

Well Name: ZIA HILLS UNIT 2032 WC	Well Location: T26S / R32E / SEC 20 / NWSW / 32.0280173 / -103.7031012	County or Parish/State: LEA / NM
Well Number: 753H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMLC068281B	Unit or CA Name: BONE SPRING FORMATION PA "A"	Unit or CA Number: NMNM138329B
US Well Number: 3002552540	Operator: CONOCOPHILLIPS COMPANY	

Notice of Intent

Sundry ID: 2816791

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/14/2024	Time Sundry Submitted: 10:14
Date proposed operation will begin: 10/14/2024	

Procedure Description: ConocoPhillips Company requests a change to our approved APD for this well to reflect a change from a 3-string casing design to a 4-string casing design. Change surface casing FROM: Surface: 14.75 inch hole, 10.75 inch, 45.5#, J55, BTC, 0-1350 ft. Inter: 9.875 inch hole, 7.625 inch, 29.7#, L80, TXP BTC, 0-8500 ft. 8.75 inch hole, 7.625 inch, 29.7#, P-110, W513, 8500-11132 ft. Prod: 6.75 inch hole, 5.5 inch, 23#, P-110, TXP BTC, 0-10632 ft. 6.75 inch hole, 5.5 inch, 23#, P-110, W441, 10632-21595 ft. Change Casing TO: Surface: 17.5 inch hole, 13.375 inch, 54.5#, J-55 BTC, 0-1410 ft. Intermediate: 12.25 inch hole, 9.625 inch, 40#, L-80, BTC, 0-4140 ft. 8.75 inch hole, 7.625 inch, 29.7 P-110, W513, 3940 – 11125 ft. Production: 6.75 inch hole, 5.5 inch, 23#, P-110, BTC 0-10925 ft. 6.75 inch hole, 5.5 inch, 23#, W441, 10925 – 21596 ft. Also, ConocoPhillips requests a variance to allow for break testing as attached. Detailed contingency casing plan and procedure attached.

NOI Attachments

Procedure Description

- ZIA_HILLS_UNIT_2032_WC_753H_PWP0_AC_RPT_20241014101418.pdf
- ZIA_HILLS_UNIT_2032_WC_753H_PWP0_DIR_RPT_20241014101418.pdf
- ZIA_HILLS_UNIT_2032_WC_753H_revised_drilling_procedure_10_14_24_20241014101418.pdf
- COP_BOP_Break_Testing_Documentation_6_07_23_20241014101418.pdf
- ZIA_HILLS_UNIT_2032_WC_753H_PWP0_WPLOT_20241014101418.pdf

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Conditions of Approval

Additional

ZIA_HILLS_UNIT_2032_WC_753H_COAs_20241022094720.pdf

SEC20_T26S_R32E_ZIA_HILLS_UNIT_2032_WC__Lea__CONOCOPHILLIPS_COMPANY_45587_JS_20241022094720.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STAN WAGNER **Signed on:** OCT 14, 2024 10:14 AM

Name: CONOCOPHILLIPS COMPANY

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLAND **State:** TX

Phone: (432) 253-9685

Email address: STAN.S.WAGNER@CONOCOPHILLIPS.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 10/22/2024
Signature: Chris Walls	

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

8.75 inch hole, 7.625 inch, 29.7 P-110, W513, 3940 11125 ft.

Production: 6.75 inch hole, 5.5 inch, 23#, P-110, BTC 0-10925 ft.

6.75 inch hole, 5.5 inch, 23#, W441, 10925 21596 ft.

Also, ConocoPhillips requests a variance to allow for break testing as attached.

Detailed contingency casing plan and procedure attached.

Location of Well

0. SHL: NWSW / 2615 FSL / 825 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0280173 / LONG: -103.7031012 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2620 FSL / 838 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0280313 / LONG: -103.7030591 (TVD: 11593 feet, MD: 11629 feet)

PPP: NWNW / 1 FNL / 838 FWL / TWSP: 26S / RANGE: 32E / SECTION: 29 / LAT: 32.020829 / LONG: -103.703064 (TVD: 11737 feet, MD: 14250 feet)

BHL: LOT 4 / 50 FSL / 838 FWL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.0003538 / LONG: -103.7030361 (TVD: 11737 feet, MD: 21595 feet)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2032 WC 753H
SURFACE HOLE FOOTAGE:	2615'/S & 825'/W
BOTTOM HOLE FOOTAGE:	50'/S & 838'/W
LOCATION:	Section 20 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 **1410 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. **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.
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.
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 (575-361-2822 Eddy 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 10/22/2024

SEC20-T26S-R32E_ZIA HILLS UNIT 2032 WC_Lea__CONOCOPHILLIPS COMPANY_45587_JS

ZIA HILLS UNIT 2032 WC

13 3/8		surface csg in a		17 1/2	inch hole.		Design Factors			Surface			
Segment	#/ft	Grade			Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50			J 55	BTC	11.10	1.75	0.46	1,410	4	0.80	3.38	76,845
"B"					BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,296					Tail Cmt	does not	circ to sfc.	Totals:	1,410				76,845
Comparison of Proposed to Minimum Required Cement Volumes													
Hole	Annular	1 Stage		1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx		CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
17 1/2	0.6946	1090		1805	979	84	8.80	3429	5M				1.56
Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK.													
Alt burst ok													

9 5/8		casing inside the		13 3/8		Design Factors				Int 1				
Segment	#/ft	Grade			Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	40.00			L 80	BTC	5.53	1.44	0.97	4,140	1	1.68	2.49	165,600	
"B"									0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500									Totals:		4,140			165,600
The cement volume(s) are intended to achieve a top of									0	ft from surface or a		1410	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg	
12 1/4	0.3132	1000		1594	1366	17	10.00	3429	5M				0.81	
D V Tool(s):								sum of sx		Σ CuFt		Σ%excess		
t by stage % :		#VALUE!		#VALUE!				1000	1594			17		
Class 'H' tail cmt yld > 1.20														
Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.39, b, c, d All > 0.70, OK.														
Alt Burst ok, Does not meet CFO 25% excess														

7 5/8		Liner w/top @		3940		Design Factors				Liner		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	P 110		W-513	2.53	0.9	1.13	7,510	2	1.65	1.56	223,047
"B"				0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,519								Totals:	7,510			223,047
The cement volume(s) are intended to achieve a top of						3940	ft from surface or a		200	overlap.		
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg
8 3/4	0.1005	290	782	756	3	10.00	5747	10M				0.56
Class 'C' tail cmt yld > 1.35				MASP is within 10% of 5000psig, need exrta equip?								
Keep Casing Full, Does not meet CFO 25% excess												

Tail cmt													
5 1/2		casing inside the		7 5/8		Design Factors				Prod 1			
Segment	#/ft	Grade		Coupling		Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	23.00	P 110		BTC		2.64	1.84	1.48	11,250	1	2.15	2.69	258,750
"B"	23.00	P 110		W-441		6.53	1.59	1.74	10,644	2	2.53	2.53	244,812
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,475									Totals:	21,894	503,562		
The cement volume(s) are intended to achieve a top of						11250	ft from surface or a		200	overlap.			
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt		Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE		Min Dist Hole-Cplg	
6 3/4	0.0835	1580		2226		891	150	13.50				0.43	
Class 'H' tail cmt yld > 1.20				Capitan Reef est top XXXX.				MASP is within 10% of 5000psig, need exrta equip?					

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2032 PROJECT

ZIA HILLS UNIT 2032 WC #753H

OWB

PWP0

Anticollision Report

25 January, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset 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:	Maximum centre distance of 1,000.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	1/25/2023	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Cont. rev.5
1,500.0	11,259.5	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
11,259.5	21,595.5	PWP0 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction 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						
ZIA HILLS 20 FED COM PROJECT						
CONOCO A FEDERAL #2 - OWB - AWP						Out of range
CONOCO FEDERAL #1 - OWB - AWP						Out of range
RUSSELL FEDERAL #10 - OWB - AWP						Out of range
RUSSELL FEDERAL #12 - OWB - AWP	2,552.1	2,555.8	500.4	418.7	6.128	CC
RUSSELL FEDERAL #12 - OWB - AWP	4,300.0	4,304.1	500.8	339.2	3.099	ES, SF
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	3,977.9	3,989.5	876.2	734.3	6.175	CC
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	4,400.0	4,378.0	877.8	708.0	5.170	ES, SF
ZIA HILLS UNIT 1932 PROJECT						
*ZIA HILLS UNIT 1932 WC #714H - OWB - PWP0						Out of range
*ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	2,136.6	2,139.8	197.6	185.6	16.432	CC, ES
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	2,400.0	2,397.5	205.0	192.2	15.985	SF
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	2,378.7	2,385.1	170.6	157.9	13.429	CC
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	2,400.0	2,406.1	170.6	157.9	13.371	ES
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	11,259.5	11,296.2	412.7	377.8	11.841	SF
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	11,259.5	11,263.0	110.4	80.3	3.672	CC, ES, SF
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	1,500.0	1,499.0	202.9	192.6	19.715	CC, ES
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	11,259.5	11,272.9	462.5	428.7	13.690	SF
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,500.0	1,500.0	209.4	199.2	20.516	CC, ES
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,800.0	1,782.1	221.8	210.9	20.355	SF
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	1,500.0	1,500.0	220.0	209.9	21.713	CC, ES
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	1,800.0	1,780.2	233.0	222.1	21.478	SF
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	1,500.0	1,500.0	233.9	223.8	23.216	CC, ES
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	1,800.0	1,778.4	247.2	236.4	22.876	SF
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	1,500.0	1,498.0	60.2	50.1	5.936	CC, ES
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	21,595.5	21,026.0	848.3	692.6	5.448	SF
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	1,500.0	1,499.0	30.2	20.0	2.973	CC, ES
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	21,595.5	21,409.6	458.7	302.7	2.940	SF
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	1,500.0	1,500.0	30.1	19.9	2.966	CC, ES
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	21,595.5	21,829.5	459.1	301.2	2.909	SF
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	1,500.0	1,500.0	60.4	50.2	5.951	CC, ES

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset 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 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	21,595.5	21,692.7	847.7	689.4	5.355	SF
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	1,466.3	1,467.3	90.6	80.5	8.984	CC
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	1,500.0	1,500.0	90.6	80.5	8.930	ES, SF
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	1,466.3	1,467.3	120.8	110.7	11.980	CC
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	1,500.0	1,500.0	120.8	110.7	11.906	ES, SF

TD 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 20 FED COM PROJECT						
CONOCO A FEDERAL #2 - OWB - AWP	21,595.5	4,317.0				Out of Range @TD
CONOCO FEDERAL #1 - OWB - AWP	21,595.5	4,327.0				Out of Range @TD
RUSSELL FEDERAL #10 - OWB - AWP	21,595.5	4,500.0				Out of Range @TD
RUSSELL FEDERAL #12 - OWB - AWP	21,595.5	4,335.0				Out of Range @TD
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	21,595.5	4,378.0				Out of Range @TD
ZIA HILLS UNIT 1932 PROJECT						
*ZIA HILLS UNIT 1932 WC #714H - OWB - PWP0	21,595.5	11,400.0				Out of Range @TD
*ZIA HILLS UNIT 1932 WC #764H - OWB - PWP0	21,595.5	20,763.1				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	21,595.5	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	21,595.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	21,595.5	11,275.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	21,595.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	21,595.5	11,325.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	21,595.5	11,575.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	21,595.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	21,595.5	21,026.0	848.3	692.6	5.448	SF
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	21,595.5	21,409.6	458.7	302.7	2.940	SF
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	21,595.5	21,829.5	459.1	301.2	2.909	SF
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	21,595.5	21,692.7	847.7	689.4	5.355	SF
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	21,595.5	21,894.1				Out of Range @TD
ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0	21,595.5	21,747.2				Out of Range @TD

