497.7	5,450.9	19.4	18.4	-137.10	458.8	-358.3	822.3	793.2	29.08	28.276	
5,700.0	5,599.1	5,596.1	5,547.8	19.8	18.8	-136.80	472.7	-367.9	839.2	809.6	29.57	28.377	
5,800.0	5,698.3	5,694.6	5,644.9	20.2	19.3	-136.43	486.6	-377.6	854.9	824.9	30.05	28.448	
5,900.0	5,797.6	5,793.2	5,742.0	20.6	19.7	-135.99	500.5	-387.2	869.5	839.0	30.52	28.491	
6,000.0	5,897.2	5,891.9	5,839.2	21.0	20.1	-135.48	514.4	-396.9	882.9	851.9	30.97	28.508	
6,100.0	5,996.8	5,990.6	5,936.5	21.3	20.5	-134.91	528.4	-406.6	895.1	863.7	31.40	28.503	
6,200.0	6,096.6	6,090.6	6,035.0	21.7	21.0	-134.26	542.5	-416.3	906.3	874.5	31.81	28.490	
6,300.0	6,196.5	6,196.4	6,139.4	22.0	21.4	-133.56	556.3	-425.9	915.9	883.6	32.24	28.405	
6,400.0	6,296.5	6,302.6	6,244.6	22.3	21.8	-132.90	568.6	-434.5	923.6	891.0	32.65	28.287	
6,500.0	6,396.5	6,409.4	6,350.5	22.5	22.3	-132.25	579.4	-441.9	929.6	896.6	32.98	28.187	
6,503.5	6,400.0	6,413.1	6,354.2	22.5	22.3	-99.00	579.7	-442.2	929.7	896.7	32.99	28.182	
6,600.0	6,496.5	6,516.5	6,457.1	22.5	22.7	-98.41	588.6	-448.3	934.2	900.9	33.24	28.105	
6,700.0	6,596.5	6,624.0	6,564.2	22.6	23.1	-97.90	596.1	-453.5	938.0	904.5	33.50	28.002	
6,800.0	6,696.5	6,731.9	6,671.8	22.6	23.5	-97.51	602.0	-457.6	941.0	907.3	33.75	27.880	
6,900.0	6,796.5	6,839.9	6,779.7	22.7	23.8	-97.23	606.3	-460.6	943.2	909.2	34.00	27.744	
7,000.0	6,896.5	6,948.1	6,887.9	22.7	24.1	-97.06	608.9	-462.4	944.6	910.4	34.23	27.597	
7,100.0	6,996.5	7,056.4	6,996.2	22.8	24.4	-97.00	609.8	-463.0	945.1	910.6	34.41	27.463	
7,200.0	7,096.5	7,156.8	7,096.5	22.8	24.4	-97.00	609.8	-463.0	945.1	910.5	34.53	27.372	
7,300.0	7,196.5	7,256.8	7,196.5	22.9	24.4	-97.00	609.8	-463.0	945.1	910.4	34.65	27.274	
7,400.0	7,296.5	7,356.8	7,296.5	22.9	24.5	-97.00	609.8	-463.0	945.1	910.3	34.77	27.176	
7,500.0	7,396.5	7,456.8	7,396.5	23.0	24.5	-97.00	609.8	-463.0	945.1	910.2	34.90	27.079	
7,600.0	7,496.5	7,556.8	7,496.5	23.0	24.6	-97.00	609.8	-463.0	945.1	910.0	35.03	26.982	
7,700.0	7,596.5	7,656.8	7,596.5	23.1	24.6	-97.00	609.8	-463.0	945.1	909.9	35.15	26.886	
7,800.0	7,696.5	7,756.8	7,696.5	23.1	24.7	-97.00	609.8	-463.0	945.1	909.8	35.28	26.790	
7,900.0	7,796.5	7,856.8	7,796.5	23.2	24.7	-97.00	609.8	-463.0	945.1	909.6	35.40	26.694	
8,000.0	7,896.5	7,956.8	7,896.5	23.2	24.8	-97.00	609.8	-463.0	945.1	909.5	35.53	26.599	
8,100.0	7,996.5	8,056.8	7,996.5	23.3	24.8	-97.00	609.8	-463.0	945.1	909.4	35.66	26.505	
8,200.0	8,096.5	8,156.8	8,096.5	23.3	24.9	-97.00	609.8	-463.0	945.1	909.3	35.78	26.410	
8,300.0	8,196.5	8,256.8	8,196.5	23.4	24.9	-97.00	609.8	-463.0	945.1	909.1	35.91	26.317	
8,400.0	8,296.5	8,356.8	8,296.5	23.4	25.0	-97.00	609.8	-463.0	945.1	909.0	36.04	26.224	
8,500.0	8,396.5	8,456.8	8,396.5	23.5	25.0	-97.00	609.8	-463.0	945.1	908.9	36.17	26.131	
8,600.0	8,496.5	8,556.8	8,496.5	23.5	25.1	-97.00	609.8	-463.0	945.1	908.8	36.29	26.039	
8,700.0	8,596.5	8,656.8	8,596.5	23.6	25.1	-97.00	609.8	-463.0	945.1	908.6	36.42	25.947	
8,800.0	8,696.5	8,756.8	8,696.5	23.6	25.2	-97.00	609.8	-463.0	945.1	908.5	36.55	25.855	
8,900.0	8,796.5	8,856.8	8,796.5	23.7	25.2	-97.00	609.8	-463.0	945.1	908.4	36.68	25.765	
9,000.0	8,896.5	8,956.8	8,896.5	23.8	25.3	-97.00	609.8	-463.0	945.1	908.2	36.81	25.674	
9,100.0	8,996.5	9,056.8	8,996.5	23.8	25.3	-97.00	609.8	-463.0	945.1	908.1	36.94	25.584	
9,200.0	9,096.5	9,156.8	9,096.5	23.9	25.4	-97.00	609.8	-463.0	945.1	908.0	37.07	25.495	
9,300.0	9,196.5	9,256.8	9,196.5	23.9	25.4	-97.00	609.8	-463.0	945.1	907.9	37.20	25.406	
9,400.0	9,296.5	9,356.8	9,296.5	24.0	25.5	-97.00	609.8	-463.0	945.1	907.7	37.33	25.317	
9,500.0	9,396.5	9,456.8	9,396.5	24.0	25.5	-97.00	609.8	-463.0	945.1	907.6	37.46	25.229	
9,600.0	9,496.5	9,556.8	9,496.5	24.1	25.6	-97.00	609.8	-463.0	945.1	907.5	37.59	25.141	
9,700.0	9,596.5	9,656.8	9,596.5	24.1	25.6	-97.00	609.8	-463.0	945.1	907.3	37.72	25.054	
9,800.0	9,696.5	9,756.8	9,696.5	24.2	25.7	-97.00	609.8	-463.0	945.1	907.2	37.85	24.967	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
9,900.0	9,796.5	9,856.8	9,796.5	24.2	25.7	-97.00	609.8	-463.0	945.1	907.1	37.98	24.881	
10,000.0	9,896.5	9,956.8	9,896.5	24.3	25.8	-97.00	609.8	-463.0	945.1	906.9	38.11	24.795	
10,100.0	9,996.5	10,056.8	9,996.5	24.4	25.8	-97.00	609.8	-463.0	945.1	906.8	38.25	24.709	
10,200.0	10,096.5	10,156.8	10,096.5	24.4	25.9	-97.00	609.8	-463.0	945.1	906.7	38.38	24.624	
10,300.0	10,196.5	10,256.8	10,196.5	24.5	25.9	-97.00	609.8	-463.0	945.1	906.5	38.51	24.540	
10,400.0	10,296.5	10,356.8	10,296.5	24.5	26.0	-97.00	609.8	-463.0	945.1	906.4	38.64	24.456	
10,500.0	10,396.5	10,456.8	10,396.5	24.6	26.0	-97.00	609.8	-463.0	945.1	906.3	38.78	24.372	
10,600.0	10,496.5	10,556.8	10,496.5	24.6	26.1	-97.00	609.8	-463.0	945.1	906.1	38.91	24.289	
10,700.0	10,596.5	10,656.8	10,596.5	24.7	26.1	-97.00	609.8	-463.0	945.1	906.0	39.04	24.206	
10,800.0	10,696.5	10,756.8	10,696.5	24.7	26.2	-97.00	609.8	-463.0	945.1	905.9	39.18	24.124	
10,900.0	10,796.5	10,856.8	10,796.5	24.8	26.2	-97.00	609.8	-463.0	945.1	905.7	39.31	24.042	
11,000.0	10,896.5	10,956.8	10,896.5	24.9	26.3	-97.00	609.8	-463.0	945.1	905.6	39.44	23.960	
11,100.0	10,996.5	11,056.8	10,996.5	24.9	26.4	-97.00	609.8	-463.0	945.1	905.5	39.58	23.879	
11,200.0	11,096.5	11,156.8	11,096.5	25.0	26.4	-97.00	609.8	-463.0	945.1	905.3	39.71	23.798	
11,300.0	11,196.5	11,256.8	11,196.5	25.0	26.5	-97.00	609.8	-463.0	945.1	905.2	39.85	23.718	
11,313.2	11,209.7	11,269.9	11,209.7	25.0	26.5	-97.00	609.8	-463.0	945.1	905.2	39.86	23.708	
11,398.0	11,294.5	11,350.0	11,289.7	25.1	26.5	-97.01	609.7	-463.0	945.1	905.1	39.95	23.654	
11,400.0	11,296.5	11,353.8	11,293.6	25.1	26.5	78.49	609.6	-463.0	945.1	905.1	39.96	23.653	
11,425.0	11,321.5	11,375.0	11,314.7	25.0	26.4	78.46	608.6	-463.0	945.1	905.1	39.95	23.659	
11,450.0	11,346.4	11,394.5	11,334.1	25.0	26.4	78.47	606.8	-463.0	944.9	905.0	39.92	23.670	
11,475.0	11,371.2	11,414.8	11,354.2	24.9	26.3	78.51	604.1	-463.0	944.6	904.7	39.89	23.679	
11,500.0	11,395.7	11,435.1	11,374.2	24.8	26.3	78.57	600.5	-462.9	944.2	904.3	39.86	23.685	
11,525.0	11,420.0	11,455.4	11,394.1	24.7	26.2	78.65	596.1	-462.9	943.6	903.8	39.83	23.689	
11,550.0	11,444.0	11,475.0	11,413.0	24.7	26.1	78.77	591.1	-462.9	942.9	903.1	39.80	23.690	
11,575.0	11,467.5	11,496.1	11,433.1	24.6	26.1	78.91	584.8	-462.8	942.1	902.4	39.77	23.688	
11,600.0	11,490.5	11,516.5	11,452.3	24.5	26.0	79.08	577.9	-462.8	941.2	901.4	39.74	23.683	
11,625.0	11,513.0	11,536.9	11,471.2	24.4	25.9	79.28	570.2	-462.8	940.1	900.4	39.71	23.675	
11,650.0	11,535.0	11,557.4	11,489.8	24.3	25.9	79.50	561.6	-462.7	938.9	899.2	39.68	23.663	
11,675.0	11,556.2	11,577.9	11,508.0	24.2	25.8	79.74	552.2	-462.6	937.6	897.9	39.65	23.648	
11,700.0	11,576.8	11,600.0	11,527.2	24.1	25.7	80.02	541.2	-462.6	936.1	896.5	39.62	23.630	
11,725.0	11,596.5	11,619.0	11,543.4	24.0	25.6	80.31	531.1	-462.5	934.6	895.0	39.59	23.606	
11,750.0	11,615.5	11,639.7	11,560.4	24.0	25.6	80.63	519.3	-462.4	933.0	893.4	39.57	23.579	
11,775.0	11,633.5	11,660.5	11,576.9	23.9	25.5	80.98	506.8	-462.4	931.2	891.7	39.55	23.548	
11,800.0	11,650.7	11,681.3	11,593.0	23.8	25.4	81.35	493.5	-462.3	929.4	889.9	39.53	23.513	
11,825.0	11,666.8	11,702.3	11,608.5	23.7	25.4	81.74	479.5	-462.2	927.5	888.0	39.51	23.475	
11,850.0	11,682.0	11,725.0	11,624.7	23.7	25.3	82.16	463.5	-462.1	925.5	886.0	39.49	23.434	
11,875.0	11,696.0	11,744.5	11,637.9	23.6	25.3	82.58	449.2	-462.0	923.4	883.9	39.49	23.385	
11,900.0	11,709.0	11,765.7	11,651.7	23.6	25.2	83.03	433.0	-461.9	921.3	881.8	39.48	23.334	
11,925.0	11,720.8	11,787.1	11,664.7	23.5	25.1	83.50	416.1	-461.8	919.1	879.6	39.48	23.279	
11,950.0	11,731.5	11,808.6	11,677.1	23.5	25.1	83.99	398.6	-461.7	916.9	877.4	39.49	23.220	
11,975.0	11,741.0	11,830.3	11,688.8	23.4	25.0	84.50	380.3	-461.6	914.6	875.1	39.50	23.158	
12,000.0	11,749.2	11,852.1	11,699.7	23.4	25.0	85.02	361.4	-461.4	912.3	872.8	39.51	23.092	
12,025.0	11,756.2	11,875.0	11,710.2	23.4	25.0	85.57	341.1	-461.3	910.0	870.5	39.53	23.024	
12,050.0	11,761.9	11,896.2	11,719.0	23.4	24.9	86.10	321.8	-461.2	907.7	868.2	39.55	22.950	
12,075.0	11,766.4	11,918.5	11,727.4	23.3	24.9	86.67	301.1	-461.1	905.4	865.8	39.58	22.874	
12,100.0	11,769.6	11,941.0	11,734.9	23.3	24.9	87.24	279.9	-460.9	903.1	863.4	39.62	22.796	
12,125.0	11,771.4	11,963.7	11,741.4	23.3	24.9	87.82	258.1	-460.8	900.8	861.1	39.66	22.715	
12,148.0	11,772.0	11,984.8	11,746.5	23.3	24.8	88.37	237.6	-460.7	898.6	859.0	39.70	22.638	
12,200.0	11,772.0	12,033.7	11,754.8	23.4	24.8	88.90	189.5	-460.4	894.5	854.7	39.81	22.469	
12,300.0	11,772.0	12,131.7	11,758.3	23.4	24.9	89.12	91.7	-459.8	889.5	849.4	40.13	22.169	
12,390.9	11,772.0	12,222.5	11,758.3	23.5	24.9	89.12	0.8	-459.2	888.1	847.6	40.48	21.940	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 701H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
12,400.0	11,772.0	12,231.7	11,758.3	23.5	24.9	89.12	-8.3	-459.1	888.1	847.6	40.52	21.919		
12,500.0	11,772.0	12,331.7	11,758.3	23.6	25.0	89.12	-108.3	-458.5	888.1	847.1	40.98	21.672		
12,600.0	11,772.0	12,431.7	11,758.3	23.7	25.1	89.12	-208.3	-457.9	888.1	846.6	41.52	21.387		
12,700.0	11,772.0	12,531.7	11,758.3	23.9	25.3	89.12	-308.3	-457.3	888.1	845.9	42.15	21.070		
12,800.0	11,772.0	12,631.7	11,758.3	24.0	25.4	89.12	-408.3	-456.6	888.1	845.2	42.85	20.725		
12,900.0	11,772.0	12,731.7	11,758.3	24.2	25.6	89.12	-508.3	-456.0	888.1	844.5	43.62	20.358		
13,000.0	11,772.0	12,831.7	11,758.3	24.5	25.8	89.12	-608.3	-455.4	888.1	843.6	44.47	19.972		
13,100.0	11,772.0	12,931.7	11,758.3	24.7	26.0	89.12	-708.3	-454.8	888.1	842.7	45.37	19.573		
13,200.0	11,772.0	13,031.7	11,758.3	25.0	26.3	89.12	-808.3	-454.1	888.1	841.7	46.34	19.164		
13,300.0	11,772.0	13,131.7	11,758.3	25.4	26.6	89.12	-908.3	-453.5	888.1	840.7	47.37	18.749		
13,400.0	11,772.0	13,231.7	11,758.3	25.8	26.9	89.12	-1,008.3	-452.9	888.1	839.6	48.44	18.332		
13,500.0	11,772.0	13,331.7	11,758.3	26.2	27.2	89.12	-1,108.3	-452.3	888.1	838.5	49.57	17.915		
13,600.0	11,772.0	13,431.7	11,758.3	26.6	27.6	89.12	-1,208.3	-451.7	888.1	837.3	50.75	17.500		
13,700.0	11,772.0	13,531.7	11,758.3	27.1	28.1	89.12	-1,308.3	-451.0	888.1	836.1	51.97	17.090		
13,800.0	11,772.0	13,631.7	11,758.3	27.7	28.5	89.12	-1,408.3	-450.4	888.1	834.9	53.22	16.686		
13,900.0	11,772.0	13,731.7	11,758.3	28.2	29.0	89.12	-1,508.3	-449.8	888.1	833.6	54.52	16.289		
14,000.0	11,772.0	13,831.7	11,758.3	28.8	29.5	89.12	-1,608.3	-449.2	888.1	832.2	55.85	15.901		
14,100.0	11,772.0	13,931.7	11,758.3	29.4	30.1	89.12	-1,708.3	-448.5	888.1	830.9	57.22	15.522		
14,200.0	11,772.0	14,031.7	11,758.3	30.1	30.7	89.12	-1,808.3	-447.9	888.1	829.5	58.61	15.152		
14,300.0	11,772.0	14,131.7	11,758.3	30.7	31.3	89.12	-1,908.3	-447.3	888.1	828.1	60.03	14.794		
14,400.0	11,772.0	14,231.7	11,758.3	31.4	31.9	89.12	-2,008.3	-446.7	888.1	826.6	61.48	14.445		
14,500.0	11,772.0	14,331.7	11,758.3	32.1	32.6	89.12	-2,108.3	-446.0	888.1	825.1	62.95	14.107		
14,600.0	11,772.0	14,431.7	11,758.3	32.9	33.2	89.12	-2,208.3	-445.4	888.1	823.6	64.45	13.780		
14,700.0	11,772.0	14,531.7	11,758.3	33.6	33.9	89.12	-2,308.3	-444.8	888.1	822.1	65.96	13.463		
14,800.0	11,772.0	14,631.7	11,758.3	34.3	34.6	89.12	-2,408.3	-444.2	888.1	820.6	67.50	13.157		
14,900.0	11,772.0	14,731.7	11,758.3	35.1	35.4	89.12	-2,508.3	-443.5	888.1	819.0	69.05	12.861		
15,000.0	11,772.0	14,831.7	11,758.3	35.9	36.1	89.12	-2,608.3	-442.9	888.1	817.5	70.62	12.575		
15,100.0	11,772.0	14,931.7	11,758.3	36.7	36.9	89.12	-2,708.3	-442.3	888.1	815.9	72.21	12.299		
15,200.0	11,772.0	15,031.7	11,758.3	37.5	37.6	89.12	-2,808.3	-441.7	888.1	814.3	73.81	12.032		
15,300.0	11,772.0	15,131.7	11,758.3	38.3	38.4	89.12	-2,908.3	-441.0	888.1	812.7	75.43	11.774		
15,400.0	11,772.0	15,231.7	11,758.3	39.1	39.2	89.12	-3,008.3	-440.4	888.1	811.0	77.06	11.525		
15,500.0	11,772.0	15,331.7	11,758.3	39.9	40.0	89.12	-3,108.2	-439.8	888.1	809.4	78.70	11.285		
15,600.0	11,772.0	15,431.7	11,758.3	40.7	40.8	89.12	-3,208.2	-439.2	888.1	807.7	80.35	11.052		
15,700.0	11,772.0	15,531.7	11,758.3	41.6	41.6	89.12	-3,308.2	-438.5	888.1	806.1	82.02	10.828		
15,800.0	11,772.0	15,631.7	11,758.3	42.4	42.4	89.12	-3,408.2	-437.9	888.1	804.4	83.69	10.612		
15,900.0	11,772.0	15,731.7	11,758.3	43.2	43.3	89.12	-3,508.2	-437.3	888.1	802.7	85.37	10.402		
16,000.0	11,772.0	15,831.7	11,758.3	44.1	44.1	89.12	-3,608.2	-436.7	888.1	801.0	87.06	10.200		
16,100.0	11,772.0	15,931.7	11,758.3	45.0	44.9	89.12	-3,708.2	-436.0	888.1	799.3	88.77	10.005		
16,200.0	11,772.0	16,031.7	11,758.3	45.8	45.8	89.12	-3,808.2	-435.4	888.1	797.6	90.47	9.816		
16,300.0	11,772.0	16,131.7	11,758.3	46.7	46.6	89.12	-3,908.2	-434.8	888.1	795.9	92.19	9.633		
16,400.0	11,772.0	16,231.7	11,758.3	47.6	47.5	89.12	-4,008.2	-434.2	888.1	794.2	93.91	9.456		
16,500.0	11,772.0	16,331.7	11,758.3	48.4	48.4	89.12	-4,108.2	-433.6	888.1	792.4	95.64	9.285		
16,600.0	11,772.0	16,431.7	11,758.3	49.3	49.2	89.12	-4,208.2	-432.9	888.1	790.7	97.38	9.120		
16,700.0	11,772.0	16,531.7	11,758.3	50.2	50.1	89.12	-4,308.2	-432.3	888.1	789.0	99.12	8.959		
16,800.0	11,772.0	16,631.7	11,758.3	51.1	51.0	89.12	-4,408.2	-431.7	888.1	787.2	100.87	8.804		
16,900.0	11,772.0	16,731.7	11,758.3	52.0	51.9	89.12	-4,508.2	-431.1	888.1	785.5	102.63	8.654		
17,000.0	11,772.0	16,831.7	11,758.3	52.8	52.7	89.12	-4,608.2	-430.4	888.1	783.7	104.39	8.508		
17,100.0	11,772.0	16,931.7	11,758.3	53.7	53.6	89.12	-4,708.2	-429.8	888.1	781.9	106.15	8.366		
17,200.0	11,772.0	17,031.7	11,758.3	54.6	54.5	89.12	-4,808.2	-429.2	888.1	780.2	107.92	8.229		
17,300.0	11,772.0	17,131.7	11,758.3	55.5	55.4	89.12	-4,908.2	-428.6	888.1	778.4	109.69	8.096		
17,400.0	11,772.0	17,231.7	11,758.3	56.4	56.3	89.12	-5,008.2	-427.9	888.1	776.6	111.47	7.967		