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #12 - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 296-INC-ONLY													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)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	3.1	3.1	3.0	3.0	-99.08	-79.0	-494.5	500.8	493.9	6.89	72.661		
100.0	100.0	103.1	103.1	3.1	3.1	-99.08	-79.0	-494.5	500.8	493.7	7.15	70.060		
200.0	200.0	203.1	203.1	3.2	3.5	-99.08	-79.0	-494.5	500.8	493.2	7.63	65.657		
300.0	300.0	303.1	303.1	3.4	4.1	-99.08	-79.0	-494.5	500.8	492.5	8.33	60.095		
400.0	400.0	403.1	403.1	3.5	5.5	-99.08	-79.0	-494.5	500.8	490.8	9.99	50.143		
441.5	441.5	444.6	444.6	3.5	6.1	-99.06	-78.8	-494.5	500.8	490.0	10.78	46.452		
500.0	500.0	503.0	503.0	3.6	7.0	-99.06	-78.9	-494.5	500.8	488.8	11.97	41.833		
600.0	600.0	603.1	603.1	3.7	8.7	-99.08	-79.0	-494.5	500.8	486.7	14.16	35.379		
700.0	700.0	703.1	703.1	3.9	10.5	-99.08	-79.0	-494.5	500.8	484.2	16.59	30.182		
734.1	734.1	737.2	737.1	3.9	11.2	-99.04	-78.7	-494.5	500.8	483.3	17.44	28.712		
800.0	800.0	802.9	802.9	4.0	12.4	-99.05	-78.8	-494.5	500.8	481.7	19.10	26.219		
900.0	900.0	903.1	903.1	4.1	14.3	-99.08	-79.0	-494.5	500.8	479.1	21.74	23.040		
1,000.0	1,000.0	1,003.1	1,003.1	4.2	16.4	-99.08	-79.0	-494.5	500.8	476.2	24.60	20.361		
1,031.4	1,031.4	1,034.5	1,034.4	4.3	17.1	-99.01	-78.4	-494.5	500.7	475.2	25.50	19.638		
1,100.0	1,100.0	1,102.7	1,102.7	4.3	18.5	-99.03	-78.6	-494.5	500.8	473.3	27.47	18.228		
1,200.0	1,200.0	1,203.2	1,203.1	4.5	20.7	-99.08	-79.0	-494.5	500.8	470.5	30.33	16.512		
1,300.0	1,300.0	1,303.2	1,303.1	4.6	22.9	-99.08	-79.0	-494.5	500.8	467.4	33.42	14.986		
1,400.0	1,400.0	1,403.2	1,403.1	4.7	25.2	-99.08	-79.0	-494.5	500.8	464.3	36.52	13.715		
1,439.6	1,439.6	1,442.7	1,442.6	4.7	26.1	-98.93	-77.7	-494.5	500.6	462.9	37.74	13.263		
1,500.0	1,500.0	1,502.9	1,502.8	4.8	27.4	-98.94	-77.8	-494.5	500.6	461.0	39.62	12.637		
1,600.0	1,600.0	1,602.6	1,602.5	5.0	29.7	-99.01	-78.5	-494.5	500.7	458.2	42.54	11.772		
1,700.0	1,700.0	1,703.3	1,703.1	5.1	32.1	-99.08	-79.0	-494.5	500.8	454.9	45.96	10.898		
1,765.4	1,765.4	1,768.6	1,768.4	5.2	33.9	-99.01	-78.4	-494.5	500.7	452.3	48.41	10.344		
1,800.0	1,800.0	1,803.0	1,802.8	5.3	34.8	-99.02	-78.5	-494.5	500.7	451.0	49.70	10.076		
1,900.0	1,900.0	1,903.4	1,903.1	5.4	37.6	-99.08	-79.0	-494.5	500.8	447.2	53.60	9.343		
1,949.0	1,949.0	1,952.4	1,952.1	5.5	39.1	-98.98	-78.1	-494.5	500.7	445.0	55.66	8.996		
2,000.0	2,000.0	2,002.4	2,002.1	5.6	40.6	-99.02	-78.5	-494.5	500.7	443.0	57.75	8.670		
2,100.0	2,100.0	2,103.5	2,103.1	5.7	43.7	-99.08	-79.0	-494.5	500.8	438.8	62.06	8.070		
2,172.2	2,172.2	2,175.7	2,175.2	5.8	45.9	-98.94	-77.8	-494.5	500.6	435.5	65.15	7.684		
2,200.0	2,200.0	2,203.3	2,202.8	5.8	46.8	-98.94	-77.8	-494.5	500.6	434.3	66.34	7.547		
2,300.0	2,300.0	2,302.4	2,301.9	6.0	49.8	-99.05	-78.8	-494.5	500.8	430.2	70.59	7.094		
2,400.0	2,400.0	2,403.8	2,403.1	6.1	53.0	-99.08	-79.0	-494.5	500.8	425.8	75.01	6.677		
2,500.0	2,500.0	2,503.8	2,503.1	6.2	56.1	-99.08	-79.0	-494.5	500.8	421.4	79.39	6.309		
2,552.1	2,552.1	2,555.8	2,555.1	6.3	57.8	-98.78	-76.4	-494.5	500.4	418.7	81.67	6.128 CC		
2,600.0	2,600.0	2,603.5	2,602.7	6.3	59.3	-98.80	-76.5	-494.5	500.4	416.7	83.75	5.975		
2,700.0	2,700.0	2,702.9	2,702.1	6.5	62.4	-98.90	-77.4	-494.5	500.6	412.5	88.11	5.681		
2,800.0	2,800.0	2,804.1	2,803.1	6.6	65.6	-99.08	-79.0	-494.5	500.8	408.3	92.55	5.412		
2,900.0	2,900.0	2,904.1	2,903.1	6.7	68.8	-99.08	-79.0	-494.5	500.8	403.8	96.98	5.164		
2,953.0	2,953.0	2,957.2	2,956.1	6.8	70.4	-98.92	-77.6	-494.5	500.6	401.3	99.33	5.040		
3,000.0	3,000.0	3,003.8	3,002.7	6.8	71.9	-98.93	-77.7	-494.5	500.6	399.2	101.39	4.937		
3,100.0	3,100.0	3,103.0	3,101.9	7.0	75.1	-99.05	-78.7	-494.5	500.8	395.0	105.79	4.734		
3,200.0	3,200.0	3,204.4	3,203.1	7.1	78.6	-99.08	-79.0	-494.5	500.8	390.1	110.70	4.524		
3,244.3	3,244.3	3,248.6	3,247.3	7.1	80.2	-98.92	-77.6	-494.5	500.6	387.7	112.87	4.435		
3,300.0	3,300.0	3,303.7	3,302.3	7.2	82.1	-98.95	-77.9	-494.5	500.6	385.1	115.59	4.331		
3,400.0	3,400.0	3,404.7	3,403.1	7.3	85.6	-99.08	-79.0	-494.5	500.8	380.3	120.52	4.156		
3,500.0	3,500.0	3,504.7	3,503.1	7.4	89.1	-99.08	-79.0	-494.5	500.8	375.5	125.31	3.996		
3,549.0	3,549.0	3,553.6	3,552.0	7.5	90.8	-98.84	-76.9	-494.5	500.5	372.8	127.66	3.920		
3,600.0	3,600.0	3,604.1	3,602.5	7.5	92.5	-98.86	-77.1	-494.5	500.5	370.4	130.09	3.848		
3,700.0	3,700.0	3,703.3	3,701.6	7.7	95.9	-99.02	-78.5	-494.5	500.7	365.9	134.84	3.713		
3,800.0	3,800.0	3,805.0	3,803.1	7.8	99.2	-99.08	-79.0	-494.5	500.8	361.3	139.48	3.591		
3,900.0	3,900.0	3,905.0	3,903.1	7.9	102.5	-99.08	-79.0	-494.5	500.8	356.8	143.98	3.478		
3,936.8	3,936.8	3,941.6	3,939.7	7.9	103.6	-98.87	-77.2	-494.5	500.5	354.9	145.62	3.437		

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #12 - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 296-INC-ONLY													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,000.0	4,000.0	4,004.4	4,002.4	8.0	105.7	-98.91	-77.5	-494.5	500.6	352.1	148.44	3.372		
4,100.0	4,100.0	4,103.7	4,101.7	8.1	108.9	-99.07	-78.9	-494.5	500.8	347.9	152.90	3.275		
4,200.0	4,200.0	4,205.3	4,203.1	8.2	112.0	-99.08	-79.0	-494.5	500.8	343.5	157.31	3.184		
4,221.0	4,221.0	4,226.2	4,224.0	8.2	112.7	-98.96	-78.0	-494.5	500.7	342.4	158.22	3.164		
4,300.0	4,300.0	4,304.1	4,301.9	8.3	115.1	-99.04	-78.7	-494.5	500.8	339.2	161.60	3.099 ES, SF		
4,400.0	4,400.0	4,335.0	4,332.7	8.4	116.0	-99.08	-79.0	-494.5	505.7	344.4	161.37	3.134		
4,500.0	4,500.0	4,335.0	4,332.7	8.6	116.0	-99.08	-79.0	-494.5	529.0	374.6	154.43	3.426		
4,600.0	4,600.0	4,335.0	4,332.7	8.7	116.0	-99.08	-79.0	-494.5	569.2	425.4	143.80	3.958		
4,700.0	4,700.0	4,335.0	4,332.7	8.8	116.0	-99.08	-79.0	-494.5	622.9	491.2	131.74	4.729		
4,800.0	4,800.0	4,335.0	4,332.7	8.9	116.0	-99.08	-79.0	-494.5	687.1	567.3	119.84	5.734		
4,900.0	4,900.0	4,335.0	4,332.7	9.0	116.0	-99.08	-79.0	-494.5	759.1	650.2	108.93	6.968		
5,000.0	5,000.0	4,335.0	4,332.7	9.1	116.0	-99.08	-79.0	-494.5	836.8	737.5	99.30	8.428		
5,100.0	5,100.0	4,335.0	4,332.7	9.2	116.0	-99.08	-79.0	-494.5	918.9	828.0	90.94	10.104		

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #6 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 500-INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (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	10.0	10.0	3.0	3.0	107.73	-267.1	835.4	877.1	870.1	6.98	125.615	
100.0	100.0	110.0	110.0	3.1	3.2	107.73	-267.1	835.4	877.1	870.0	7.11	123.321	
200.0	200.0	210.0	210.0	3.2	3.6	107.73	-267.1	835.4	877.1	869.5	7.64	114.837	
300.0	300.0	310.0	310.0	3.4	4.1	107.73	-267.1	835.4	877.1	868.7	8.35	105.015	
400.0	400.0	410.0	410.0	3.5	4.8	107.73	-267.1	835.4	877.1	867.9	9.21	95.267	
500.0	500.0	510.0	510.0	3.6	5.7	107.73	-267.1	835.4	877.1	866.8	10.26	85.484	
600.0	600.0	610.0	610.0	3.7	7.4	107.73	-267.1	835.4	877.1	864.7	12.38	70.843	
700.0	700.0	710.0	710.0	3.9	9.1	107.73	-267.1	835.4	877.1	862.4	14.69	59.718	
741.4	741.4	751.4	751.4	3.9	9.9	107.69	-266.5	835.4	876.9	861.3	15.68	55.943	
800.0	800.0	809.7	809.7	4.0	10.9	107.70	-266.6	835.4	876.9	859.8	17.09	51.300	
900.0	900.0	909.3	909.3	4.1	12.8	107.71	-266.7	835.4	877.0	857.4	19.56	44.832	
1,000.0	1,000.0	1,010.0	1,010.0	4.2	14.7	107.73	-267.1	835.4	877.1	855.1	22.03	39.808	
1,100.0	1,100.0	1,110.0	1,110.0	4.3	16.8	107.73	-267.1	835.4	877.1	852.2	24.94	35.167	
1,200.0	1,200.0	1,210.0	1,210.0	4.5	18.9	107.73	-267.1	835.4	877.1	849.2	27.88	31.465	
1,241.4	1,241.4	1,251.4	1,251.4	4.5	19.8	107.68	-266.3	835.4	876.8	847.7	29.09	30.138	
1,300.0	1,300.0	1,309.6	1,309.6	4.6	21.1	107.68	-266.3	835.4	876.9	846.0	30.82	28.455	
1,400.0	1,400.0	1,408.9	1,408.9	4.7	23.2	107.70	-266.6	835.4	876.9	843.2	33.76	25.974	
1,500.0	1,500.0	1,510.1	1,510.0	4.8	25.4	107.73	-267.1	835.4	877.1	840.3	36.83	23.811	
1,600.0	1,600.0	1,610.1	1,610.0	5.0	28.0	107.73	-267.1	835.4	877.1	836.9	40.23	21.799	
1,635.3	1,635.3	1,645.5	1,645.3	5.0	28.9	107.67	-266.1	835.4	876.8	835.3	41.51	21.124	
1,700.0	1,700.0	1,708.6	1,708.5	5.1	30.6	107.68	-266.3	835.4	876.9	833.1	43.79	20.025	
1,800.0	1,800.0	1,810.3	1,810.0	5.3	33.2	107.73	-267.1	835.4	877.1	829.6	47.48	18.474	
1,900.0	1,900.0	1,910.3	1,910.0	5.4	35.9	107.73	-267.1	835.4	877.1	825.9	51.18	17.137	
1,995.0	1,995.0	2,005.2	2,004.9	5.6	38.4	107.61	-265.2	835.4	876.5	821.8	54.70	16.023	
2,000.0	2,000.0	2,010.2	2,009.9	5.6	38.6	107.61	-265.2	835.4	876.5	821.6	54.89	15.970	
2,100.0	2,100.0	2,108.1	2,107.8	5.7	41.2	107.64	-265.6	835.4	876.7	818.1	58.52	14.980	
2,200.0	2,200.0	2,206.1	2,205.8	5.8	43.8	107.71	-266.8	835.4	877.0	814.9	62.16	14.109	
2,300.0	2,300.0	2,310.5	2,310.0	6.0	46.4	107.73	-267.1	835.4	877.1	811.3	65.83	13.324	
2,339.5	2,339.5	2,350.0	2,349.5	6.0	47.4	107.68	-266.2	835.4	876.8	809.6	67.21	13.047	
2,400.0	2,400.0	2,408.9	2,408.4	6.1	48.9	107.69	-266.4	835.4	876.9	807.6	69.26	12.660	
2,500.0	2,500.0	2,510.6	2,510.0	6.2	51.5	107.73	-267.1	835.4	877.1	804.1	72.98	12.018	
2,579.5	2,579.5	2,590.1	2,589.5	6.3	53.8	107.68	-266.4	835.4	876.9	800.7	76.20	11.508	
2,600.0	2,600.0	2,609.9	2,609.4	6.3	54.4	107.68	-266.4	835.4	876.9	799.9	77.00	11.388	
2,700.0	2,700.0	2,710.7	2,710.0	6.5	57.4	107.73	-267.1	835.4	877.1	796.0	81.11	10.813	
2,791.3	2,791.3	2,801.8	2,801.1	6.6	60.2	107.66	-266.0	835.4	876.8	791.7	85.08	10.305	
2,800.0	2,800.0	2,810.1	2,809.4	6.6	60.5	107.66	-266.0	835.4	876.8	791.3	85.45	10.261	
2,900.0	2,900.0	2,910.9	2,910.0	6.7	63.6	107.73	-267.1	835.4	877.1	787.3	89.79	9.768	
3,000.0	3,000.0	3,010.9	3,010.0	6.8	66.4	107.73	-267.1	835.4	877.1	783.3	93.75	9.356	
3,100.0	3,100.0	3,110.9	3,110.0	7.0	69.3	107.73	-267.1	835.4	877.1	779.4	97.71	8.977	
3,141.3	3,141.3	3,152.2	3,151.3	7.0	70.5	107.59	-264.9	835.4	876.4	777.1	99.34	8.822	
3,200.0	3,200.0	3,209.8	3,208.9	7.1	72.1	107.60	-265.0	835.4	876.5	774.8	101.62	8.625	
3,300.0	3,300.0	3,308.0	3,307.1	7.2	74.9	107.65	-265.8	835.4	876.7	771.2	105.51	8.309	
3,400.0	3,400.0	3,411.1	3,410.0	7.3	77.9	107.73	-267.1	835.4	877.1	767.4	109.70	7.996	
3,500.0	3,500.0	3,511.1	3,510.0	7.4	81.4	107.73	-267.1	835.4	877.1	762.5	114.59	7.654	
3,586.2	3,586.2	3,597.4	3,596.2	7.5	84.4	107.63	-265.6	835.4	876.6	757.8	118.81	7.378	
3,600.0	3,600.0	3,610.8	3,609.7	7.5	84.9	107.63	-265.6	835.4	876.6	757.2	119.47	7.338	
3,700.0	3,700.0	3,708.9	3,707.7	7.7	88.3	107.66	-266.0	835.4	876.8	752.5	124.27	7.056	
3,800.0	3,800.0	3,811.6	3,810.0	7.8	92.2	107.73	-267.1	835.4	877.1	747.5	129.62	6.766	
3,900.0	3,900.0	3,911.6	3,910.0	7.9	97.1	107.73	-267.1	835.4	877.1	740.6	136.52	6.425	
3,977.9	3,977.9	3,989.5	3,987.8	8.0	101.0	107.54	-264.1	835.4	876.2	734.3	141.90	6.175 CC	
4,000.0	4,000.0	4,010.7	4,009.1	8.0	102.0	107.55	-264.1	835.4	876.2	732.8	143.36	6.112	
4,100.0	4,100.0	4,107.0	4,105.2	8.1	106.8	107.61	-265.2	835.4	876.5	726.5	150.00	5.844	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #6 (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 500-INC-ONLY													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,200.0	4,200.0	4,212.6	4,210.0	8.2	112.2	107.73	-267.1	835.4	877.1	719.6	157.46	5.570		
4,266.7	4,266.7	4,279.3	4,276.6	8.3	115.8	107.61	-265.1	835.4	876.5	714.0	162.48	5.394		
4,300.0	4,300.0	4,309.2	4,306.5	8.3	117.4	107.62	-265.3	835.4	876.6	711.8	164.74	5.321		
4,400.0	4,400.0	4,378.0	4,374.8	8.4	121.1	107.73	-267.1	835.4	877.8	708.0	169.78	5.170 ES, SF		
4,500.0	4,500.0	4,378.0	4,374.8	8.6	121.1	107.73	-267.1	835.4	887.4	719.5	167.98	5.283		
4,600.0	4,600.0	4,378.0	4,374.8	8.7	121.1	107.73	-267.1	835.4	908.1	743.8	164.26	5.528		
4,700.0	4,700.0	4,378.0	4,374.8	8.8	121.1	107.73	-267.1	835.4	938.9	780.0	158.98	5.906		
4,800.0	4,800.0	4,378.0	4,374.8	8.9	121.1	107.73	-267.1	835.4	979.1	826.5	152.61	6.416		

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11344-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	16.74	201.0	60.5	209.9	202.9	6.98	30.072	
100.0	100.0	98.0	98.0	3.1	3.1	16.74	201.0	60.5	209.9	202.7	7.22	29.060	
200.0	200.0	198.0	198.0	3.2	3.2	16.74	201.0	60.5	209.9	202.4	7.47	28.101	
300.0	300.0	298.0	298.0	3.4	3.4	16.74	201.0	60.5	209.9	202.2	7.71	27.217	
400.0	400.0	398.0	398.0	3.5	3.5	16.74	201.0	60.5	209.9	202.0	7.95	26.394	
500.0	500.0	498.0	498.0	3.6	3.6	16.74	201.0	60.5	209.9	201.7	8.19	25.625	
600.0	600.0	598.0	598.0	3.7	3.7	16.74	201.0	60.5	209.9	201.5	8.43	24.905	
700.0	700.0	698.0	698.0	3.9	3.9	16.74	201.0	60.5	209.9	201.3	8.66	24.229	
800.0	800.0	798.0	798.0	4.0	4.0	16.74	201.0	60.5	209.9	201.0	8.90	23.591	
900.0	900.0	898.0	898.0	4.1	4.1	16.74	201.0	60.5	209.9	200.8	9.13	22.990	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	16.74	201.0	60.5	209.9	200.6	9.36	22.421	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	16.74	201.0	60.5	209.9	200.3	9.59	21.883	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	16.74	201.0	60.5	209.9	200.1	9.82	21.371	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	16.74	201.0	60.5	209.9	199.9	10.05	20.885	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	16.74	201.0	60.5	209.9	199.6	10.28	20.422	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	16.74	201.0	60.5	209.9	199.4	10.51	19.981	
1,600.0	1,600.0	1,600.4	1,600.4	5.0	4.9	16.29	200.9	58.7	209.3	198.9	10.46	20.017	
1,700.0	1,700.0	1,702.7	1,702.5	5.1	5.1	14.88	200.6	53.3	207.7	196.9	10.77	19.284	
1,800.0	1,800.0	1,804.4	1,803.8	5.3	5.3	12.49	200.2	44.3	205.1	194.0	11.07	18.527	
1,900.0	1,900.0	1,905.4	1,904.0	5.4	5.6	9.07	199.5	31.9	202.1	190.8	11.36	17.788	
2,000.0	2,000.0	2,005.3	2,002.7	5.6	5.9	4.62	198.7	16.1	199.4	187.8	11.65	17.121	
2,100.0	2,100.0	2,104.0	2,099.6	5.7	6.3	-0.84	197.7	-2.9	197.7	185.8	11.92	16.584	
2,136.6	2,136.6	2,139.8	2,134.6	5.7	6.4	-3.00	197.3	-10.3	197.6	185.6	12.02	16.432 CC, ES	
2,200.0	2,200.0	2,201.9	2,195.3	5.8	6.6	-6.73	196.6	-23.2	198.0	185.8	12.20	16.227	
2,300.0	2,300.0	2,299.7	2,290.9	6.0	6.9	-12.54	195.6	-43.5	200.5	188.0	12.50	16.037	
2,400.0	2,400.0	2,397.5	2,386.6	6.1	7.2	-18.17	194.5	-63.8	205.0	192.2	12.83	15.985 SF	
2,500.0	2,500.0	2,495.3	2,482.3	6.2	7.5	-23.51	193.4	-84.1	211.5	198.3	13.19	16.041	
2,600.0	2,600.0	2,593.1	2,578.0	6.3	7.9	-28.50	192.4	-104.4	219.8	206.2	13.59	16.178	
2,700.0	2,700.0	2,690.9	2,673.6	6.5	8.2	-33.11	191.3	-124.8	229.7	215.7	14.03	16.373	
2,800.0	2,800.0	2,788.8	2,769.3	6.6	8.6	-37.32	190.2	-145.1	241.0	226.4	14.51	16.609	
2,900.0	2,900.0	2,886.6	2,865.0	6.7	9.0	-41.16	189.2	-165.4	253.4	238.4	15.02	16.874	
3,000.0	3,000.0	2,984.4	2,960.7	6.8	9.3	-44.63	188.1	-185.7	266.9	251.4	15.56	17.157	
3,100.0	3,100.0	3,082.2	3,056.4	7.0	9.7	-47.76	187.1	-206.0	281.3	265.2	16.12	17.451	
3,200.0	3,200.0	3,180.0	3,152.0	7.1	10.1	-50.58	186.0	-226.3	296.5	279.8	16.70	17.751	
3,300.0	3,300.0	3,277.8	3,247.7	7.2	10.5	-53.13	184.9	-246.6	312.3	295.0	17.30	18.053	
3,400.0	3,400.0	3,375.6	3,343.4	7.3	10.9	-55.44	183.9	-266.9	328.7	310.8	17.91	18.354	
3,500.0	3,500.0	3,473.5	3,439.1	7.4	11.4	-57.53	182.8	-287.2	345.5	327.0	18.53	18.651	
3,600.0	3,600.0	3,571.3	3,534.7	7.5	11.8	-59.42	181.7	-307.5	362.8	343.6	19.15	18.943	
3,700.0	3,700.0	3,669.1	3,630.4	7.7	12.2	-61.14	180.7	-327.8	380.4	360.6	19.78	19.229	
3,800.0	3,800.0	3,766.9	3,726.1	7.8	12.6	-62.71	179.6	-348.1	398.3	377.9	20.42	19.507	
3,900.0	3,900.0	3,864.7	3,821.8	7.9	13.0	-64.15	178.5	-368.5	416.5	395.4	21.06	19.778	
4,000.0	4,000.0	3,962.5	3,917.5	8.0	13.5	-65.46	177.5	-388.8	434.9	413.2	21.70	20.040	
4,100.0	4,100.0	4,060.3	4,013.1	8.1	13.9	-66.67	176.4	-409.1	453.5	431.2	22.35	20.295	
4,200.0	4,200.0	4,158.2	4,108.8	8.2	14.3	-67.79	175.3	-429.4	472.3	449.3	22.99	20.540	
4,300.0	4,300.0	4,256.0	4,204.5	8.3	14.8	-68.82	174.3	-449.7	491.3	467.6	23.64	20.778	
4,400.0	4,400.0	4,353.8	4,300.2	8.4	15.2	-69.77	173.2	-470.0	510.4	486.1	24.30	21.007	
4,500.0	4,500.0	4,451.6	4,395.8	8.6	15.7	-70.65	172.2	-490.3	529.6	504.7	24.95	21.228	
4,600.0	4,600.0	4,549.4	4,491.5	8.7	16.1	-71.48	171.1	-510.6	548.9	523.3	25.60	21.442	
4,700.0	4,700.0	4,647.2	4,587.2	8.8	16.5	-72.24	170.0	-530.9	568.4	542.1	26.26	21.647	
4,800.0	4,800.0	4,745.0	4,682.9	8.9	17.0	-72.96	169.0	-551.2	587.9	561.0	26.91	21.845	
4,900.0	4,900.0	4,842.9	4,778.5	9.0	17.4	-73.63	167.9	-571.5	607.6	580.0	27.57	22.037	
5,000.0	5,000.0	4,940.7	4,874.2	9.1	17.9	-74.26	166.8	-591.9	627.3	599.0	28.23	22.221	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11344-r.5 MWD+IFR1+MS												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)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,100.0	5,038.5	4,969.9	9.2	18.3	-74.85	165.8	-612.2	647.0	618.1	28.89	22.399	
5,200.0	5,200.0	5,136.3	5,065.6	9.3	18.8	-75.40	164.7	-632.5	666.8	637.3	29.55	22.570	
5,300.0	5,300.0	5,234.1	5,161.3	9.4	19.2	-75.93	163.6	-652.8	686.7	656.5	30.21	22.735	
5,400.0	5,400.0	5,331.9	5,256.9	9.5	19.7	-76.42	162.6	-673.1	706.7	675.8	30.86	22.899	
5,500.0	5,500.0	5,437.9	5,360.7	9.6	20.1	-76.92	161.4	-694.7	726.3	694.8	31.55	23.019	
5,600.0	5,600.0	5,550.0	5,470.8	9.7	20.6	-77.37	160.3	-715.6	744.3	712.0	32.28	23.057	
5,700.0	5,700.0	5,662.9	5,582.1	9.8	21.1	-77.76	159.4	-734.5	760.5	727.5	32.99	23.055	
5,800.0	5,800.0	5,776.5	5,694.5	9.9	21.6	-78.09	158.5	-751.3	774.8	741.1	33.66	23.016	
5,900.0	5,900.0	5,890.8	5,807.8	10.0	22.1	-78.37	157.7	-765.9	787.2	752.9	34.31	22.943	
6,000.0	6,000.0	6,005.6	5,921.9	10.1	22.6	-78.59	157.1	-778.4	797.7	762.8	34.93	22.840	
6,100.0	6,100.0	6,120.8	6,036.7	10.2	23.0	-78.77	156.5	-788.6	806.3	770.8	35.50	22.711	
6,200.0	6,200.0	6,236.4	6,152.0	10.3	23.4	-78.91	156.1	-796.5	812.9	776.9	36.03	22.560	
6,300.0	6,300.0	6,352.3	6,267.7	10.4	23.8	-79.01	155.8	-802.0	817.6	781.1	36.51	22.392	
6,400.0	6,400.0	6,468.4	6,383.8	10.5	24.1	-79.06	155.6	-805.3	820.3	783.4	36.92	22.218	
6,500.0	6,500.0	6,582.6	6,498.0	10.6	24.3	-79.08	155.6	-806.2	821.1	784.0	37.13	22.116	
6,600.0	6,600.0	6,682.6	6,598.0	10.7	24.4	-79.08	155.6	-806.2	821.1	783.9	37.22	22.062	
6,700.0	6,700.0	6,782.6	6,698.0	10.8	24.4	-79.08	155.6	-806.2	821.1	783.8	37.31	22.006	
6,800.0	6,800.0	6,882.6	6,798.0	10.9	24.4	-79.08	155.6	-806.2	821.1	783.7	37.41	21.949	
6,900.0	6,900.0	6,982.6	6,898.0	11.0	24.4	-79.08	155.6	-806.2	821.1	783.6	37.51	21.893	
7,000.0	7,000.0	7,082.6	6,998.0	11.1	24.5	-79.08	155.6	-806.2	821.1	783.5	37.60	21.836	
7,100.0	7,100.0	7,182.6	7,098.0	11.2	24.5	-79.08	155.6	-806.2	821.1	783.4	37.70	21.780	
7,200.0	7,200.0	7,282.6	7,198.0	11.3	24.5	-79.08	155.6	-806.2	821.1	783.3	37.80	21.723	
7,300.0	7,300.0	7,382.6	7,298.0	11.4	24.6	-79.08	155.6	-806.2	821.1	783.2	37.90	21.667	
7,400.0	7,400.0	7,482.6	7,398.0	11.5	24.6	-79.08	155.6	-806.2	821.1	783.1	37.99	21.610	
7,500.0	7,500.0	7,582.6	7,498.0	11.6	24.6	-79.08	155.6	-806.2	821.1	783.0	38.09	21.554	
7,600.0	7,600.0	7,682.6	7,598.0	11.7	24.7	-79.08	155.6	-806.2	821.1	782.9	38.19	21.498	
7,700.0	7,700.0	7,782.6	7,698.0	11.8	24.7	-79.08	155.6	-806.2	821.1	782.8	38.29	21.442	
7,800.0	7,800.0	7,882.6	7,798.0	11.9	24.7	-79.08	155.6	-806.2	821.1	782.7	38.39	21.386	
7,900.0	7,900.0	7,982.6	7,898.0	12.0	24.8	-79.08	155.6	-806.2	821.1	782.6	38.50	21.329	
8,000.0	8,000.0	8,082.6	7,998.0	12.1	24.8	-79.08	155.6	-806.2	821.1	782.5	38.60	21.273	
8,100.0	8,100.0	8,182.6	8,098.0	12.2	24.8	-79.08	155.6	-806.2	821.1	782.4	38.70	21.218	
8,200.0	8,200.0	8,282.6	8,198.0	12.3	24.9	-79.08	155.6	-806.2	821.1	782.3	38.80	21.162	
8,300.0	8,300.0	8,382.6	8,298.0	12.4	24.9	-79.08	155.6	-806.2	821.1	782.2	38.90	21.106	
8,400.0	8,400.0	8,482.6	8,398.0	12.5	24.9	-79.08	155.6	-806.2	821.1	782.1	39.01	21.050	
8,500.0	8,500.0	8,582.6	8,498.0	12.6	25.0	-79.08	155.6	-806.2	821.1	782.0	39.11	20.994	
8,600.0	8,600.0	8,682.6	8,598.0	12.7	25.0	-79.08	155.6	-806.2	821.1	781.9	39.21	20.939	
8,700.0	8,700.0	8,782.6	8,698.0	12.8	25.0	-79.08	155.6	-806.2	821.1	781.8	39.32	20.883	
8,800.0	8,800.0	8,882.6	8,798.0	12.9	25.1	-79.08	155.6	-806.2	821.1	781.7	39.42	20.828	
8,900.0	8,900.0	8,982.6	8,898.0	13.0	25.1	-79.08	155.6	-806.2	821.1	781.6	39.53	20.773	
9,000.0	9,000.0	9,082.6	8,998.0	13.0	25.1	-79.08	155.6	-806.2	821.1	781.5	39.63	20.718	
9,100.0	9,100.0	9,182.6	9,098.0	13.1	25.2	-79.08	155.6	-806.2	821.1	781.3	39.74	20.662	
9,200.0	9,200.0	9,282.6	9,198.0	13.2	25.2	-79.08	155.6	-806.2	821.1	781.2	39.84	20.607	
9,300.0	9,300.0	9,382.6	9,298.0	13.3	25.2	-79.08	155.6	-806.2	821.1	781.1	39.95	20.553	
9,400.0	9,400.0	9,482.6	9,398.0	13.4	25.3	-79.08	155.6	-806.2	821.1	781.0	40.06	20.498	
9,500.0	9,500.0	9,582.6	9,498.0	13.5	25.3	-79.08	155.6	-806.2	821.1	780.9	40.16	20.443	
9,600.0	9,600.0	9,682.6	9,598.0	13.6	25.3	-79.08	155.6	-806.2	821.1	780.8	40.27	20.388	
9,700.0	9,700.0	9,782.6	9,698.0	13.7	25.4	-79.08	155.6	-806.2	821.1	780.7	40.38	20.334	
9,800.0	9,800.0	9,882.6	9,798.0	13.8	25.4	-79.08	155.6	-806.2	821.1	780.6	40.49	20.280	
9,900.0	9,900.0	9,982.6	9,898.0	13.9	25.5	-79.08	155.6	-806.2	821.1	780.5	40.60	20.225	
10,000.0	10,000.0	10,082.6	9,998.0	14.0	25.5	-79.08	155.6	-806.2	821.1	780.4	40.71	20.171	
10,100.0	10,100.0	10,182.6	10,098.0	14.1	25.5	-79.08	155.6	-806.2	821.1	780.3	40.82	20.117	
10,200.0	10,200.0	10,282.6	10,198.0	14.2	25.6	-79.08	155.6	-806.2	821.1	780.2	40.92	20.063	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11344-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.0	10,300.0	10,382.6	10,298.0	14.3	25.6	-79.08	155.6	-806.2	821.1	780.1	41.03	20.009	
10,400.0	10,400.0	10,482.6	10,398.0	14.4	25.6	-79.08	155.6	-806.2	821.1	779.9	41.15	19.956	
10,500.0	10,500.0	10,582.6	10,498.0	14.4	25.7	-79.08	155.6	-806.2	821.1	779.8	41.26	19.902	
10,600.0	10,600.0	10,682.6	10,598.0	14.5	25.7	-79.08	155.6	-806.2	821.1	779.7	41.37	19.849	
10,700.0	10,700.0	10,782.6	10,698.0	14.6	25.8	-79.08	155.6	-806.2	821.1	779.6	41.48	19.795	
10,800.0	10,800.0	10,882.6	10,798.0	14.7	25.8	-79.08	155.6	-806.2	821.1	779.5	41.59	19.742	
10,900.0	10,900.0	10,982.6	10,898.0	14.8	25.8	-79.08	155.6	-806.2	821.1	779.4	41.70	19.689	
11,000.0	11,000.0	11,082.6	10,998.0	14.9	25.9	-79.08	155.6	-806.2	821.1	779.3	41.81	19.636	
11,100.0	11,100.0	11,182.6	11,098.0	15.0	25.9	-79.08	155.6	-806.2	821.1	779.2	41.93	19.584	
11,200.0	11,200.0	11,282.6	11,198.0	15.1	26.0	-79.08	155.6	-806.2	821.1	779.0	42.04	19.531	
11,259.5	11,259.5	11,342.1	11,257.5	15.1	26.0	-79.08	155.6	-806.2	821.1	779.0	42.09	19.509	
11,275.0	11,275.0	11,354.2	11,269.6	15.1	26.0	102.78	155.7	-806.2	821.2	779.3	41.89	19.604	
11,300.0	11,300.0	11,375.0	11,290.4	15.1	26.0	102.87	156.6	-806.2	821.7	779.8	41.90	19.609	
11,325.0	11,324.8	11,390.8	11,306.1	15.2	26.0	102.96	157.9	-806.2	822.7	780.8	41.93	19.621	
11,350.0	11,349.5	11,408.4	11,323.6	15.2	26.0	103.11	159.9	-806.2	824.3	782.3	41.94	19.654	
11,375.0	11,373.9	11,425.0	11,340.0	15.2	26.0	103.27	162.4	-806.3	826.4	784.4	41.94	19.703	
11,400.0	11,398.0	11,441.3	11,356.1	15.2	26.0	103.44	165.5	-806.3	829.1	787.1	41.94	19.770	
11,425.0	11,421.7	11,456.4	11,370.7	15.2	26.0	103.57	168.7	-806.3	832.4	790.5	41.92	19.855	
11,450.0	11,445.0	11,470.3	11,384.3	15.2	26.0	103.64	172.2	-806.4	836.4	794.5	41.91	19.958	
11,475.0	11,467.8	11,483.1	11,396.6	15.3	26.0	103.65	175.7	-806.4	841.1	799.2	41.89	20.080	
11,500.0	11,490.0	11,494.8	11,407.7	15.3	26.0	103.55	179.2	-806.4	846.6	804.7	41.86	20.222	
11,525.0	11,511.5	11,505.3	11,417.6	15.3	26.0	103.34	182.5	-806.5	852.8	811.0	41.84	20.385	
11,550.0	11,532.4	11,514.6	11,426.4	15.3	26.0	102.99	185.7	-806.5	859.8	818.0	41.80	20.569	
11,575.0	11,552.5	11,525.0	11,436.1	15.4	26.0	102.62	189.4	-806.5	867.7	825.9	41.75	20.784	