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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				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)				
17,500.0	11,772.0	17,331.7	11,758.3	57.3	57.2	89.12	-5,108.2	-427.3	888.1	774.8	113.25	7.842		
17,600.0	11,772.0	17,431.7	11,758.3	58.2	58.1	89.12	-5,208.2	-426.7	888.1	773.0	115.04	7.720		
17,700.0	11,772.0	17,531.7	11,758.3	59.1	59.0	89.12	-5,308.2	-426.1	888.1	771.3	116.82	7.602		
17,800.0	11,772.0	17,631.7	11,758.3	60.0	59.9	89.12	-5,408.2	-425.4	888.1	769.5	118.62	7.487		
17,900.0	11,772.0	17,731.7	11,758.3	61.0	60.8	89.12	-5,508.2	-424.8	888.1	767.7	120.41	7.375		
18,000.0	11,772.0	17,831.7	11,758.3	61.9	61.7	89.12	-5,608.2	-424.2	888.1	765.9	122.21	7.267		
18,100.0	11,772.0	17,931.7	11,758.3	62.8	62.6	89.12	-5,708.2	-423.6	888.1	764.1	124.01	7.161		
18,200.0	11,772.0	18,031.7	11,758.3	63.7	63.5	89.12	-5,808.2	-422.9	888.1	762.3	125.82	7.058		
18,300.0	11,772.0	18,131.7	11,758.3	64.6	64.4	89.12	-5,908.2	-422.3	888.1	760.5	127.63	6.958		
18,400.0	11,772.0	18,231.7	11,758.3	65.5	65.3	89.12	-6,008.2	-421.7	888.1	758.6	129.44	6.861		
18,500.0	11,772.0	18,331.7	11,758.3	66.4	66.2	89.12	-6,108.2	-421.1	888.1	756.8	131.25	6.766		
18,600.0	11,772.0	18,431.7	11,758.3	67.4	67.2	89.12	-6,208.2	-420.4	888.1	755.0	133.06	6.674		
18,700.0	11,772.0	18,531.7	11,758.3	68.3	68.1	89.12	-6,308.2	-419.8	888.1	753.2	134.88	6.584		
18,800.0	11,772.0	18,631.7	11,758.3	69.2	69.0	89.12	-6,408.2	-419.2	888.1	751.4	136.70	6.496		
18,900.0	11,772.0	18,731.7	11,758.3	70.1	69.9	89.12	-6,508.2	-418.6	888.1	749.6	138.53	6.411		
19,000.0	11,772.0	18,831.7	11,758.3	71.1	70.8	89.12	-6,608.2	-417.9	888.1	747.7	140.35	6.328		
19,100.0	11,772.0	18,931.7	11,758.3	72.0	71.8	89.12	-6,708.2	-417.3	888.1	745.9	142.18	6.246		
19,200.0	11,772.0	19,031.7	11,758.3	72.9	72.7	89.12	-6,808.2	-416.7	888.1	744.1	144.00	6.167		
19,300.0	11,772.0	19,131.7	11,758.3	73.8	73.6	89.12	-6,908.2	-416.1	888.1	742.3	145.83	6.090		
19,400.0	11,772.0	19,231.7	11,758.3	74.8	74.5	89.12	-7,008.2	-415.4	888.1	740.4	147.67	6.014		
19,486.4	11,772.0	19,318.0	11,758.3	75.6	75.3	89.12	-7,094.5	-414.9	888.1	738.8	149.25	5.950		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
0.0	0.0	0.3	0.0	3.0	3.0	-90.34	-0.1	-20.0	20.0				
100.0	100.0	100.3	100.0	3.1	3.1	-90.34	-0.1	-20.0	20.0	13.4	6.62	3.021	
200.0	200.0	200.3	200.0	3.3	3.3	-90.34	-0.1	-20.0	20.0	12.9	7.07	2.828	Normal Operations
300.0	300.0	300.3	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	400.3	400.0	3.8	3.8	-90.34	-0.1	-20.0	20.0	12.1	7.90	2.531	Normal Operations
500.0	500.0	500.3	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	600.3	600.0	4.1	4.1	-90.34	-0.1	-20.0	20.0	11.3	8.66	2.309	Caution - Monitor Closely
700.0	700.0	700.3	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	800.3	800.0	4.5	4.5	-90.34	-0.1	-20.0	20.0	10.6	9.37	2.135	Caution - Monitor Closely
900.0	900.0	900.3	900.0	4.7	4.7	-90.34	-0.1	-20.0	20.0	10.3	9.70	2.061	Caution - Monitor Closely
1,000.0	1,000.0	1,000.3	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	1,100.3	1,100.0	5.0	5.0	-90.34	-0.1	-20.0	20.0	9.6	10.35	1.932	Caution - Monitor Closely
1,200.0	1,200.0	1,200.3	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	1,300.3	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	1,400.3	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	1,500.3	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	1,600.3	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	1,700.3	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	1,800.3	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	1,900.3	1,900.0	6.2	6.2	-90.34	-0.1	-20.0	20.0	7.3	12.68	1.577	Caution - Monitor Closely
1,966.6	1,966.6	1,966.9	1,966.6	6.3	6.3	-90.34	-0.1	-20.0	20.0	7.1	12.86	1.555	Caution - Monitor Closely, CC
2,000.0	2,000.0	2,000.3	2,000.0	6.3	6.3	-90.34	-0.1	-20.0	20.0	7.0	12.95	1.544	Caution - Monitor Closely
2,004.4	2,004.4	2,004.7	2,004.4	6.3	6.3	-90.33	-0.1	-20.0	20.0	7.0	12.97	1.543	Caution - Monitor Closely
2,100.0	2,100.0	2,100.3	2,099.9	6.5	6.5	-85.33	1.6	-20.0	20.1	6.9	13.22	1.519	Caution - Monitor Closely, ES, SF
2,200.0	2,200.0	2,200.0	2,199.5	6.7	6.8	-108.77	6.9	-20.1	21.7	8.2	13.50	1.608	Caution - Monitor Closely
2,300.0	2,299.8	2,299.6	2,298.8	6.9	7.0	-101.00	15.5	-20.1	25.9	12.1	13.77	1.878	Caution - Monitor Closely
2,400.0	2,399.5	2,399.0	2,397.4	7.1	7.2	-96.13	27.6	-20.2	32.3	18.3	14.05	2.301	Caution - Monitor Closely
2,500.0	2,498.7	2,498.4	2,495.7	7.4	7.4	-94.35	42.5	-20.3	40.5	26.3	14.26	2.843	Normal Operations
2,600.0	2,597.5	2,598.0	2,594.2	7.6	7.6	-96.93	57.6	-20.5	49.2	34.7	14.52	3.389	
2,700.0	2,695.6	2,697.4	2,692.4	7.9	7.9	-102.04	72.6	-20.6	58.6	43.8	14.78	3.965	
2,800.0	2,793.1	2,796.6	2,790.4	8.2	8.1	-108.42	87.7	-20.7	69.4	54.3	15.07	4.605	
2,873.2	2,863.8	2,868.9	2,861.9	8.4	8.3	-113.38	98.7	-20.8	78.6	63.3	15.28	5.140	
2,900.0	2,889.7	2,895.3	2,888.1	8.5	8.4	-115.18	102.7	-20.8	82.2	66.8	15.36	5.352	
3,000.0	2,986.1	2,994.0	2,985.5	8.8	8.7	-120.68	117.6	-21.0	96.4	80.6	15.75	6.119	
3,100.0	3,082.4	3,092.6	3,083.0	9.1	9.0	-124.75	132.6	-21.1	111.1	95.0	16.16	6.879	
3,200.0	3,178.8	3,191.2	3,180.5	9.4	9.3	-127.86	147.5	-21.2	126.4	109.8	16.59	7.616	
3,300.0	3,275.2	3,289.9	3,278.0	9.7	9.6	-130.29	162.5	-21.3	141.9	124.8	17.05	8.322	
3,400.0	3,371.6	3,388.5	3,375.5	10.1	9.9	-132.25	177.5	-21.4	157.6	140.1	17.52	8.994	
3,500.0	3,468.0	3,487.1	3,473.0	10.4	10.3	-133.85	192.4	-21.6	173.4	155.4	18.01	9.630	
3,600.0	3,564.3	3,585.8	3,570.5	10.8	10.6	-135.18	207.4	-21.7	189.4	170.9	18.51	10.230	
3,700.0	3,660.7	3,684.4	3,668.0	11.2	11.0	-136.30	222.3	-21.8	205.5	186.4	19.03	10.795	
3,800.0	3,757.1	3,783.0	3,765.4	11.6	11.3	-137.27	237.3	-21.9	221.6	202.0	19.56	11.327	
3,900.0	3,853.5	3,881.6	3,862.9	12.0	11.7	-138.10	252.3	-22.0	237.7	217.6	20.10	11.826	
4,000.0	3,949.9	3,980.3	3,960.4	12.4	12.0	-138.82	267.2	-22.2	253.9	233.3	20.65	12.295	
4,100.0	4,046.2	4,078.9	4,057.9	12.8	12.4	-139.46	282.2	-22.3	270.2	249.0	21.22	12.735	
4,200.0	4,142.6	4,177.5	4,155.4	13.2	12.8	-140.02	297.1	-22.4	286.5	264.7	21.79	13.149	
4,300.0	4,239.0	4,276.2	4,252.9	13.7	13.2	-140.53	312.1	-22.5	302.8	280.4	22.37	13.537	
4,400.0	4,335.4	4,374.8	4,350.4	14.1	13.6	-140.98	327.1	-22.6	319.1	296.1	22.95	13.902	
4,500.0	4,431.8	4,473.4	4,447.9	14.5	13.9	-141.39	342.0	-22.8	335.4	311.9	23.55	14.245	
4,600.0	4,528.1	4,572.1	4,545.4	15.0	14.3	-141.76	357.0	-22.9	351.8	327.6	24.15	14.568	
4,700.0	4,624.5	4,670.7	4,642.8	15.4	14.7	-142.10	372.0	-23.0	368.1	343.4	24.75	14.872	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,720.9	4,769.3	4,740.3	15.9	15.1	-142.41	386.9	-23.1	384.5	359.1	25.37	15.158	
4,900.0	4,817.3	4,867.9	4,837.8	16.3	15.5	-142.69	401.9	-23.2	400.9	374.9	25.98	15.429	
4,957.2	4,872.4	4,924.3	4,893.5	16.6	15.7	-142.85	410.4	-23.3	410.3	383.9	26.32	15.585	
5,000.0	4,913.7	4,966.6	4,935.3	16.7	15.9	-142.99	416.8	-23.4	417.2	390.6	26.57	15.698	
5,100.0	5,010.5	5,065.4	5,033.0	17.2	16.3	-143.19	431.8	-23.5	432.3	405.1	27.17	15.908	
5,200.0	5,107.7	5,164.5	5,130.9	17.6	16.7	-143.24	446.9	-23.6	446.0	418.3	27.75	16.076	
5,300.0	5,205.3	5,263.7	5,229.0	18.1	17.1	-143.16	461.9	-23.7	458.4	430.1	28.29	16.204	
5,400.0	5,303.3	5,363.1	5,327.2	18.5	17.5	-142.94	477.0	-23.9	469.3	440.5	28.80	16.297	
5,500.0	5,401.6	5,462.6	5,425.6	19.0	17.9	-142.60	492.1	-24.0	479.0	449.7	29.28	16.360	
5,600.0	5,500.2	5,562.1	5,524.0	19.4	18.3	-142.15	507.2	-24.1	487.2	457.5	29.72	16.396	
5,700.0	5,599.1	5,661.8	5,622.4	19.8	18.8	-141.58	522.3	-24.2	494.1	464.0	30.12	16.408	
5,800.0	5,698.3	5,761.4	5,720.9	20.2	19.2	-140.89	537.4	-24.3	499.8	469.3	30.47	16.402	
5,900.0	5,797.6	5,861.0	5,819.4	20.6	19.6	-140.09	552.5	-24.5	504.1	473.4	30.78	16.379	
6,000.0	5,897.2	5,960.6	5,917.9	21.0	20.0	-139.16	567.6	-24.6	507.3	476.3	31.03	16.346	
6,100.0	5,996.8	6,060.2	6,016.2	21.3	20.4	-138.11	582.7	-24.7	509.3	478.0	31.23	16.305	
6,200.0	6,096.6	6,159.6	6,114.5	21.7	20.8	-136.93	597.8	-24.8	510.2	478.8	31.37	16.261	
6,300.0	6,196.5	6,258.9	6,212.7	22.0	21.3	-135.62	612.9	-24.9	510.0	478.6	31.45	16.218	
6,400.0	6,296.5	6,358.0	6,310.7	22.3	21.7	-134.16	627.9	-25.1	509.0	477.5	31.45	16.184	
6,500.0	6,396.5	6,457.0	6,408.5	22.5	22.1	-132.55	642.9	-25.2	507.0	475.7	31.32	16.189	
6,503.5	6,400.0	6,460.4	6,411.9	22.5	22.1	-99.26	643.4	-25.2	506.9	475.6	31.31	16.189	
6,600.0	6,496.5	6,555.8	6,506.2	22.5	22.5	-97.64	657.9	-25.3	504.9	473.8	31.10	16.236	
6,700.0	6,596.5	6,654.7	6,603.9	22.6	22.9	-95.95	672.9	-25.4	503.2	472.3	30.88	16.294	
6,800.0	6,696.5	6,753.1	6,701.2	22.6	23.3	-94.30	687.4	-25.5	502.0	471.3	30.69	16.354	
6,900.0	6,796.5	6,851.8	6,799.1	22.7	23.7	-92.83	700.3	-25.7	501.3	470.7	30.57	16.397	
7,000.0	6,896.5	6,950.9	6,897.5	22.7	24.1	-91.54	711.5	-25.7	500.9	470.4	30.50	16.425	
7,097.9	6,994.4	7,048.2	6,994.4	22.8	24.5	-90.46	721.0	-25.8	500.8	470.4	30.47	16.435	
7,100.0	6,996.5	7,050.3	6,996.5	22.8	24.5	-90.44	721.1	-25.8	500.8	470.4	30.47	16.436	
7,200.0	7,096.5	7,150.1	7,095.9	22.8	24.9	-89.54	729.0	-25.9	500.9	470.4	30.49	16.428	
7,300.0	7,196.5	7,250.1	7,195.7	22.9	25.3	-88.83	735.2	-25.9	501.0	470.5	30.55	16.403	
7,400.0	7,296.5	7,350.3	7,295.8	22.9	25.6	-88.32	739.7	-26.0	501.2	470.6	30.63	16.362	
7,500.0	7,396.5	7,450.6	7,396.1	23.0	25.9	-88.02	742.3	-26.0	501.3	470.5	30.74	16.306	
7,600.0	7,496.5	7,551.0	7,496.5	23.0	26.1	-87.91	743.3	-26.0	501.3	470.5	30.87	16.242	
7,700.0	7,596.5	7,651.0	7,596.5	23.1	26.1	-87.91	743.3	-26.0	501.3	470.3	31.00	16.174	
7,800.0	7,696.5	7,751.0	7,696.5	23.1	26.1	-87.91	743.3	-26.0	501.3	470.2	31.14	16.099	
7,900.0	7,796.5	7,851.0	7,796.5	23.2	26.2	-87.91	743.3	-26.0	501.3	470.0	31.28	16.025	
8,000.0	7,896.5	7,951.0	7,896.5	23.2	26.2	-87.91	743.3	-26.0	501.3	469.9	31.43	15.951	
8,100.0	7,996.5	8,051.0	7,996.5	23.3	26.3	-87.91	743.3	-26.0	501.3	469.8	31.57	15.878	
8,200.0	8,096.5	8,151.0	8,096.5	23.3	26.3	-87.91	743.3	-26.0	501.3	469.6	31.72	15.805	
8,300.0	8,196.5	8,251.0	8,196.5	23.4	26.4	-87.91	743.3	-26.0	501.3	469.5	31.86	15.733	
8,400.0	8,296.5	8,351.0	8,296.5	23.4	26.4	-87.91	743.3	-26.0	501.3	469.3	32.01	15.662	
8,500.0	8,396.5	8,451.0	8,396.5	23.5	26.5	-87.91	743.3	-26.0	501.3	469.2	32.16	15.591	
8,600.0	8,496.5	8,551.0	8,496.5	23.5	26.5	-87.91	743.3	-26.0	501.3	469.0	32.30	15.521	
8,700.0	8,596.5	8,651.0	8,596.5	23.6	26.6	-87.91	743.3	-26.0	501.3	468.9	32.45	15.451	
8,800.0	8,696.5	8,751.0	8,696.5	23.6	26.6	-87.91	743.3	-26.0	501.3	468.7	32.59	15.382	
8,900.0	8,796.5	8,851.0	8,796.5	23.7	26.7	-87.91	743.3	-26.0	501.3	468.6	32.74	15.313	
9,000.0	8,896.5	8,951.0	8,896.5	23.8	26.7	-87.91	743.3	-26.0	501.3	468.4	32.89	15.245	
9,100.0	8,996.5	9,051.0	8,996.5	23.8	26.8	-87.91	743.3	-26.0	501.3	468.3	33.03	15.177	
9,200.0	9,096.5	9,151.0	9,096.5	23.9	26.8	-87.91	743.3	-26.0	501.3	468.2	33.18	15.110	
9,300.0	9,196.5	9,251.0	9,196.5	23.9	26.9	-87.91	743.3	-26.0	501.3	468.0	33.32	15.044	
9,400.0	9,296.5	9,351.0	9,296.5	24.0	26.9	-87.91	743.3	-26.0	501.3	467.9	33.47	14.978	
9,500.0	9,396.5	9,451.0	9,396.5	24.0	27.0	-87.91	743.3	-26.0	501.3	467.7	33.62	14.912	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,600.0	9,496.5	9,551.0	9,496.5	24.1	27.0	-87.91	743.3	-26.0	501.3	467.6	33.77	14.848	
9,700.0	9,596.5	9,651.0	9,596.5	24.1	27.1	-87.91	743.3	-26.0	501.3	467.4	33.91	14.783	
9,800.0	9,696.5	9,751.0	9,696.5	24.2	27.1	-87.91	743.3	-26.0	501.3	467.3	34.06	14.719	
9,900.0	9,796.5	9,851.0	9,796.5	24.2	27.2	-87.91	743.3	-26.0	501.3	467.1	34.21	14.656	
10,000.0	9,896.5	9,951.0	9,896.5	24.3	27.2	-87.91	743.3	-26.0	501.3	467.0	34.35	14.593	
10,100.0	9,996.5	10,051.0	9,996.5	24.4	27.3	-87.91	743.3	-26.0	501.3	466.8	34.50	14.530	
10,200.0	10,096.5	10,151.0	10,096.5	24.4	27.3	-87.91	743.3	-26.0	501.3	466.7	34.65	14.468	
10,300.0	10,196.5	10,251.0	10,196.5	24.5	27.4	-87.91	743.3	-26.0	501.3	466.5	34.80	14.407	
10,400.0	10,296.5	10,351.0	10,296.5	24.5	27.4	-87.91	743.3	-26.0	501.3	466.4	34.95	14.346	
10,500.0	10,396.5	10,451.0	10,396.5	24.6	27.5	-87.91	743.3	-26.0	501.3	466.2	35.09	14.285	
10,600.0	10,496.5	10,551.0	10,496.5	24.6	27.5	-87.91	743.3	-26.0	501.3	466.1	35.24	14.225	
10,700.0	10,596.5	10,651.0	10,596.5	24.7	27.6	-87.91	743.3	-26.0	501.3	465.9	35.39	14.166	
10,800.0	10,696.5	10,751.0	10,696.5	24.7	27.6	-87.91	743.3	-26.0	501.3	465.8	35.54	14.106	
10,900.0	10,796.5	10,851.0	10,796.5	24.8	27.7	-87.91	743.3	-26.0	501.3	465.6	35.69	14.048	
11,000.0	10,896.5	10,951.0	10,896.5	24.9	27.7	-87.91	743.3	-26.0	501.3	465.5	35.84	13.989	
11,100.0	10,996.5	11,051.0	10,996.5	24.9	27.8	-87.91	743.3	-26.0	501.3	465.3	35.99	13.932	
11,200.0	11,096.5	11,151.0	11,096.5	25.0	27.8	-87.91	743.3	-26.0	501.3	465.2	36.13	13.874	
11,300.0	11,196.5	11,251.0	11,196.5	25.0	27.9	-87.91	743.3	-26.0	501.3	465.1	36.28	13.817	
11,398.0	11,294.5	11,349.0	11,294.5	25.1	28.0	-87.91	743.3	-26.0	501.3	464.9	36.43	13.762	
11,400.0	11,296.5	11,351.0	11,296.5	25.1	28.0	87.59	743.3	-26.0	501.3	464.9	36.43	13.762	
11,425.0	11,321.5	11,376.0	11,321.5	25.0	28.0	87.68	743.3	-26.0	501.3	464.9	36.44	13.757	
11,450.0	11,346.4	11,400.9	11,346.4	25.0	28.0	87.93	743.3	-26.0	501.2	464.8	36.42	13.762	
11,475.0	11,371.2	11,425.6	11,371.2	24.9	28.0	88.32	743.3	-26.0	501.1	464.7	36.39	13.772	
11,500.0	11,395.7	11,450.2	11,395.7	24.8	28.0	88.86	743.3	-26.0	501.0	464.7	36.34	13.787	
11,525.0	11,420.0	11,474.5	11,420.0	24.7	28.0	89.53	743.3	-26.0	500.9	464.6	36.28	13.806	
11,540.4	11,434.8	11,489.3	11,434.8	24.7	28.0	90.00	743.3	-26.0	500.9	464.6	36.24	13.821	
11,550.0	11,444.0	11,498.4	11,444.0	24.7	28.0	90.32	743.3	-26.0	500.9	464.7	36.22	13.831	
11,575.0	11,467.5	11,522.0	11,467.5	24.6	28.0	91.21	743.3	-26.0	501.0	464.9	36.14	13.862	
11,600.0	11,490.5	11,545.0	11,490.5	24.5	28.0	92.19	743.3	-26.0	501.3	465.3	36.08	13.897	
11,625.0	11,513.0	11,570.6	11,516.1	24.4	28.0	93.36	742.9	-26.0	501.9	465.8	36.02	13.934	
11,650.0	11,535.0	11,597.8	11,543.3	24.3	28.0	94.58	741.0	-26.0	502.5	466.5	35.97	13.971	
11,675.0	11,556.2	11,625.8	11,571.0	24.2	27.9	95.81	737.4	-26.0	503.2	467.3	35.93	14.004	
11,700.0	11,576.8	11,654.7	11,599.4	24.1	27.8	97.05	732.0	-25.9	504.0	468.1	35.92	14.032	
11,725.0	11,596.5	11,684.4	11,628.2	24.0	27.6	98.29	724.7	-25.9	504.9	469.0	35.93	14.055	
11,750.0	11,615.5	11,715.1	11,657.4	24.0	27.5	99.53	715.2	-25.8	505.9	469.9	35.95	14.071	
11,775.0	11,633.5	11,746.8	11,686.9	23.9	27.4	100.77	703.6	-25.8	506.8	470.8	36.00	14.079	
11,800.0	11,650.7	11,779.6	11,716.4	23.8	27.2	102.00	689.5	-25.7	507.8	471.7	36.07	14.077	
11,825.0	11,666.8	11,813.4	11,745.9	23.7	27.1	103.22	672.8	-25.6	508.7	472.6	36.18	14.063	
11,850.0	11,682.0	11,848.3	11,775.0	23.7	27.0	104.42	653.5	-25.4	509.6	473.3	36.31	14.035	
11,875.0	11,696.0	11,884.4	11,803.4	23.6	26.8	105.59	631.3	-25.3	510.4	473.9	36.48	13.989	
11,900.0	11,709.0	11,921.6	11,830.9	23.6	26.7	106.72	606.3	-25.1	511.0	474.3	36.70	13.923	
11,925.0	11,720.8	11,959.9	11,857.2	23.5	26.5	107.81	578.4	-25.0	511.5	474.5	36.97	13.836	
11,950.0	11,731.5	11,999.3	11,881.7	23.5	26.4	108.84	547.6	-24.8	511.7	474.4	37.29	13.724	
11,975.0	11,741.0	12,039.7	11,904.1	23.4	26.3	109.80	514.0	-24.6	511.7	474.1	37.66	13.589	
12,000.0	11,749.2	12,081.0	11,924.0	23.4	26.2	110.68	477.9	-24.3	511.4	473.4	38.08	13.430	
12,025.0	11,756.2	12,123.0	11,941.0	23.4	26.1	111.46	439.4	-24.1	510.8	472.3	38.55	13.251	
12,050.0	11,761.9	12,165.6	11,954.7	23.4	26.0	112.14	399.1	-23.8	509.8	470.8	39.06	13.055	
12,075.0	11,766.4	12,208.6	11,964.8	23.3	26.0	112.71	357.3	-23.6	508.5	468.9	39.58	12.847	
12,100.0	11,769.6	12,251.9	11,971.2	23.3	25.9	113.16	314.5	-23.3	506.8	466.7	40.11	12.634	
12,125.0	11,771.4	12,295.1	11,973.6	23.3	25.9	113.48	271.4	-23.0	504.7	464.0	40.63	12.421	
12,148.0	11,772.0	12,320.4	11,973.7	23.3	25.9	113.73	246.1	-22.9	502.7	461.9	40.79	12.323	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,200.0	11,772.0	12,372.2	11,973.7	23.4	25.9	113.88	194.3	-22.6	499.1	458.0	41.08	12.150	
12,300.0	11,772.0	12,472.1	11,973.7	23.4	25.9	114.08	94.4	-21.9	494.6	452.9	41.68	11.867	
12,390.9	11,772.0	12,563.0	11,973.7	23.5	25.9	114.14	3.5	-21.4	493.3	451.0	42.24	11.678	
12,400.0	11,772.0	12,572.1	11,973.7	23.5	25.9	114.14	-5.6	-21.3	493.3	451.0	42.29	11.663	
12,500.0	11,772.0	12,672.1	11,973.7	23.6	25.9	114.14	-105.6	-20.7	493.3	450.3	42.95	11.484	
12,600.0	11,772.0	12,772.1	11,973.7	23.7	25.9	114.14	-205.6	-20.1	493.3	449.6	43.68	11.292	
12,700.0	11,772.0	12,872.1	11,973.7	23.9	26.0	114.14	-305.6	-19.4	493.3	448.8	44.47	11.091	
12,800.0	11,772.0	12,972.1	11,973.7	24.0	26.0	114.14	-405.6	-18.8	493.3	447.9	45.33	10.882	
12,900.0	11,772.0	13,072.1	11,973.7	24.2	26.0	114.14	-505.6	-18.2	493.3	447.0	46.24	10.667	
13,000.0	11,772.0	13,172.1	11,973.7	24.5	26.0	114.14	-605.6	-17.5	493.2	446.0	47.21	10.448	
13,100.0	11,772.0	13,272.1	11,973.7	24.7	26.0	114.14	-705.6	-16.9	493.2	445.0	48.23	10.226	
13,200.0	11,772.0	13,372.1	11,973.7	25.0	26.0	114.14	-805.6	-16.3	493.2	443.9	49.30	10.004	
13,300.0	11,772.0	13,472.1	11,973.7	25.4	26.1	114.14	-905.6	-15.7	493.2	442.8	50.42	9.783	
13,400.0	11,772.0	13,572.1	11,973.7	25.8	26.1	114.14	-1,005.6	-15.0	493.2	441.7	51.58	9.564	
13,500.0	11,772.0	13,672.1	11,973.7	26.2	26.1	114.14	-1,105.6	-14.4	493.2	440.5	52.77	9.347	
13,600.0	11,772.0	13,772.1	11,973.7	26.6	26.1	114.14	-1,205.6	-13.8	493.2	439.2	54.01	9.133	
13,700.0	11,772.0	13,872.1	11,973.7	27.1	26.2	114.14	-1,305.6	-13.2	493.2	438.0	55.28	8.923	
13,800.0	11,772.0	13,972.1	11,973.7	27.7	26.2	114.14	-1,405.6	-12.5	493.2	436.7	56.58	8.718	
13,900.0	11,772.0	14,072.1	11,973.7	28.2	26.2	114.14	-1,505.6	-11.9	493.2	435.3	57.91	8.518	
14,000.0	11,772.0	14,172.1	11,973.7	28.8	26.6	114.14	-1,605.6	-11.3	493.2	434.0	59.27	8.322	
14,100.0	11,772.0	14,272.1	11,973.7	29.4	27.4	114.14	-1,705.6	-10.7	493.2	432.6	60.65	8.132	
14,200.0	11,772.0	14,372.1	11,973.7	30.1	28.1	114.14	-1,805.6	-10.0	493.2	431.2	62.06	7.947	
14,300.0	11,772.0	14,472.1	11,973.7	30.7	28.9	114.14	-1,905.5	-9.4	493.2	429.7	63.49	7.768	
14,400.0	11,772.0	14,572.1	11,973.7	31.4	29.7	114.14	-2,005.5	-8.8	493.2	428.3	64.95	7.594	
14,500.0	11,772.0	14,672.1	11,973.7	32.1	30.5	114.14	-2,105.5	-8.2	493.2	426.8	66.42	7.426	
14,600.0	11,772.0	14,772.1	11,973.7	32.9	31.3	114.14	-2,205.5	-7.5	493.2	425.3	67.91	7.263	
14,700.0	11,772.0	14,872.1	11,973.7	33.6	32.2	114.14	-2,305.5	-6.9	493.2	423.8	69.42	7.105	
14,800.0	11,772.0	14,972.1	11,973.7	34.3	33.0	114.14	-2,405.5	-6.3	493.2	422.3	70.94	6.952	
14,900.0	11,772.0	15,072.1	11,973.7	35.1	33.8	114.14	-2,505.5	-5.6	493.2	420.7	72.48	6.804	
15,000.0	11,772.0	15,172.1	11,973.7	35.9	34.7	114.14	-2,605.5	-5.0	493.2	419.2	74.04	6.662	
15,100.0	11,772.0	15,272.1	11,973.7	36.7	35.5	114.14	-2,705.5	-4.4	493.2	417.6	75.60	6.523	
15,200.0	11,772.0	15,372.1	11,973.7	37.5	36.4	114.14	-2,805.5	-3.8	493.2	416.0	77.18	6.390	
15,300.0	11,772.0	15,472.1	11,973.7	38.3	37.2	114.14	-2,905.5	-3.1	493.2	414.4	78.78	6.261	
15,400.0	11,772.0	15,572.1	11,973.7	39.1	38.1	114.14	-3,005.5	-2.5	493.2	412.8	80.38	6.136	
15,500.0	11,772.0	15,672.1	11,973.7	39.9	39.0	114.14	-3,105.5	-1.9	493.2	411.2	81.99	6.015	
15,600.0	11,772.0	15,772.1	11,973.7	40.7	39.8	114.14	-3,205.5	-1.3	493.2	409.6	83.61	5.898	
15,700.0	11,772.0	15,872.1	11,973.7	41.6	40.7	114.14	-3,305.5	-0.6	493.2	407.9	85.25	5.785	
15,800.0	11,772.0	15,972.1	11,973.7	42.4	41.6	114.14	-3,405.5	0.0	493.2	406.3	86.89	5.676	
15,900.0	11,772.0	16,072.1	11,973.7	43.2	42.5	114.14	-3,505.5	0.6	493.2	404.7	88.54	5.570	
16,000.0	11,772.0	16,172.1	11,973.7	44.1	43.4	114.14	-3,605.5	1.2	493.2	403.0	90.19	5.468	
16,100.0	11,772.0	16,272.1	11,973.7	45.0	44.3	114.14	-3,705.5	1.9	493.2	401.3	91.86	5.369	
16,200.0	11,772.0	16,372.1	11,973.7	45.8	45.2	114.14	-3,805.5	2.5	493.2	399.7	93.53	5.273	
16,300.0	11,772.0	16,472.1	11,973.7	46.7	46.1	114.14	-3,905.5	3.1	493.2	398.0	95.21	5.180	
16,400.0	11,772.0	16,572.1	11,973.7	47.6	47.0	114.14	-4,005.5	3.7	493.2	396.3	96.89	5.090	
16,500.0	11,772.0	16,672.1	11,973.7	48.4	47.9	114.14	-4,105.5	4.4	493.2	394.6	98.58	5.003	
16,600.0	11,772.0	16,772.1	11,973.7	49.3	48.8	114.14	-4,205.5	5.0	493.2	392.9	100.27	4.918	
16,700.0	11,772.0	16,872.1	11,973.7	50.2	49.7	114.14	-4,305.5	5.6	493.2	391.2	101.97	4.836	
16,800.0	11,772.0	16,972.1	11,973.7	51.1	50.6	114.14	-4,405.5	6.3	493.2	389.5	103.68	4.757	
16,900.0	11,772.0	17,072.1	11,973.7	52.0	51.5	114.14	-4,505.5	6.9	493.2	387.8	105.39	4.679	
17,000.0	11,772.0	17,172.1	11,973.7	52.8	52.4	114.14	-4,605.5	7.5	493.2	386.1	107.10	4.605	
17,100.0	11,772.0	17,272.1	11,973.7	53.7	53.3	114.14	-4,705.5	8.1	493.2	384.3	108.82	4.532	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,200.0	11,772.0	17,372.1	11,973.7	54.6	54.2	114.14	-4,805.5	8.8	493.2	382.6	110.55	4.461	
17,300.0	11,772.0	17,472.1	11,973.7	55.5	55.2	114.14	-4,905.5	9.4	493.2	380.9	112.28	4.392	
17,400.0	11,772.0	17,572.1	11,973.7	56.4	56.1	114.14	-5,005.5	10.0	493.2	379.2	114.01	4.326	
17,500.0	11,772.0	17,672.1	11,973.7	57.3	57.0	114.14	-5,105.5	10.6	493.2	377.4	115.74	4.261	
17,600.0	11,772.0	17,772.1	11,973.7	58.2	57.9	114.14	-5,205.5	11.3	493.2	375.7	117.48	4.198	
17,700.0	11,772.0	17,872.1	11,973.7	59.1	58.8	114.14	-5,305.5	11.9	493.2	373.9	119.22	4.136	
17,800.0	11,772.0	17,972.1	11,973.7	60.0	59.8	114.14	-5,405.5	12.5	493.1	372.2	120.97	4.077	
17,900.0	11,772.0	18,072.1	11,973.7	61.0	60.7	114.14	-5,505.5	13.1	493.1	370.4	122.71	4.019	
18,000.0	11,772.0	18,172.1	11,973.7	61.9	61.6	114.14	-5,605.5	13.8	493.1	368.7	124.46	3.962	
18,100.0	11,772.0	18,272.1	11,973.7	62.8	62.5	114.14	-5,705.5	14.4	493.1	366.9	126.22	3.907	
18,200.0	11,772.0	18,372.1	11,973.7	63.7	63.5	114.14	-5,805.5	15.0	493.1	365.2	127.97	3.853	
18,300.0	11,772.0	18,472.1	11,973.7	64.6	64.4	114.14	-5,905.5	15.7	493.1	363.4	129.73	3.801	
18,400.0	11,772.0	18,572.1	11,973.7	65.5	65.3	114.14	-6,005.5	16.3	493.1	361.6	131.49	3.750	
18,500.0	11,772.0	18,672.1	11,973.7	66.4	66.3	114.14	-6,105.5	16.9	493.1	359.9	133.26	3.701	
18,600.0	11,772.0	18,772.1	11,973.7	67.4	67.2	114.14	-6,205.5	17.5	493.1	358.1	135.02	3.652	
18,700.0	11,772.0	18,872.1	11,973.7	68.3	68.1	114.14	-6,305.5	18.2	493.1	356.3	136.79	3.605	
18,800.0	11,772.0	18,972.1	11,973.7	69.2	69.1	114.14	-6,405.5	18.8	493.1	354.6	138.56	3.559	
18,900.0	11,772.0	19,072.1	11,973.7	70.1	70.0	114.14	-6,505.5	19.4	493.1	352.8	140.33	3.514	
19,000.0	11,772.0	19,172.1	11,973.7	71.1	70.9	114.14	-6,605.5	20.0	493.1	351.0	142.11	3.470	
19,100.0	11,772.0	19,272.1	11,973.7	72.0	71.9	114.14	-6,705.5	20.7	493.1	349.2	143.88	3.427	
19,200.0	11,772.0	19,372.1	11,973.7	72.9	72.8	114.14	-6,805.5	21.3	493.1	347.5	145.66	3.385	
19,300.0	11,772.0	19,472.1	11,973.7	73.8	73.8	114.14	-6,905.5	21.9	493.1	345.7	147.44	3.345	
19,400.0	11,772.0	19,572.1	11,973.7	74.8	74.7	114.14	-7,005.4	22.5	493.1	343.9	149.22	3.305	
19,486.4	11,772.0	19,658.4	11,973.7	75.6	75.5	114.14	-7,091.8	23.1	493.1	342.4	150.76	3.271	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.1	0.0	3.0	3.0	89.63	0.1	20.0	20.0					
100.0	100.0	100.1	100.0	3.1	3.1	89.63	0.1	20.0	20.0	13.4	6.62	3.021		
200.0	200.0	200.1	200.0	3.3	3.3	89.63	0.1	20.0	20.0	12.9	7.07	2.828	Normal Operations	
300.0	300.0	300.1	300.0	3.6	3.6	89.63	0.1	20.0	20.0	12.5	7.50	2.668	Normal Operations	
400.0	400.0	400.1	400.0	3.8	3.8	89.63	0.1	20.0	20.0	12.1	7.90	2.531	Normal Operations	
500.0	500.0	500.1	500.0	4.0	4.0	89.63	0.1	20.0	20.0	11.7	8.29	2.413	Caution - Monitor Closely	
600.0	600.0	600.1	600.0	4.1	4.1	89.63	0.1	20.0	20.0	11.3	8.66	2.309	Caution - Monitor Closely	
700.0	700.0	700.1	700.0	4.3	4.3	89.63	0.1	20.0	20.0	11.0	9.02	2.218	Caution - Monitor Closely	
800.0	800.0	800.1	800.0	4.5	4.5	89.63	0.1	20.0	20.0	10.6	9.37	2.135	Caution - Monitor Closely	
900.0	900.0	900.1	900.0	4.7	4.7	89.63	0.1	20.0	20.0	10.3	9.70	2.061	Caution - Monitor Closely	
1,000.0	1,000.0	1,000.1	1,000.0	4.8	4.8	89.63	0.1	20.0	20.0	10.0	10.03	1.994	Caution - Monitor Closely	
1,100.0	1,100.0	1,100.1	1,100.0	5.0	5.0	89.63	0.1	20.0	20.0	9.7	10.35	1.932	Caution - Monitor Closely	
1,200.0	1,200.0	1,200.1	1,200.0	5.2	5.2	89.63	0.1	20.0	20.0	9.3	10.66	1.876	Caution - Monitor Closely	
1,300.0	1,300.0	1,300.1	1,300.0	5.3	5.3	89.63	0.1	20.0	20.0	9.0	10.97	1.824	Caution - Monitor Closely	
1,400.0	1,400.0	1,400.1	1,400.0	5.5	5.5	89.63	0.1	20.0	20.0	8.7	11.27	1.775	Caution - Monitor Closely	
1,500.0	1,500.0	1,500.1	1,500.0	5.6	5.6	89.63	0.1	20.0	20.0	8.4	11.56	1.730	Caution - Monitor Closely	
1,600.0	1,600.0	1,600.1	1,600.0	5.8	5.8	89.63	0.1	20.0	20.0	8.2	11.85	1.688	Caution - Monitor Closely	
1,700.0	1,700.0	1,700.1	1,700.0	5.9	5.9	89.63	0.1	20.0	20.0	7.9	12.13	1.649	Caution - Monitor Closely	
1,800.0	1,800.0	1,800.1	1,800.0	6.0	6.0	89.63	0.1	20.0	20.0	7.6	12.41	1.612	Caution - Monitor Closely	
1,900.0	1,900.0	1,900.1	1,900.0	6.2	6.2	89.63	0.1	20.0	20.0	7.3	12.68	1.577	Caution - Monitor Closely	
2,000.0	2,000.0	2,000.1	2,000.0	6.3	6.3	89.63	0.1	20.0	20.0	7.0	12.95	1.544	Caution - Monitor Closely	
2,010.0	2,010.0	2,010.1	2,010.0	6.3	6.3	89.63	0.1	20.0	20.0	7.0	12.97	1.542	Caution - Monitor Closely, CC, ES, SF	
2,100.0	2,100.0	2,099.8	2,099.7	6.5	6.4	89.63	0.1	20.3	20.3	7.2	13.15	1.546	Caution - Monitor Closely	
2,200.0	2,200.0	2,199.3	2,199.1	6.7	6.5	60.18	0.1	22.9	22.0	8.6	13.44	1.638	Caution - Monitor Closely	
2,300.0	2,299.8	2,298.5	2,298.3	6.9	6.7	69.81	0.1	28.1	25.0	11.3	13.71	1.821	Caution - Monitor Closely	
2,400.0	2,399.5	2,397.6	2,397.1	7.1	6.8	81.83	0.2	35.8	30.2	16.3	13.92	2.171	Caution - Monitor Closely	
2,500.0	2,498.7	2,497.3	2,496.2	7.4	7.1	91.23	2.1	45.5	37.0	22.8	14.24	2.598	Normal Operations	
2,600.0	2,597.5	2,597.2	2,595.4	7.6	7.3	97.69	7.2	56.8	44.1	29.6	14.53	3.035		
2,700.0	2,695.6	2,697.4	2,694.3	7.9	7.5	102.40	15.4	69.8	51.3	36.5	14.81	3.463		
2,800.0	2,793.1	2,797.7	2,793.0	8.2	7.8	106.03	26.6	84.4	58.4	43.3	15.09	3.868		
2,873.2	2,863.8	2,871.3	2,864.9	8.4	8.0	108.24	36.9	96.0	63.4	48.2	15.27	4.155		
2,900.0	2,889.7	2,898.2	2,891.1	8.5	8.1	108.91	41.0	100.5	65.2	49.9	15.32	4.259		
3,000.0	2,986.1	2,998.0	2,988.2	8.8	8.4	110.93	56.6	117.2	71.9	56.2	15.69	4.581		
3,100.0	3,082.4	3,097.7	3,085.4	9.1	8.7	112.60	72.2	133.9	78.6	62.6	16.02	4.907		
3,200.0	3,178.8	3,197.5	3,182.5	9.4	9.0	114.01	87.7	150.5	85.4	69.0	16.37	5.218		
3,300.0	3,275.2	3,297.2	3,279.6	9.7	9.3	115.21	103.3	167.2	92.2	75.5	16.74	5.512		
3,400.0	3,371.6	3,397.0	3,376.7	10.1	9.7	116.24	118.9	183.9	99.1	82.0	17.12	5.789		
3,500.0	3,468.0	3,496.7	3,473.8	10.4	10.0	117.14	134.4	200.6	106.0	88.5	17.52	6.049		
3,600.0	3,564.3	3,596.5	3,570.9	10.8	10.4	117.93	150.0	217.3	112.9	95.0	17.94	6.293		
3,700.0	3,660.7	3,696.2	3,668.0	11.2	10.8	118.63	165.6	233.9	119.8	101.5	18.38	6.522		
3,800.0	3,757.1	3,796.0	3,765.1	11.6	11.1	119.26	181.2	250.6	126.8	108.0	18.82	6.736		
3,900.0	3,853.5	3,895.7	3,862.2	12.0	11.5	119.81	196.7	267.3	133.8	114.5	19.29	6.935		
4,000.0	3,949.9	3,995.5	3,959.3	12.4	11.9	120.32	212.3	284.0	140.7	121.0	19.76	7.121		
4,100.0	4,046.2	4,095.2	4,056.4	12.8	12.3	120.77	227.9	300.7	147.7	127.5	20.25	7.295		
4,200.0	4,142.6	4,195.0	4,153.5	13.2	12.7	121.19	243.5	317.3	154.7	134.0	20.75	7.457		
4,300.0	4,239.0	4,294.7	4,250.6	13.7	13.1	121.56	259.0	334.0	161.7	140.4	21.25	7.608		
4,400.0	4,335.4	4,394.5	4,347.7	14.1	13.5	121.91	274.6	350.7	168.7	146.9	21.77	7.749		
4,500.0	4,431.8	4,494.2	4,444.8	14.5	14.0	122.23	290.2	367.4	175.7	153.4	22.30	7.880		
4,600.0	4,528.1	4,594.0	4,541.9	15.0	14.4	122.52	305.8	384.1	182.7	159.9	22.83	8.003		
4,700.0	4,624.5	4,693.7	4,639.0	15.4	14.8	122.80	321.3	400.8	189.8	166.4	23.38	8.117		
4,800.0	4,720.9	4,793.5	4,736.1	15.9	15.2	123.05	336.9	417.4	196.8	172.9	23.93	8.224		

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,900.0	4,817.3	4,893.2	4,833.2	16.3	15.7	123.29	352.5	434.1	203.8	179.3	24.48	8.324		
4,957.2	4,872.4	4,950.2	4,888.7	16.6	15.9	123.41	361.4	443.6	207.8	183.0	24.79	8.384		
5,000.0	4,913.7	4,993.0	4,930.3	16.7	16.1	123.49	368.1	450.8	210.8	185.7	25.01	8.427		
5,100.0	5,010.5	5,092.8	5,027.5	17.2	16.6	123.40	383.6	467.5	216.9	191.4	25.51	8.502		
5,200.0	5,107.7	5,192.6	5,124.7	17.6	17.0	122.92	399.2	484.2	222.1	196.1	25.94	8.560		
5,300.0	5,205.3	5,292.5	5,221.9	18.1	17.4	122.09	414.8	500.9	226.4	200.1	26.30	8.607		
5,400.0	5,303.3	5,392.3	5,319.1	18.5	17.9	120.91	430.4	517.6	229.8	203.2	26.58	8.646		
5,500.0	5,401.6	5,492.1	5,416.2	19.0	18.3	119.39	446.0	534.3	232.5	205.7	26.78	8.681		
5,600.0	5,500.2	5,591.8	5,513.2	19.4	18.8	117.53	461.5	550.9	234.5	207.6	26.90	8.718		
5,700.0	5,599.1	5,691.3	5,610.2	19.8	19.2	115.32	477.1	567.6	236.0	209.1	26.94	8.759		
5,800.0	5,698.3	5,790.8	5,706.9	20.2	19.7	112.76	492.6	584.2	237.2	210.3	26.93	8.807		
5,900.0	5,797.6	5,890.0	5,803.5	20.6	20.1	109.85	508.1	600.8	238.3	211.4	26.89	8.861		
6,000.0	5,897.2	5,989.0	5,900.0	21.0	20.6	106.59	523.6	617.4	239.5	212.6	26.85	8.917		
6,100.0	5,996.8	6,087.8	5,996.1	21.3	21.0	102.98	539.0	633.9	241.0	214.2	26.88	8.966		
6,200.0	6,096.6	6,186.4	6,092.1	21.7	21.5	99.06	554.4	650.4	243.3	216.3	27.05	8.996		
6,300.0	6,196.5	6,284.6	6,187.7	22.0	22.0	94.85	569.7	666.8	246.6	219.2	27.42	8.993		
6,400.0	6,296.5	6,382.5	6,283.0	22.3	22.4	90.42	585.0	683.2	251.2	223.1	28.08	8.948		
6,500.0	6,396.5	6,480.0	6,377.9	22.5	22.9	85.83	600.2	699.5	257.5	228.4	29.05	8.863		
6,503.5	6,400.0	6,483.5	6,381.3	22.5	22.9	118.90	600.8	700.0	257.7	228.7	29.09	8.859		
6,600.0	6,496.5	6,577.4	6,472.7	22.5	23.3	114.47	615.4	715.8	265.6	235.3	30.30	8.764		
6,700.0	6,596.5	6,674.8	6,567.5	22.6	23.8	110.16	630.6	732.0	275.3	243.6	31.72	8.680		
6,800.0	6,696.5	6,772.1	6,662.3	22.6	24.2	106.16	645.8	748.3	286.6	253.4	33.23	8.626		
6,900.0	6,796.5	6,871.6	6,759.2	22.7	24.7	102.45	661.1	764.6	298.9	264.2	34.74	8.605		
7,000.0	6,896.5	6,972.6	6,858.1	22.7	25.1	99.24	675.4	780.0	311.4	275.2	36.15	8.613		
7,100.0	6,996.5	7,074.4	6,957.9	22.8	25.6	96.50	688.6	794.2	323.5	286.1	37.44	8.641		
7,200.0	7,096.5	7,176.8	7,058.8	22.8	26.1	94.18	700.7	807.1	335.1	296.5	38.60	8.681		
7,300.0	7,196.5	7,279.9	7,160.6	22.9	26.5	92.22	711.7	818.8	346.0	306.3	39.64	8.726		
7,400.0	7,296.5	7,383.5	7,263.3	22.9	26.9	90.59	721.4	829.2	355.8	315.2	40.57	8.770		
7,500.0	7,396.5	7,487.6	7,366.6	23.0	27.4	89.23	729.9	838.3	364.6	323.2	41.39	8.808		
7,600.0	7,496.5	7,592.1	7,470.6	23.0	27.8	88.13	737.1	846.1	372.2	330.1	42.11	8.838		
7,700.0	7,596.5	7,697.0	7,575.1	23.1	28.2	87.26	743.1	852.5	378.5	335.8	42.74	8.857		
7,800.0	7,696.5	7,802.1	7,680.0	23.1	28.5	86.60	747.7	857.5	383.5	340.2	43.26	8.864		
7,900.0	7,796.5	7,907.5	7,785.3	23.2	28.9	86.13	751.1	861.1	387.1	343.4	43.70	8.859		
8,000.0	7,896.5	8,013.0	7,890.7	23.2	29.2	85.86	753.1	863.2	389.3	345.3	44.02	8.843		
8,100.0	7,996.5	8,118.6	7,996.3	23.3	29.4	85.76	753.8	864.0	390.1	345.9	44.21	8.823		
8,200.0	8,096.5	8,218.8	8,096.5	23.3	29.5	85.76	753.8	864.0	390.1	345.8	44.30	8.804		
8,300.0	8,196.5	8,318.8	8,196.5	23.4	29.5	85.76	753.8	864.0	390.1	345.7	44.40	8.785		
8,400.0	8,296.5	8,418.8	8,296.5	23.4	29.5	85.76	753.8	864.0	390.1	345.6	44.50	8.766		
8,500.0	8,396.5	8,518.8	8,396.5	23.5	29.6	85.76	753.8	864.0	390.1	345.5	44.60	8.746		
8,600.0	8,496.5	8,618.8	8,496.5	23.5	29.6	85.76	753.8	864.0	390.1	345.4	44.70	8.727		
8,700.0	8,596.5	8,718.8	8,596.5	23.6	29.7	85.76	753.8	864.0	390.1	345.3	44.80	8.707		
8,800.0	8,696.5	8,818.8	8,696.5	23.6	29.7	85.76	753.8	864.0	390.1	345.2	44.90	8.688		
8,900.0	8,796.5	8,918.8	8,796.5	23.7	29.7	85.76	753.8	864.0	390.1	345.1	45.00	8.669		
9,000.0	8,896.5	9,018.8	8,896.5	23.8	29.8	85.76	753.8	864.0	390.1	345.0	45.10	8.649		
9,100.0	8,996.5	9,118.8	8,996.5	23.8	29.8	85.76	753.8	864.0	390.1	344.9	45.20	8.630		
9,200.0	9,096.5	9,218.8	9,096.5	23.9	29.8	85.76	753.8	864.0	390.1	344.8	45.30	8.611		
9,300.0	9,196.5	9,318.8	9,196.5	23.9	29.9	85.76	753.8	864.0	390.1	344.7	45.40	8.591		
9,400.0	9,296.5	9,418.8	9,296.5	24.0	29.9	85.76	753.8	864.0	390.1	344.6	45.50	8.572		
9,500.0	9,396.5	9,518.8	9,396.5	24.0	30.0	85.76	753.8	864.0	390.1	344.5	45.61	8.553		
9,600.0	9,496.5	9,618.8	9,496.5	24.1	30.0	85.76	753.8	864.0	390.1	344.4	45.71	8.534		
9,700.0	9,596.5	9,718.8	9,596.5	24.1	30.0	85.76	753.8	864.0	390.1	344.3	45.81	8.514		