11,600.0	11,571.9	11,525.0	11,436.1	15.4	26.0	101.54	189.4	-806.5	876.3	834.5	41.77	20.979	
11,625.0	11,590.3	11,536.0	11,446.3	15.4	26.0	101.03	193.6	-806.6	885.7	844.0	41.68	21.249	
11,650.0	11,607.9	11,541.1	11,451.0	15.4	26.0	100.05	195.7	-806.6	895.8	854.2	41.63	21.518	
11,675.0	11,624.5	11,550.0	11,459.1	15.5	26.0	99.21	199.3	-806.6	906.8	865.2	41.53	21.832	
11,700.0	11,640.1	11,550.0	11,459.1	15.5	26.0	97.65	199.3	-806.6	918.4	876.9	41.51	22.125	
11,725.0	11,654.7	11,550.0	11,459.1	15.5	26.0	95.98	199.3	-806.6	930.6	889.2	41.47	22.440	
11,750.0	11,668.2	11,550.0	11,459.1	15.6	26.0	94.18	199.3	-806.6	943.5	902.1	41.42	22.779	
11,775.0	11,680.5	11,550.0	11,459.1	15.6	26.0	92.27	199.3	-806.6	957.0	915.6	41.36	23.138	
11,800.0	11,691.8	11,550.0	11,459.1	15.6	26.0	90.25	199.3	-806.6	970.9	929.6	41.28	23.518	
11,825.0	11,701.8	11,550.0	11,459.1	15.6	26.0	88.14	199.3	-806.6	985.3	944.1	41.19	23.918	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11473-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	24.91	184.3	85.6	203.2	196.2	6.98	29.108	
100.0	100.0	98.0	98.0	3.1	3.1	24.91	184.3	85.6	203.2	196.0	7.22	28.130	
200.0	200.0	198.0	198.0	3.2	3.2	24.91	184.3	85.6	203.2	195.7	7.47	27.205	
300.0	300.0	298.0	298.0	3.4	3.4	24.91	184.3	85.6	203.2	195.5	7.71	26.355	
400.0	400.0	398.0	398.0	3.5	3.5	24.91	184.3	85.6	203.2	195.2	7.95	25.565	
500.0	500.0	498.0	498.0	3.6	3.6	24.91	184.3	85.6	203.2	195.0	8.18	24.828	
600.0	600.0	598.0	598.0	3.7	3.7	24.91	184.3	85.6	203.2	194.8	8.42	24.139	
700.0	700.0	698.0	698.0	3.9	3.9	24.91	184.3	85.6	203.2	194.5	8.65	23.492	
800.0	800.0	798.0	798.0	4.0	4.0	24.91	184.3	85.6	203.2	194.3	8.88	22.883	
900.0	900.0	898.0	898.0	4.1	4.1	24.91	184.3	85.6	203.2	194.1	9.11	22.310	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	24.91	184.3	85.6	203.2	193.9	9.33	21.767	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	24.91	184.3	85.6	203.2	193.6	9.56	21.253	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	24.91	184.3	85.6	203.2	193.4	9.78	20.766	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	24.91	184.3	85.6	203.2	193.2	10.01	20.303	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	24.91	184.3	85.6	203.2	193.0	10.23	19.862	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	24.91	184.3	85.6	203.2	192.7	10.45	19.442	
1,600.0	1,600.0	1,601.9	1,601.9	5.0	4.9	24.48	184.0	83.8	202.2	191.8	10.42	19.405	
1,700.0	1,700.0	1,705.6	1,705.4	5.1	5.1	23.13	183.3	78.3	199.4	188.7	10.76	18.539	
1,800.0	1,800.0	1,808.7	1,808.1	5.3	5.3	20.80	182.0	69.1	194.9	183.8	11.08	17.585	
1,900.0	1,900.0	1,911.1	1,909.7	5.4	5.6	17.38	180.2	56.4	189.2	177.8	11.40	16.593	
2,000.0	2,000.0	2,012.1	2,009.4	5.6	5.9	12.79	177.9	40.4	182.8	171.1	11.70	15.627	
2,100.0	2,100.0	2,110.6	2,106.4	5.7	6.2	7.61	175.6	23.4	177.3	165.3	11.97	14.810	
2,200.0	2,200.0	2,209.1	2,203.4	5.8	6.5	2.15	173.2	6.5	173.4	161.1	12.24	14.170	
2,300.0	2,300.0	2,307.6	2,300.4	6.0	6.8	-3.49	170.8	-10.4	171.1	158.6	12.50	13.696	
2,378.7	2,378.7	2,385.1	2,376.7	6.1	7.0	-8.00	168.9	-23.7	170.6	157.9	12.70	13.429 CC	
2,400.0	2,400.0	2,406.1	2,397.4	6.1	7.1	-9.23	168.4	-27.4	170.6	157.9	12.76	13.371 ES	
2,500.0	2,500.0	2,504.5	2,494.3	6.2	7.4	-14.94	166.0	-44.3	171.9	158.8	13.05	13.175	
2,600.0	2,600.0	2,603.0	2,591.3	6.3	7.8	-20.51	163.7	-61.2	174.9	161.5	13.36	13.085	
2,700.0	2,700.0	2,701.5	2,688.3	6.5	8.1	-25.86	161.3	-78.2	179.5	165.8	13.72	13.081	
2,800.0	2,800.0	2,800.0	2,785.3	6.6	8.5	-30.90	158.9	-95.1	185.6	171.5	14.12	13.141	
2,900.0	2,900.0	2,898.5	2,882.3	6.7	8.9	-35.59	156.5	-112.0	193.1	178.5	14.57	13.251	
3,000.0	3,000.0	2,996.9	2,979.3	6.8	9.2	-39.92	154.1	-129.0	201.8	186.8	15.06	13.399	
3,100.0	3,100.0	3,095.4	3,076.2	7.0	9.6	-43.87	151.8	-145.9	211.6	196.0	15.59	13.575	
3,200.0	3,200.0	3,193.9	3,173.2	7.1	10.0	-47.47	149.4	-162.8	222.4	206.2	16.15	13.772	
3,300.0	3,300.0	3,292.4	3,270.2	7.2	10.4	-50.73	147.0	-179.8	233.9	217.1	16.72	13.984	
3,400.0	3,400.0	3,390.9	3,367.2	7.3	10.8	-53.68	144.6	-196.7	246.1	228.8	17.32	14.208	
3,500.0	3,500.0	3,489.3	3,464.2	7.4	11.2	-56.34	142.2	-213.6	258.9	240.9	17.93	14.439	
3,600.0	3,600.0	3,587.8	3,561.2	7.5	11.6	-58.76	139.9	-230.6	272.2	253.6	18.55	14.674	
3,700.0	3,700.0	3,686.3	3,658.2	7.7	12.0	-60.95	137.5	-247.5	285.9	266.7	19.17	14.911	
3,800.0	3,800.0	3,784.8	3,755.1	7.8	12.4	-62.94	135.1	-264.4	300.0	280.2	19.81	15.149	
3,900.0	3,900.0	3,883.3	3,852.1	7.9	12.8	-64.75	132.7	-281.4	314.5	294.0	20.44	15.385	
4,000.0	4,000.0	3,981.8	3,949.1	8.0	13.3	-66.40	130.3	-298.3	329.2	308.1	21.08	15.618	
4,100.0	4,100.0	4,082.0	4,047.9	8.1	13.7	-67.93	127.9	-315.5	344.1	322.4	21.69	15.860	
4,200.0	4,200.0	4,186.3	4,150.9	8.2	14.1	-69.27	125.6	-331.8	357.9	335.6	22.35	16.019	
4,300.0	4,300.0	4,291.2	4,254.7	8.3	14.5	-70.37	123.6	-346.5	370.4	347.4	22.98	16.118	
4,400.0	4,400.0	4,396.7	4,359.3	8.4	14.9	-71.28	121.8	-359.3	381.3	357.7	23.59	16.164	
4,500.0	4,500.0	4,502.5	4,464.6	8.6	15.4	-72.01	120.2	-370.2	390.6	366.5	24.17	16.162	
4,600.0	4,600.0	4,608.7	4,570.4	8.7	15.7	-72.58	119.0	-379.2	398.4	373.7	24.72	16.116	
4,700.0	4,700.0	4,715.3	4,676.7	8.8	16.1	-73.02	118.0	-386.3	404.5	379.2	25.23	16.030	
4,800.0	4,800.0	4,822.0	4,783.4	8.9	16.5	-73.32	117.3	-391.4	408.9	383.2	25.70	15.909	
4,900.0	4,900.0	4,928.9	4,890.2	9.0	16.8	-73.51	116.8	-394.6	411.6	385.5	26.12	15.761	
5,000.0	5,000.0	5,035.9	4,997.2	9.1	17.0	-73.58	116.6	-395.8	412.7	386.2	26.41	15.623	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11473-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	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)	Separation (usft)	Factor	
5,100.0	5,100.0	5,136.7	5,098.0	9.2	17.1	-73.58	116.6	-395.8	412.7	386.1	26.53	15.556	
5,200.0	5,200.0	5,236.7	5,198.0	9.3	17.1	-73.58	116.6	-395.8	412.7	386.0	26.65	15.482	
5,300.0	5,300.0	5,336.7	5,298.0	9.4	17.1	-73.58	116.6	-395.8	412.7	385.9	26.78	15.409	
5,400.0	5,400.0	5,436.7	5,398.0	9.5	17.2	-73.58	116.6	-395.8	412.7	385.8	26.91	15.336	
5,500.0	5,500.0	5,536.7	5,498.0	9.6	17.2	-73.58	116.6	-395.8	412.7	385.6	27.04	15.264	
5,600.0	5,600.0	5,636.7	5,598.0	9.7	17.3	-73.58	116.6	-395.8	412.7	385.5	27.16	15.192	
5,700.0	5,700.0	5,736.7	5,698.0	9.8	17.3	-73.58	116.6	-395.8	412.7	385.4	27.29	15.120	
5,800.0	5,800.0	5,836.7	5,798.0	9.9	17.4	-73.58	116.6	-395.8	412.7	385.2	27.42	15.049	
5,900.0	5,900.0	5,936.7	5,898.0	10.0	17.4	-73.58	116.6	-395.8	412.7	385.1	27.55	14.979	
6,000.0	6,000.0	6,036.7	5,998.0	10.1	17.4	-73.58	116.6	-395.8	412.7	385.0	27.68	14.909	
6,100.0	6,100.0	6,136.7	6,098.0	10.2	17.5	-73.58	116.6	-395.8	412.7	384.9	27.81	14.839	
6,200.0	6,200.0	6,236.7	6,198.0	10.3	17.5	-73.58	116.6	-395.8	412.7	384.7	27.94	14.770	
6,300.0	6,300.0	6,336.7	6,298.0	10.4	17.6	-73.58	116.6	-395.8	412.7	384.6	28.07	14.702	
6,400.0	6,400.0	6,436.7	6,398.0	10.5	17.6	-73.58	116.6	-395.8	412.7	384.5	28.20	14.634	
6,500.0	6,500.0	6,536.7	6,498.0	10.6	17.7	-73.58	116.6	-395.8	412.7	384.3	28.33	14.566	
6,600.0	6,600.0	6,636.7	6,598.0	10.7	17.7	-73.58	116.6	-395.8	412.7	384.2	28.46	14.499	
6,700.0	6,700.0	6,736.7	6,698.0	10.8	17.8	-73.58	116.6	-395.8	412.7	384.1	28.59	14.432	
6,800.0	6,800.0	6,836.7	6,798.0	10.9	17.8	-73.58	116.6	-395.8	412.7	383.9	28.73	14.366	
6,900.0	6,900.0	6,936.7	6,898.0	11.0	17.8	-73.58	116.6	-395.8	412.7	383.8	28.86	14.300	
7,000.0	7,000.0	7,036.7	6,998.0	11.1	17.9	-73.58	116.6	-395.8	412.7	383.7	28.99	14.235	
7,100.0	7,100.0	7,136.7	7,098.0	11.2	17.9	-73.58	116.6	-395.8	412.7	383.5	29.12	14.170	
7,200.0	7,200.0	7,236.7	7,198.0	11.3	18.0	-73.58	116.6	-395.8	412.7	383.4	29.26	14.105	
7,300.0	7,300.0	7,336.7	7,298.0	11.4	18.0	-73.58	116.6	-395.8	412.7	383.3	29.39	14.041	
7,400.0	7,400.0	7,436.7	7,398.0	11.5	18.1	-73.58	116.6	-395.8	412.7	383.1	29.52	13.978	
7,500.0	7,500.0	7,536.7	7,498.0	11.6	18.1	-73.58	116.6	-395.8	412.7	383.0	29.66	13.915	
7,600.0	7,600.0	7,636.7	7,598.0	11.7	18.2	-73.58	116.6	-395.8	412.7	382.9	29.79	13.852	
7,700.0	7,700.0	7,736.7	7,698.0	11.8	18.2	-73.58	116.6	-395.8	412.7	382.7	29.93	13.790	
7,800.0	7,800.0	7,836.7	7,798.0	11.9	18.3	-73.58	116.6	-395.8	412.7	382.6	30.06	13.728	
7,900.0	7,900.0	7,936.7	7,898.0	12.0	18.3	-73.58	116.6	-395.8	412.7	382.5	30.20	13.666	
8,000.0	8,000.0	8,036.7	7,998.0	12.1	18.4	-73.58	116.6	-395.8	412.7	382.3	30.33	13.605	
8,100.0	8,100.0	8,136.7	8,098.0	12.2	18.4	-73.58	116.6	-395.8	412.7	382.2	30.47	13.545	
8,200.0	8,200.0	8,236.7	8,198.0	12.3	18.5	-73.58	116.6	-395.8	412.7	382.1	30.60	13.485	
8,300.0	8,300.0	8,336.7	8,298.0	12.4	18.5	-73.58	116.6	-395.8	412.7	381.9	30.74	13.425	
8,400.0	8,400.0	8,436.7	8,398.0	12.5	18.6	-73.58	116.6	-395.8	412.7	381.8	30.87	13.366	
8,500.0	8,500.0	8,536.7	8,498.0	12.6	18.6	-73.58	116.6	-395.8	412.7	381.7	31.01	13.307	
8,600.0	8,600.0	8,636.7	8,598.0	12.7	18.7	-73.58	116.6	-395.8	412.7	381.5	31.15	13.249	
8,700.0	8,700.0	8,736.7	8,698.0	12.8	18.7	-73.58	116.6	-395.8	412.7	381.4	31.28	13.191	
8,800.0	8,800.0	8,836.7	8,798.0	12.9	18.8	-73.58	116.6	-395.8	412.7	381.2	31.42	13.133	
8,900.0	8,900.0	8,936.7	8,898.0	13.0	18.8	-73.58	116.6	-395.8	412.7	381.1	31.56	13.076	
9,000.0	9,000.0	9,036.7	8,998.0	13.0	18.9	-73.58	116.6	-395.8	412.7	381.0	31.70	13.019	
9,100.0	9,100.0	9,136.7	9,098.0	13.1	18.9	-73.58	116.6	-395.8	412.7	380.8	31.83	12.963	
9,200.0	9,200.0	9,236.7	9,198.0	13.2	19.0	-73.58	116.6	-395.8	412.7	380.7	31.97	12.907	
9,300.0	9,300.0	9,336.7	9,298.0	13.3	19.0	-73.58	116.6	-395.8	412.7	380.6	32.11	12.851	
9,400.0	9,400.0	9,436.7	9,398.0	13.4	19.1	-73.58	116.6	-395.8	412.7	380.4	32.25	12.796	
9,500.0	9,500.0	9,536.7	9,498.0	13.5	19.1	-73.58	116.6	-395.8	412.7	380.3	32.39	12.741	
9,600.0	9,600.0	9,636.7	9,598.0	13.6	19.2	-73.58	116.6	-395.8	412.7	380.1	32.53	12.687	
9,700.0	9,700.0	9,736.7	9,698.0	13.7	19.2	-73.58	116.6	-395.8	412.7	380.0	32.67	12.633	
9,800.0	9,800.0	9,836.7	9,798.0	13.8	19.3	-73.58	116.6	-395.8	412.7	379.9	32.81	12.579	
9,900.0	9,900.0	9,936.7	9,898.0	13.9	19.3	-73.58	116.6	-395.8	412.7	379.7	32.95	12.526	
10,000.0	10,000.0	10,036.7	9,998.0	14.0	19.4	-73.58	116.6	-395.8	412.7	379.6	33.09	12.473	
10,100.0	10,100.0	10,136.7	10,098.0	14.1	19.4	-73.58	116.6	-395.8	412.7	379.4	33.23	12.420	
10,200.0	10,200.0	10,236.7	10,198.0	14.2	19.5	-73.58	116.6	-395.8	412.7	379.3	33.37	12.368	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11473-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.0	10,300.0	10,336.7	10,298.0	14.3	19.6	-73.58	116.6	-395.8	412.7	379.2	33.51	12.316	
10,400.0	10,400.0	10,436.7	10,398.0	14.4	19.6	-73.58	116.6	-395.8	412.7	379.0	33.65	12.265	
10,500.0	10,500.0	10,536.7	10,498.0	14.4	19.7	-73.58	116.6	-395.8	412.7	378.9	33.79	12.214	
10,600.0	10,600.0	10,636.7	10,598.0	14.5	19.7	-73.58	116.6	-395.8	412.7	378.7	33.93	12.163	
10,700.0	10,700.0	10,736.7	10,698.0	14.6	19.8	-73.58	116.6	-395.8	412.7	378.6	34.07	12.112	
10,800.0	10,800.0	10,836.7	10,798.0	14.7	19.8	-73.58	116.6	-395.8	412.7	378.5	34.21	12.062	
10,900.0	10,900.0	10,936.7	10,898.0	14.8	19.9	-73.58	116.6	-395.8	412.7	378.3	34.35	12.013	
11,000.0	11,000.0	11,036.7	10,998.0	14.9	19.9	-73.58	116.6	-395.8	412.7	378.2	34.49	11.963	
11,100.0	11,100.0	11,136.7	11,098.0	15.0	20.0	-73.58	116.6	-395.8	412.7	378.0	34.64	11.914	
11,200.0	11,200.0	11,236.7	11,198.0	15.1	20.0	-73.58	116.6	-395.8	412.7	377.9	34.78	11.866	
11,259.5	11,259.5	11,296.2	11,257.5	15.1	20.1	-73.58	116.6	-395.8	412.7	377.8	34.85	11.841 SF	
11,275.0	11,275.0	11,311.7	11,273.0	15.1	20.1	108.29	116.6	-395.8	412.7	378.0	34.73	11.884	
11,300.0	11,300.0	11,336.7	11,298.0	15.1	20.1	108.43	116.6	-395.8	413.2	378.5	34.74	11.895	