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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	9,696.5	9,818.8	9,696.5	24.2	30.1	85.76	753.8	864.0	390.1	344.2	45.92	8.495	
9,900.0	9,796.5	9,918.8	9,796.5	24.2	30.1	85.76	753.8	864.0	390.1	344.0	46.02	8.476	
10,000.0	9,896.5	10,018.8	9,896.5	24.3	30.2	85.76	753.8	864.0	390.1	343.9	46.12	8.457	
10,100.0	9,996.5	10,118.8	9,996.5	24.4	30.2	85.76	753.8	864.0	390.1	343.8	46.23	8.438	
10,200.0	10,096.5	10,218.8	10,096.5	24.4	30.3	85.76	753.8	864.0	390.1	343.7	46.33	8.419	
10,300.0	10,196.5	10,318.8	10,196.5	24.5	30.3	85.76	753.8	864.0	390.1	343.6	46.44	8.400	
10,400.0	10,296.5	10,418.8	10,296.5	24.5	30.3	85.76	753.8	864.0	390.1	343.5	46.54	8.381	
10,500.0	10,396.5	10,518.8	10,396.5	24.6	30.4	85.76	753.8	864.0	390.1	343.4	46.65	8.362	
10,600.0	10,496.5	10,618.8	10,496.5	24.6	30.4	85.76	753.8	864.0	390.1	343.3	46.76	8.343	
10,700.0	10,596.5	10,718.8	10,596.5	24.7	30.5	85.76	753.8	864.0	390.1	343.2	46.86	8.324	
10,800.0	10,696.5	10,818.8	10,696.5	24.7	30.5	85.76	753.8	864.0	390.1	343.1	46.97	8.305	
10,900.0	10,796.5	10,918.8	10,796.5	24.8	30.5	85.76	753.8	864.0	390.1	343.0	47.08	8.286	
11,000.0	10,896.5	11,018.8	10,896.5	24.9	30.6	85.76	753.8	864.0	390.1	342.9	47.18	8.267	
11,100.0	10,996.5	11,118.8	10,996.5	24.9	30.6	85.76	753.8	864.0	390.1	342.8	47.29	8.248	
11,200.0	11,096.5	11,218.8	11,096.5	25.0	30.7	85.76	753.8	864.0	390.1	342.7	47.40	8.230	
11,300.0	11,196.5	11,318.8	11,196.5	25.0	30.7	85.76	753.8	864.0	390.1	342.6	47.51	8.211	
11,398.0	11,294.5	11,416.8	11,294.5	25.1	30.8	85.76	753.8	864.0	390.1	342.5	47.61	8.193	
11,400.0	11,296.5	11,418.8	11,296.5	25.1	30.8	-98.74	753.8	864.0	390.1	342.5	47.61	8.192	
11,425.0	11,321.5	11,443.8	11,321.5	25.0	30.8	-98.84	753.8	864.0	390.2	342.5	47.66	8.187	
11,450.0	11,346.4	11,468.7	11,346.4	25.0	30.8	-99.10	753.8	864.0	390.5	342.8	47.75	8.178	
11,475.0	11,371.2	11,493.5	11,371.2	24.9	30.8	-99.51	753.8	864.0	391.1	343.2	47.91	8.163	
11,500.0	11,395.7	11,518.0	11,395.7	24.8	30.8	-100.08	753.8	864.0	391.9	343.8	48.11	8.145	
11,525.0	11,420.0	11,542.3	11,420.0	24.7	30.8	-100.78	753.8	864.0	393.0	344.6	48.37	8.125	
11,550.0	11,444.0	11,566.2	11,444.0	24.7	30.8	-101.59	753.8	864.0	394.4	345.8	48.67	8.104	
11,575.0	11,467.5	11,589.8	11,467.5	24.6	30.8	-102.50	753.8	864.0	396.3	347.3	49.02	8.085	
11,600.0	11,490.5	11,612.8	11,490.5	24.5	30.8	-103.48	753.8	864.0	398.6	349.2	49.39	8.071	
11,625.0	11,513.0	11,635.7	11,513.4	24.4	30.8	-104.53	753.8	864.0	401.5	351.7	49.79	8.064	
11,650.0	11,535.0	11,662.8	11,540.5	24.3	30.8	-105.83	752.9	864.0	404.9	354.8	50.09	8.084	
11,675.0	11,556.2	11,690.8	11,568.3	24.2	30.7	-107.10	750.4	864.0	408.6	358.3	50.30	8.124	
11,700.0	11,576.8	11,719.7	11,596.9	24.1	30.7	-108.34	746.1	864.0	412.6	362.2	50.43	8.183	
11,725.0	11,596.5	11,749.6	11,626.2	24.0	30.6	-109.54	739.8	864.1	416.9	366.5	50.48	8.260	
11,750.0	11,615.5	11,780.6	11,656.0	24.0	30.5	-110.69	731.4	864.1	421.5	371.0	50.44	8.357	
11,775.0	11,633.5	11,812.7	11,686.3	23.9	30.4	-111.81	720.7	864.2	426.2	375.9	50.31	8.471	
11,800.0	11,650.7	11,846.1	11,716.8	23.8	30.3	-112.86	707.4	864.3	431.1	380.9	50.11	8.603	
11,825.0	11,666.8	11,880.7	11,747.5	23.7	30.2	-113.86	691.4	864.4	436.0	386.2	49.82	8.751	
11,850.0	11,682.0	11,916.6	11,778.0	23.7	30.1	-114.78	672.4	864.5	440.9	391.5	49.47	8.914	
11,875.0	11,696.0	11,953.9	11,808.1	23.6	30.0	-115.63	650.4	864.6	445.8	396.8	49.05	9.090	
11,900.0	11,709.0	11,992.5	11,837.4	23.6	29.9	-116.38	625.2	864.8	450.7	402.1	48.57	9.278	
11,925.0	11,720.8	12,032.5	11,865.4	23.5	29.8	-117.03	596.7	865.0	455.3	407.2	48.06	9.473	
11,950.0	11,731.5	12,073.8	11,891.8	23.5	29.7	-117.57	565.0	865.2	459.7	412.2	47.52	9.674	
11,975.0	11,741.0	12,116.3	11,915.9	23.4	29.6	-117.97	530.0	865.4	463.8	416.8	46.96	9.877	
12,000.0	11,749.2	12,159.9	11,937.4	23.4	29.6	-118.23	492.1	865.6	467.5	421.2	46.39	10.079	
12,025.0	11,756.2	12,204.4	11,955.6	23.4	29.5	-118.35	451.5	865.9	470.9	425.1	45.82	10.276	
12,050.0	11,761.9	12,249.6	11,970.2	23.4	29.5	-118.30	408.7	866.2	473.8	428.6	45.27	10.467	
12,075.0	11,766.4	12,295.3	11,980.7	23.3	29.5	-118.09	364.3	866.4	476.3	431.6	44.73	10.648	
12,100.0	11,769.6	12,341.2	11,987.0	23.3	29.5	-117.71	318.9	866.7	478.3	434.1	44.21	10.818	
12,125.0	11,771.4	12,385.5	11,988.9	23.3	29.5	-117.19	274.6	867.0	479.8	436.0	43.74	10.968	
12,148.0	11,772.0	12,408.4	11,988.9	23.3	29.5	-116.87	251.7	867.1	481.3	437.6	43.71	11.011	
12,200.0	11,772.0	12,460.2	11,988.9	23.4	29.6	-116.63	199.8	867.5	484.8	441.1	43.65	11.106	
12,300.0	11,772.0	12,560.1	11,988.9	23.4	29.7	-116.33	100.0	868.1	489.2	445.6	43.62	11.216	
12,390.9	11,772.0	12,651.0	11,988.9	23.5	29.8	-116.25	9.1	868.7	490.5	446.8	43.65	11.237	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			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)		
12,400.0	11,772.0	12,660.1	11,988.9	23.5	29.8	-116.25	0.0	868.7	490.5	446.8	43.65	11.236	
12,500.0	11,772.0	12,760.1	11,988.9	23.6	29.9	-116.25	-100.0	869.3	490.5	446.7	43.76	11.209	
12,600.0	11,772.0	12,860.1	11,988.9	23.7	30.1	-116.25	-200.0	870.0	490.5	446.5	43.94	11.162	
12,700.0	11,772.0	12,960.1	11,988.9	23.9	30.3	-116.25	-300.0	870.6	490.5	446.3	44.20	11.097	
12,800.0	11,772.0	13,060.1	11,988.9	24.0	30.5	-116.25	-400.0	871.2	490.5	445.9	44.53	11.014	
12,900.0	11,772.0	13,160.1	11,988.9	24.2	30.8	-116.25	-500.0	871.8	490.5	445.5	44.94	10.914	
13,000.0	11,772.0	13,260.1	11,988.9	24.5	31.0	-116.25	-600.0	872.5	490.5	445.1	45.42	10.799	
13,100.0	11,772.0	13,360.1	11,988.9	24.7	31.3	-116.25	-700.0	873.1	490.5	444.5	45.97	10.670	
13,200.0	11,772.0	13,460.1	11,988.9	25.0	31.6	-116.25	-800.0	873.7	490.5	443.9	46.58	10.529	
13,300.0	11,772.0	13,560.1	11,988.9	25.4	31.9	-116.25	-900.0	874.3	490.5	443.2	47.26	10.378	
13,400.0	11,772.0	13,660.1	11,988.9	25.8	32.3	-116.25	-1,000.0	875.0	490.5	442.5	48.00	10.218	
13,500.0	11,772.0	13,760.1	11,988.9	26.2	32.7	-116.25	-1,100.0	875.6	490.5	441.7	48.80	10.050	
13,600.0	11,772.0	13,860.1	11,988.9	26.6	33.1	-116.25	-1,200.0	876.2	490.5	440.8	49.66	9.878	
13,700.0	11,772.0	13,960.1	11,988.9	27.1	33.5	-116.25	-1,300.0	876.8	490.5	439.9	50.56	9.700	
13,800.0	11,772.0	14,060.1	11,988.9	27.7	33.9	-116.25	-1,400.0	877.5	490.5	439.0	51.52	9.520	
13,900.0	11,772.0	14,160.1	11,988.9	28.2	34.4	-116.25	-1,500.0	878.1	490.5	438.0	52.53	9.338	
14,000.0	11,772.0	14,260.1	11,988.9	28.8	34.9	-116.24	-1,600.0	878.7	490.5	436.9	53.57	9.155	
14,100.0	11,772.0	14,360.1	11,988.9	29.4	35.4	-116.24	-1,700.0	879.4	490.5	435.8	54.67	8.973	
14,200.0	11,772.0	14,460.1	11,988.9	30.1	35.9	-116.24	-1,800.0	880.0	490.5	434.7	55.80	8.791	
14,300.0	11,772.0	14,560.1	11,988.9	30.7	36.5	-116.24	-1,900.0	880.6	490.5	433.5	56.96	8.611	
14,400.0	11,772.0	14,660.1	11,988.9	31.4	37.0	-116.24	-2,000.0	881.2	490.5	432.3	58.17	8.433	
14,500.0	11,772.0	14,760.1	11,988.9	32.1	37.6	-116.24	-2,100.0	881.9	490.5	431.1	59.40	8.257	
14,600.0	11,772.0	14,860.1	11,988.9	32.9	38.2	-116.24	-2,200.0	882.5	490.5	429.8	60.67	8.085	
14,700.0	11,772.0	14,960.1	11,988.9	33.6	38.8	-116.24	-2,300.0	883.1	490.5	428.5	61.96	7.916	
14,800.0	11,772.0	15,060.1	11,988.9	34.3	39.5	-116.24	-2,400.0	883.7	490.5	427.2	63.28	7.751	
14,900.0	11,772.0	15,160.1	11,988.9	35.1	40.1	-116.24	-2,500.0	884.4	490.5	425.9	64.63	7.589	
15,000.0	11,772.0	15,260.1	11,988.9	35.9	40.8	-116.24	-2,600.0	885.0	490.5	424.5	66.00	7.432	
15,100.0	11,772.0	15,360.1	11,988.9	36.7	41.5	-116.24	-2,700.0	885.6	490.5	423.1	67.39	7.278	
15,200.0	11,772.0	15,460.1	11,988.9	37.5	42.1	-116.24	-2,800.0	886.2	490.5	421.7	68.81	7.129	
15,300.0	11,772.0	15,560.1	11,988.9	38.3	42.8	-116.24	-2,900.0	886.9	490.5	420.3	70.24	6.983	
15,400.0	11,772.0	15,660.1	11,988.9	39.1	43.6	-116.24	-3,000.0	887.5	490.5	418.8	71.69	6.842	
15,500.0	11,772.0	15,760.1	11,988.9	39.9	44.3	-116.24	-3,100.0	888.1	490.5	417.3	73.16	6.704	
15,600.0	11,772.0	15,860.1	11,988.9	40.7	45.0	-116.24	-3,200.0	888.7	490.5	415.9	74.65	6.571	
15,700.0	11,772.0	15,960.1	11,988.9	41.6	45.8	-116.24	-3,299.9	889.4	490.5	414.4	76.15	6.441	
15,800.0	11,772.0	16,060.1	11,988.9	42.4	46.5	-116.24	-3,399.9	890.0	490.5	412.8	77.67	6.316	
15,900.0	11,772.0	16,160.1	11,988.9	43.2	47.3	-116.24	-3,499.9	890.6	490.5	411.3	79.19	6.194	
16,000.0	11,772.0	16,260.1	11,988.9	44.1	48.0	-116.24	-3,599.9	891.2	490.5	409.8	80.74	6.075	
16,100.0	11,772.0	16,360.1	11,988.9	45.0	48.8	-116.24	-3,699.9	891.9	490.5	408.2	82.29	5.961	
16,200.0	11,772.0	16,460.1	11,988.9	45.8	49.6	-116.24	-3,799.9	892.5	490.5	406.7	83.86	5.849	
16,300.0	11,772.0	16,560.1	11,988.9	46.7	50.4	-116.24	-3,899.9	893.1	490.5	405.1	85.43	5.742	
16,400.0	11,772.0	16,660.1	11,988.9	47.6	51.2	-116.24	-3,999.9	893.7	490.5	403.5	87.02	5.637	
16,500.0	11,772.0	16,760.1	11,988.9	48.4	52.0	-116.24	-4,099.9	894.4	490.5	401.9	88.62	5.535	
16,600.0	11,772.0	16,860.1	11,988.9	49.3	52.8	-116.24	-4,199.9	895.0	490.5	400.3	90.22	5.437	
16,700.0	11,772.0	16,960.1	11,988.9	50.2	53.6	-116.24	-4,299.9	895.6	490.5	398.7	91.84	5.341	
16,800.0	11,772.0	17,060.1	11,988.9	51.1	54.5	-116.24	-4,399.9	896.2	490.5	397.1	93.46	5.248	
16,900.0	11,772.0	17,160.1	11,988.9	52.0	55.3	-116.24	-4,499.9	896.9	490.5	395.4	95.09	5.158	
17,000.0	11,772.0	17,260.1	11,988.9	52.8	56.1	-116.24	-4,599.9	897.5	490.5	393.8	96.73	5.071	
17,100.0	11,772.0	17,360.1	11,988.9	53.7	56.9	-116.24	-4,699.9	898.1	490.5	392.2	98.37	4.986	
17,200.0	11,772.0	17,460.1	11,988.9	54.6	57.8	-116.24	-4,799.9	898.7	490.5	390.5	100.03	4.904	
17,300.0	11,772.0	17,560.1	11,988.9	55.5	58.6	-116.24	-4,899.9	899.4	490.5	388.9	101.68	4.824	
17,400.0	11,772.0	17,660.1	11,988.9	56.4	59.5	-116.24	-4,999.9	900.0	490.5	387.2	103.35	4.746	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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			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)			
17,500.0	11,772.0	17,760.1	11,988.9	57.3	60.3	-116.24	-5,099.9	900.6	490.5	385.5	105.02	4.671		
17,600.0	11,772.0	17,860.1	11,988.9	58.2	61.2	-116.24	-5,199.9	901.2	490.5	383.8	106.69	4.598		
17,700.0	11,772.0	17,960.1	11,988.9	59.1	62.0	-116.24	-5,299.9	901.9	490.5	382.2	108.37	4.526		
17,800.0	11,772.0	18,060.1	11,988.9	60.0	62.9	-116.24	-5,399.9	902.5	490.5	380.5	110.06	4.457		
17,900.0	11,772.0	18,160.1	11,988.9	61.0	63.8	-116.24	-5,499.9	903.1	490.5	378.8	111.75	4.390		
18,000.0	11,772.0	18,260.1	11,988.9	61.9	64.6	-116.24	-5,599.9	903.8	490.5	377.1	113.45	4.324		
18,100.0	11,772.0	18,360.1	11,988.9	62.8	65.5	-116.24	-5,699.9	904.4	490.5	375.4	115.15	4.260		
18,200.0	11,772.0	18,460.1	11,988.9	63.7	66.4	-116.24	-5,799.9	905.0	490.5	373.7	116.85	4.198		
18,300.0	11,772.0	18,560.1	11,988.9	64.6	67.3	-116.24	-5,899.9	905.6	490.5	372.0	118.56	4.138		
18,400.0	11,772.0	18,660.1	11,988.9	65.5	68.2	-116.24	-5,999.9	906.3	490.5	370.3	120.27	4.079		
18,500.0	11,772.0	18,760.1	11,988.9	66.4	69.0	-116.24	-6,099.9	906.9	490.6	368.6	121.98	4.021		
18,600.0	11,772.0	18,860.1	11,988.9	67.4	69.9	-116.24	-6,199.9	907.5	490.6	366.9	123.70	3.966		
18,700.0	11,772.0	18,960.1	11,988.9	68.3	70.8	-116.24	-6,299.9	908.1	490.6	365.1	125.42	3.911		
18,800.0	11,772.0	19,060.1	11,988.9	69.2	71.7	-116.24	-6,399.9	908.8	490.6	363.4	127.15	3.858		
18,900.0	11,772.0	19,160.1	11,988.9	70.1	72.6	-116.24	-6,499.9	909.4	490.6	361.7	128.88	3.806		
19,000.0	11,772.0	19,260.1	11,988.9	71.1	73.5	-116.24	-6,599.9	910.0	490.6	359.9	130.61	3.756		
19,100.0	11,772.0	19,360.1	11,988.9	72.0	74.4	-116.24	-6,699.9	910.6	490.6	358.2	132.34	3.707		
19,200.0	11,772.0	19,460.1	11,988.9	72.9	75.3	-116.24	-6,799.9	911.3	490.6	356.5	134.08	3.659		
19,300.0	11,772.0	19,560.1	11,988.9	73.8	76.2	-116.24	-6,899.9	911.9	490.6	354.7	135.82	3.612		
19,400.0	11,772.0	19,660.1	11,988.9	74.8	77.1	-116.24	-6,999.9	912.5	490.6	353.0	137.56	3.566		
19,405.1	11,772.0	19,665.2	11,988.9	74.8	77.1	-116.24	-7,005.0	912.5	490.6	352.9	137.65	3.564		
19,486.4	11,772.0	19,746.4	11,988.9	75.6	77.8	-116.24	-7,086.2	913.0	490.6	351.6	138.92	3.531		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				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)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.5	0.0	3.0	3.0	89.64	0.2	40.0	40.0				
100.0	100.0	100.5	100.0	3.1	3.1	89.64	0.2	40.0	40.0	33.4	6.56	6.097	
200.0	200.0	200.5	200.0	3.3	3.2	89.64	0.2	40.0	40.0	33.1	6.91	5.791	
300.0	300.0	300.5	300.0	3.6	3.3	89.64	0.2	40.0	40.0	32.8	7.24	5.526	
400.0	400.0	400.5	400.0	3.8	3.4	89.64	0.2	40.0	40.0	32.4	7.56	5.294	
500.0	500.0	500.5	500.0	4.0	3.6	89.64	0.2	40.0	40.0	32.1	7.86	5.088	
600.0	600.0	600.5	600.0	4.1	3.7	89.64	0.2	40.0	40.0	31.8	8.16	4.904	
700.0	700.0	700.5	700.0	4.3	3.8	89.64	0.2	40.0	40.0	31.6	8.44	4.738	
800.0	800.0	800.5	800.0	4.5	3.9	89.64	0.2	40.0	40.0	31.3	8.72	4.587	
900.0	900.0	900.5	900.0	4.7	4.0	89.64	0.2	40.0	40.0	31.0	8.99	4.449	
1,000.0	1,000.0	1,000.5	1,000.0	4.8	4.2	89.64	0.2	40.0	40.0	30.7	9.25	4.323	
1,100.0	1,100.0	1,100.5	1,100.0	5.0	4.3	89.64	0.2	40.0	40.0	30.5	9.51	4.206	
1,200.0	1,200.0	1,200.5	1,200.0	5.2	4.4	89.64	0.2	40.0	40.0	30.2	9.76	4.098	
1,300.0	1,300.0	1,300.5	1,300.0	5.3	4.5	89.64	0.2	40.0	40.0	30.0	10.01	3.997	
1,400.0	1,400.0	1,400.5	1,400.0	5.5	4.6	89.64	0.2	40.0	40.0	29.8	10.25	3.903	
1,500.0	1,500.0	1,500.5	1,500.0	5.6	4.8	89.64	0.2	40.0	40.0	29.5	10.49	3.815	
1,600.0	1,600.0	1,600.5	1,600.0	5.8	4.9	89.64	0.2	40.0	40.0	29.3	10.72	3.732	
1,700.0	1,700.0	1,700.5	1,700.0	5.9	5.0	89.64	0.2	40.0	40.0	29.1	10.95	3.654	
1,800.0	1,800.0	1,800.5	1,800.0	6.0	5.1	89.64	0.2	40.0	40.0	28.8	11.17	3.581	
1,900.0	1,900.0	1,900.5	1,900.0	6.2	5.2	89.64	0.2	40.0	40.0	28.6	11.39	3.511	
1,966.5	1,966.5	1,967.0	1,966.5	6.3	5.3	89.64	0.2	40.0	40.0	28.5	11.54	3.467	
2,000.0	2,000.0	2,000.5	2,000.0	6.3	5.3	89.64	0.3	40.0	40.0	28.4	11.61	3.445	
2,100.0	2,100.0	2,100.2	2,099.7	6.5	5.5	87.84	1.5	40.3	40.4	28.5	11.83	3.413	
2,200.0	2,200.0	2,200.0	2,199.4	6.7	5.6	51.32	5.3	41.4	40.6	28.4	12.14	3.344	
2,300.0	2,299.8	2,299.1	2,298.3	6.9	5.7	48.56	11.5	43.2	39.8	27.4	12.39	3.211	
2,368.6	2,368.2	2,366.7	2,365.7	7.0	5.8	47.94	16.5	45.9	39.5	26.9	12.61	3.133 CC	
2,400.0	2,399.5	2,397.7	2,396.6	7.1	5.9	48.13	18.9	47.6	39.6	26.9	12.72	3.112 ES	
2,500.0	2,498.7	2,496.4	2,494.5	7.4	6.1	50.61	27.4	55.3	40.5	27.5	13.02	3.110 SF	
2,600.0	2,597.5	2,594.9	2,592.0	7.6	6.2	55.59	36.8	66.3	42.8	29.5	13.29	3.218	
2,700.0	2,695.6	2,693.2	2,688.7	7.9	6.4	62.19	47.1	80.4	46.9	33.3	13.53	3.465	
2,800.0	2,793.1	2,791.3	2,784.6	8.2	6.6	69.32	58.4	97.6	53.2	39.5	13.75	3.871	
2,873.2	2,863.8	2,862.8	2,854.1	8.4	6.7	74.30	67.1	112.2	59.5	45.6	13.90	4.281	
2,900.0	2,889.7	2,889.0	2,879.4	8.5	6.8	75.97	70.5	117.9	62.2	48.2	13.95	4.459	
3,000.0	2,986.1	2,988.0	2,974.9	8.8	6.9	80.65	83.3	140.5	73.3	59.0	14.22	5.152	
3,100.0	3,082.4	3,087.2	3,070.7	9.1	7.1	84.09	96.3	163.1	84.7	70.2	14.52	5.837	
3,200.0	3,178.8	3,186.4	3,166.4	9.4	7.2	86.70	109.2	185.8	96.4	81.6	14.83	6.504	
3,300.0	3,275.2	3,285.7	3,262.1	9.7	7.4	88.74	122.1	208.5	108.3	93.1	15.14	7.149	
3,400.0	3,371.6	3,384.9	3,357.9	10.1	7.5	90.38	135.0	231.1	120.2	104.8	15.47	7.770	
3,500.0	3,468.0	3,484.1	3,453.6	10.4	7.7	91.72	147.9	253.8	132.3	116.5	15.81	8.366	
3,600.0	3,564.3	3,583.4	3,549.4	10.8	7.9	92.84	160.8	276.4	144.4	128.2	16.15	8.936	
3,700.0	3,660.7	3,682.6	3,645.1	11.2	8.0	93.79	173.7	299.1	156.5	140.0	16.51	9.482	
3,800.0	3,757.1	3,781.8	3,740.9	11.6	8.2	94.60	186.6	321.8	168.7	151.8	16.86	10.003	
3,900.0	3,853.5	3,881.0	3,836.6	12.0	8.4	95.30	199.5	344.4	180.9	163.7	17.23	10.500	
4,000.0	3,949.9	3,980.3	3,932.3	12.4	8.6	95.91	212.4	367.1	193.1	175.5	17.60	10.974	
4,100.0	4,046.2	4,079.5	4,028.1	12.8	8.8	96.45	225.3	389.7	205.4	187.4	17.97	11.426	
4,200.0	4,142.6	4,178.7	4,123.8	13.2	9.0	96.92	238.2	412.4	217.6	199.3	18.35	11.857	
4,300.0	4,239.0	4,278.0	4,219.6	13.7	9.1	97.35	251.1	435.1	229.9	211.2	18.74	12.268	
4,400.0	4,335.4	4,377.2	4,315.3	14.1	9.3	97.73	264.0	457.7	242.2	223.1	19.13	12.661	
4,500.0	4,431.8	4,476.4	4,411.0	14.5	9.5	98.08	276.9	480.4	254.5	235.0	19.53	13.035	
4,600.0	4,528.1	4,575.7	4,506.8	15.0	9.7	98.39	289.8	503.0	266.8	246.9	19.92	13.392	
4,700.0	4,624.5	4,674.9	4,602.5	15.4	9.9	98.68	302.7	525.7	279.1	258.8	20.33	13.732	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,720.9	4,774.1	4,698.3	15.9	10.1	98.94	315.6	548.4	291.4	270.7	20.73	14.057	
4,900.0	4,817.3	4,873.3	4,794.0	16.3	10.3	99.18	328.5	571.0	303.8	282.6	21.14	14.368	
4,957.2	4,872.4	4,930.1	4,848.7	16.6	10.4	99.31	335.9	584.0	310.8	289.5	21.36	14.553	
5,000.0	4,913.7	4,972.6	4,889.8	16.7	10.5	99.43	341.4	593.7	316.1	294.6	21.52	14.691	
5,100.0	5,010.5	5,071.8	4,985.5	17.2	10.7	99.48	354.3	616.4	328.2	306.2	21.91	14.978	
5,200.0	5,107.7	5,171.1	5,081.3	17.6	10.9	99.23	367.3	639.0	339.9	317.7	22.28	15.258	
5,300.0	5,205.3	5,270.4	5,177.1	18.1	11.1	98.73	380.2	661.7	351.5	328.9	22.63	15.533	
5,400.0	5,303.3	5,369.6	5,272.8	18.5	11.3	97.99	393.1	684.3	362.8	339.9	22.96	15.804	
5,500.0	5,401.6	5,468.7	5,368.5	19.0	11.5	97.03	406.0	707.0	374.0	350.7	23.27	16.074	
5,600.0	5,500.2	5,567.8	5,464.0	19.4	11.7	95.88	418.8	729.6	385.2	361.6	23.57	16.343	
5,700.0	5,599.1	5,666.6	5,559.4	19.8	11.9	94.55	431.7	752.2	396.3	372.5	23.86	16.612	
5,800.0	5,698.3	5,765.4	5,654.7	20.2	12.2	93.07	444.5	774.7	407.7	383.5	24.15	16.881	
5,900.0	5,797.6	5,863.9	5,749.7	20.6	12.4	91.43	457.4	797.2	419.2	394.8	24.45	17.150	
6,000.0	5,897.2	5,962.2	5,844.6	21.0	12.6	89.67	470.1	819.7	431.2	406.4	24.76	17.418	
6,100.0	5,996.8	6,060.2	5,939.2	21.3	12.8	87.80	482.9	842.1	443.7	418.6	25.09	17.684	
6,200.0	6,096.6	6,157.9	6,033.5	21.7	13.0	85.84	495.6	864.4	456.8	431.3	25.45	17.947	
6,300.0	6,196.5	6,255.4	6,127.5	22.0	13.2	83.80	508.3	886.6	470.7	444.8	25.85	18.207	
6,400.0	6,296.5	6,352.4	6,221.1	22.3	13.4	81.70	520.9	908.8	485.4	459.1	26.29	18.465	
6,500.0	6,396.5	6,449.1	6,314.4	22.5	13.6	79.55	533.5	930.9	501.2	474.5	26.77	18.726	
6,503.5	6,400.0	6,452.5	6,317.7	22.5	13.6	112.71	533.9	931.6	501.8	475.0	26.78	18.735	
6,600.0	6,496.5	6,545.6	6,407.5	22.5	13.8	110.53	546.0	952.9	518.0	490.8	27.26	19.000	
6,700.0	6,596.5	6,642.1	6,500.6	22.6	14.1	108.41	558.6	974.9	535.6	507.8	27.78	19.280	
6,800.0	6,696.5	6,738.6	6,593.7	22.6	14.3	106.43	571.1	997.0	553.8	525.5	28.30	19.569	
6,900.0	6,796.5	6,835.1	6,686.8	22.7	14.5	104.56	583.7	1,019.0	572.7	543.8	28.83	19.867	
7,000.0	6,896.5	6,931.6	6,779.9	22.7	14.7	102.82	596.2	1,041.0	592.1	562.8	29.35	20.174	
7,100.0	6,996.5	7,028.1	6,873.0	22.8	14.9	101.18	608.8	1,063.1	612.0	582.2	29.87	20.492	
7,200.0	7,096.5	7,124.5	6,966.1	22.8	15.1	99.65	621.3	1,085.1	632.5	602.1	30.38	20.819	
7,300.0	7,196.5	7,221.0	7,059.2	22.9	15.3	98.21	633.8	1,107.1	653.3	622.4	30.88	21.154	
7,400.0	7,296.5	7,317.5	7,152.3	22.9	15.5	96.85	646.4	1,129.2	674.5	643.1	31.37	21.500	
7,500.0	7,396.5	7,420.0	7,251.2	23.0	15.7	95.52	659.6	1,152.3	695.8	664.0	31.85	21.847	
7,600.0	7,496.5	7,528.0	7,356.0	23.0	16.0	94.28	672.6	1,175.2	716.1	683.7	32.33	22.148	
7,700.0	7,596.5	7,637.1	7,462.2	23.1	16.2	93.19	684.8	1,196.5	735.0	702.2	32.78	22.421	
7,800.0	7,696.5	7,747.0	7,569.8	23.1	16.4	92.24	696.0	1,216.3	752.6	719.4	33.20	22.667	
7,900.0	7,796.5	7,857.9	7,678.7	23.2	16.7	91.41	706.3	1,234.3	768.7	735.1	33.59	22.883	
8,000.0	7,896.5	7,969.5	7,788.7	23.2	16.9	90.69	715.6	1,250.7	783.2	749.3	33.95	23.068	
8,100.0	7,996.5	8,081.8	7,899.8	23.3	17.1	90.08	723.9	1,265.3	796.2	761.9	34.29	23.222	
8,200.0	8,096.5	8,194.8	8,011.8	23.3	17.3	89.56	731.2	1,278.0	807.5	772.9	34.59	23.344	
8,300.0	8,196.5	8,308.2	8,124.6	23.4	17.5	89.13	737.3	1,288.9	817.1	782.3	34.87	23.435	
8,400.0	8,296.5	8,422.2	8,238.0	23.4	17.7	88.79	742.4	1,297.8	825.1	790.0	35.12	23.493	
8,500.0	8,396.5	8,536.5	8,352.1	23.5	17.9	88.52	746.4	1,304.8	831.3	796.0	35.34	23.520	
8,600.0	8,496.5	8,651.1	8,466.5	23.5	18.1	88.33	749.3	1,309.9	835.8	800.2	35.54	23.515	
8,700.0	8,596.5	8,765.8	8,581.2	23.6	18.3	88.22	751.0	1,312.9	838.5	802.8	35.71	23.481	
8,800.0	8,696.5	8,880.7	8,696.1	23.6	18.4	88.18	751.6	1,314.0	839.4	803.6	35.82	23.435	
8,900.0	8,796.5	8,981.2	8,796.5	23.7	18.4	88.18	751.6	1,314.0	839.4	803.5	35.94	23.357	
9,000.0	8,896.5	9,081.2	8,896.5	23.8	18.5	88.18	751.6	1,314.0	839.4	803.4	36.06	23.280	
9,100.0	8,996.5	9,181.2	8,996.5	23.8	18.5	88.18	751.6	1,314.0	839.4	803.2	36.17	23.205	
9,200.0	9,096.5	9,281.2	9,096.5	23.9	18.6	88.18	751.6	1,314.0	839.4	803.1	36.29	23.131	
9,300.0	9,196.5	9,381.2	9,196.5	23.9	18.7	88.18	751.6	1,314.0	839.4	803.0	36.41	23.056	
9,400.0	9,296.5	9,481.2	9,296.5	24.0	18.7	88.18	751.6	1,314.0	839.4	802.9	36.53	22.982	
9,500.0	9,396.5	9,581.2	9,396.5	24.0	18.8	88.18	751.6	1,314.0	839.4	802.8	36.64	22.908	
9,600.0	9,496.5	9,681.2	9,496.5	24.1	18.8	88.18	751.6	1,314.0	839.4	802.7	36.76	22.834	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,700.0	9,596.5	9,781.2	9,596.5	24.1	18.9	88.18	751.6	1,314.0	839.4	802.5	36.88	22.761	
9,800.0	9,696.5	9,881.2	9,696.5	24.2	18.9	88.18	751.6	1,314.0	839.4	802.4	37.00	22.688	
9,900.0	9,796.5	9,981.2	9,796.5	24.2	19.0	88.18	751.6	1,314.0	839.4	802.3	37.12	22.615	
10,000.0	9,896.5	10,081.2	9,896.5	24.3	19.0	88.18	751.6	1,314.0	839.4	802.2	37.24	22.542	
10,100.0	9,996.5	10,181.2	9,996.5	24.4	19.1	88.18	751.6	1,314.0	839.4	802.1	37.36	22.470	
10,200.0	10,096.5	10,281.2	10,096.5	24.4	19.2	88.18	751.6	1,314.0	839.4	801.9	37.48	22.398	
10,300.0	10,196.5	10,381.2	10,196.5	24.5	19.2	88.18	751.6	1,314.0	839.4	801.8	37.60	22.326	
10,400.0	10,296.5	10,481.2	10,296.5	24.5	19.3	88.18	751.6	1,314.0	839.4	801.7	37.72	22.255	
10,500.0	10,396.5	10,581.2	10,396.5	24.6	19.3	88.18	751.6	1,314.0	839.4	801.6	37.84	22.184	
10,600.0	10,496.5	10,681.2	10,496.5	24.6	19.4	88.18	751.6	1,314.0	839.4	801.5	37.96	22.113	
10,700.0	10,596.5	10,781.2	10,596.5	24.7	19.4	88.18	751.6	1,314.0	839.4	801.3	38.08	22.042	
10,800.0	10,696.5	10,881.2	10,696.5	24.7	19.5	88.18	751.6	1,314.0	839.4	801.2	38.20	21.972	
10,900.0	10,796.5	10,981.2	10,796.5	24.8	19.6	88.18	751.6	1,314.0	839.4	801.1	38.33	21.902	
11,000.0	10,896.5	11,081.2	10,896.5	24.9	19.6	88.18	751.6	1,314.0	839.4	801.0	38.45	21.832	
11,100.0	10,996.5	11,181.2	10,996.5	24.9	19.7	88.18	751.6	1,314.0	839.4	800.9	38.57	21.762	
11,200.0	11,096.5	11,281.2	11,096.5	25.0	19.7	88.18	751.6	1,314.0	839.4	800.7	38.70	21.693	
11,300.0	11,196.5	11,381.2	11,196.5	25.0	19.8	88.18	751.6	1,314.0	839.4	800.6	38.82	21.624	
11,398.0	11,294.5	11,479.1	11,294.5	25.1	19.9	88.18	751.6	1,314.0	839.4	800.5	38.94	21.559	
11,400.0	11,296.5	11,481.2	11,296.5	25.1	19.9	-96.32	751.6	1,314.0	839.4	800.5	38.94	21.558	
11,425.0	11,321.5	11,506.7	11,322.0	25.0	19.9	-96.35	751.5	1,314.0	839.5	800.6	38.95	21.555	
11,450.0	11,346.4	11,532.9	11,348.2	25.0	19.8	-96.38	750.1	1,314.0	839.7	800.8	38.94	21.566	
11,475.0	11,371.2	11,559.2	11,374.3	24.9	19.8	-96.39	747.3	1,314.0	840.0	801.1	38.91	21.586	
11,500.0	11,395.7	11,585.5	11,400.3	24.8	19.8	-96.39	743.0	1,314.1	840.4	801.5	38.89	21.612	
11,525.0	11,420.0	11,611.8	11,426.0	24.7	19.8	-96.36	737.3	1,314.1	840.9	802.1	38.85	21.644	
11,550.0	11,444.0	11,638.2	11,451.4	24.7	19.8	-96.32	730.2	1,314.1	841.6	802.7	38.81	21.683	
11,575.0	11,467.5	11,664.5	11,476.3	24.6	19.7	-96.26	721.7	1,314.2	842.3	803.5	38.77	21.727	
11,600.0	11,490.5	11,690.9	11,500.8	24.5	19.7	-96.18	711.9	1,314.2	843.1	804.4	38.72	21.776	
11,625.0	11,513.0	11,717.3	11,524.7	24.4	19.7	-96.08	700.7	1,314.3	844.0	805.4	38.66	21.830	
11,650.0	11,535.0	11,743.8	11,548.0	24.3	19.7	-95.97	688.1	1,314.4	845.1	806.5	38.61	21.890	
11,675.0	11,556.2	11,770.2	11,570.5	24.2	19.7	-95.84	674.3	1,314.5	846.2	807.6	38.54	21.953	
11,700.0	11,576.8	11,796.6	11,592.2	24.1	19.6	-95.69	659.3	1,314.6	847.4	808.9	38.48	22.021	
11,725.0	11,596.5	11,823.0	11,613.1	24.0	19.6	-95.53	643.1	1,314.7	848.7	810.3	38.42	22.092	
11,750.0	11,615.5	11,849.4	11,633.0	24.0	19.6	-95.35	625.8	1,314.8	850.0	811.7	38.35	22.165	
11,775.0	11,633.5	11,875.8	11,651.9	23.9	19.6	-95.16	607.4	1,314.9	851.5	813.2	38.28	22.242	
11,800.0	11,650.7	11,902.2	11,669.8	23.8	19.6	-94.95	588.1	1,315.0	853.0	814.8	38.22	22.320	
11,825.0	11,666.8	11,928.5	11,686.6	23.7	19.6	-94.73	567.7	1,315.2	854.6	816.5	38.16	22.399	
11,850.0	11,682.0	11,954.8	11,702.2	23.7	19.6	-94.49	546.6	1,315.3	856.3	818.2	38.09	22.478	
11,875.0	11,696.0	11,981.1	11,716.5	23.6	19.6	-94.25	524.6	1,315.4	858.0	820.0	38.04	22.558	
11,900.0	11,709.0	12,007.3	11,729.7	23.6	19.6	-93.99	501.9	1,315.6	859.8	821.9	37.98	22.637	
11,925.0	11,720.8	12,033.5	11,741.5	23.5	19.6	-93.72	478.5	1,315.7	861.7	823.8	37.94	22.715	
11,950.0	11,731.5	12,059.7	11,752.1	23.5	19.6	-93.44	454.6	1,315.9	863.6	825.7	37.89	22.791	
11,975.0	11,741.0	12,085.8	11,761.3	23.4	19.6	-93.15	430.2	1,316.0	865.5	827.7	37.86	22.864	
12,000.0	11,749.2	12,111.8	11,769.1	23.4	19.6	-92.86	405.3	1,316.2	867.5	829.7	37.82	22.935	
12,025.0	11,756.2	12,137.8	11,775.6	23.4	19.6	-92.55	380.1	1,316.3	869.5	831.7	37.80	23.002	
12,050.0	11,761.9	12,163.8	11,780.6	23.4	19.7	-92.24	354.7	1,316.5	871.6	833.8	37.79	23.066	
12,075.0	11,766.4	12,189.7	11,784.3	23.3	19.7	-91.93	329.0	1,316.6	873.6	835.8	37.78	23.126	
12,100.0	11,769.6	12,215.5	11,786.6	23.3	19.7	-91.61	303.3	1,316.8	875.7	837.9	37.78	23.181	
12,125.0	11,771.4	12,241.3	11,787.5	23.3	19.8	-91.28	277.5	1,317.0	877.8	840.0	37.78	23.232	
12,148.0	11,772.0	12,264.3	11,787.5	23.3	19.8	-91.01	254.5	1,317.1	879.7	841.9	37.80	23.270	
12,200.0	11,772.0	12,316.2	11,787.5	23.4	19.9	-91.01	202.7	1,317.4	883.7	845.8	37.87	23.335	
12,300.0	11,772.0	12,416.1	11,787.5	23.4	20.0	-91.00	102.8	1,318.1	888.6	850.5	38.09	23.327	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
12,390.9	11,772.0	12,506.9	11,787.5	23.5	20.2	-91.00	11.9	1,318.6	890.0	851.7	38.36	23.204	
12,400.0	11,772.0	12,516.0	11,787.5	23.5	20.2	-91.00	2.8	1,318.7	890.0	851.6	38.38	23.187	
12,500.0	11,772.0	12,616.0	11,787.5	23.6	20.4	-91.00	-97.2	1,319.3	890.0	851.3	38.74	22.972	
12,600.0	11,772.0	12,716.0	11,787.5	23.7	20.6	-91.00	-197.2	1,319.9	890.0	850.8	39.18	22.715	
12,700.0	11,772.0	12,816.0	11,787.5	23.9	20.9	-91.00	-297.2	1,320.6	890.0	850.3	39.70	22.419	
12,800.0	11,772.0	12,916.0	11,787.5	24.0	21.1	-91.00	-397.2	1,321.2	890.0	849.7	40.29	22.089	
12,900.0	11,772.0	13,016.0	11,787.5	24.2	21.4	-91.00	-497.2	1,321.8	890.0	849.1	40.96	21.732	
13,000.0	11,772.0	13,116.0	11,787.5	24.5	21.7	-91.00	-597.2	1,322.4	890.0	848.3	41.69	21.350	
13,100.0	11,772.0	13,216.0	11,787.5	24.7	22.0	-91.00	-697.2	1,323.1	890.0	847.5	42.48	20.950	
13,200.0	11,772.0	13,316.0	11,787.5	25.0	22.4	-91.00	-797.2	1,323.7	890.0	846.7	43.34	20.536	
13,300.0	11,772.0	13,416.0	11,787.5	25.4	22.7	-91.00	-897.2	1,324.3	890.0	845.8	44.25	20.112	
13,400.0	11,772.0	13,516.0	11,787.5	25.8	23.1	-91.00	-997.2	1,324.9	890.0	844.8	45.22	19.682	
13,500.0	11,772.0	13,616.0	11,787.5	26.2	23.5	-91.00	-1,097.2	1,325.6	890.0	843.8	46.24	19.249	
13,600.0	11,772.0	13,716.0	11,787.5	26.6	24.0	-91.00	-1,197.2	1,326.2	890.0	842.7	47.30	18.815	
13,700.0	11,772.0	13,816.0	11,787.5	27.1	24.4	-91.00	-1,297.2	1,326.8	890.0	841.6	48.41	18.385	
13,800.0	11,772.0	13,916.0	11,787.5	27.7	24.9	-91.00	-1,397.2	1,327.4	890.0	840.5	49.56	17.958	
13,900.0	11,772.0	14,016.0	11,787.5	28.2	25.4	-91.00	-1,497.2	1,328.1	890.0	839.3	50.75	17.538	
14,000.0	11,772.0	14,116.0	11,787.5	28.8	25.9	-91.00	-1,597.2	1,328.7	890.0	838.1	51.97	17.125	
14,100.0	11,772.0	14,216.0	11,787.5	29.4	26.4	-91.00	-1,697.2	1,329.3	890.0	836.8	53.23	16.721	
14,200.0	11,772.0	14,316.0	11,787.5	30.1	27.0	-91.00	-1,797.2	1,330.0	890.0	835.5	54.52	16.326	
14,300.0	11,772.0	14,416.0	11,787.5	30.7	27.5	-91.00	-1,897.2	1,330.6	890.0	834.2	55.83	15.941	
14,400.0	11,772.0	14,516.0	11,787.5	31.4	28.1	-91.00	-1,997.2	1,331.2	890.1	832.9	57.18	15.567	
14,500.0	11,772.0	14,616.0	11,787.5	32.1	28.7	-91.00	-2,097.2	1,331.8	890.1	831.5	58.54	15.204	
14,600.0	11,772.0	14,716.0	11,787.5	32.9	29.3	-91.00	-2,197.2	1,332.5	890.1	830.1	59.93	14.851	
14,700.0	11,772.0	14,816.0	11,787.5	33.6	29.9	-91.00	-2,297.2	1,333.1	890.1	828.7	61.34	14.509	
14,800.0	11,772.0	14,916.0	11,787.5	34.3	30.5	-91.00	-2,397.2	1,333.7	890.1	827.3	62.78	14.178	
14,900.0	11,772.0	15,016.0	11,787.5	35.1	31.1	-91.00	-2,497.1	1,334.3	890.1	825.8	64.23	13.858	
15,000.0	11,772.0	15,116.0	11,787.5	35.9	31.8	-91.00	-2,597.1	1,335.0	890.1	824.4	65.69	13.549	
15,100.0	11,772.0	15,216.0	11,787.5	36.7	32.4	-91.00	-2,697.1	1,335.6	890.1	822.9	67.18	13.250	
15,200.0	11,772.0	15,316.0	11,787.5	37.5	33.1	-91.00	-2,797.1	1,336.2	890.1	821.4	68.68	12.960	
15,300.0	11,772.0	15,416.0	11,787.5	38.3	33.8	-91.00	-2,897.1	1,336.8	890.1	819.9	70.19	12.681	
15,400.0	11,772.0	15,516.0	11,787.5	39.1	34.5	-91.00	-2,997.1	1,337.5	890.1	818.4	71.72	12.411	
15,500.0	11,772.0	15,616.0	11,787.5	39.9	35.2	-91.00	-3,097.1	1,338.1	890.1	816.8	73.25	12.150	
15,600.0	11,772.0	15,716.0	11,787.5	40.7	35.9	-91.00	-3,197.1	1,338.7	890.1	815.3	74.81	11.898	
15,700.0	11,772.0	15,816.0	11,787.5	41.6	36.6	-91.00	-3,297.1	1,339.3	890.1	813.7	76.37	11.655	
15,800.0	11,772.0	15,916.0	11,787.5	42.4	37.3	-91.00	-3,397.1	1,340.0	890.1	812.1	77.94	11.420	
15,900.0	11,772.0	16,016.0	11,787.5	43.2	38.0	-91.00	-3,497.1	1,340.6	890.1	810.6	79.52	11.193	
16,000.0	11,772.0	16,116.0	11,787.5	44.1	38.7	-91.00	-3,597.1	1,341.2	890.1	809.0	81.11	10.973	
16,100.0	11,772.0	16,216.0	11,787.5	45.0	39.5	-91.00	-3,697.1	1,341.8	890.1	807.4	82.71	10.761	
16,200.0	11,772.0	16,316.0	11,787.5	45.8	40.2	-91.00	-3,797.1	1,342.5	890.1	805.8	84.32	10.556	
16,300.0	11,772.0	16,416.0	11,787.5	46.7	40.9	-91.00	-3,897.1	1,343.1	890.1	804.1	85.93	10.358	
16,400.0	11,772.0	16,516.0	11,787.5	47.6	41.7	-91.00	-3,997.1	1,343.7	890.1	802.5	87.56	10.166	
16,500.0	11,772.0	16,616.0	11,787.5	48.4	42.4	-91.00	-4,097.1	1,344.3	890.1	800.9	89.19	9.980	
16,600.0	11,772.0	16,716.0	11,787.5	49.3	43.2	-91.00	-4,197.1	1,345.0	890.1	799.3	90.82	9.800	
16,700.0	11,772.0	16,816.0	11,787.5	50.2	43.9	-91.00	-4,297.1	1,345.6	890.1	797.6	92.46	9.626	
16,800.0	11,772.0	16,916.0	11,787.5	51.1	44.7	-91.00	-4,397.1	1,346.2	890.1	796.0	94.11	9.458	
16,900.0	11,772.0	17,016.0	11,787.5	52.0	45.5	-91.00	-4,497.1	1,346.8	890.1	794.3	95.76	9.295	
17,000.0	11,772.0	17,116.0	11,787.5	52.8	46.2	-91.00	-4,597.1	1,347.5	890.1	792.7	97.42	9.136	
17,100.0	11,772.0	17,216.0	11,787.5	53.7	47.0	-91.00	-4,697.1	1,348.1	890.1	791.0	99.09	8.983	
17,200.0	11,772.0	17,316.0	11,787.5	54.6	47.8	-91.00	-4,797.1	1,348.7	890.1	789.3	100.75	8.834	
17,300.0	11,772.0	17,416.0	11,787.5	55.5	48.6	-91.00	-4,897.1	1,349.3	890.1	787.7	102.43	8.690	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 2000-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		No-Go Distance (usft)	Separation Factor
17,400.0	11,772.0	17,516.0	11,787.5	56.4	49.3	-91.00	-4,997.1	1,350.0	890.1	786.0		104.10	8.550
17,500.0	11,772.0	17,616.0	11,787.5	57.3	50.1	-91.00	-5,097.1	1,350.6	890.1	784.3		105.78	8.414
17,600.0	11,772.0	17,716.0	11,787.5	58.2	50.9	-91.00	-5,197.1	1,351.2	890.1	782.6		107.47	8.282
17,700.0	11,772.0	17,816.0	11,787.5	59.1	51.7	-91.00	-5,297.1	1,351.9	890.1	780.9		109.16	8.154
17,800.0	11,772.0	17,916.0	11,787.5	60.0	52.5	-91.00	-5,397.1	1,352.5	890.1	779.3		110.85	8.030
17,900.0	11,772.0	18,016.0	11,787.5	61.0	53.3	-91.00	-5,497.1	1,353.1	890.1	777.6		112.54	7.909
18,000.0	11,772.0	18,116.0	11,787.5	61.9	54.1	-91.00	-5,597.1	1,353.7	890.1	775.9		114.24	7.791
18,100.0	11,772.0	18,216.0	11,787.5	62.8	54.9	-91.00	-5,697.1	1,354.4	890.1	774.2		115.94	7.677
18,200.0	11,772.0	18,316.0	11,787.5	63.7	55.7	-91.00	-5,797.1	1,355.0	890.1	772.5		117.65	7.566
18,300.0	11,772.0	18,416.0	11,787.5	64.6	56.5	-91.00	-5,897.1	1,355.6	890.1	770.8		119.36	7.458
18,400.0	11,772.0	18,516.0	11,787.5	65.5	57.3	-91.00	-5,997.1	1,356.2	890.1	769.0		121.07	7.352
18,500.0	11,772.0	18,616.0	11,787.5	66.4	58.1	-91.00	-6,097.1	1,356.9	890.1	767.3		122.78	7.250
18,600.0	11,772.0	18,716.0	11,787.5	67.4	58.9	-91.00	-6,197.1	1,357.5	890.1	765.6		124.49	7.150
18,700.0	11,772.0	18,816.0	11,787.5	68.3	59.7	-91.00	-6,297.1	1,358.1	890.1	763.9		126.21	7.053
18,800.0	11,772.0	18,916.0	11,787.5	69.2	60.5	-91.00	-6,397.1	1,358.7	890.1	762.2		127.93	6.958
18,900.0	11,772.0	19,016.0	11,787.5	70.1	61.3	-91.00	-6,497.1	1,359.4	890.1	760.5		129.65	6.866
19,000.0	11,772.0	19,116.0	11,787.5	71.1	62.1	-91.00	-6,597.1	1,360.0	890.1	758.7		131.38	6.775
19,100.0	11,772.0	19,216.0	11,787.5	72.0	62.9	-91.00	-6,697.1	1,360.6	890.1	757.0		133.10	6.688
19,200.0	11,772.0	19,316.0	11,787.5	72.9	63.7	-91.00	-6,797.1	1,361.2	890.1	755.3		134.83	6.602
19,300.0	11,772.0	19,416.0	11,787.5	73.8	64.5	-91.00	-6,897.1	1,361.9	890.1	753.6		136.56	6.518
19,400.0	11,772.0	19,516.0	11,787.5	74.8	65.4	-91.00	-6,997.1	1,362.5	890.1	751.8		138.29	6.437
19,402.7	11,772.0	19,518.7	11,787.5	74.8	65.4	-91.00	-6,999.7	1,362.5	890.1	751.8		138.34	6.435
19,486.4	11,772.0	19,602.3	11,787.5	75.6	66.1	-91.00	-7,083.3	1,363.0	890.1	750.3		139.79	6.368