11,325.0	11,324.8	11,361.5	11,322.8	15.2	20.1	108.69	116.6	-395.8	414.1	379.4	34.73	11.922	
11,350.0	11,349.5	11,386.2	11,347.5	15.2	20.1	109.07	116.6	-395.8	415.4	380.7	34.72	11.966	
11,375.0	11,373.9	11,410.6	11,371.9	15.2	20.1	109.54	116.6	-395.8	417.2	382.5	34.68	12.029	
11,400.0	11,398.0	11,434.7	11,396.0	15.2	20.1	110.10	116.6	-395.8	419.5	384.9	34.64	12.112	
11,425.0	11,421.7	11,458.4	11,419.7	15.2	20.2	110.74	116.6	-395.8	422.4	387.8	34.58	12.216	
11,450.0	11,445.0	11,479.6	11,440.9	15.2	20.2	111.32	116.7	-395.8	425.9	391.5	34.43	12.371	
11,475.0	11,467.8	11,496.3	11,457.6	15.3	20.2	111.75	117.2	-395.8	430.3	396.0	34.37	12.520	
11,500.0	11,490.0	11,512.0	11,473.2	15.3	20.2	112.15	118.2	-395.9	435.8	401.5	34.31	12.703	
11,525.0	11,511.5	11,525.0	11,486.2	15.3	20.2	112.34	119.4	-395.9	442.4	408.1	34.25	12.917	
11,550.0	11,532.4	11,539.8	11,500.9	15.3	20.2	112.64	121.3	-395.9	450.1	415.9	34.16	13.174	
11,575.0	11,552.5	11,550.0	11,511.0	15.4	20.2	112.47	122.8	-395.9	459.0	424.9	34.12	13.453	
11,600.0	11,571.9	11,562.7	11,523.5	15.4	20.2	112.44	125.0	-395.9	469.1	435.1	34.04	13.782	
11,625.0	11,590.3	11,575.0	11,535.5	15.4	20.2	112.28	127.4	-395.9	480.5	446.5	33.95	14.151	
11,650.0	11,607.9	11,580.7	11,541.1	15.4	20.2	111.29	128.7	-395.9	493.0	459.0	33.95	14.520	
11,675.0	11,624.5	11,588.0	11,548.2	15.5	20.2	110.29	130.3	-396.0	506.6	472.7	33.92	14.934	
11,700.0	11,640.1	11,594.1	11,554.1	15.5	20.2	108.97	131.9	-396.0	521.3	487.4	33.90	15.377	
11,725.0	11,654.7	11,600.0	11,559.8	15.5	20.2	107.40	133.4	-396.0	536.9	503.1	33.87	15.853	
11,750.0	11,668.2	11,600.0	11,559.8	15.6	20.2	104.84	133.4	-396.0	553.5	519.6	33.93	16.314	
11,775.0	11,680.5	11,606.7	11,566.3	15.6	20.2	102.92	135.2	-396.0	570.9	537.0	33.86	16.861	
11,800.0	11,691.8	11,609.2	11,568.6	15.6	20.2	100.16	135.8	-396.0	589.0	555.2	33.85	17.402	
11,825.0	11,701.8	11,610.8	11,570.2	15.6	20.2	97.03	136.3	-396.0	607.8	573.9	33.83	17.964	
11,850.0	11,710.6	11,611.7	11,571.1	15.7	20.2	93.55	136.6	-396.0	627.0	593.2	33.81	18.544	
11,875.0	11,718.2	11,611.9	11,571.3	15.7	20.2	89.73	136.6	-396.0	646.7	613.0	33.79	19.141	
11,900.0	11,724.5	11,611.5	11,570.9	15.7	20.2	85.64	136.5	-396.0	666.8	633.0	33.76	19.754	
11,925.0	11,729.5	11,610.5	11,569.9	15.7	20.2	81.34	136.2	-396.0	687.1	653.4	33.71	20.381	
11,950.0	11,733.3	11,609.0	11,568.4	15.7	20.2	76.89	135.8	-396.0	707.6	674.0	33.66	21.021	
11,975.0	11,735.8	11,600.0	11,559.8	15.7	20.2	71.51	133.4	-396.0	728.3	694.6	33.71	21.603	
12,000.0	11,736.9	11,600.0	11,559.8	15.7	20.2	67.42	133.4	-396.0	748.9	715.3	33.60	22.287	
12,009.5	11,737.0	11,600.0	11,559.8	15.7	20.2	65.89	133.4	-396.0	756.8	723.2	33.56	22.552	
12,083.4	11,737.0	11,600.0	11,559.8	15.8	20.2	66.78	133.4	-396.0	818.3	785.0	33.25	24.613	
12,100.0	11,737.0	11,600.0	11,559.8	15.8	20.2	66.78	133.4	-396.0	832.3	799.1	33.18	25.082	
12,200.0	11,737.0	11,584.5	11,544.8	16.0	20.2	65.03	129.5	-396.0	918.0	885.0	33.05	27.774	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	33.47	167.5	110.8	200.8	193.9	6.98	28.771	
100.0	100.0	99.0	99.0	3.1	3.1	33.47	167.5	110.8	200.8	193.6	7.22	27.799	
200.0	200.0	199.0	199.0	3.2	3.2	33.47	167.5	110.8	200.8	193.4	7.47	26.894	
300.0	300.0	299.0	299.0	3.4	3.4	33.47	167.5	110.8	200.8	193.1	7.71	26.061	
400.0	400.0	399.0	399.0	3.5	3.5	33.47	167.5	110.8	200.8	192.9	7.94	25.290	
500.0	500.0	499.0	499.0	3.6	3.6	33.47	167.5	110.8	200.8	192.7	8.17	24.571	
600.0	600.0	599.0	599.0	3.7	3.7	33.47	167.5	110.8	200.8	192.4	8.40	23.900	
700.0	700.0	699.0	699.0	3.9	3.9	33.47	167.5	110.8	200.8	192.2	8.63	23.272	
800.0	800.0	799.0	799.0	4.0	4.0	33.47	167.5	110.8	200.8	192.0	8.86	22.682	
900.0	900.0	899.0	899.0	4.1	4.1	33.47	167.5	110.8	200.8	191.8	9.08	22.125	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	33.47	167.5	110.8	200.8	191.5	9.30	21.600	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	33.47	167.5	110.8	200.8	191.3	9.52	21.103	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	33.47	167.5	110.8	200.8	191.1	9.73	20.632	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	33.47	167.5	110.8	200.8	190.9	9.95	20.185	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	33.47	167.5	110.8	200.8	190.7	10.16	19.759	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	33.47	167.5	110.8	200.8	190.5	10.38	19.353	
1,600.0	1,600.0	1,605.6	1,605.6	5.0	5.0	33.23	166.5	109.1	199.2	188.8	10.41	19.144	
1,700.0	1,700.0	1,712.1	1,711.9	5.1	5.2	32.47	163.5	104.0	194.2	183.4	10.79	18.008	
1,800.0	1,800.0	1,814.0	1,813.4	5.3	5.3	31.28	159.1	96.6	186.7	175.6	11.05	16.900	
1,900.0	1,900.0	1,913.6	1,912.7	5.4	5.5	29.99	154.6	89.2	179.0	167.6	11.39	15.717	
2,000.0	2,000.0	2,013.2	2,011.9	5.6	5.7	28.58	150.1	81.8	171.4	159.7	11.74	14.602	
2,100.0	2,100.0	2,112.8	2,111.1	5.7	5.9	27.04	145.6	74.3	164.0	151.9	12.10	13.555	
2,200.0	2,200.0	2,212.5	2,210.4	5.8	6.2	25.35	141.2	66.9	156.6	144.2	12.45	12.576	
2,300.0	2,300.0	2,312.1	2,309.6	6.0	6.5	23.50	136.7	59.4	149.4	136.6	12.81	11.666	
2,400.0	2,400.0	2,411.7	2,408.9	6.1	6.7	21.47	132.2	52.0	142.4	129.3	13.16	10.822	
2,500.0	2,500.0	2,511.3	2,508.1	6.2	7.0	19.23	127.8	44.6	135.6	122.1	13.50	10.043	
2,600.0	2,600.0	2,610.9	2,607.3	6.3	7.3	16.75	123.3	37.1	129.0	115.2	13.82	9.332	
2,700.0	2,700.0	2,709.9	2,706.0	6.5	7.6	14.09	118.9	29.8	122.8	108.7	14.08	8.720	
2,800.0	2,800.0	2,808.2	2,804.0	6.6	7.9	11.68	115.3	23.8	117.9	103.5	14.38	8.198	
2,900.0	2,900.0	2,906.8	2,902.4	6.7	8.2	9.71	112.6	19.3	114.2	99.6	14.66	7.795	
3,000.0	3,000.0	3,005.4	3,001.0	6.8	8.5	8.30	110.7	16.1	111.9	96.9	14.93	7.493	
3,100.0	3,100.0	3,104.2	3,099.8	7.0	8.7	7.52	109.7	14.5	110.6	95.4	15.20	7.279	
3,193.3	3,193.3	3,196.7	3,192.3	7.1	8.8	7.37	109.5	14.2	110.4	95.0	15.36	7.187	
3,200.0	3,200.0	3,203.4	3,199.0	7.1	8.8	7.37	109.5	14.2	110.4	95.0	15.37	7.181	
3,300.0	3,300.0	3,303.4	3,299.0	7.2	8.9	7.37	109.5	14.2	110.4	94.8	15.58	7.088	
3,400.0	3,400.0	3,403.4	3,399.0	7.3	9.0	7.37	109.5	14.2	110.4	94.6	15.78	6.997	
3,500.0	3,500.0	3,503.4	3,499.0	7.4	9.1	7.37	109.5	14.2	110.4	94.4	15.98	6.909	
3,600.0	3,600.0	3,603.4	3,599.0	7.5	9.1	7.37	109.5	14.2	110.4	94.2	16.18	6.824	
3,700.0	3,700.0	3,703.4	3,699.0	7.7	9.2	7.37	109.5	14.2	110.4	94.0	16.38	6.741	
3,800.0	3,800.0	3,803.4	3,799.0	7.8	9.3	7.37	109.5	14.2	110.4	93.8	16.58	6.660	
3,900.0	3,900.0	3,903.4	3,899.0	7.9	9.4	7.37	109.5	14.2	110.4	93.6	16.77	6.582	
4,000.0	4,000.0	4,003.4	3,999.0	8.0	9.4	7.37	109.5	14.2	110.4	93.4	16.97	6.506	
4,100.0	4,100.0	4,103.4	4,099.0	8.1	9.5	7.37	109.5	14.2	110.4	93.2	17.17	6.432	
4,200.0	4,200.0	4,203.4	4,199.0	8.2	9.6	7.37	109.5	14.2	110.4	93.0	17.36	6.359	
4,300.0	4,300.0	4,303.4	4,299.0	8.3	9.7	7.37	109.5	14.2	110.4	92.9	17.56	6.289	
4,400.0	4,400.0	4,403.4	4,399.0	8.4	9.8	7.37	109.5	14.2	110.4	92.7	17.75	6.220	
4,500.0	4,500.0	4,503.4	4,499.0	8.6	9.8	7.37	109.5	14.2	110.4	92.5	17.94	6.154	
4,600.0	4,600.0	4,603.4	4,599.0	8.7	9.9	7.37	109.5	14.2	110.4	92.3	18.13	6.088	
4,700.0	4,700.0	4,703.4	4,699.0	8.8	10.0	7.37	109.5	14.2	110.4	92.1	18.33	6.025	
4,800.0	4,800.0	4,803.4	4,799.0	8.9	10.1	7.37	109.5	14.2	110.4	91.9	18.52	5.962	
4,900.0	4,900.0	4,903.4	4,899.0	9.0	10.1	7.37	109.5	14.2	110.4	91.7	18.71	5.902	
5,000.0	5,000.0	5,003.4	4,999.0	9.1	10.2	7.37	109.5	14.2	110.4	91.5	18.90	5.842	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,100.0	5,103.4	5,099.0	9.2	10.3	7.37	109.5	14.2	110.4	91.3	19.09	5.785		
5,200.0	5,200.0	5,203.4	5,199.0	9.3	10.4	7.37	109.5	14.2	110.4	91.1	19.28	5.728		
5,300.0	5,300.0	5,303.4	5,299.0	9.4	10.5	7.37	109.5	14.2	110.4	90.9	19.46	5.672		
5,400.0	5,400.0	5,403.4	5,399.0	9.5	10.5	7.37	109.5	14.2	110.4	90.8	19.65	5.618		
5,500.0	5,500.0	5,503.4	5,499.0	9.6	10.6	7.37	109.5	14.2	110.4	90.6	19.84	5.565		
5,600.0	5,600.0	5,603.4	5,599.0	9.7	10.7	7.37	109.5	14.2	110.4	90.4	20.03	5.513		
5,700.0	5,700.0	5,703.4	5,699.0	9.8	10.8	7.37	109.5	14.2	110.4	90.2	20.21	5.462		
5,800.0	5,800.0	5,803.4	5,799.0	9.9	10.9	7.37	109.5	14.2	110.4	90.0	20.40	5.413		
5,900.0	5,900.0	5,903.4	5,899.0	10.0	10.9	7.37	109.5	14.2	110.4	89.8	20.58	5.364		
6,000.0	6,000.0	6,003.4	5,999.0	10.1	11.0	7.37	109.5	14.2	110.4	89.6	20.77	5.316		
6,100.0	6,100.0	6,103.4	6,099.0	10.2	11.1	7.37	109.5	14.2	110.4	89.5	20.95	5.269		
6,200.0	6,200.0	6,203.4	6,199.0	10.3	11.2	7.37	109.5	14.2	110.4	89.3	21.14	5.223		
6,300.0	6,300.0	6,303.4	6,299.0	10.4	11.2	7.37	109.5	14.2	110.4	89.1	21.32	5.178		
6,400.0	6,400.0	6,403.4	6,399.0	10.5	11.3	7.37	109.5	14.2	110.4	88.9	21.50	5.134		
6,500.0	6,500.0	6,503.4	6,499.0	10.6	11.4	7.37	109.5	14.2	110.4	88.7	21.69	5.091		
6,600.0	6,600.0	6,603.4	6,599.0	10.7	11.5	7.37	109.5	14.2	110.4	88.5	21.87	5.048		
6,700.0	6,700.0	6,703.4	6,699.0	10.8	11.6	7.37	109.5	14.2	110.4	88.4	22.05	5.007		
6,800.0	6,800.0	6,803.4	6,799.0	10.9	11.6	7.37	109.5	14.2	110.4	88.2	22.24	4.966		
6,900.0	6,900.0	6,903.4	6,899.0	11.0	11.7	7.37	109.5	14.2	110.4	88.0	22.42	4.925		
7,000.0	7,000.0	7,003.4	6,999.0	11.1	11.8	7.37	109.5	14.2	110.4	87.8	22.60	4.886		
7,100.0	7,100.0	7,103.4	7,099.0	11.2	11.9	7.37	109.5	14.2	110.4	87.6	22.78	4.847		
7,200.0	7,200.0	7,203.4	7,199.0	11.3	12.0	7.37	109.5	14.2	110.4	87.5	22.96	4.809		
7,300.0	7,300.0	7,303.4	7,299.0	11.4	12.0	7.37	109.5	14.2	110.4	87.3	23.14	4.771		
7,400.0	7,400.0	7,403.4	7,399.0	11.5	12.1	7.37	109.5	14.2	110.4	87.1	23.32	4.734		
7,500.0	7,500.0	7,503.4	7,499.0	11.6	12.2	7.37	109.5	14.2	110.4	86.9	23.50	4.698		
7,600.0	7,600.0	7,603.4	7,599.0	11.7	12.3	7.37	109.5	14.2	110.4	86.7	23.68	4.663		
7,700.0	7,700.0	7,703.4	7,699.0	11.8	12.4	7.37	109.5	14.2	110.4	86.6	23.86	4.628		
7,800.0	7,800.0	7,803.4	7,799.0	11.9	12.4	7.37	109.5	14.2	110.4	86.4	24.04	4.593		
7,900.0	7,900.0	7,903.4	7,899.0	12.0	12.5	7.37	109.5	14.2	110.4	86.2	24.22	4.559		
8,000.0	8,000.0	8,003.4	7,999.0	12.1	12.6	7.37	109.5	14.2	110.4	86.0	24.40	4.526		
8,100.0	8,100.0	8,103.4	8,099.0	12.2	12.7	7.37	109.5	14.2	110.4	85.8	24.57	4.493		
8,200.0	8,200.0	8,203.4	8,199.0	12.3	12.7	7.37	109.5	14.2	110.4	85.7	24.75	4.461		
8,300.0	8,300.0	8,303.4	8,299.0	12.4	12.8	7.37	109.5	14.2	110.4	85.5	24.93	4.429		
8,400.0	8,400.0	8,403.4	8,399.0	12.5	12.9	7.37	109.5	14.2	110.4	85.3	25.11	4.398		
8,500.0	8,500.0	8,503.4	8,499.0	12.6	13.0	7.37	109.5	14.2	110.4	85.1	25.28	4.367		
8,600.0	8,600.0	8,603.4	8,599.0	12.7	13.1	7.37	109.5	14.2	110.4	84.9	25.46	4.336		
8,700.0	8,700.0	8,703.4	8,699.0	12.8	13.1	7.37	109.5	14.2	110.4	84.8	25.64	4.306		
8,800.0	8,800.0	8,803.4	8,799.0	12.9	13.2	7.37	109.5	14.2	110.4	84.6	25.82	4.277		
8,900.0	8,900.0	8,903.4	8,899.0	13.0	13.3	7.37	109.5	14.2	110.4	84.4	25.99	4.248		
9,000.0	9,000.0	9,003.4	8,999.0	13.0	13.4	7.37	109.5	14.2	110.4	84.2	26.17	4.219		
9,100.0	9,100.0	9,103.4	9,099.0	13.1	13.5	7.37	109.5	14.2	110.4	84.1	26.34	4.191		
9,200.0	9,200.0	9,203.4	9,199.0	13.2	13.5	7.37	109.5	14.2	110.4	83.9	26.52	4.163		
9,300.0	9,300.0	9,303.4	9,299.0	13.3	13.6	7.37	109.5	14.2	110.4	83.7	26.70	4.136		
9,400.0	9,400.0	9,403.4	9,399.0	13.4	13.7	7.37	109.5	14.2	110.4	83.5	26.87	4.109		
9,500.0	9,500.0	9,503.4	9,499.0	13.5	13.8	7.37	109.5	14.2	110.4	83.4	27.05	4.082		
9,600.0	9,600.0	9,603.4	9,599.0	13.6	13.9	7.37	109.5	14.2	110.4	83.2	27.22	4.056		
9,700.0	9,700.0	9,703.4	9,699.0	13.7	13.9	7.37	109.5	14.2	110.4	83.0	27.40	4.030		
9,800.0	9,800.0	9,803.4	9,799.0	13.8	14.0	7.37	109.5	14.2	110.4	82.8	27.57	4.005		
9,900.0	9,900.0	9,903.4	9,899.0	13.9	14.1	7.37	109.5	14.2	110.4	82.7	27.75	3.979		
10,000.0	10,000.0	10,003.4	9,999.0	14.0	14.2	7.37	109.5	14.2	110.4	82.5	27.92	3.955		
10,100.0	10,100.0	10,103.4	10,099.0	14.1	14.3	7.37	109.5	14.2	110.4	82.3	28.09	3.930		
10,200.0	10,200.0	10,203.4	10,199.0	14.2	14.3	7.37	109.5	14.2	110.4	82.1	28.27	3.906		

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11265-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 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)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.0	10,300.0	10,303.4	10,299.0	14.3	14.4	7.37	109.5	14.2	110.4	82.0	28.44	3.882		
10,400.0	10,400.0	10,403.4	10,399.0	14.4	14.5	7.37	109.5	14.2	110.4	81.8	28.62	3.858		
10,500.0	10,500.0	10,503.4	10,499.0	14.4	14.6	7.37	109.5	14.2	110.4	81.6	28.79	3.835		
10,600.0	10,600.0	10,603.4	10,599.0	14.5	14.7	7.37	109.5	14.2	110.4	81.4	28.96	3.812		
10,700.0	10,700.0	10,703.4	10,699.0	14.6	14.7	7.37	109.5	14.2	110.4	81.3	29.14	3.789		
10,800.0	10,800.0	10,803.4	10,799.0	14.7	14.8	7.37	109.5	14.2	110.4	81.1	29.31	3.767		
10,900.0	10,900.0	10,903.4	10,899.0	14.8	14.9	7.37	109.5	14.2	110.4	80.9	29.48	3.745		
11,000.0	11,000.0	11,003.4	10,999.0	14.9	15.0	7.37	109.5	14.2	110.4	80.8	29.66	3.723		
11,100.0	11,100.0	11,103.4	11,099.0	15.0	15.1	7.37	109.5	14.2	110.4	80.6	29.83	3.702		
11,200.0	11,200.0	11,203.4	11,199.0	15.1	15.1	7.37	109.5	14.2	110.4	80.4	30.00	3.680		
11,259.5	11,259.5	11,263.0	11,258.5	15.1	15.2	7.37	109.5	14.2	110.4	80.3	30.07	3.672	CC, ES, SF	
11,275.0	11,275.0	11,275.0	11,270.6	15.1	15.2	-170.79	109.6	14.2	110.8	80.9	29.88	3.709		
11,300.0	11,300.0	11,296.1	11,291.6	15.1	15.2	-170.90	110.5	14.2	113.3	83.4	29.97	3.782		
11,325.0	11,324.8	11,315.9	11,311.3	15.2	15.2	-171.10	112.2	14.1	118.2	88.0	30.14	3.921		
11,350.0	11,349.5	11,335.0	11,330.3	15.2	15.2	-171.34	114.6	14.1	125.3	94.9	30.38	4.123		
11,375.0	11,373.9	11,353.3	11,348.3	15.2	15.2	-171.61	117.6	14.1	134.5	103.8	30.67	4.385		
11,400.0	11,398.0	11,370.5	11,365.2	15.2	15.2	-171.87	121.1	14.1	145.8	114.7	31.01	4.700		
11,425.0	11,421.7	11,386.6	11,380.8	15.2	15.2	-172.10	124.9	14.0	158.9	127.5	31.38	5.064		
11,450.0	11,445.0	11,400.0	11,393.8	15.2	15.2	-172.23	128.5	14.0	173.8	142.0	31.86	5.456		
11,475.0	11,467.8	11,415.0	11,408.1	15.3	15.2	-172.39	132.9	14.0	190.3	158.2	32.15	5.920		
11,500.0	11,490.0	11,425.0	11,417.6	15.3	15.2	-172.34	136.1	13.9	208.3	175.6	32.68	6.374		
11,525.0	11,511.5	11,438.2	11,430.0	15.3	15.2	-172.37	140.6	13.9	227.5	194.6	32.90	6.915		
11,550.0	11,532.4	11,450.0	11,441.0	15.3	15.2	-172.31	144.9	13.8	247.9	214.8	33.12	7.484		
11,575.0	11,552.5	11,456.2	11,446.7	15.4	15.2	-171.92	147.3	13.8	269.2	235.6	33.57	8.020		
11,600.0	11,571.9	11,463.4	11,453.3	15.4	15.2	-171.47	150.1	13.8	291.4	257.5	33.85	8.607		
11,625.0	11,590.3	11,469.5	11,458.9	15.4	15.2	-170.79	152.6	13.8	314.3	280.2	34.11	9.213		
11,650.0	11,607.9	11,475.0	11,463.8	15.4	15.2	-169.82	154.9	13.8	337.7	303.4	34.32	9.842		
11,675.0	11,624.5	11,475.0	11,463.8	15.5	15.2	-167.82	154.9	13.8	361.7	327.1	34.69	10.428		
11,700.0	11,640.1	11,481.7	11,469.9	15.5	15.2	-165.79	157.8	13.7	386.1	351.4	34.69	11.129		
11,725.0	11,654.7	11,484.0	11,471.9	15.5	15.2	-161.40	158.8	13.7	410.7	375.9	34.82	11.794		
11,750.0	11,668.2	11,485.4	11,473.2	15.6	15.2	-151.99	159.5	13.7	435.5	400.6	34.92	12.471		
11,775.0	11,680.5	11,486.1	11,473.9	15.6	15.2	-124.06	159.8	13.7	460.4	425.5	35.00	13.157		
11,800.0	11,691.8	11,486.2	11,473.9	15.6	15.2	-57.61	159.8	13.7	485.4	450.4	35.04	13.853		
11,825.0	11,701.8	11,485.5	11,473.3	15.6	15.2	-26.04	159.5	13.7	510.4	475.3	35.06	14.556		
11,850.0	11,710.6	11,484.4	11,472.3	15.7	15.2	-15.71	159.0	13.7	535.2	500.2	35.06	15.265		
11,875.0	11,718.2	11,482.6	11,470.7	15.7	15.2	-10.98	158.2	13.7	559.9	524.9	35.04	15.981		
11,900.0	11,724.5	11,475.0	11,463.8	15.7	15.2	-7.97	154.9	13.8	584.5	549.3	35.14	16.631		
11,925.0	11,729.5	11,475.0	11,463.8	15.7	15.2	-6.52	154.9	13.8	608.7	573.7	35.00	17.390		
11,950.0	11,733.3	11,475.0	11,463.8	15.7	15.2	-5.49	154.9	13.8	632.6	597.8	34.84	18.158		
11,975.0	11,735.8	11,475.0	11,463.8	15.7	15.2	-4.72	154.9	13.8	656.2	621.5	34.66	18.935		
12,000.0	11,736.9	11,467.2	11,456.7	15.7	15.2	-4.00	151.7	13.8	679.4	644.7	34.64	19.612		
12,009.5	11,737.0	11,465.6	11,455.3	15.7	15.2	-3.80	151.0	13.8	688.1	653.5	34.59	19.892		
12,083.4	11,737.0	11,450.0	11,441.0	15.8	15.2	-0.30	144.9	13.8	755.9	721.6	34.35	22.006		
12,100.0	11,737.0	11,450.0	11,441.0	15.8	15.2	-0.30	144.9	13.8	771.2	737.0	34.23	22.528		
12,200.0	11,737.0	11,437.9	11,429.7	16.0	15.2	-0.29	140.5	13.9	864.2	830.4	33.86	25.522		
12,300.0	11,737.0	11,425.0	11,417.6	16.3	15.2	-0.28	136.1	13.9	958.2	924.6	33.61	28.512		