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	1.1	0.0	3.0	3.0	89.64	0.4	60.0	60.0					
100.0	100.0	101.1	100.0	3.1	3.1	89.64	0.4	60.0	60.0	53.4	6.62	9.060		
200.0	200.0	201.1	200.0	3.3	3.3	89.64	0.4	60.0	60.0	52.9	7.07	8.483		
300.0	300.0	301.1	300.0	3.6	3.6	89.64	0.4	60.0	60.0	52.5	7.50	8.001		
400.0	400.0	401.1	400.0	3.8	3.8	89.64	0.4	60.0	60.0	52.1	7.90	7.592		
500.0	500.0	501.1	500.0	4.0	4.0	89.64	0.4	60.0	60.0	51.7	8.29	7.237		
600.0	600.0	601.1	600.0	4.1	4.1	89.64	0.4	60.0	60.0	51.3	8.66	6.927		
700.0	700.0	701.1	700.0	4.3	4.3	89.64	0.4	60.0	60.0	51.0	9.02	6.651		
800.0	800.0	801.1	800.0	4.5	4.5	89.64	0.4	60.0	60.0	50.6	9.37	6.405		
900.0	900.0	901.1	900.0	4.7	4.7	89.64	0.4	60.0	60.0	50.3	9.70	6.183		
1,000.0	1,000.0	1,001.1	1,000.0	4.8	4.8	89.64	0.4	60.0	60.0	50.0	10.03	5.981		
1,100.0	1,100.0	1,101.1	1,100.0	5.0	5.0	89.64	0.4	60.0	60.0	49.6	10.35	5.796		
1,200.0	1,200.0	1,201.1	1,200.0	5.2	5.2	89.64	0.4	60.0	60.0	49.3	10.66	5.627		
1,300.0	1,300.0	1,301.1	1,300.0	5.3	5.3	89.64	0.4	60.0	60.0	49.0	10.97	5.470		
1,400.0	1,400.0	1,401.1	1,400.0	5.5	5.5	89.64	0.4	60.0	60.0	48.7	11.27	5.325		
1,500.0	1,500.0	1,501.1	1,500.0	5.6	5.6	89.64	0.4	60.0	60.0	48.4	11.56	5.190		
1,600.0	1,600.0	1,601.1	1,600.0	5.8	5.8	89.64	0.4	60.0	60.0	48.2	11.85	5.064		
1,700.0	1,700.0	1,701.1	1,700.0	5.9	5.9	89.64	0.4	60.0	60.0	47.9	12.13	4.946		
1,800.0	1,800.0	1,801.1	1,800.0	6.0	6.0	89.64	0.4	60.0	60.0	47.6	12.41	4.835		
1,900.0	1,900.0	1,901.1	1,900.0	6.2	6.2	89.64	0.4	60.0	60.0	47.3	12.68	4.730		
1,966.3	1,966.3	1,967.4	1,966.3	6.3	6.3	89.64	0.4	60.0	60.0	47.1	12.86	4.664 CC		
2,000.0	2,000.0	2,001.1	2,000.0	6.3	6.3	89.64	0.4	60.0	60.0	47.0	12.95	4.632		
2,100.0	2,100.0	2,100.8	2,099.7	6.5	6.5	90.88	-0.9	60.2	60.2	47.0	13.20	4.563		
2,200.0	2,200.0	2,200.3	2,199.1	6.7	6.6	62.71	-4.8	60.9	60.3	46.8	13.44	4.485		
2,228.5	2,228.5	2,228.6	2,227.4	6.7	6.7	65.11	-6.4	61.2	60.3	46.8	13.51	4.461 ES		
2,300.0	2,299.8	2,299.1	2,297.7	6.9	6.8	72.94	-11.1	62.0	60.7	47.0	13.67	4.439 SF		
2,400.0	2,399.5	2,397.1	2,395.4	7.1	6.8	86.46	-18.9	64.0	64.2	50.3	13.86	4.631		
2,500.0	2,498.7	2,495.3	2,493.2	7.4	7.0	98.26	-24.8	68.4	71.9	57.8	14.17	5.079		
2,600.0	2,597.5	2,593.7	2,591.4	7.6	7.2	107.37	-28.6	75.4	83.2	68.6	14.56	5.711		
2,700.0	2,695.6	2,692.5	2,689.7	7.9	7.4	114.03	-30.0	85.0	96.9	81.9	15.00	6.464		
2,800.0	2,793.1	2,791.6	2,788.1	8.2	7.6	118.79	-29.3	97.2	112.6	97.2	15.41	7.305		
2,873.2	2,863.8	2,864.3	2,860.0	8.4	7.7	121.37	-27.3	107.7	124.9	109.3	15.67	7.976		
2,900.0	2,889.7	2,891.1	2,886.3	8.5	7.7	122.20	-26.3	111.9	129.6	113.8	15.75	8.230		
3,000.0	2,986.1	2,991.1	2,984.7	8.8	7.9	124.00	-21.0	129.4	146.3	130.2	16.10	9.091		
3,100.0	3,082.4	3,091.7	3,083.0	9.1	8.2	124.26	-13.3	149.5	162.0	145.6	16.43	9.861		
3,200.0	3,178.8	3,192.0	3,180.2	9.4	8.4	123.43	-3.5	172.0	176.5	159.8	16.71	10.565		
3,300.0	3,275.2	3,290.9	3,275.9	9.7	8.6	122.50	6.7	194.9	190.8	173.8	17.04	11.199		
3,400.0	3,371.6	3,389.9	3,371.6	10.1	8.9	121.69	17.0	217.7	205.2	187.8	17.39	11.799		
3,500.0	3,468.0	3,488.8	3,467.3	10.4	9.2	120.99	27.2	240.5	219.6	201.8	17.75	12.369		
3,600.0	3,564.3	3,587.7	3,563.0	10.8	9.5	120.37	37.5	263.4	234.0	215.9	18.13	12.909		
3,700.0	3,660.7	3,686.6	3,658.7	11.2	9.8	119.83	47.7	286.2	248.4	229.9	18.51	13.421		
3,800.0	3,757.1	3,785.6	3,754.4	11.6	10.2	119.34	57.9	309.0	262.9	244.0	18.91	13.904		
3,900.0	3,853.5	3,884.5	3,850.1	12.0	10.5	118.91	68.2	331.9	277.3	258.0	19.31	14.364		
4,000.0	3,949.9	3,983.4	3,945.8	12.4	10.9	118.52	78.4	354.7	291.8	272.1	19.72	14.799		
4,100.0	4,046.2	4,082.3	4,041.6	12.8	11.2	118.16	88.7	377.6	306.3	286.2	20.14	15.210		
4,200.0	4,142.6	4,181.3	4,137.3	13.2	11.6	117.84	98.9	400.4	320.8	300.3	20.57	15.600		
4,300.0	4,239.0	4,280.2	4,233.0	13.7	12.0	117.55	109.2	423.2	335.4	314.4	21.00	15.969		
4,400.0	4,335.4	4,379.1	4,328.7	14.1	12.4	117.28	119.4	446.1	349.9	328.4	21.44	16.319		
4,500.0	4,431.8	4,478.0	4,424.4	14.5	12.8	117.03	129.6	468.9	364.4	342.5	21.89	16.650		
4,600.0	4,528.1	4,577.0	4,520.1	15.0	13.2	116.80	139.9	491.7	379.0	356.6	22.34	16.965		
4,700.0	4,624.5	4,675.9	4,615.8	15.4	13.6	116.59	150.1	514.6	393.5	370.7	22.79	17.263		

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,720.9	4,774.8	4,711.5	15.9	14.0	116.39	160.4	537.4	408.1	384.8	23.26	17.546	
4,900.0	4,817.3	4,873.7	4,807.2	16.3	14.4	116.21	170.6	560.3	422.6	398.9	23.72	17.815	
4,957.2	4,872.4	4,930.3	4,861.9	16.6	14.7	116.11	176.5	573.3	430.9	407.0	23.97	17.976	
5,000.0	4,913.7	4,972.7	4,902.9	16.7	14.8	116.07	180.9	583.1	437.1	412.9	24.16	18.094	
5,100.0	5,010.5	5,071.7	4,998.7	17.2	15.3	115.85	191.1	606.0	451.0	426.3	24.62	18.321	
5,200.0	5,107.7	5,170.7	5,094.5	17.6	15.7	115.45	201.4	628.8	464.1	439.0	25.06	18.521	
5,300.0	5,205.3	5,269.8	5,190.4	18.1	16.1	114.88	211.6	651.7	476.5	451.1	25.49	18.699	
5,400.0	5,303.3	5,368.8	5,286.2	18.5	16.6	114.15	221.9	674.6	488.3	462.4	25.90	18.856	
5,500.0	5,401.6	5,467.9	5,382.0	19.0	17.0	113.27	232.1	697.4	499.6	473.3	26.30	18.995	
5,600.0	5,500.2	5,566.8	5,477.7	19.4	17.5	112.26	242.4	720.3	510.2	483.6	26.69	19.118	
5,700.0	5,599.1	5,665.6	5,573.3	19.8	17.9	111.11	252.6	743.1	520.5	493.4	27.07	19.227	
5,800.0	5,698.3	5,764.3	5,668.8	20.2	18.3	109.83	262.8	765.9	530.4	503.0	27.45	19.322	
5,900.0	5,797.6	5,862.9	5,764.2	20.6	18.8	108.43	273.0	788.6	540.1	512.2	27.83	19.403	
6,000.0	5,897.2	5,961.2	5,859.3	21.0	19.2	106.91	283.2	811.3	549.6	521.3	28.22	19.471	
6,100.0	5,996.8	6,059.4	5,954.2	21.3	19.7	105.29	293.4	834.0	559.0	530.4	28.63	19.524	
6,200.0	6,096.6	6,157.2	6,048.9	21.7	20.1	103.56	303.5	856.6	568.6	539.5	29.07	19.561	
6,300.0	6,196.5	6,254.8	6,143.4	22.0	20.6	101.74	313.6	879.1	578.4	548.8	29.53	19.582	
6,400.0	6,296.5	6,352.1	6,237.5	22.3	21.0	99.83	323.7	901.5	588.5	558.4	30.05	19.586	
6,500.0	6,396.5	6,449.0	6,331.2	22.5	21.5	97.84	333.7	923.9	599.1	568.5	30.61	19.571	
6,503.5	6,400.0	6,452.4	6,334.5	22.5	21.5	131.00	334.1	924.7	599.5	568.8	30.63	19.570	
6,600.0	6,496.5	6,545.8	6,424.9	22.5	21.9	128.97	343.7	946.3	610.4	579.2	31.23	19.547	
6,700.0	6,596.5	6,642.5	6,518.5	22.6	22.4	126.95	353.7	968.6	622.5	590.6	31.90	19.516	
6,800.0	6,696.5	6,739.3	6,612.1	22.6	22.9	125.00	363.8	990.9	635.5	602.8	32.61	19.485	
6,900.0	6,796.5	6,836.0	6,705.7	22.7	23.3	123.12	373.8	1,013.3	649.1	615.7	33.36	19.456	
7,000.0	6,896.5	6,932.8	6,799.3	22.7	23.8	121.33	383.8	1,035.6	663.4	629.3	34.14	19.432	
7,100.0	6,996.5	7,029.5	6,892.8	22.8	24.2	119.60	393.8	1,057.9	678.4	643.5	34.94	19.415	
7,200.0	7,096.5	7,126.3	6,986.4	22.8	24.7	117.95	403.8	1,080.3	694.0	658.2	35.76	19.406	
7,300.0	7,196.5	7,223.0	7,080.0	22.9	25.1	116.37	413.8	1,102.6	710.1	673.5	36.59	19.405	
7,400.0	7,296.5	7,319.8	7,173.6	22.9	25.6	114.86	423.9	1,124.9	726.8	689.3	37.43	19.414	
7,500.0	7,396.5	7,416.5	7,267.2	23.0	26.1	113.41	433.9	1,147.3	743.9	705.6	38.28	19.433	
7,600.0	7,496.5	7,513.3	7,360.8	23.0	26.5	112.03	443.9	1,169.6	761.5	722.4	39.13	19.460	
7,700.0	7,596.5	7,610.0	7,454.4	23.1	27.0	110.71	453.9	1,191.9	779.5	739.6	39.98	19.497	
7,800.0	7,696.5	7,706.7	7,548.0	23.1	27.4	109.45	463.9	1,214.3	798.0	757.1	40.83	19.542	
7,900.0	7,796.5	7,803.5	7,641.6	23.2	27.9	108.24	473.9	1,236.6	816.7	775.1	41.68	19.595	
8,000.0	7,896.5	7,900.2	7,735.2	23.2	28.4	107.09	484.0	1,258.9	835.9	793.3	42.53	19.656	
8,100.0	7,996.5	7,997.0	7,828.8	23.3	28.8	105.99	494.0	1,281.3	855.3	812.0	43.37	19.723	
8,200.0	8,096.5	8,093.7	7,922.4	23.3	29.3	104.93	504.0	1,303.6	875.1	830.9	44.20	19.797	
8,300.0	8,196.5	8,190.5	8,016.0	23.4	29.8	103.93	514.0	1,325.9	895.1	850.1	45.03	19.877	
8,400.0	8,296.5	8,287.2	8,109.6	23.4	30.2	102.96	524.0	1,348.3	915.4	869.5	45.86	19.961	
8,500.0	8,396.5	8,384.0	8,203.2	23.5	30.7	102.04	534.0	1,370.6	935.9	889.2	46.68	20.051	
8,600.0	8,496.5	8,480.7	8,296.8	23.5	31.2	101.15	544.1	1,392.9	956.7	909.2	47.49	20.144	
8,700.0	8,596.5	8,577.5	8,390.4	23.6	31.6	100.30	554.1	1,415.3	977.7	929.4	48.30	20.241	
8,800.0	8,696.5	8,674.2	8,484.0	23.6	32.1	99.49	564.1	1,437.6	998.8	949.7	49.11	20.341	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	1.3	0.0	3.0	3.0	89.64	0.5	80.0	80.0					
100.0	100.0	101.3	100.0	3.1	3.1	89.64	0.5	80.0	80.0	73.4	6.62	12.080		
200.0	200.0	201.3	200.0	3.3	3.3	89.64	0.5	80.0	80.0	72.9	7.07	11.310		
300.0	300.0	301.3	300.0	3.6	3.6	89.64	0.5	80.0	80.0	72.5	7.50	10.668		
400.0	400.0	401.3	400.0	3.8	3.8	89.64	0.5	80.0	80.0	72.1	7.90	10.122		
500.0	500.0	501.3	500.0	4.0	4.0	89.64	0.5	80.0	80.0	71.7	8.29	9.650		
600.0	600.0	601.3	600.0	4.1	4.1	89.64	0.5	80.0	80.0	71.3	8.66	9.236		
700.0	700.0	701.3	700.0	4.3	4.3	89.64	0.5	80.0	80.0	71.0	9.02	8.868		
800.0	800.0	801.3	800.0	4.5	4.5	89.64	0.5	80.0	80.0	70.6	9.37	8.540		
900.0	900.0	901.3	900.0	4.7	4.7	89.64	0.5	80.0	80.0	70.3	9.70	8.243		
1,000.0	1,000.0	1,001.3	1,000.0	4.8	4.8	89.64	0.5	80.0	80.0	70.0	10.03	7.974		
1,100.0	1,100.0	1,101.3	1,100.0	5.0	5.0	89.64	0.5	80.0	80.0	69.6	10.35	7.728		
1,200.0	1,200.0	1,201.3	1,200.0	5.2	5.2	89.64	0.5	80.0	80.0	69.3	10.66	7.502		
1,300.0	1,300.0	1,301.3	1,300.0	5.3	5.3	89.64	0.5	80.0	80.0	69.0	10.97	7.293		
1,400.0	1,400.0	1,401.3	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	1,501.3	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	1,601.3	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	1,701.3	1,700.0	5.9	5.9	89.64	0.5	80.0	80.0	67.9	12.13	6.594		
1,800.0	1,800.0	1,801.3	1,800.0	6.0	6.0	89.64	0.5	80.0	80.0	67.6	12.41	6.446		
1,900.0	1,900.0	1,901.3	1,900.0	6.2	6.2	89.64	0.5	80.0	80.0	67.3	12.68	6.307		
1,966.2	1,966.2	1,967.5	1,966.2	6.3	6.3	89.64	0.5	80.0	80.0	67.1	12.86	6.219		
2,000.0	2,000.0	2,001.3	2,000.0	6.3	6.3	89.64	0.5	80.0	80.0	67.0	12.96	6.175		
2,100.0	2,100.0	2,100.0	2,098.7	6.5	6.5	88.50	2.1	80.7	80.7	67.5	13.23	6.101		
2,200.0	2,200.0	2,198.9	2,197.4	6.7	6.8	52.96	6.9	82.7	82.0	68.4	13.53	6.056		
2,300.0	2,299.8	2,297.5	2,295.6	6.9	7.0	50.52	14.7	86.0	82.8	68.9	13.84	5.980		
2,400.0	2,399.5	2,396.0	2,393.4	7.1	7.2	47.92	25.7	90.6	83.2	69.0	14.17	5.872		
2,500.0	2,498.7	2,494.3	2,490.6	7.4	7.5	45.12	39.7	96.6	83.3	68.8	14.55	5.727		
2,600.0	2,597.5	2,594.0	2,588.7	7.6	7.8	42.77	55.8	103.4	82.4	67.4	14.94	5.514		
2,700.0	2,695.6	2,694.0	2,687.1	7.9	8.0	42.02	72.0	110.3	78.9	63.6	15.34	5.145		
2,800.0	2,793.1	2,793.8	2,785.3	8.2	8.3	43.03	88.2	117.1	72.9	57.2	15.73	4.637		
2,873.2	2,863.8	2,866.6	2,857.1	8.4	8.5	45.22	100.0	122.1	67.0	51.0	15.93	4.203		
2,900.0	2,889.7	2,893.3	2,883.4	8.5	8.5	46.30	104.3	124.0	64.6	48.6	15.99	4.039		
3,000.0	2,986.1	2,992.8	2,981.3	8.8	8.8	51.15	120.5	130.8	55.9	39.7	16.21	3.448		
3,100.0	3,082.4	3,092.3	3,079.2	9.1	9.1	57.71	136.6	137.6	47.7	31.4	16.34	2.923 Normal Operations		
3,200.0	3,178.8	3,191.8	3,177.2	9.4	9.4	66.77	152.7	144.4	40.5	24.1	16.37	2.473 Caution - Monitor Closely		
3,300.0	3,275.2	3,291.3	3,275.1	9.7	9.8	79.29	168.9	151.3	34.6	18.2	16.40	2.112 Caution - Monitor Closely		
3,400.0	3,371.6	3,390.8	3,373.1	10.1	10.1	95.69	185.0	158.1	31.0	14.2	16.83	1.843 Caution - Monitor Closely		
3,467.3	3,436.4	3,457.7	3,439.0	10.3	10.3	108.23	195.9	162.7	30.3	12.7	17.61	1.719 Caution - Monitor Closely, CC		
3,500.0	3,468.0	3,490.3	3,471.0	10.4	10.5	114.40	201.1	164.9	30.4	12.3	18.12	1.680 Caution - Monitor Closely, ES		
3,600.0	3,564.3	3,589.8	3,568.9	10.8	10.8	131.91	217.3	171.8	33.1	13.2	19.93	1.660 Caution - Monitor Closely, SF		
3,700.0	3,660.7	3,689.3	3,666.9	11.2	11.2	145.79	233.4	178.6	38.3	16.7	21.59	1.772 Caution - Monitor Closely		
3,800.0	3,757.1	3,788.8	3,764.8	11.6	11.5	155.94	249.5	185.4	45.1	22.2	22.91	1.969 Caution - Monitor Closely		
3,900.0	3,853.5	3,888.3	3,862.7	12.0	11.9	163.26	265.7	192.2	53.0	29.0	23.99	2.209 Caution - Monitor Closely		
4,000.0	3,949.9	3,987.8	3,960.7	12.4	12.3	168.63	281.8	199.1	61.5	36.6	24.92	2.469 Caution - Monitor Closely		
4,100.0	4,046.2	4,087.3	4,058.6	12.8	12.7	172.67	297.9	205.9	70.5	44.7	25.78	2.733 Normal Operations		
4,200.0	4,142.6	4,186.7	4,156.6	13.2	13.1	175.79	314.1	212.7	79.6	53.0	26.60	2.994 Normal Operations		
4,300.0	4,239.0	4,286.2	4,254.5	13.7	13.5	178.26	330.2	219.5	89.0	61.6	27.40	3.249		
4,400.0	4,335.4	4,385.7	4,352.4	14.1	13.9	-179.75	346.3	226.4	98.5	70.3	28.20	3.495		
4,500.0	4,431.8	4,485.2	4,450.4	14.5	14.3	-178.10	362.4	233.2	108.2	79.2	28.99	3.731		
4,600.0	4,528.1	4,584.7	4,548.3	15.0	14.7	-176.73	378.6	240.0	117.8	88.1	29.79	3.956		
4,700.0	4,624.5	4,684.2	4,646.3	15.4	15.1	-175.56	394.7	246.9	127.6	97.0	30.58	4.172		

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,800.0	4,720.9	4,783.7	4,744.2	15.9	15.5	-174.56	410.8	253.7	137.4	106.0	31.38	4.377		
4,900.0	4,817.3	4,883.2	4,842.1	16.3	15.9	-173.70	427.0	260.5	147.2	115.0	32.19	4.573		
4,957.2	4,872.4	4,940.1	4,898.1	16.6	16.1	-173.25	436.2	264.4	152.8	120.2	32.64	4.683		
5,000.0	4,913.7	4,982.7	4,940.1	16.7	16.3	-172.94	443.1	267.3	156.9	123.9	32.97	4.758		
5,100.0	5,010.5	5,082.3	5,038.2	17.2	16.7	-172.20	459.3	274.2	165.2	131.4	33.77	4.891		
5,200.0	5,107.7	5,182.1	5,136.4	17.6	17.1	-171.45	475.4	281.0	171.8	137.2	34.56	4.969		
5,300.0	5,205.3	5,281.9	5,234.7	18.1	17.6	-170.67	491.6	287.9	176.6	141.3	35.34	4.999		
5,400.0	5,303.3	5,381.9	5,333.0	18.5	18.0	-169.83	507.8	294.7	179.9	143.8	36.09	4.983		
5,500.0	5,401.6	5,481.8	5,431.4	19.0	18.4	-168.90	524.0	301.6	181.4	144.6	36.82	4.926		
5,600.0	5,500.2	5,581.8	5,529.8	19.4	18.8	-167.88	540.2	308.5	181.3	143.7	37.52	4.831		
5,700.0	5,599.1	5,681.7	5,628.1	19.8	19.3	-166.73	556.4	315.3	179.5	141.3	38.18	4.701		
5,800.0	5,698.3	5,781.5	5,726.4	20.2	19.7	-165.41	572.6	322.2	176.1	137.3	38.78	4.540		
5,900.0	5,797.6	5,881.3	5,824.6	20.6	20.1	-163.87	588.8	329.0	171.1	131.8	39.32	4.352		
6,000.0	5,897.2	5,980.9	5,922.7	21.0	20.6	-162.05	604.9	335.9	164.6	124.9	39.76	4.141		
6,100.0	5,996.8	6,080.4	6,020.7	21.3	21.0	-159.87	621.1	342.7	156.7	116.6	40.08	3.910		
6,200.0	6,096.6	6,179.8	6,118.4	21.7	21.4	-157.19	637.2	349.5	147.4	107.2	40.21	3.665		
6,300.0	6,196.5	6,278.9	6,216.0	22.0	21.9	-153.84	653.3	356.3	136.8	96.8	40.08	3.414		
6,400.0	6,296.5	6,377.7	6,313.3	22.3	22.3	-149.55	669.3	363.1	125.3	85.8	39.56	3.168		
6,500.0	6,396.5	6,476.3	6,410.4	22.5	22.7	-143.93	685.3	369.8	113.3	74.9	38.39	2.950 Normal Operations		
6,503.5	6,400.0	6,479.8	6,413.8	22.5	22.7	-110.48	685.8	370.1	112.8	74.5	38.34	2.943 Normal Operations		
6,600.0	6,496.5	6,574.8	6,507.3	22.5	23.2	-103.58	701.2	376.6	101.8	65.4	36.43	2.794 Normal Operations		
6,700.0	6,596.5	6,673.2	6,604.2	22.6	23.6	-94.87	717.2	383.4	92.3	58.5	33.79	2.732 Normal Operations		
6,800.0	6,696.5	6,771.6	6,701.1	22.6	24.0	-84.52	733.1	390.1	85.4	54.7	30.74	2.778 Normal Operations		
6,900.0	6,796.5	6,870.1	6,798.0	22.7	24.5	-72.85	749.1	396.9	81.8	53.5	28.27	2.892 Normal Operations		
6,947.6	6,844.1	6,917.0	6,844.1	22.7	24.7	-67.06	756.7	400.1	81.3	53.6	27.72	2.934 Normal Operations		
7,000.0	6,896.5	6,968.5	6,894.9	22.7	24.9	-60.69	765.1	403.6	81.9	54.1	27.78	2.947 Normal Operations		
7,100.0	6,996.5	7,067.0	6,991.8	22.8	25.3	-49.07	781.0	410.4	85.7	56.0	29.67	2.887 Normal Operations		
7,200.0	7,096.5	7,165.4	7,088.7	22.8	25.8	-38.79	797.0	417.1	92.7	59.8	32.90	2.817 Normal Operations		
7,300.0	7,196.5	7,263.8	7,185.6	22.9	26.2	-30.16	812.9	423.9	102.3	66.0	36.29	2.819 Normal Operations		
7,400.0	7,296.5	7,362.3	7,282.5	22.9	26.6	-23.11	828.9	430.6	113.8	74.5	39.30	2.897 Normal Operations		
7,500.0	7,396.5	7,460.7	7,379.4	23.0	27.1	-17.41	844.9	437.4	126.8	85.0	41.80	3.033		
7,600.0	7,496.5	7,559.1	7,476.3	23.0	27.5	-12.79	860.8	444.2	140.7	96.9	43.85	3.209		
7,700.0	7,596.5	7,659.6	7,575.3	23.1	27.9	-9.07	876.5	450.8	154.9	109.4	45.52	3.403		
7,800.0	7,696.5	7,760.9	7,675.4	23.1	28.4	-6.26	890.7	456.8	168.1	121.2	46.84	3.588		
7,900.0	7,796.5	7,862.7	7,776.3	23.2	28.8	-4.11	903.4	462.2	180.0	132.1	47.91	3.757		
8,000.0	7,896.5	7,965.0	7,877.8	23.2	29.2	-2.46	914.4	466.8	190.5	141.7	48.80	3.904		
8,100.0	7,996.5	8,067.7	7,980.0	23.3	29.6	-1.20	923.8	470.8	199.6	150.0	49.55	4.027		
8,200.0	8,096.5	8,170.7	8,082.7	23.3	30.0	-0.25	931.6	474.1	207.0	156.8	50.19	4.125		
8,300.0	8,196.5	8,274.0	8,185.8	23.4	30.4	0.45	937.6	476.7	212.9	162.2	50.72	4.197		
8,400.0	8,296.5	8,377.5	8,289.1	23.4	30.7	0.93	942.0	478.5	217.1	166.0	51.16	4.244		
8,500.0	8,396.5	8,481.1	8,392.7	23.5	31.0	1.20	944.6	479.6	219.7	168.2	51.50	4.266		
8,600.0	8,496.5	8,584.8	8,496.4	23.5	31.2	1.30	945.5	480.0	220.6	168.9	51.65	4.270		
8,700.0	8,596.5	8,684.9	8,596.5	23.6	31.3	1.30	945.5	480.0	220.6	168.8	51.75	4.262		
8,800.0	8,696.5	8,784.9	8,696.5	23.6	31.3	1.30	945.5	480.0	220.6	168.7	51.85	4.254		
8,900.0	8,796.5	8,884.9	8,796.5	23.7	31.3	1.30	945.5	480.0	220.6	168.6	51.95	4.246		
9,000.0	8,896.5	8,984.9	8,896.5	23.8	31.4	1.30	945.5	480.0	220.6	168.5	52.05	4.238		
9,100.0	8,996.5	9,084.9	8,996.5	23.8	31.4	1.30	945.5	480.0	220.6	168.4	52.14	4.230		
9,200.0	9,096.5	9,184.9	9,096.5	23.9	31.5	1.30	945.5	480.0	220.6	168.3	52.24	4.222		
9,300.0	9,196.5	9,284.9	9,196.5	23.9	31.5	1.30	945.5	480.0	220.6	168.2	52.34	4.214		
9,400.0	9,296.5	9,384.9	9,296.5	24.0	31.5	1.30	945.5	480.0	220.6	168.1	52.44	4.206		
9,500.0	9,396.5	9,484.9	9,396.5	24.0	31.6	1.30	945.5	480.0	220.6	168.0	52.54	4.198		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,600.0	9,496.5	9,584.9	9,496.5	24.1	31.6	1.30	945.5	480.0	220.6	167.9	52.64	4.190	
9,700.0	9,596.5	9,684.9	9,596.5	24.1	31.7	1.30	945.5	480.0	220.6	167.8	52.74	4.182	
9,800.0	9,696.5	9,784.9	9,696.5	24.2	31.7	1.30	945.5	480.0	220.6	167.7	52.84	4.174	
9,900.0	9,796.5	9,884.9	9,796.5	24.2	31.8	1.30	945.5	480.0	220.6	167.6	52.94	4.166	
10,000.0	9,896.5	9,984.9	9,896.5	24.3	31.8	1.30	945.5	480.0	220.6	167.5	53.04	4.159	
10,100.0	9,996.5	10,084.9	9,996.5	24.4	31.8	1.30	945.5	480.0	220.6	167.4	53.14	4.151	
10,200.0	10,096.5	10,184.9	10,096.5	24.4	31.9	1.30	945.5	480.0	220.6	167.3	53.24	4.143	
10,300.0	10,196.5	10,284.9	10,196.5	24.5	31.9	1.30	945.5	480.0	220.6	167.2	53.34	4.135	
10,400.0	10,296.5	10,384.9	10,296.5	24.5	32.0	1.30	945.5	480.0	220.6	167.1	53.44	4.127	
10,500.0	10,396.5	10,484.9	10,396.5	24.6	32.0	1.30	945.5	480.0	220.6	167.0	53.54	4.119	
10,600.0	10,496.5	10,584.9	10,496.5	24.6	32.1	1.30	945.5	480.0	220.6	166.9	53.65	4.111	
10,700.0	10,596.5	10,684.9	10,596.5	24.7	32.1	1.30	945.5	480.0	220.6	166.8	53.75	4.103	
10,800.0	10,696.5	10,784.9	10,696.5	24.7	32.1	1.30	945.5	480.0	220.6	166.7	53.85	4.096	
10,900.0	10,796.5	10,884.9	10,796.5	24.8	32.2	1.30	945.5	480.0	220.6	166.6	53.95	4.088	
11,000.0	10,896.5	10,984.9	10,896.5	24.9	32.2	1.30	945.5	480.0	220.6	166.5	54.06	4.080	
11,100.0	10,996.5	11,084.9	10,996.5	24.9	32.3	1.30	945.5	480.0	220.6	166.4	54.16	4.072	
11,200.0	11,096.5	11,184.9	11,096.5	25.0	32.3	1.30	945.5	480.0	220.6	166.3	54.27	4.064	
11,300.0	11,196.5	11,284.9	11,196.5	25.0	32.4	1.30	945.5	480.0	220.6	166.2	54.37	4.057	
11,398.0	11,294.5	11,382.9	11,294.5	25.1	32.4	1.30	945.5	480.0	220.6	166.1	54.47	4.049	
11,400.0	11,296.5	11,384.9	11,296.5	25.1	32.4	176.80	945.5	480.0	220.6	166.1	54.47	4.049	
11,425.0	11,321.5	11,409.9	11,321.5	25.0	32.4	176.80	945.5	480.0	221.3	166.9	54.45	4.064	
11,450.0	11,346.4	11,434.8	11,346.4	25.0	32.4	176.82	945.5	480.0	223.4	169.0	54.42	4.105	
11,475.0	11,371.2	11,459.5	11,371.2	24.9	32.4	176.85	945.5	480.0	226.7	172.4	54.38	4.169	
11,500.0	11,395.7	11,484.1	11,395.7	24.8	32.4	176.88	945.5	480.0	231.4	177.1	54.34	4.258	
11,525.0	11,420.0	11,508.4	11,420.0	24.7	32.5	176.92	945.5	480.0	237.3	183.0	54.30	4.370	
11,550.0	11,444.0	11,532.3	11,444.0	24.7	32.5	176.96	945.5	480.0	244.5	190.2	54.27	4.506	
11,575.0	11,467.5	11,555.8	11,467.5	24.6	32.5	177.01	945.5	480.0	252.9	198.7	54.23	4.664	
11,600.0	11,490.5	11,578.9	11,490.5	24.5	32.5	177.05	945.5	480.0	262.6	208.4	54.19	4.846	
11,625.0	11,513.0	11,601.4	11,513.0	24.4	32.5	177.10	945.5	480.0	273.4	219.3	54.16	5.049	
11,650.0	11,535.0	11,623.3	11,535.0	24.3	32.5	177.14	945.5	480.0	285.5	231.3	54.12	5.274	
11,675.0	11,556.2	11,644.6	11,556.2	24.2	32.5	177.17	945.5	480.0	298.6	244.5	54.08	5.521	
11,700.0	11,576.8	11,665.1	11,576.8	24.1	32.5	177.20	945.5	480.0	312.8	258.8	54.05	5.788	
11,725.0	11,596.5	11,684.9	11,596.5	24.0	32.5	177.22	945.5	480.0	328.1	274.1	54.02	6.074	
11,750.0	11,615.5	11,703.8	11,615.5	24.0	32.5	177.23	945.5	480.0	344.4	290.4	53.98	6.380	
11,775.0	11,633.5	11,721.9	11,633.5	23.9	32.6	177.23	945.5	480.0	361.7	307.7	53.95	6.704	
11,800.0	11,650.7	11,739.0	11,650.7	23.8	32.6	177.21	945.5	480.0	379.9	326.0	53.92	7.045	
11,825.0	11,666.8	11,755.2	11,666.8	23.7	32.6	177.18	945.5	480.0	399.0	345.1	53.90	7.402	
11,850.0	11,682.0	11,770.3	11,682.0	23.7	32.6	177.12	945.5	480.0	418.8	365.0	53.87	7.775	
11,875.0	11,696.0	11,784.4	11,696.0	23.6	32.6	177.03	945.5	480.0	439.5	385.6	53.84	8.162	
11,900.0	11,709.0	11,797.4	11,709.0	23.6	32.6	176.92	945.5	480.0	460.8	407.0	53.82	8.562	
11,925.0	11,720.8	11,809.2	11,720.8	23.5	32.6	176.76	945.5	480.0	482.9	429.1	53.80	8.975	
11,950.0	11,731.5	11,819.9	11,731.5	23.5	32.6	176.54	945.5	480.0	505.5	451.7	53.79	9.398	
11,975.0	11,741.0	11,829.3	11,741.0	23.4	32.6	176.24	945.5	480.0	528.6	474.8	53.77	9.830	
12,000.0	11,749.2	11,837.6	11,749.2	23.4	32.6	175.82	945.5	480.0	552.2	498.4	53.76	10.271	
12,025.0	11,756.2	11,844.6	11,756.2	23.4	32.6	175.20	945.5	480.0	576.2	522.4	53.75	10.719	
12,050.0	11,761.9	11,850.3	11,761.9	23.4	32.6	174.25	945.5	480.0	600.5	546.8	53.74	11.173	
12,075.0	11,766.4	11,854.8	11,766.4	23.3	32.6	172.63	945.5	480.0	625.1	571.3	53.74	11.631	
12,100.0	11,769.6	11,857.9	11,769.6	23.3	32.6	169.30	945.5	480.0	649.9	596.1	53.74	12.093	
12,125.0	11,771.4	11,859.8	11,771.4	23.3	32.6	159.23	945.5	480.0	674.8	621.1	53.75	12.555	
12,148.0	11,772.0	13,030.6	12,448.7	23.3	30.5	179.16	249.1	427.6	676.8	621.7	55.03	12.298	
12,200.0	11,772.0	13,082.6	12,448.7	23.4	30.6	179.46	197.1	427.6	676.7	621.5	55.26	12.247	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,300.0	11,772.0	13,182.5	12,448.7	23.4	30.6	179.88	97.2	428.2	676.7	621.0	55.74	12.140	
12,359.3	11,772.0	13,241.8	12,448.7	23.5	30.6	179.99	38.0	428.6	676.7	620.6	56.06	12.071	
12,390.9	11,772.0	13,273.4	12,448.7	23.5	30.6	-180.00	6.4	428.8	676.7	620.5	56.24	12.033	
12,400.0	11,772.0	13,282.5	12,448.7	23.5	30.6	-180.00	-2.8	428.8	676.7	620.4	56.29	12.022	
12,500.0	11,772.0	13,382.5	12,448.7	23.6	30.7	-180.00	-102.8	429.4	676.7	619.8	56.89	11.895	
12,600.0	11,772.0	13,482.5	12,448.7	23.7	30.7	-180.00	-202.8	430.1	676.7	619.2	57.53	11.763	
12,700.0	11,772.0	13,582.5	12,448.7	23.9	30.8	-180.00	-302.8	430.7	676.7	618.5	58.20	11.627	
12,800.0	11,772.0	13,682.5	12,448.7	24.0	30.9	-180.00	-402.8	431.3	676.7	617.8	58.90	11.488	
12,900.0	11,772.0	13,782.5	12,448.7	24.2	31.0	-180.00	-502.8	431.9	676.7	617.1	59.64	11.346	
13,000.0	11,772.0	13,882.5	12,448.7	24.5	31.1	-180.00	-602.8	432.6	676.7	616.3	60.41	11.202	
13,100.0	11,772.0	13,982.5	12,448.7	24.7	31.2	-180.00	-702.7	433.2	676.7	615.5	61.21	11.056	
13,200.0	11,772.0	14,082.5	12,448.7	25.0	31.4	-180.00	-802.7	433.8	676.7	614.7	62.03	10.909	
13,300.0	11,772.0	14,182.5	12,448.7	25.4	31.5	-180.00	-902.7	434.4	676.7	613.8	62.89	10.761	
13,400.0	11,772.0	14,282.5	12,448.7	25.8	31.7	-180.00	-1,002.7	435.1	676.7	612.9	63.77	10.612	
13,500.0	11,772.0	14,382.5	12,448.7	26.2	31.9	-180.00	-1,102.7	435.7	676.7	612.0	64.67	10.464	
13,600.0	11,772.0	14,482.5	12,448.7	26.6	32.1	-180.00	-1,202.7	436.3	676.7	611.1	65.60	10.316	
13,700.0	11,772.0	14,582.5	12,448.7	27.1	32.4	-180.00	-1,302.7	436.9	676.7	610.1	66.55	10.168	
13,800.0	11,772.0	14,682.5	12,448.7	27.7	32.7	-180.00	-1,402.7	437.6	676.7	609.2	67.53	10.021	
13,900.0	11,772.0	14,782.5	12,448.7	28.2	33.0	-180.00	-1,502.7	438.2	676.7	608.2	68.52	9.875	
14,000.0	11,772.0	14,882.5	12,448.7	28.8	33.4	-180.00	-1,602.7	438.8	676.7	607.2	69.54	9.731	
14,100.0	11,772.0	14,982.5	12,448.7	29.4	33.8	-180.00	-1,702.7	439.4	676.7	606.1	70.58	9.588	
14,200.0	11,772.0	15,082.5	12,448.7	30.1	34.2	-180.00	-1,802.7	440.1	676.7	605.1	71.63	9.447	
14,300.0	11,772.0	15,182.5	12,448.7	30.7	34.7	-180.00	-1,902.7	440.7	676.7	604.0	72.70	9.308	
14,400.0	11,772.0	15,282.5	12,448.7	31.4	35.2	-180.00	-2,002.7	441.3	676.7	602.9	73.79	9.170	
14,500.0	11,772.0	15,382.5	12,448.7	32.1	35.8	-180.00	-2,102.7	441.9	676.7	601.8	74.90	9.035	
14,600.0	11,772.0	15,482.5	12,448.7	32.9	36.3	-180.00	-2,202.7	442.6	676.7	600.7	76.02	8.902	
14,700.0	11,772.0	15,582.5	12,448.7	33.6	37.0	-180.00	-2,302.7	443.2	676.7	599.5	77.16	8.771	
14,800.0	11,772.0	15,682.5	12,448.7	34.3	37.6	-180.00	-2,402.7	443.8	676.7	598.4	78.31	8.642	
14,900.0	11,772.0	15,782.5	12,448.7	35.1	38.3	-180.00	-2,502.7	444.4	676.7	597.2	79.47	8.515	
15,000.0	11,772.0	15,882.5	12,448.7	35.9	38.9	-180.00	-2,602.7	445.1	676.7	596.1	80.65	8.391	
15,100.0	11,772.0	15,982.5	12,448.7	36.7	39.7	-180.00	-2,702.7	445.7	676.7	594.9	81.84	8.269	
15,200.0	11,772.0	16,082.5	12,448.7	37.5	40.4	-180.00	-2,802.7	446.3	676.7	593.7	83.04	8.149	
15,300.0	11,772.0	16,182.5	12,448.7	38.3	41.1	-180.00	-2,902.7	446.9	676.7	592.5	84.25	8.032	
15,400.0	11,772.0	16,282.5	12,448.7	39.1	41.9	-180.00	-3,002.7	447.5	676.7	591.2	85.47	7.917	
15,500.0	11,772.0	16,382.5	12,448.7	39.9	42.7	-180.00	-3,102.7	448.2	676.7	590.0	86.71	7.804	
15,600.0	11,772.0	16,482.5	12,448.7	40.7	43.4	-180.00	-3,202.7	448.8	676.7	588.7	87.95	7.694	
15,700.0	11,772.0	16,582.5	12,448.7	41.6	44.2	-180.00	-3,302.7	449.4	676.7	587.5	89.20	7.586	
15,800.0	11,772.0	16,682.5	12,448.7	42.4	45.0	-180.00	-3,402.7	450.0	676.7	586.2	90.47	7.480	
15,900.0	11,772.0	16,782.5	12,448.7	43.2	45.9	-180.00	-3,502.7	450.7	676.7	585.0	91.74	7.376	
16,000.0	11,772.0	16,882.5	12,448.7	44.1	46.7	-180.00	-3,602.7	451.3	676.7	583.7	93.02	7.275	
16,100.0	11,772.0	16,982.5	12,448.7	45.0	47.5	-180.00	-3,702.7	451.9	676.7	582.4	94.31	7.175	
16,200.0	11,772.0	17,082.5	12,448.7	45.8	48.3	-180.00	-3,802.7	452.5	676.7	581.1	95.60	7.078	
16,300.0	11,772.0	17,182.5	12,448.7	46.7	49.2	-180.00	-3,902.7	453.2	676.7	579.8	96.91	6.983	
16,400.0	11,772.0	17,282.5	12,448.7	47.6	50.0	-180.00	-4,002.7	453.8	676.7	578.5	98.22	6.890	
16,500.0	11,772.0	17,382.5	12,448.7	48.4	50.9	-180.00	-4,102.7	454.4	676.7	577.2	99.53	6.799	
16,600.0	11,772.0	17,482.5	12,448.7	49.3	51.8	-180.00	-4,202.7	455.0	676.7	575.8	100.86	6.709	
16,700.0	11,772.0	17,582.5	12,448.7	50.2	52.6	-180.00	-4,302.7	455.7	676.7	574.5	102.19	6.622	
16,800.0	11,772.0	17,682.5	12,448.7	51.1	53.5	-180.00	-4,402.7	456.3	676.7	573.2	103.52	6.537	
16,900.0	11,772.0	17,782.5	12,448.7	52.0	54.4	-180.00	-4,502.7	456.9	676.7	571.8	104.87	6.453	
17,000.0	11,772.0	17,882.5	12,448.7	52.8	55.2	-180.00	-4,602.7	457.5	676.7	570.5	106.21	6.371	
17,100.0	11,772.0	17,982.5	12,448.7	53.7	56.1	-180.00	-4,702.7	458.2	676.7	569.1	107.57	6.291	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - _ZIA HILLS UNIT 2832 WC 801H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,200.0	11,772.0	18,082.5	12,448.7	54.6	57.0	-180.00	-4,802.7	458.8	676.7	567.8	108.93	6.213	
17,300.0	11,772.0	18,182.5	12,448.7	55.5	57.9	-180.00	-4,902.7	459.4	676.7	566.4	110.29	6.136	
17,400.0	11,772.0	18,282.5	12,448.7	56.4	58.8	-180.00	-5,002.7	460.0	676.7	565.0	111.66	6.061	
17,500.0	11,772.0	18,382.5	12,448.7	57.3	59.7	-180.00	-5,102.7	460.7	676.7	563.7	113.03	5.987	
17,600.0	11,772.0	18,482.5	12,448.7	58.2	60.6	-180.00	-5,202.7	461.3	676.7	562.3	114.41	5.915	
17,700.0	11,772.0	18,582.5	12,448.7	59.1	61.5	-180.00	-5,302.7	461.9	676.7	560.9	115.79	5.844	
17,800.0	11,772.0	18,682.5	12,448.7	60.0	62.4	-180.00	-5,402.7	462.5	676.7	559.5	117.18	5.775	
17,900.0	11,772.0	18,782.5	12,448.7	61.0	63.3	-180.00	-5,502.7	463.2	676.7	558.1	118.57	5.707	
18,000.0	11,772.0	18,882.5	12,448.7	61.9	64.2	-180.00	-5,602.7	463.8	676.7	556.7	119.96	5.641	
18,100.0	11,772.0	18,982.5	12,448.7	62.8	65.1	-180.00	-5,702.7	464.4	676.7	555.3	121.36	5.576	
18,200.0	11,772.0	19,082.5	12,448.7	63.7	66.0	-180.00	-5,802.7	465.0	676.7	553.9	122.76	5.512	
18,300.0	11,772.0	19,182.5	12,448.7	64.6	66.9	-180.00	-5,902.6	465.7	676.7	552.5	124.16	5.450	
18,400.0	11,772.0	19,282.5	12,448.7	65.5	67.8	-180.00	-6,002.6	466.3	676.7	551.1	125.57	5.389	
18,500.0	11,772.0	19,382.5	12,448.7	66.4	68.7	-180.00	-6,102.6	466.9	676.7	549.7	126.98	5.329	
18,600.0	11,772.0	19,482.5	12,448.7	67.4	69.6	-180.00	-6,202.6	467.5	676.7	548.3	128.40	5.270	
18,700.0	11,772.0	19,582.5	12,448.7	68.3	70.5	-180.00	-6,302.6	468.2	676.7	546.9	129.81	5.213	
18,800.0	11,772.0	19,682.5	12,448.7	69.2	71.5	-180.00	-6,402.6	468.8	676.7	545.5	131.24	5.156	
18,900.0	11,772.0	19,782.5	12,448.7	70.1	72.4	-180.00	-6,502.6	469.4	676.7	544.0	132.66	5.101	
19,000.0	11,772.0	19,882.5	12,448.7	71.1	73.3	-180.00	-6,602.6	470.0	676.7	542.6	134.09	5.047	
19,100.0	11,772.0	19,982.5	12,448.7	72.0	74.2	-180.00	-6,702.6	470.6	676.7	541.2	135.51	4.994	
19,200.0	11,772.0	20,082.5	12,448.7	72.9	75.1	-180.00	-6,802.6	471.3	676.7	539.8	136.95	4.941	
19,300.0	11,772.0	20,182.5	12,448.7	73.8	76.1	-180.00	-6,902.6	471.9	676.7	538.3	138.38	4.890	
19,400.0	11,772.0	20,282.5	12,448.7	74.8	77.0	-180.00	-7,002.6	472.5	676.7	536.9	139.82	4.840	
19,483.6	11,772.0	20,366.1	12,448.7	75.5	77.8	-180.00	-7,086.2	473.0	676.7	535.7	141.02	4.799	
19,486.4	11,772.0	20,368.8	12,448.7	75.6	77.8	-180.00	-7,088.9	473.1	676.7	535.6	141.05	4.797	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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)			
8,700.0	8,596.5	13,659.0	9,283.6	23.6	81.8	-86.46	769.4	-242.4	994.3	893.3	100.97	9.847	
8,800.0	8,696.5	13,662.7	9,283.7	23.6	81.8	-86.75	765.7	-242.4	928.0	823.3	104.70	8.864	
8,900.0	8,796.5	13,666.7	9,283.9	23.7	81.9	-87.07	761.7	-242.5	868.2	759.7	108.50	8.002	
9,000.0	8,896.5	13,671.0	9,284.1	23.8	82.0	-87.42	757.4	-242.6	816.2	704.1	112.14	7.278	
9,100.0	8,996.5	13,675.7	9,284.3	23.8	82.0	-87.79	752.7	-242.7	773.8	658.5	115.31	6.711	
9,200.0	9,096.5	13,680.8	9,284.5	23.9	82.1	-88.20	747.5	-242.8	742.4	624.8	117.57	6.315	
9,300.0	9,196.5	13,685.6	9,284.7	23.9	82.2	-88.58	742.8	-242.9	723.5	605.1	118.50	6.106	
9,388.4	9,284.9	13,689.6	9,284.9	24.0	82.2	-88.90	738.8	-243.0	718.1	600.1	117.99	6.086 CC, ES, SF	
9,400.0	9,296.5	13,690.1	9,284.9	24.0	82.3	-88.94	738.3	-243.0	718.2	600.4	117.83	6.096	
9,500.0	9,396.5	13,694.5	9,285.1	24.0	82.3	-89.29	733.9	-243.1	726.7	611.2	115.55	6.289	
9,600.0	9,496.5	13,698.6	9,285.3	24.1	82.4	-89.62	729.8	-243.2	748.6	636.7	111.94	6.688	
9,700.0	9,596.5	13,702.6	9,285.5	24.1	82.5	-89.93	725.8	-243.3	782.7	675.3	107.46	7.284	
9,800.0	9,696.5	13,706.4	9,285.6	24.2	82.5	-90.23	722.1	-243.3	827.5	724.9	102.60	8.066	
9,900.0	9,796.5	13,710.0	9,285.8	24.2	82.6	-90.52	718.5	-243.4	881.5	783.7	97.78	9.015	
10,000.0	9,896.5	13,713.4	9,285.9	24.3	82.6	-90.80	715.0	-243.5	942.9	849.7	93.28	10.109	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W0CN FEDERAL COM 001H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 104-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor
11,100.0	10,996.5	16,495.3	11,806.5	24.9	81.5	85.28	772.3	1,048.6	993.7	901.0	92.69	10.720
11,200.0	11,096.5	16,496.4	11,806.5	25.0	81.5	85.40	771.2	1,048.7	914.0	818.4	95.54	9.566
11,300.0	11,196.5	16,497.7	11,806.6	25.0	81.5	85.52	769.9	1,048.7	838.7	739.8	98.84	8.485
11,398.0	11,294.5	16,499.1	11,806.6	25.1	81.5	85.66	768.6	1,048.8	770.3	667.8	102.48	7.517
11,400.0	11,296.5	16,499.1	11,806.6	25.1	81.5	-99.05	768.5	1,048.8	769.0	666.4	102.56	7.498
11,425.0	11,321.5	16,500.0	11,806.6	25.0	81.5	-101.49	767.6	1,048.9	752.7	649.2	103.55	7.269
11,450.0	11,346.4	16,501.9	11,806.6	25.0	81.6	-103.63	765.8	1,049.0	737.2	632.6	104.57	7.050
11,475.0	11,371.2	16,504.7	11,806.7	24.9	81.6	-105.49	762.9	1,049.1	722.4	616.8	105.61	6.840
11,500.0	11,395.7	16,508.6	11,806.8	24.8	81.7	-107.06	759.0	1,049.4	708.4	601.8	106.68	6.641
11,525.0	11,420.0	16,524.0	11,807.3	24.7	81.9	-107.42	743.7	1,050.3	695.5	587.4	108.10	6.434
11,550.0	11,444.0	16,524.0	11,807.3	24.7	81.9	-109.01	743.7	1,050.3	683.3	574.4	108.97	6.271
11,575.0	11,467.5	16,528.4	11,807.5	24.6	82.0	-110.03	739.3	1,050.5	672.3	562.3	109.95	6.114
11,600.0	11,490.5	16,540.9	11,807.9	24.5	82.2	-110.22	726.8	1,051.3	662.2	551.1	111.16	5.957
11,625.0	11,513.0	16,554.4	11,808.2	24.4	82.4	-110.21	713.3	1,052.1	653.2	540.8	112.35	5.814
11,650.0	11,535.0	16,568.9	11,808.5	24.3	82.6	-110.01	698.8	1,052.9	645.2	531.7	113.51	5.684
11,675.0	11,556.2	16,584.3	11,808.7	24.2	82.9	-109.64	683.4	1,053.9	638.2	523.5	114.64	5.567
11,700.0	11,576.8	16,600.6	11,808.7	24.1	83.2	-109.11	667.2	1,054.8	632.1	516.4	115.73	5.462
11,725.0	11,596.5	16,617.6	11,808.6	24.0	83.4	-108.45	650.2	1,055.8	627.1	510.3	116.76	5.371
11,750.0	11,615.5	16,634.4	11,808.4	24.0	83.7	-107.73	633.5	1,056.8	623.0	505.3	117.71	5.293
11,775.0	11,633.5	16,652.0	11,808.1	23.9	84.0	-106.89	615.9	1,057.8	619.9	501.3	118.60	5.227
11,800.0	11,650.7	16,670.5	11,807.8	23.8	84.3	-105.95	597.5	1,058.9	617.6	498.1	119.44	5.170
11,825.0	11,666.8	16,689.8	11,807.4	23.7	84.6	-104.92	578.2	1,060.0	616.1	495.8	120.24	5.124
11,850.0	11,682.0	16,709.9	11,807.0	23.7	84.9	-103.83	558.1	1,061.1	615.3	494.4	120.99	5.086
11,861.8	11,688.7	16,717.0	11,806.8	23.6	85.0	-103.44	551.0	1,061.5	615.2	494.0	121.25	5.074 CC
11,875.0	11,696.0	16,723.8	11,806.8	23.6	85.1	-103.07	544.3	1,062.0	615.4	493.9	121.47	5.066 ES
11,900.0	11,709.0	16,741.5	11,807.1	23.6	85.4	-102.12	526.6	1,063.1	616.2	494.2	122.00	5.051
11,925.0	11,720.8	16,763.5	11,807.6	23.5	85.8	-101.00	504.6	1,064.5	617.6	495.0	122.64	5.036
11,950.0	11,731.5	16,786.1	11,808.1	23.5	86.1	-99.89	482.1	1,066.0	619.5	496.2	123.25	5.026 SF
11,975.0	11,741.0	16,790.0	11,808.2	23.4	86.2	-99.45	478.2	1,066.2	622.0	498.9	123.14	5.051
12,000.0	11,749.2	16,790.0	11,808.2	23.4	86.2	-99.00	478.2	1,066.2	625.7	503.0	122.74	5.098
12,025.0	11,756.2	16,790.0	11,808.2	23.4	86.2	-98.41	478.2	1,066.2	630.6	508.4	122.17	5.162
12,050.0	11,761.9	16,790.0	11,808.2	23.4	86.2	-97.67	478.2	1,066.2	636.6	515.2	121.45	5.242
12,075.0	11,766.4	16,790.0	11,808.2	23.3	86.2	-96.79	478.2	1,066.2	643.7	523.1	120.59	5.338
12,100.0	11,769.6	16,790.0	11,808.2	23.3	86.2	-95.77	478.2	1,066.2	651.9	532.3	119.60	5.450
12,125.0	11,771.4	16,790.0	11,808.2	23.3	86.2	-94.60	478.2	1,066.2	661.0	542.5	118.50	5.578
12,148.0	11,772.0	16,790.0	11,808.2	23.3	86.2	-93.40	478.2	1,066.2	670.1	552.7	117.40	5.708
12,200.0	11,772.0	16,790.0	11,808.2	23.4	86.2	-93.37	478.2	1,066.2	692.9	578.2	114.67	6.042
12,300.0	11,772.0	16,790.0	11,808.2	23.4	86.2	-93.31	478.2	1,066.2	742.8	633.9	108.81	6.826
12,390.9	11,772.0	16,790.0	11,808.2	23.5	86.2	-93.24	478.2	1,066.2	793.9	690.8	103.14	7.697
12,400.0	11,772.0	16,790.0	11,808.2	23.5	86.2	-93.24	478.2	1,066.2	799.3	696.7	102.57	7.793
12,500.0	11,772.0	16,790.0	11,808.2	23.6	86.2	-93.24	478.2	1,066.2	862.7	766.3	96.44	8.946
12,600.0	11,772.0	16,790.0	11,808.2	23.7	86.2	-93.24	478.2	1,066.2	932.6	841.8	90.75	10.276