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11450-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	42.05	150.7	135.9	202.9	195.9	6.98	29.068		
100.0	100.0	99.0	99.0	3.1	3.1	42.05	150.7	135.9	202.9	195.7	7.22	28.088		
200.0	200.0	199.0	199.0	3.2	3.2	42.05	150.7	135.9	202.9	195.5	7.47	27.179		
300.0	300.0	299.0	299.0	3.4	3.4	42.05	150.7	135.9	202.9	195.2	7.70	26.346		
400.0	400.0	399.0	399.0	3.5	3.5	42.05	150.7	135.9	202.9	195.0	7.93	25.577		
500.0	500.0	499.0	499.0	3.6	3.6	42.05	150.7	135.9	202.9	194.8	8.16	24.862		
600.0	600.0	599.0	599.0	3.7	3.7	42.05	150.7	135.9	202.9	194.5	8.39	24.197		
700.0	700.0	699.0	699.0	3.9	3.9	42.05	150.7	135.9	202.9	194.3	8.61	23.574		
800.0	800.0	799.0	799.0	4.0	4.0	42.05	150.7	135.9	202.9	194.1	8.83	22.990		
900.0	900.0	899.0	899.0	4.1	4.1	42.05	150.7	135.9	202.9	193.9	9.04	22.441		
1,000.0	1,000.0	999.0	999.0	4.2	4.2	42.05	150.7	135.9	202.9	193.7	9.26	21.924		
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	42.05	150.7	135.9	202.9	193.5	9.47	21.434		
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	42.05	150.7	135.9	202.9	193.2	9.68	20.971		
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	42.05	150.7	135.9	202.9	193.0	9.88	20.531		
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	42.05	150.7	135.9	202.9	192.8	10.09	20.113		
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	42.05	150.7	135.9	202.9	192.6	10.29	19.715 CC, ES		
1,600.0	1,600.0	1,593.9	1,593.9	5.0	4.9	42.33	150.9	137.4	204.1	193.9	10.27	19.885		
1,700.0	1,700.0	1,688.6	1,688.5	5.1	5.0	43.17	151.4	142.1	207.9	197.3	10.60	19.608		
1,800.0	1,800.0	1,782.9	1,782.4	5.3	5.2	44.50	152.4	149.8	214.3	203.4	10.94	19.580		
1,900.0	1,900.0	1,881.3	1,880.3	5.4	5.5	46.15	153.6	159.9	222.5	211.3	11.27	19.746		
2,000.0	2,000.0	1,980.8	1,979.3	5.6	5.7	47.70	154.9	170.2	231.0	219.4	11.61	19.904		
2,100.0	2,100.0	2,080.2	2,078.2	5.7	5.9	49.14	156.2	180.6	239.6	227.7	11.96	20.039		
2,200.0	2,200.0	2,179.7	2,177.1	5.8	6.2	50.49	157.4	190.9	248.4	236.1	12.33	20.151		
2,300.0	2,300.0	2,279.2	2,276.0	6.0	6.5	51.74	158.7	201.2	257.3	244.6	12.71	20.243		
2,400.0	2,400.0	2,378.6	2,374.9	6.1	6.8	52.90	160.0	211.5	266.3	253.2	13.11	20.316		
2,500.0	2,500.0	2,478.1	2,473.8	6.2	7.1	53.99	161.2	221.8	275.4	261.9	13.52	20.372		
2,600.0	2,600.0	2,577.5	2,572.7	6.3	7.4	55.01	162.5	232.2	284.6	270.6	13.94	20.413		
2,700.0	2,700.0	2,677.0	2,671.6	6.5	7.7	55.97	163.8	242.5	293.9	279.5	14.38	20.441		
2,800.0	2,800.0	2,776.4	2,770.5	6.6	8.0	56.86	165.0	252.8	303.2	288.4	14.82	20.457		
2,900.0	2,900.0	2,875.9	2,869.4	6.7	8.4	57.70	166.3	263.1	312.7	297.4	15.28	20.464		
3,000.0	3,000.0	2,975.3	2,968.3	6.8	8.7	58.50	167.6	273.4	322.1	306.4	15.74	20.463		
3,100.0	3,100.0	3,074.8	3,067.2	7.0	9.0	59.25	168.8	283.7	331.7	315.5	16.22	20.455		
3,200.0	3,200.0	3,174.2	3,166.1	7.1	9.4	59.95	170.1	294.1	341.3	324.6	16.70	20.441		
3,300.0	3,300.0	3,273.7	3,265.1	7.2	9.8	60.62	171.4	304.4	350.9	333.8	17.18	20.422		
3,400.0	3,400.0	3,373.1	3,364.0	7.3	10.1	61.25	172.6	314.7	360.6	343.0	17.68	20.400		
3,500.0	3,500.0	3,472.6	3,462.9	7.4	10.5	61.85	173.9	325.0	370.4	352.2	18.18	20.375		
3,600.0	3,600.0	3,572.0	3,561.8	7.5	10.8	62.42	175.2	335.3	380.2	361.5	18.68	20.347		
3,700.0	3,700.0	3,671.5	3,660.7	7.7	11.2	62.96	176.4	345.7	390.0	370.8	19.19	20.317		
3,800.0	3,800.0	3,770.9	3,759.6	7.8	11.6	63.47	177.7	356.0	399.8	380.1	19.71	20.286		
3,900.0	3,900.0	3,870.4	3,858.5	7.9	11.9	63.96	179.0	366.3	409.7	389.5	20.23	20.254		
4,000.0	4,000.0	3,969.8	3,957.4	8.0	12.3	64.43	180.2	376.6	419.6	398.8	20.75	20.221		
4,100.0	4,100.0	4,069.3	4,056.3	8.1	12.7	64.87	181.5	386.9	429.5	408.2	21.28	20.188		
4,200.0	4,200.0	4,172.5	4,159.0	8.2	13.1	65.30	182.8	397.4	439.3	417.5	21.80	20.147		
4,300.0	4,300.0	4,280.1	4,266.1	8.3	13.5	65.66	183.9	406.6	447.5	425.1	22.35	20.023		
4,400.0	4,400.0	4,387.9	4,373.8	8.4	13.8	65.94	184.8	413.8	453.9	431.1	22.87	19.849		
4,500.0	4,500.0	4,496.1	4,481.8	8.6	14.2	66.13	185.4	419.1	458.6	435.2	23.36	19.634		
4,600.0	4,600.0	4,604.3	4,590.0	8.7	14.5	66.25	185.8	422.3	461.5	437.7	23.80	19.393		
4,700.0	4,700.0	4,712.7	4,698.3	8.8	14.7	66.29	186.0	423.5	462.5	438.4	24.14	19.163		
4,800.0	4,800.0	4,813.4	4,799.0	8.9	14.8	66.29	186.0	423.5	462.5	438.2	24.27	19.056		
4,900.0	4,900.0	4,913.4	4,899.0	9.0	14.8	66.29	186.0	423.5	462.5	438.1	24.41	18.946		
5,000.0	5,000.0	5,013.4	4,999.0	9.1	14.9	66.29	186.0	423.5	462.5	438.0	24.55	18.836		
5,100.0	5,100.0	5,113.4	5,099.0	9.2	15.0	66.29	186.0	423.5	462.5	437.8	24.70	18.727		