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - RED HILLS WEST 21 W1DM FEDERAL COM 002H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,200.0	11,096.5	16,801.5	12,063.7	25.0	85.9	-86.97	735.0	286.0	985.6	903.5	82.02	12.017	
11,300.0	11,196.5	16,802.0	12,063.7	25.0	85.9	-87.13	734.5	286.0	887.6	804.5	83.18	10.672	
11,398.0	11,294.5	16,802.6	12,063.7	25.1	85.9	-87.28	734.0	285.9	792.2	707.6	84.58	9.366	
11,400.0	11,296.5	16,802.6	12,063.7	25.1	85.9	89.19	734.0	285.9	790.2	705.6	84.61	9.340	
11,425.0	11,321.5	16,803.5	12,063.7	25.0	86.0	100.76	733.1	285.9	766.0	681.0	85.03	9.009	
11,450.0	11,346.4	16,805.7	12,063.7	25.0	86.0	110.82	730.9	285.9	741.8	656.4	85.48	8.679	
11,475.0	11,371.2	16,809.1	12,063.8	24.9	86.0	119.08	727.4	285.8	717.9	631.9	85.97	8.351	
11,500.0	11,395.7	16,813.9	12,063.8	24.8	86.1	125.68	722.6	285.7	694.2	607.7	86.49	8.026	
11,525.0	11,420.0	16,820.0	12,063.8	24.7	86.2	130.88	716.6	285.5	670.8	583.7	87.05	7.706	
11,550.0	11,444.0	16,827.3	12,063.9	24.7	86.3	134.98	709.2	285.3	647.8	560.1	87.65	7.391	
11,575.0	11,467.5	16,830.0	12,063.9	24.6	86.4	138.91	706.5	285.2	625.2	537.2	88.06	7.100	
11,600.0	11,490.5	16,830.0	12,063.9	24.5	86.4	142.36	706.5	285.2	603.4	515.0	88.32	6.831	
11,625.0	11,513.0	16,830.0	12,063.9	24.4	86.4	145.15	706.5	285.2	582.3	493.7	88.52	6.578	
11,650.0	11,535.0	16,830.0	12,063.9	24.3	86.4	147.42	706.5	285.2	562.1	473.5	88.63	6.342	
11,675.0	11,556.2	16,830.0	12,063.9	24.2	86.4	149.27	706.5	285.2	543.1	454.5	88.63	6.127	
11,700.0	11,576.8	16,830.0	12,063.9	24.1	86.4	150.78	706.5	285.2	525.4	436.9	88.49	5.937	
11,725.0	11,596.5	16,830.0	12,063.9	24.0	86.4	152.01	706.5	285.2	509.1	420.9	88.17	5.774	
11,750.0	11,615.5	16,830.0	12,063.9	24.0	86.4	153.01	706.5	285.2	494.5	406.9	87.65	5.642	
11,775.0	11,633.5	16,830.0	12,063.9	23.9	86.4	153.80	706.5	285.2	481.8	394.9	86.88	5.545	
11,800.0	11,650.7	16,830.0	12,063.9	23.8	86.4	154.42	706.5	285.2	471.1	385.2	85.83	5.489	
11,825.0	11,666.8	16,830.0	12,063.9	23.7	86.4	154.89	706.5	285.2	462.6	378.1	84.48	5.476 SF	
11,850.0	11,682.0	16,830.0	12,063.9	23.7	86.4	155.21	706.5	285.2	456.5	373.7	82.83	5.511	
11,875.0	11,696.0	16,830.0	12,063.9	23.6	86.4	155.39	706.5	285.2	452.9	372.0	80.88	5.600 ES	
11,898.0	11,708.0	16,830.0	12,063.9	23.6	86.4	155.45	706.5	285.2	451.8	372.9	78.84	5.731 CC	
11,900.0	11,709.0	16,830.0	12,063.9	23.6	86.4	155.45	706.5	285.2	451.8	373.1	78.65	5.744	
11,925.0	11,720.8	16,830.0	12,063.9	23.5	86.4	155.37	706.5	285.2	453.3	377.1	76.19	5.949	
11,950.0	11,731.5	16,830.0	12,063.9	23.5	86.4	155.17	706.5	285.2	457.3	383.7	73.57	6.216	
11,975.0	11,741.0	16,830.0	12,063.9	23.4	86.4	154.82	706.5	285.2	463.8	393.0	70.84	6.547	
12,000.0	11,749.2	16,830.0	12,063.9	23.4	86.4	154.34	706.5	285.2	472.6	404.5	68.09	6.941	
12,025.0	11,756.2	16,830.0	12,063.9	23.4	86.4	153.69	706.5	285.2	483.7	418.3	65.37	7.399	
12,050.0	11,761.9	16,830.0	12,063.9	23.4	86.4	152.86	706.5	285.2	496.7	434.0	62.75	7.915	
12,075.0	11,766.4	16,830.0	12,063.9	23.3	86.4	151.83	706.5	285.2	511.6	451.3	60.28	8.487	
12,100.0	11,769.6	16,830.0	12,063.9	23.3	86.4	150.56	706.5	285.2	528.1	470.1	57.98	9.109	
12,125.0	11,771.4	16,830.0	12,063.9	23.3	86.4	149.00	706.5	285.2	546.1	490.2	55.87	9.774	
12,148.0	11,772.0	16,830.0	12,063.9	23.3	86.4	147.25	706.5	285.2	563.7	509.6	54.12	10.416	
12,200.0	11,772.0	16,830.0	12,063.9	23.4	86.4	148.46	706.5	285.2	605.7	555.0	50.71	11.945	
12,300.0	11,772.0	16,830.0	12,063.9	23.4	86.4	151.29	706.5	285.2	690.9	645.0	45.89	15.055	
12,390.9	11,772.0	16,830.0	12,063.9	23.5	86.4	154.51	706.5	285.2	772.1	729.1	43.01	17.953	
12,400.0	11,772.0	16,830.0	12,063.9	23.5	86.4	154.51	706.5	285.2	780.4	737.6	42.77	18.243	
12,500.0	11,772.0	16,830.0	12,063.9	23.6	86.4	154.51	706.5	285.2	872.3	831.7	40.69	21.441	
12,600.0	11,772.0	16,830.0	12,063.9	23.7	86.4	154.51	706.5	285.2	965.9	926.7	39.24	24.619	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	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)				
11,300.0	11,196.5	16,564.2	11,756.0	25.0	82.1	-91.45	705.6	-292.0	949.6	847.5	102.04	9.306		
11,398.0	11,294.5	16,562.0	11,756.0	25.1	82.0	-91.28	707.8	-292.0	895.3	789.8	105.56	8.481		
11,400.0	11,296.5	16,561.9	11,756.0	25.1	82.0	84.36	707.9	-292.0	894.3	788.7	105.64	8.466		
11,425.0	11,321.5	16,562.1	11,756.0	25.0	82.0	86.10	707.7	-292.0	881.7	775.1	106.56	8.274		
11,450.0	11,346.4	16,563.6	11,756.0	25.0	82.1	87.66	706.2	-292.0	869.5	762.0	107.49	8.089		
11,475.0	11,371.2	16,566.4	11,755.9	24.9	82.1	89.04	703.4	-292.0	857.8	749.3	108.44	7.910		
11,500.0	11,395.7	16,570.0	11,755.8	24.8	82.2	90.27	699.8	-292.0	846.6	737.2	109.39	7.740		
11,525.0	11,420.0	16,570.0	11,755.8	24.7	82.2	91.67	699.8	-292.0	836.1	725.9	110.23	7.585		
11,550.0	11,444.0	16,570.0	11,755.8	24.7	82.2	92.96	699.8	-292.0	826.2	715.2	111.04	7.441		
11,575.0	11,467.5	16,570.0	11,755.8	24.6	82.2	94.14	699.8	-292.0	817.0	705.2	111.80	7.308		
11,600.0	11,490.5	16,570.0	11,755.8	24.5	82.2	95.21	699.8	-292.0	808.6	696.1	112.51	7.187		
11,625.0	11,513.0	16,570.0	11,755.8	24.4	82.2	96.16	699.8	-292.0	801.0	687.8	113.16	7.078		
11,650.0	11,535.0	16,570.0	11,755.8	24.3	82.2	97.00	699.8	-292.0	794.2	680.5	113.74	6.983		
11,675.0	11,556.2	16,570.0	11,755.8	24.2	82.2	97.72	699.8	-292.0	788.3	674.1	114.24	6.901		
11,700.0	11,576.8	16,570.0	11,755.8	24.1	82.2	98.32	699.8	-292.0	783.4	668.7	114.65	6.833		
11,725.0	11,596.5	16,570.0	11,755.8	24.0	82.2	98.80	699.8	-292.0	779.4	664.4	114.96	6.779		
11,750.0	11,615.5	16,570.0	11,755.8	24.0	82.2	99.16	699.8	-292.0	776.4	661.2	115.18	6.741		
11,775.0	11,633.5	16,570.0	11,755.8	23.9	82.2	99.40	699.8	-292.0	774.4	659.1	115.28	6.718		
11,800.0	11,650.7	16,570.0	11,755.8	23.8	82.2	99.52	699.8	-292.0	773.4	658.1	115.26	6.710 SF		
11,811.6	11,658.3	16,570.0	11,755.8	23.8	82.2	99.53	699.8	-292.0	773.3	658.1	115.22	6.712 CC, ES		
11,825.0	11,666.8	16,570.0	11,755.8	23.7	82.2	99.51	699.8	-292.0	773.4	658.3	115.13	6.718		
11,850.0	11,682.0	16,570.0	11,755.8	23.7	82.2	99.39	699.8	-292.0	774.5	659.6	114.88	6.742		
11,875.0	11,696.0	16,570.0	11,755.8	23.6	82.2	99.14	699.8	-292.0	776.6	662.1	114.50	6.782		
11,900.0	11,709.0	16,570.0	11,755.8	23.6	82.2	98.77	699.8	-292.0	779.6	665.6	114.01	6.838		
11,925.0	11,720.8	16,570.0	11,755.8	23.5	82.2	98.28	699.8	-292.0	783.7	670.3	113.40	6.911		
11,950.0	11,731.5	16,570.0	11,755.8	23.5	82.2	97.67	699.8	-292.0	788.7	676.0	112.68	7.000		
11,975.0	11,741.0	16,570.0	11,755.8	23.4	82.2	96.95	699.8	-292.0	794.7	682.8	111.86	7.104		
12,000.0	11,749.2	16,570.0	11,755.8	23.4	82.2	96.10	699.8	-292.0	801.5	690.6	110.94	7.225		
12,025.0	11,756.2	16,570.0	11,755.8	23.4	82.2	95.14	699.8	-292.0	809.2	699.2	109.92	7.361		
12,050.0	11,761.9	16,570.0	11,755.8	23.4	82.2	94.06	699.8	-292.0	817.7	708.8	108.83	7.513		
12,075.0	11,766.4	16,570.0	11,755.8	23.3	82.2	92.87	699.8	-292.0	826.9	719.2	107.67	7.680		
12,100.0	11,769.6	16,570.0	11,755.8	23.3	82.2	91.57	699.8	-292.0	836.8	730.4	106.44	7.862		
12,125.0	11,771.4	16,570.0	11,755.8	23.3	82.2	90.17	699.8	-292.0	847.4	742.3	105.16	8.059		
12,148.0	11,772.0	16,570.0	11,755.8	23.3	82.2	88.79	699.8	-292.0	857.7	753.7	103.94	8.252		
12,200.0	11,772.0	16,570.0	11,755.8	23.4	82.2	88.78	699.8	-292.0	883.1	782.0	101.13	8.732		
12,300.0	11,772.0	16,570.0	11,755.8	23.4	82.2	88.75	699.8	-292.0	940.2	844.4	95.80	9.814		

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD													Offset Well Error: 0.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	7.1	0.4	3.0	0.0	80.74	147.8	906.6	918.5				
100.0	100.0	113.4	106.7	3.1	0.1	80.68	148.6	906.0	918.1	913.0	5.15	178.145	
200.0	200.0	218.8	212.0	3.3	0.4	80.57	150.3	904.6	917.1	911.6	5.50	166.626	
300.0	300.0	320.0	313.2	3.6	0.7	80.45	151.8	902.9	915.6	909.8	5.86	156.280	
400.0	400.0	411.8	405.0	3.8	0.9	80.32	153.8	901.6	914.6	908.4	6.21	147.297	
444.1	444.1	450.9	444.1	3.8	1.0	80.24	155.0	901.3	914.5	908.1	6.36	143.855	
500.0	500.0	500.0	493.2	4.0	1.1	80.14	156.7	901.1	914.7	908.1	6.55	139.596	
600.0	600.0	597.2	590.2	4.1	1.4	79.87	161.0	901.2	915.6	908.7	6.90	132.668	
700.0	700.0	687.5	680.4	4.3	1.6	79.56	166.2	901.8	917.1	909.9	7.24	126.634	
800.0	800.0	780.5	773.2	4.5	1.8	79.17	172.7	902.9	919.7	912.1	7.59	121.229	
900.0	900.0	867.5	859.8	4.7	2.1	78.76	179.8	904.7	923.3	915.5	7.77	118.842	
1,000.0	1,000.0	961.9	953.8	4.8	2.4	78.27	188.5	907.5	928.1	919.9	8.15	113.916	
1,100.0	1,100.0	1,062.3	1,053.7	5.0	2.8	77.75	197.7	910.7	933.1	924.5	8.55	109.179	
1,200.0	1,200.0	1,161.1	1,152.1	5.2	3.1	77.29	206.1	913.9	938.1	929.1	8.94	104.925	
1,300.0	1,300.0	1,253.8	1,244.4	5.3	3.5	76.90	213.4	917.4	943.5	934.2	9.32	101.236	
1,400.0	1,400.0	1,350.1	1,340.4	5.5	3.8	76.52	220.9	921.7	949.6	939.9	9.71	97.757	
1,500.0	1,500.0	1,465.8	1,455.8	5.6	4.3	76.15	228.4	926.5	955.2	945.0	10.20	93.636	
1,600.0	1,600.0	1,571.0	1,560.8	5.8	4.7	75.96	232.7	930.2	959.6	949.0	10.61	90.404	
1,700.0	1,700.0	1,676.4	1,666.1	5.9	5.0	75.80	236.2	933.5	963.5	952.5	11.03	87.340	
1,800.0	1,800.0	1,785.7	1,775.3	6.0	5.4	75.64	239.6	936.0	966.5	955.0	11.44	84.445	
1,900.0	1,900.0	1,895.2	1,884.7	6.2	5.7	75.51	242.3	937.7	968.6	956.8	11.84	81.781	
2,000.0	2,000.0	2,002.6	1,992.2	6.3	5.8	75.56	241.8	939.1	969.7	957.5	12.20	79.507	
2,100.0	2,100.0	2,108.0	2,097.5	6.5	5.9	75.66	240.3	940.0	970.3	957.8	12.49	77.680	
2,200.0	2,200.0	2,211.6	2,201.1	6.7	6.0	42.54	239.9	940.2	969.0	956.3	12.78	75.798	
2,300.0	2,299.8	2,316.7	2,306.3	6.9	6.1	42.80	240.1	939.7	964.8	951.8	13.02	74.101	
2,400.0	2,399.5	2,415.1	2,404.6	7.1	6.1	43.24	240.0	939.1	957.8	944.6	13.23	72.396	
2,500.0	2,498.7	2,516.1	2,505.6	7.4	6.1	43.90	239.8	938.6	948.3	934.9	13.45	70.488	
2,600.0	2,597.5	2,617.7	2,607.2	7.6	6.2	44.74	239.7	937.6	936.2	922.5	13.69	68.387	
2,700.0	2,695.6	2,715.8	2,705.3	7.9	6.3	45.76	239.8	936.5	921.5	907.6	13.94	66.109	
2,800.0	2,793.1	2,810.5	2,800.0	8.2	6.3	46.96	240.0	935.6	904.9	890.7	14.21	63.698	
2,873.2	2,863.8	2,881.6	2,871.1	8.4	6.4	47.99	240.3	935.0	891.5	877.1	14.37	62.023	
2,900.0	2,889.7	2,907.0	2,896.5	8.5	6.5	48.32	240.5	934.8	886.4	872.0	14.42	61.453	
3,000.0	2,986.1	3,000.4	2,989.8	8.8	6.6	49.53	240.9	934.1	867.9	853.2	14.70	59.047	
3,100.0	3,082.4	3,091.2	3,080.7	9.1	6.8	50.75	241.4	933.9	850.3	835.4	14.99	56.724	
3,200.0	3,178.8	3,184.3	3,173.8	9.4	6.9	52.09	241.5	934.3	833.7	818.4	15.30	54.482	
3,300.0	3,275.2	3,277.8	3,267.3	9.7	7.0	53.47	241.7	935.0	818.0	802.4	15.62	52.361	
3,400.0	3,371.6	3,371.5	3,360.9	10.1	7.2	54.91	241.9	936.1	803.3	787.3	15.94	50.380	
3,500.0	3,468.0	3,471.3	3,460.8	10.4	7.3	56.48	242.4	937.3	789.0	772.8	16.26	48.513	
3,600.0	3,564.3	3,574.1	3,563.6	10.8	7.5	58.15	242.9	937.7	774.7	758.2	16.56	46.779	
3,700.0	3,660.7	3,670.6	3,660.0	11.2	7.7	59.79	243.2	937.7	760.6	743.7	16.83	45.183	
3,800.0	3,757.1	3,763.1	3,752.6	11.6	7.8	61.43	243.3	938.1	747.5	730.4	17.11	43.699	
3,900.0	3,853.5	3,858.0	3,847.5	12.0	7.9	63.19	243.0	938.7	735.5	718.1	17.38	42.328	
4,000.0	3,949.9	3,954.5	3,943.9	12.4	8.0	65.04	242.6	939.5	724.4	706.7	17.64	41.074	
4,100.0	4,046.2	4,049.0	4,038.5	12.8	8.0	66.93	241.9	940.2	714.1	696.2	17.88	39.935	
4,200.0	4,142.6	4,139.7	4,129.2	13.2	8.1	68.83	240.6	941.4	705.2	687.1	18.12	38.926	
4,300.0	4,239.0	4,234.2	4,223.6	13.7	8.2	70.86	239.0	943.1	698.0	679.7	18.35	38.038	
4,400.0	4,335.4	4,335.6	4,325.0	14.1	8.2	73.07	237.5	944.7	691.4	672.8	18.58	37.208	
4,500.0	4,431.8	4,434.2	4,423.6	14.5	8.3	75.24	236.5	945.7	685.2	666.4	18.81	36.425	
4,600.0	4,528.1	4,530.2	4,519.5	15.0	8.4	77.37	235.6	946.6	679.9	660.9	19.03	35.733	
4,700.0	4,624.5	4,619.7	4,609.1	15.4	8.5	79.37	234.8	947.7	675.9	656.8	19.16	35.283	
4,786.9	4,708.2	4,690.6	4,679.9	15.8	8.6	80.93	234.1	949.9	674.7	655.3	19.39	34.793 CC	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,720.9	4,700.9	4,690.2	15.9	8.6	81.15	234.1	950.4	674.7	655.3	19.43	34.724 ES	
4,900.0	4,817.3	4,781.3	4,770.5	16.3	8.8	82.81	233.6	955.4	676.9	657.2	19.73	34.304	
4,957.2	4,872.4	4,833.7	4,822.7	16.6	8.9	83.84	233.5	959.5	679.3	659.4	19.88	34.163	
5,000.0	4,913.7	4,873.6	4,862.4	16.7	9.0	84.62	233.4	962.9	681.4	661.4	20.00	34.078	
5,100.0	5,010.5	4,972.3	4,960.8	17.2	9.3	86.42	233.4	971.2	687.0	666.7	20.33	33.800	
5,200.0	5,107.7	5,069.6	5,057.8	17.6	9.6	88.05	233.2	979.2	693.2	672.6	20.66	33.554	
5,300.0	5,205.3	5,163.6	5,151.4	18.1	9.8	89.47	232.8	987.5	700.5	679.5	21.00	33.363	
5,400.0	5,303.3	5,264.9	5,252.4	18.5	10.1	90.84	232.4	996.2	708.1	686.7	21.35	33.158	
5,500.0	5,401.6	5,363.2	5,350.2	19.0	10.4	91.93	232.8	1,005.2	715.9	694.1	21.70	32.981	
5,600.0	5,500.2	5,463.3	5,449.9	19.4	10.7	92.83	233.7	1,014.6	723.7	701.7	22.06	32.808	
5,700.0	5,599.1	5,564.7	5,550.8	19.8	11.0	93.59	234.7	1,024.1	731.5	709.1	22.41	32.636	
5,800.0	5,698.3	5,667.6	5,653.3	20.2	11.3	94.24	235.7	1,033.0	738.7	716.0	22.76	32.450	
5,900.0	5,797.6	5,768.1	5,753.5	20.6	11.6	94.72	236.8	1,041.4	745.6	722.5	23.10	32.276	
6,000.0	5,897.2	5,868.1	5,853.1	21.0	11.9	95.07	237.7	1,049.7	752.4	728.9	23.43	32.111	
6,100.0	5,996.8	5,972.0	5,956.8	21.3	12.3	95.36	238.2	1,057.6	758.8	735.0	23.77	31.922	
6,200.0	6,096.6	6,074.6	6,059.1	21.7	12.6	95.66	237.3	1,063.5	764.4	740.3	24.10	31.721	
6,300.0	6,196.5	6,176.9	6,161.3	22.0	12.8	95.90	235.7	1,068.5	769.6	745.2	24.42	31.516	
6,400.0	6,296.5	6,286.6	6,270.9	22.3	13.1	96.08	233.8	1,072.6	773.9	749.1	24.75	31.266	
6,500.0	6,396.5	6,389.5	6,373.8	22.5	13.3	96.20	231.6	1,074.9	777.1	752.1	25.05	31.022	
6,503.5	6,400.0	6,393.1	6,377.3	22.5	13.3	129.44	231.5	1,075.0	777.2	752.1	25.06	31.013	
6,600.0	6,496.5	6,491.4	6,475.6	22.5	13.4	129.47	229.4	1,076.8	779.9	754.6	25.33	30.788	
6,700.0	6,596.5	6,593.8	6,578.0	22.6	13.6	129.51	227.3	1,078.5	782.4	756.8	25.61	30.545	
6,800.0	6,696.5	6,694.0	6,678.2	22.6	13.7	129.56	225.3	1,079.8	784.8	758.9	25.89	30.309	
6,900.0	6,796.5	6,797.5	6,781.6	22.7	13.9	129.62	223.3	1,081.2	787.0	760.8	26.17	30.070	
7,000.0	6,896.5	6,903.2	6,887.3	22.7	14.0	129.67	221.8	1,081.8	788.4	762.0	26.44	29.818	
7,100.0	6,996.5	7,004.0	6,988.1	22.8	14.1	129.73	220.4	1,082.1	789.5	762.8	26.68	29.593	
7,200.0	7,096.5	7,104.9	7,089.0	22.8	14.1	129.81	218.9	1,082.2	790.5	763.6	26.91	29.380	
7,300.0	7,196.5	7,205.1	7,189.2	22.9	14.2	129.88	217.6	1,082.3	791.4	764.3	27.14	29.161	
7,400.0	7,296.5	7,305.2	7,289.3	22.9	14.2	129.96	216.1	1,082.4	792.4	765.0	27.33	28.995	
7,500.0	7,396.5	7,406.4	7,390.4	23.0	14.3	130.06	214.5	1,082.1	793.2	765.7	27.55	28.794	
7,600.0	7,496.5	7,508.5	7,492.5	23.0	14.2	130.18	212.8	1,081.5	793.9	766.1	27.73	28.629	
7,700.0	7,596.5	7,610.1	7,594.1	23.1	14.2	130.31	211.2	1,080.7	794.3	766.4	27.89	28.481	
7,800.0	7,696.5	7,710.0	7,694.0	23.1	14.2	130.43	209.7	1,079.8	794.6	766.5	28.04	28.341	
7,900.0	7,796.5	7,809.6	7,793.6	23.2	14.2	130.57	208.1	1,078.8	794.9	766.7	28.18	28.204	
8,000.0	7,896.5	7,906.9	7,890.9	23.2	14.2	130.70	206.3	1,078.0	795.4	767.1	28.34	28.063	
8,100.0	7,996.5	8,005.7	7,989.6	23.3	14.2	130.85	204.2	1,077.3	796.3	767.7	28.53	27.914	
8,200.0	8,096.5	8,107.8	8,091.8	23.3	14.2	131.01	202.1	1,076.4	797.0	768.3	28.70	27.765	
8,300.0	8,196.5	8,209.2	8,193.0	23.4	14.2	131.18	199.9	1,075.2	797.5	768.6	28.87	27.627	
8,400.0	8,296.5	8,310.3	8,294.2	23.4	14.2	131.36	197.8	1,073.8	797.9	768.9	29.02	27.498	
8,500.0	8,396.5	8,413.5	8,397.3	23.5	14.1	131.55	195.8	1,072.2	798.0	768.8	29.15	27.375	
8,600.0	8,496.5	8,518.9	8,502.7	23.5	14.1	131.76	193.8	1,069.9	797.6	768.4	29.26	27.261	
8,700.0	8,596.5	8,624.1	8,607.8	23.6	14.0	132.05	191.6	1,066.3	796.5	767.1	29.34	27.145	
8,778.8	8,675.3	8,691.7	8,675.3	23.6	14.0	132.29	189.6	1,063.6	795.6	766.2	29.42	27.048	
8,800.0	8,696.5	8,707.7	8,691.3	23.6	14.0	132.35	188.9	1,063.0	795.7	766.3	29.44	27.029 SF	
8,900.0	8,796.5	8,758.0	8,741.4	23.7	14.0	132.61	185.3	1,061.8	799.1	769.6	29.56	27.037	
9,000.0	8,896.5	8,790.0	8,773.0	23.8	14.0	132.87	180.3	1,061.7	810.0	780.3	29.72	27.259	
9,100.0	8,996.5	8,844.0	8,825.5	23.8	14.1	133.47	167.8	1,062.7	827.7	797.7	29.96	27.623	
9,200.0	9,096.5	8,884.0	8,863.6	23.9	14.2	134.04	155.7	1,063.8	851.5	821.2	30.22	28.171	
9,300.0	9,196.5	8,948.0	8,922.7	23.9	14.3	135.22	131.1	1,064.5	880.4	849.9	30.56	28.814	
9,400.0	9,296.5	8,979.0	8,950.5	24.0	14.4	135.85	117.5	1,064.7	914.7	883.8	30.87	29.629	
9,500.0	9,396.5	9,025.0	8,990.4	24.0	14.5	136.86	94.6	1,065.6	954.5	923.3	31.24	30.551	

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 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2832 PROJECT - WILDER FEDERAL AC COM 28 3H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 100-GYD-CT-CMS, 891-r.5 MWD				Rule Assigned:									Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,600.0	9,496.5	9,064.7	9,023.4	24.1	14.6	137.81	72.6	1,066.3	999.5	967.9	31.63	31.598		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2832 WC 703H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB @ 3186.3usft
Reference Site:	ZIA HILLS UNIT 2832 PROJECT	MD Reference:	KB @ 3186.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2832 WC 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB @ 3186.3usft

Offset Depths are relative to Offset Datum

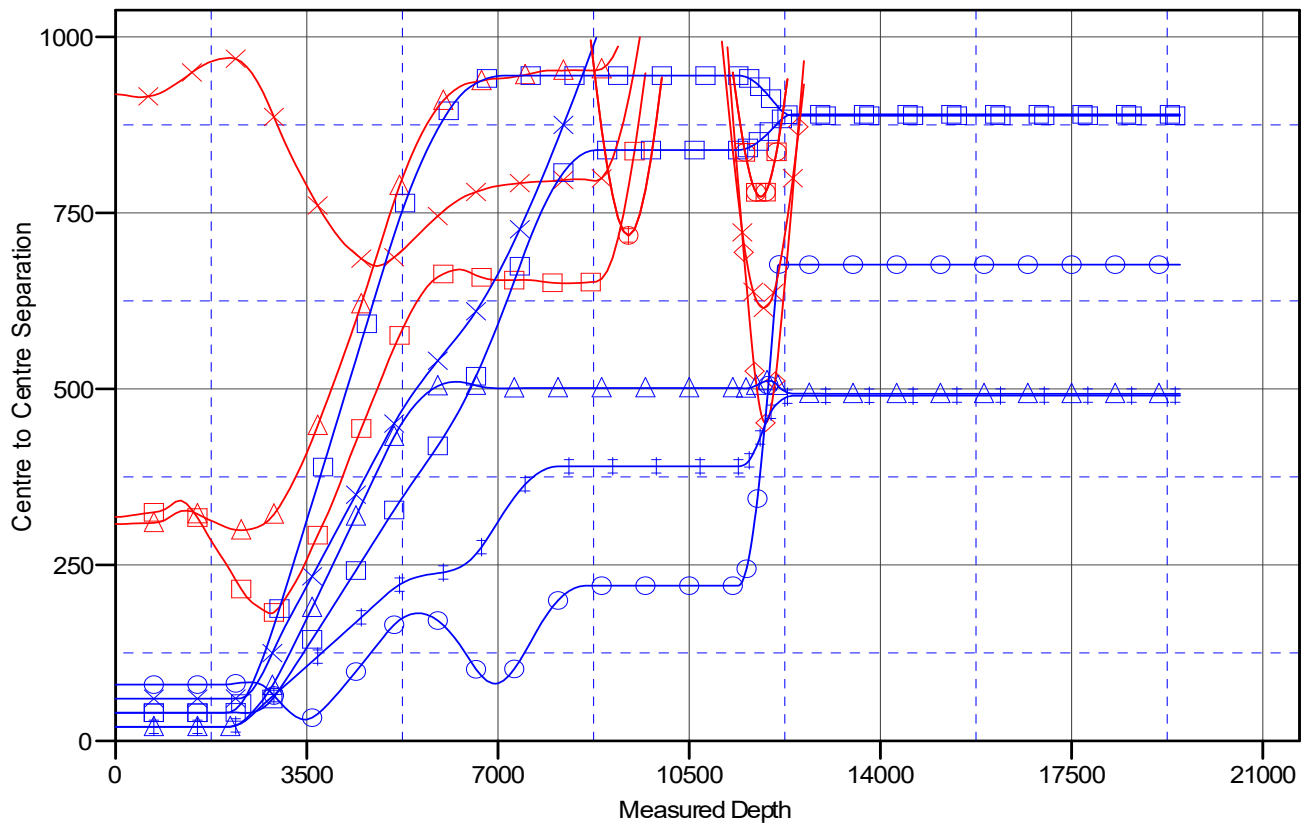
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 703H

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

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

RED HILLS WEST 21 DM FEDERAL COM #1H, OWB, AWP V0	RED HILLS WEST 21 W1DM FEDERAL COM 002H, OWB, AWP V0	RED HILLS WEST 21 W0CN FEDERAL COM 001H, OWB, AWP V0
WILDER 28 AC FEDERAL COM #8H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 701H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 704H OWB, PWP0 V0
WILDER 28 AC FEDERAL COM #4H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 801H OWB, PWP0 V0	_ZIA HILLS UNIT 2832 WC 702H OWB, PWP0 V0
RED HILLS WEST 21 W0DM FEDERAL COM #3H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 708H OWB, PWP0 V0	RED HILLS WEST 21 W1DM FEDERAL COM 003H, OWB, AWP V0
WILDER FEDERAL AC COM #2 3H, OWB, AWP V0	_ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0	RED HILLS WEST 21 DM FEDERAL COM 1H, 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
Project: ZIA HILLS UNIT AREA
Reference Site: ZIA HILLS UNIT 2832 PROJECT
Site Error: 0.0 usft
Reference Well: _ZIA HILLS UNIT 2832 WC 703H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP0

Local Co-ordinate Reference: Well _ZIA HILLS UNIT 2832 WC 703H
TVD Reference: KB @ 3186.3usft
MD Reference: KB @ 3186.3usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Reference Depths are relative to KB @ 3186.3usft

Offset Depths are relative to Offset Datum

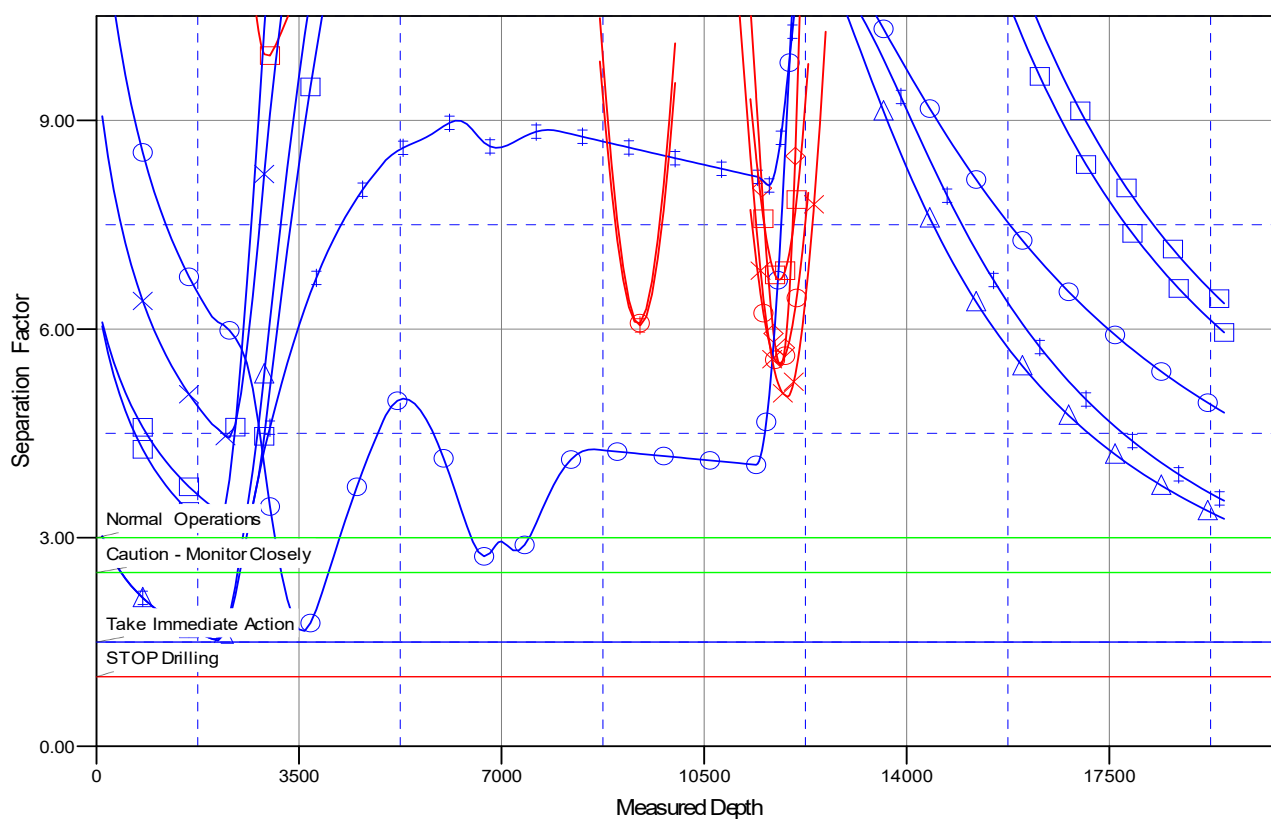
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2832 WC 703H

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

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

RED HILLS WEST 21 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 28 3H, OWB, AWP V0

RED HILLS WEST 21 W1DM FEDERAL COM 002H, OWB, AWP V0
 _ZIA HILLS UNIT 2832 WC 701H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 801H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 706H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 705H OWB, PWP0 V0

RED HILLS WEST 21 W0CN FEDERAL COM 001H, OWB, AWP V0
 _ZIA HILLS UNIT 2832 WC 704H OWB, PWP0 V0
 _ZIA HILLS UNIT 2832 WC 702H OWB, PWP0 V0
 RED HILLS WEST 21 W1DM FEDERAL COM 003H, OWB, AWP V0
 RED HILLS WEST 21 DM FEDERAL COM 1H, OWB, AWP V0

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

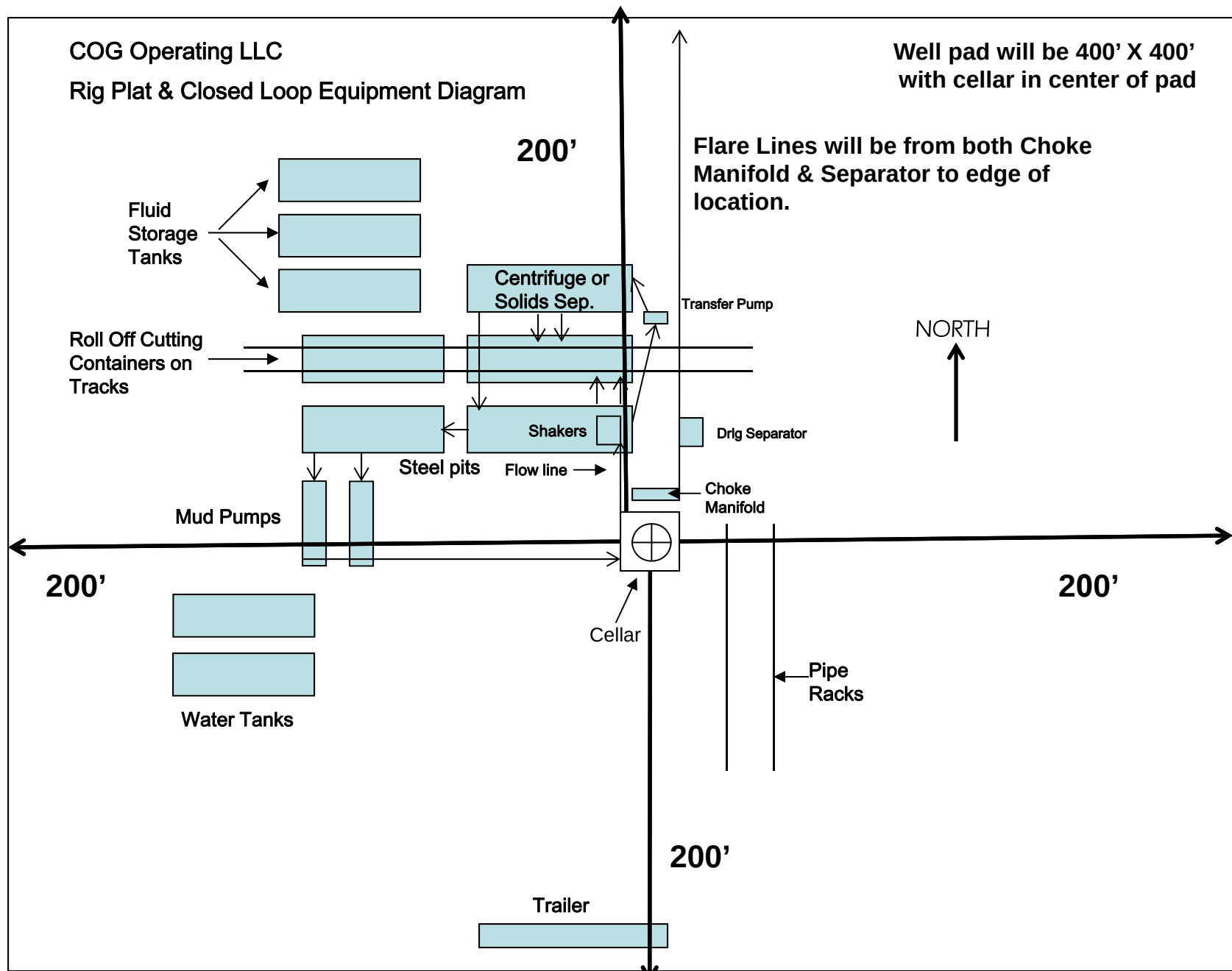


Exhibit 1

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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 01/28/2025

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

If Other, please describe: _____

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

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

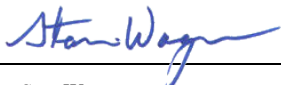
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

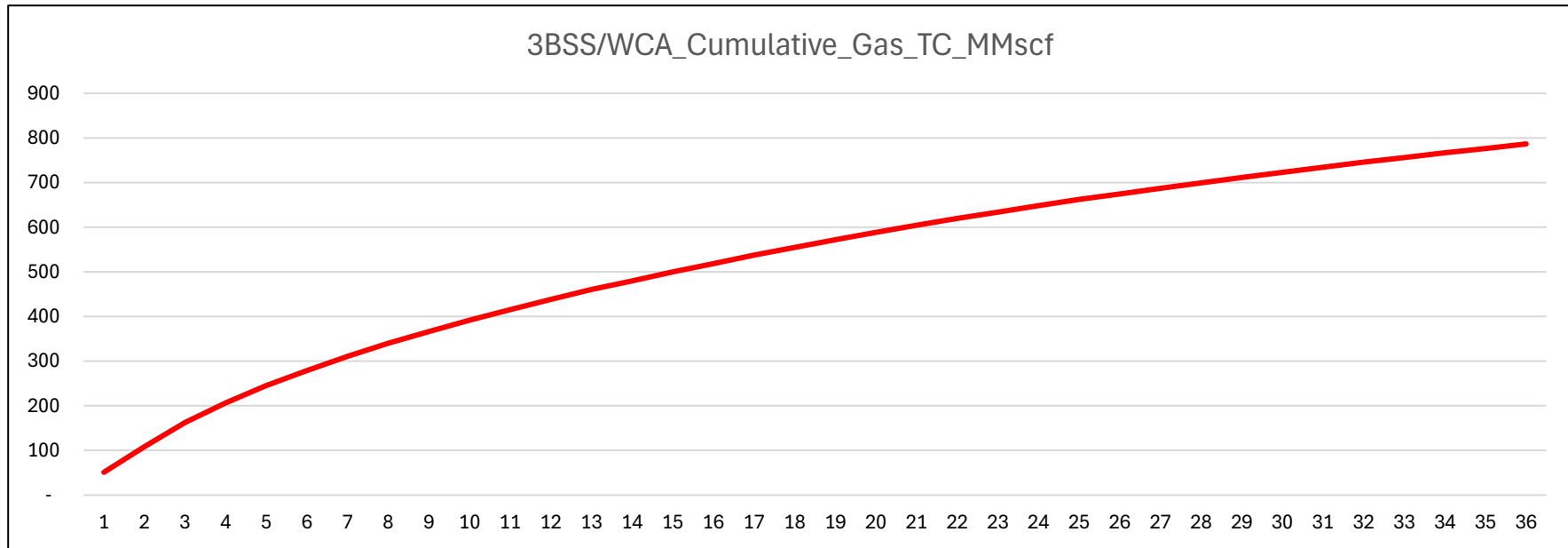
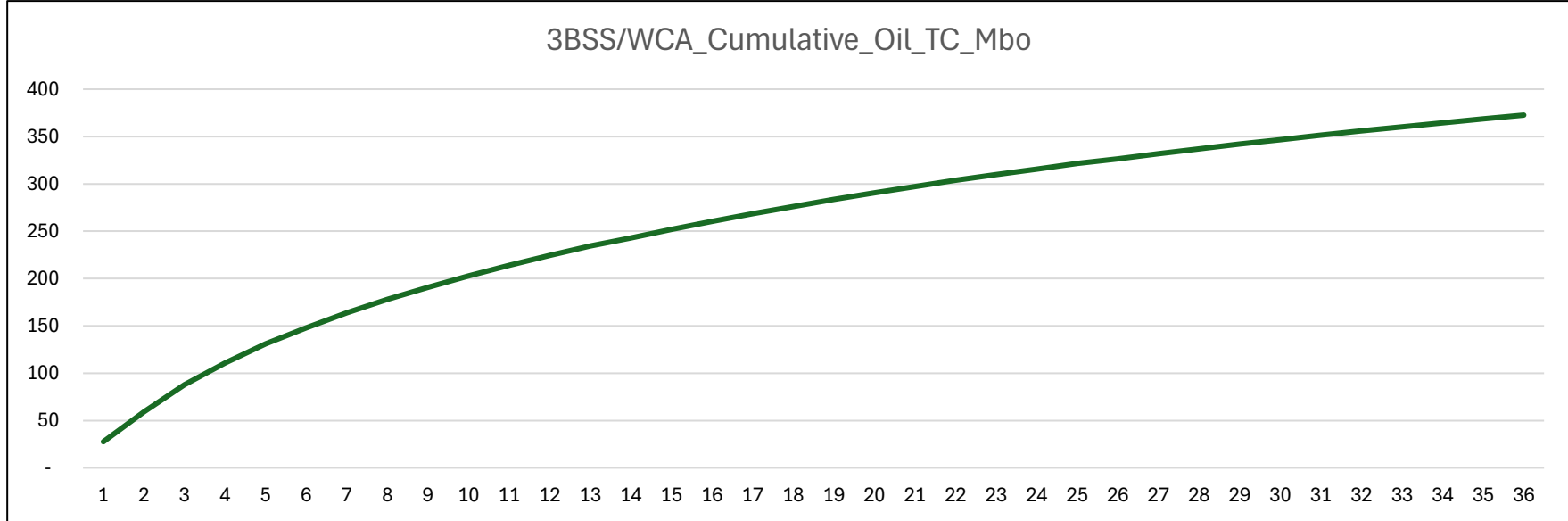
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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



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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 520243

ACKNOWLEDGMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 520243
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

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

Action 520243

CONDITIONS

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