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11450-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,200.0	5,213.4	5,199.0	9.3	15.0	66.29	186.0	423.5	462.5	437.7	24.84	18.620	
5,300.0	5,300.0	5,313.4	5,299.0	9.4	15.1	66.29	186.0	423.5	462.5	437.5	24.98	18.513	
5,400.0	5,400.0	5,413.4	5,399.0	9.5	15.1	66.29	186.0	423.5	462.5	437.4	25.13	18.408	
5,500.0	5,500.0	5,513.4	5,499.0	9.6	15.2	66.29	186.0	423.5	462.5	437.2	25.27	18.303	
5,600.0	5,600.0	5,613.4	5,599.0	9.7	15.2	66.29	186.0	423.5	462.5	437.1	25.41	18.200	
5,700.0	5,700.0	5,713.4	5,699.0	9.8	15.3	66.29	186.0	423.5	462.5	437.0	25.56	18.098	
5,800.0	5,800.0	5,813.4	5,799.0	9.9	15.3	66.29	186.0	423.5	462.5	436.8	25.70	17.996	
5,900.0	5,900.0	5,913.4	5,899.0	10.0	15.4	66.29	186.0	423.5	462.5	436.7	25.84	17.896	
6,000.0	6,000.0	6,013.4	5,999.0	10.1	15.4	66.29	186.0	423.5	462.5	436.5	25.99	17.797	
6,100.0	6,100.0	6,113.4	6,099.0	10.2	15.5	66.29	186.0	423.5	462.5	436.4	26.13	17.698	
6,200.0	6,200.0	6,213.4	6,199.0	10.3	15.5	66.29	186.0	423.5	462.5	436.2	26.28	17.601	
6,300.0	6,300.0	6,313.4	6,299.0	10.4	15.6	66.29	186.0	423.5	462.5	436.1	26.42	17.504	
6,400.0	6,400.0	6,413.4	6,399.0	10.5	15.7	66.29	186.0	423.5	462.5	435.9	26.57	17.409	
6,500.0	6,500.0	6,513.4	6,499.0	10.6	15.7	66.29	186.0	423.5	462.5	435.8	26.71	17.314	
6,600.0	6,600.0	6,613.4	6,599.0	10.7	15.8	66.29	186.0	423.5	462.5	435.7	26.86	17.220	
6,700.0	6,700.0	6,713.4	6,699.0	10.8	15.8	66.29	186.0	423.5	462.5	435.5	27.00	17.127	
6,800.0	6,800.0	6,813.4	6,799.0	10.9	15.9	66.29	186.0	423.5	462.5	435.4	27.15	17.035	
6,900.0	6,900.0	6,913.4	6,899.0	11.0	15.9	66.29	186.0	423.5	462.5	435.2	27.30	16.944	
7,000.0	7,000.0	7,013.4	6,999.0	11.1	16.0	66.29	186.0	423.5	462.5	435.1	27.44	16.854	
7,100.0	7,100.0	7,113.4	7,099.0	11.2	16.0	66.29	186.0	423.5	462.5	434.9	27.59	16.764	
7,200.0	7,200.0	7,213.4	7,199.0	11.3	16.1	66.29	186.0	423.5	462.5	434.8	27.74	16.676	
7,300.0	7,300.0	7,313.4	7,299.0	11.4	16.2	66.29	186.0	423.5	462.5	434.6	27.88	16.588	
7,400.0	7,400.0	7,413.4	7,399.0	11.5	16.2	66.29	186.0	423.5	462.5	434.5	28.03	16.501	
7,500.0	7,500.0	7,513.4	7,499.0	11.6	16.3	66.29	186.0	423.5	462.5	434.3	28.18	16.415	
7,600.0	7,600.0	7,613.4	7,599.0	11.7	16.3	66.29	186.0	423.5	462.5	434.2	28.32	16.330	
7,700.0	7,700.0	7,713.4	7,699.0	11.8	16.4	66.29	186.0	423.5	462.5	434.0	28.47	16.245	
7,800.0	7,800.0	7,813.4	7,799.0	11.9	16.5	66.29	186.0	423.5	462.5	433.9	28.62	16.161	
7,900.0	7,900.0	7,913.4	7,899.0	12.0	16.5	66.29	186.0	423.5	462.5	433.7	28.77	16.079	
8,000.0	8,000.0	8,013.4	7,999.0	12.1	16.6	66.29	186.0	423.5	462.5	433.6	28.91	15.996	
8,100.0	8,100.0	8,113.4	8,099.0	12.2	16.6	66.29	186.0	423.5	462.5	433.5	29.06	15.915	
8,200.0	8,200.0	8,213.4	8,199.0	12.3	16.7	66.29	186.0	423.5	462.5	433.3	29.21	15.834	
8,300.0	8,300.0	8,313.4	8,299.0	12.4	16.7	66.29	186.0	423.5	462.5	433.2	29.36	15.754	
8,400.0	8,400.0	8,413.4	8,399.0	12.5	16.8	66.29	186.0	423.5	462.5	433.0	29.51	15.675	
8,500.0	8,500.0	8,513.4	8,499.0	12.6	16.9	66.29	186.0	423.5	462.5	432.9	29.65	15.597	
8,600.0	8,600.0	8,613.4	8,599.0	12.7	16.9	66.29	186.0	423.5	462.5	432.7	29.80	15.519	
8,700.0	8,700.0	8,713.4	8,699.0	12.8	17.0	66.29	186.0	423.5	462.5	432.6	29.95	15.442	
8,800.0	8,800.0	8,813.4	8,799.0	12.9	17.0	66.29	186.0	423.5	462.5	432.4	30.10	15.365	
8,900.0	8,900.0	8,913.4	8,899.0	13.0	17.1	66.29	186.0	423.5	462.5	432.3	30.25	15.290	
9,000.0	9,000.0	9,013.4	8,999.0	13.0	17.2	66.29	186.0	423.5	462.5	432.1	30.40	15.215	
9,100.0	9,100.0	9,113.4	9,099.0	13.1	17.2	66.29	186.0	423.5	462.5	432.0	30.55	15.140	
9,200.0	9,200.0	9,213.4	9,199.0	13.2	17.3	66.29	186.0	423.5	462.5	431.8	30.70	15.067	
9,300.0	9,300.0	9,313.4	9,299.0	13.3	17.3	66.29	186.0	423.5	462.5	431.7	30.85	14.994	
9,400.0	9,400.0	9,413.4	9,399.0	13.4	17.4	66.29	186.0	423.5	462.5	431.5	31.00	14.921	
9,500.0	9,500.0	9,513.4	9,499.0	13.5	17.5	66.29	186.0	423.5	462.5	431.4	31.15	14.850	
9,600.0	9,600.0	9,613.4	9,599.0	13.6	17.5	66.29	186.0	423.5	462.5	431.2	31.30	14.779	
9,700.0	9,700.0	9,713.4	9,699.0	13.7	17.6	66.29	186.0	423.5	462.5	431.1	31.45	14.708	
9,800.0	9,800.0	9,813.4	9,799.0	13.8	17.7	66.29	186.0	423.5	462.5	430.9	31.60	14.638	
9,900.0	9,900.0	9,913.4	9,899.0	13.9	17.7	66.29	186.0	423.5	462.5	430.8	31.75	14.569	
10,000.0	10,000.0	10,013.4	9,999.0	14.0	17.8	66.29	186.0	423.5	462.5	430.6	31.90	14.500	
10,100.0	10,100.0	10,113.4	10,099.0	14.1	17.8	66.29	186.0	423.5	462.5	430.5	32.05	14.432	
10,200.0	10,200.0	10,213.4	10,199.0	14.2	17.9	66.29	186.0	423.5	462.5	430.3	32.20	14.365	
10,300.0	10,300.0	10,313.4	10,299.0	14.3	18.0	66.29	186.0	423.5	462.5	430.2	32.35	14.298	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11450-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,400.0	10,400.0	10,413.4	10,399.0	14.4	18.0	66.29	186.0	423.5	462.5	430.0	32.50	14.232	
10,500.0	10,500.0	10,513.4	10,499.0	14.4	18.1	66.29	186.0	423.5	462.5	429.9	32.65	14.166	
10,600.0	10,600.0	10,613.4	10,599.0	14.5	18.2	66.29	186.0	423.5	462.5	429.7	32.80	14.101	
10,700.0	10,700.0	10,713.4	10,699.0	14.6	18.2	66.29	186.0	423.5	462.5	429.6	32.95	14.036	
10,800.0	10,800.0	10,813.4	10,799.0	14.7	18.3	66.29	186.0	423.5	462.5	429.4	33.10	13.972	
10,900.0	10,900.0	10,913.4	10,899.0	14.8	18.3	66.29	186.0	423.5	462.5	429.3	33.25	13.909	
11,000.0	11,000.0	11,013.4	10,999.0	14.9	18.4	66.29	186.0	423.5	462.5	429.1	33.40	13.846	
11,100.0	11,100.0	11,113.4	11,099.0	15.0	18.5	66.29	186.0	423.5	462.5	429.0	33.56	13.783	
11,200.0	11,200.0	11,213.4	11,199.0	15.1	18.5	66.29	186.0	423.5	462.5	428.8	33.71	13.721	
11,259.5	11,259.5	11,272.9	11,258.5	15.1	18.6	66.29	186.0	423.5	462.5	428.7	33.78	13.690 SF	
11,275.0	11,275.0	11,288.4	11,274.0	15.1	18.6	-111.88	186.0	423.5	462.6	428.9	33.67	13.740	
11,300.0	11,300.0	11,313.3	11,299.0	15.1	18.6	-111.99	186.0	423.5	463.2	429.5	33.68	13.750	
11,325.0	11,324.8	11,338.2	11,323.8	15.2	18.6	-112.18	186.0	423.5	464.2	430.5	33.70	13.776	
11,350.0	11,349.5	11,362.8	11,348.5	15.2	18.6	-112.47	186.0	423.5	465.8	432.1	33.70	13.821	
11,375.0	11,373.9	11,387.2	11,372.9	15.2	18.7	-112.83	186.0	423.5	467.9	434.2	33.70	13.883	
11,400.0	11,398.0	11,411.3	11,397.0	15.2	18.7	-113.25	186.0	423.5	470.5	436.8	33.69	13.967	
11,425.0	11,421.7	11,435.1	11,420.7	15.2	18.7	-113.73	186.0	423.5	473.8	440.1	33.67	14.073	
11,450.0	11,445.0	11,455.7	11,441.3	15.2	18.7	-114.13	186.0	423.5	477.8	444.2	33.56	14.237	
11,475.0	11,467.8	11,475.0	11,460.6	15.3	18.7	-114.53	186.6	423.5	482.7	449.2	33.53	14.397	
11,500.0	11,490.0	11,485.3	11,470.9	15.3	18.7	-114.45	187.3	423.5	488.7	455.2	33.53	14.576	
11,525.0	11,511.5	11,500.0	11,485.5	15.3	18.7	-114.58	188.6	423.4	495.8	462.3	33.51	14.796	
11,550.0	11,532.4	11,511.0	11,496.5	15.3	18.7	-114.41	189.9	423.4	504.1	470.6	33.51	15.040	
11,575.0	11,552.5	11,525.0	11,510.3	15.4	18.7	-114.39	191.9	423.4	513.5	480.0	33.49	15.331	
11,600.0	11,571.9	11,532.4	11,517.6	15.4	18.7	-113.73	193.1	423.4	524.1	490.5	33.53	15.632	
11,625.0	11,590.3	11,541.4	11,526.5	15.4	18.7	-113.08	194.7	423.4	535.8	502.2	33.54	15.973	
11,650.0	11,607.9	11,550.0	11,534.9	15.4	18.7	-112.24	196.4	423.4	548.6	515.0	33.56	16.348	
11,675.0	11,624.5	11,556.3	11,541.1	15.5	18.7	-111.02	197.8	423.4	562.5	528.9	33.59	16.744	
11,700.0	11,640.1	11,562.3	11,546.9	15.5	18.7	-109.56	199.2	423.3	577.3	543.7	33.62	17.171	
11,725.0	11,654.7	11,567.3	11,551.8	15.5	18.7	-107.80	200.4	423.3	593.1	559.5	33.65	17.625	
11,750.0	11,668.2	11,575.0	11,559.2	15.6	18.7	-106.14	202.3	423.3	609.8	576.1	33.63	18.129	
11,775.0	11,680.5	11,575.0	11,559.2	15.6	18.7	-103.33	202.3	423.3	627.2	593.5	33.71	18.606	
11,800.0	11,691.8	11,575.0	11,559.2	15.6	18.7	-100.25	202.3	423.3	645.3	611.5	33.76	19.110	
11,825.0	11,701.8	11,575.0	11,559.2	15.6	18.7	-96.91	202.3	423.3	663.9	630.1	33.81	19.640	
11,850.0	11,710.6	11,575.0	11,559.2	15.7	18.7	-93.33	202.3	423.3	683.1	649.3	33.83	20.194	
11,875.0	11,718.2	11,575.0	11,559.2	15.7	18.7	-89.54	202.3	423.3	702.7	668.9	33.83	20.771	
11,900.0	11,724.5	11,575.0	11,559.2	15.7	18.7	-85.58	202.3	423.3	722.7	688.9	33.82	21.369	
11,925.0	11,729.5	11,575.0	11,559.2	15.7	18.7	-81.50	202.3	423.3	742.9	709.1	33.79	21.987	
11,950.0	11,733.3	11,575.0	11,559.2	15.7	18.7	-77.37	202.3	423.3	763.2	729.5	33.74	22.623	
11,975.0	11,735.8	11,575.0	11,559.2	15.7	18.7	-73.23	202.3	423.3	783.7	750.0	33.67	23.276	
12,000.0	11,736.9	11,575.0	11,559.2	15.7	18.7	-69.16	202.3	423.3	804.2	770.6	33.59	23.942	
12,009.5	11,737.0	11,575.0	11,559.2	15.7	18.7	-67.63	202.3	423.3	812.0	778.5	33.55	24.200	
12,083.4	11,737.0	11,566.0	11,550.5	15.8	18.7	-65.73	200.0	423.3	873.9	840.5	33.42	26.150	
12,100.0	11,737.0	11,564.5	11,549.1	15.8	18.7	-65.56	199.7	423.3	888.2	854.8	33.39	26.602	
12,200.0	11,737.0	11,550.0	11,534.9	16.0	18.7	-63.95	196.4	423.4	975.6	942.3	33.28	29.316	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11314-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	50.25	133.9	161.0	209.4	202.5	6.98	30.002	
100.0	100.0	100.0	100.0	3.1	3.1	50.25	133.9	161.0	209.4	202.2	7.23	28.984	
200.0	200.0	200.0	200.0	3.2	3.2	50.25	133.9	161.0	209.4	202.0	7.47	28.056	
300.0	300.0	300.0	300.0	3.4	3.4	50.25	133.9	161.0	209.4	201.7	7.70	27.206	
400.0	400.0	400.0	400.0	3.5	3.5	50.25	133.9	161.0	209.4	201.5	7.93	26.422	
500.0	500.0	500.0	500.0	3.6	3.6	50.25	133.9	161.0	209.4	201.3	8.15	25.697	
600.0	600.0	600.0	600.0	3.7	3.7	50.25	133.9	161.0	209.4	201.1	8.37	25.022	
700.0	700.0	700.0	700.0	3.9	3.9	50.25	133.9	161.0	209.4	200.9	8.59	24.393	
800.0	800.0	800.0	800.0	4.0	4.0	50.25	133.9	161.0	209.4	200.6	8.80	23.804	
900.0	900.0	900.0	900.0	4.1	4.1	50.25	133.9	161.0	209.4	200.4	9.01	23.251	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	50.25	133.9	161.0	209.4	200.2	9.21	22.731	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	50.25	133.9	161.0	209.4	200.0	9.42	22.239	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	50.25	133.9	161.0	209.4	199.8	9.62	21.774	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	50.25	133.9	161.0	209.4	199.6	9.82	21.333	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	50.25	133.9	161.0	209.4	199.4	10.01	20.915	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	50.25	133.9	161.0	209.4	199.2	10.21	20.516 CC, ES	
1,600.0	1,600.0	1,594.3	1,594.3	5.0	4.9	50.49	134.1	162.6	210.8	200.6	10.19	20.687	
1,700.0	1,700.0	1,688.4	1,688.3	5.1	5.0	51.19	134.5	167.2	214.9	204.3	10.54	20.388	
1,800.0	1,800.0	1,782.1	1,781.6	5.3	5.2	52.30	135.1	174.9	221.8	210.9	10.89	20.355 SF	
1,900.0	1,900.0	1,875.2	1,874.1	5.4	5.5	53.73	136.1	185.5	231.5	220.2	11.26	20.566	
2,000.0	2,000.0	1,967.5	1,965.4	5.6	5.8	55.40	137.2	198.9	244.2	232.5	11.63	20.995	
2,100.0	2,100.0	2,063.5	2,060.0	5.7	6.1	57.22	138.7	215.4	259.3	247.3	12.01	21.588	
2,200.0	2,200.0	2,162.0	2,157.0	5.8	6.4	58.90	140.2	232.4	274.8	262.4	12.41	22.149	
2,300.0	2,300.0	2,260.5	2,254.0	6.0	6.6	60.41	141.7	249.4	290.5	277.7	12.83	22.651	
2,400.0	2,400.0	2,359.0	2,351.0	6.1	7.0	61.76	143.2	266.5	306.4	293.2	13.27	23.100	
2,500.0	2,500.0	2,457.5	2,448.0	6.2	7.3	62.97	144.6	283.5	322.5	308.8	13.72	23.500	
2,600.0	2,600.0	2,555.9	2,545.0	6.3	7.6	64.07	146.1	300.6	338.7	324.5	14.20	23.855	
2,700.0	2,700.0	2,654.4	2,641.9	6.5	8.0	65.07	147.6	317.6	355.0	340.3	14.69	24.170	
2,800.0	2,800.0	2,752.9	2,738.9	6.6	8.3	65.98	149.1	334.6	371.4	356.2	15.19	24.450	
2,900.0	2,900.0	2,851.4	2,835.9	6.7	8.7	66.82	150.6	351.7	387.9	372.2	15.70	24.699	
3,000.0	3,000.0	2,949.9	2,932.9	6.8	9.1	67.58	152.1	368.7	404.4	388.2	16.23	24.919	
3,100.0	3,100.0	3,048.3	3,029.9	7.0	9.4	68.29	153.6	385.7	421.1	404.3	16.77	25.116	
3,200.0	3,200.0	3,146.8	3,126.9	7.1	9.8	68.94	155.1	402.8	437.7	420.4	17.31	25.291	
3,300.0	3,300.0	3,245.3	3,223.9	7.2	10.2	69.55	156.6	419.8	454.5	436.6	17.86	25.447	
3,400.0	3,400.0	3,343.8	3,320.8	7.3	10.6	70.11	158.1	436.8	471.3	452.8	18.42	25.586	
3,500.0	3,500.0	3,442.3	3,417.8	7.4	11.0	70.63	159.6	453.9	488.1	469.1	18.98	25.711	
3,600.0	3,600.0	3,540.7	3,514.8	7.5	11.4	71.12	161.0	470.9	504.9	485.4	19.55	25.823	
3,700.0	3,700.0	3,639.2	3,611.8	7.7	11.8	71.58	162.5	488.0	521.8	501.7	20.13	25.923	
3,800.0	3,800.0	3,737.7	3,708.8	7.8	12.2	72.01	164.0	505.0	538.7	518.0	20.71	26.013	
3,900.0	3,900.0	3,836.2	3,805.8	7.9	12.6	72.41	165.5	522.0	555.7	534.4	21.29	26.095	
4,000.0	4,000.0	3,934.7	3,902.7	8.0	13.1	72.79	167.0	539.1	572.7	550.8	21.88	26.169	
4,100.0	4,100.0	4,033.2	3,999.7	8.1	13.5	73.14	168.5	556.1	589.7	567.2	22.48	26.235	
4,200.0	4,200.0	4,131.6	4,096.7	8.2	13.9	73.48	170.0	573.1	606.7	583.6	23.07	26.296	
4,300.0	4,300.0	4,230.1	4,193.7	8.3	14.3	73.80	171.5	590.2	623.7	600.0	23.67	26.350	
4,400.0	4,400.0	4,328.6	4,290.7	8.4	14.7	74.10	173.0	607.2	640.8	616.5	24.27	26.400	
4,500.0	4,500.0	4,427.1	4,387.7	8.6	15.2	74.39	174.5	624.2	657.8	632.9	24.87	26.445	
4,600.0	4,600.0	4,525.6	4,484.7	8.7	15.6	74.66	175.9	641.3	674.9	649.4	25.48	26.487	
4,700.0	4,700.0	4,624.0	4,581.6	8.8	16.0	74.92	177.4	658.3	692.0	665.9	26.08	26.534	
4,800.0	4,800.0	4,728.2	4,684.3	8.9	16.4	75.17	179.0	676.0	708.8	682.1	26.70	26.542	
4,900.0	4,900.0	4,833.4	4,788.1	9.0	16.9	75.40	180.5	692.8	724.6	697.3	27.35	26.499	
5,000.0	5,000.0	4,938.9	4,892.4	9.1	17.3	75.61	181.9	708.8	739.6	711.7	27.98	26.432	
5,100.0	5,100.0	5,044.7	4,997.1	9.2	17.8	75.80	183.2	723.9	753.7	725.1	28.61	26.344	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11314-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,200.0	5,150.7	5,102.2	9.3	18.2	75.97	184.4	738.0	766.9	737.7	29.23	26.236		
5,300.0	5,300.0	5,257.0	5,207.7	9.4	18.7	76.12	185.6	751.2	779.2	749.4	29.85	26.109		
5,400.0	5,400.0	5,363.6	5,313.5	9.5	19.1	76.26	186.6	763.4	790.6	760.2	30.45	25.966		
5,500.0	5,500.0	5,470.4	5,419.7	9.6	19.5	76.39	187.6	774.7	801.1	770.1	31.04	25.809		
5,600.0	5,600.0	5,577.3	5,526.1	9.7	19.9	76.50	188.5	785.0	810.7	779.1	31.62	25.637		
5,700.0	5,700.0	5,684.5	5,632.9	9.8	20.3	76.59	189.3	794.3	819.4	787.2	32.19	25.454		
5,800.0	5,800.0	5,791.8	5,739.9	9.9	20.7	76.68	190.1	802.7	827.1	794.3	32.74	25.260		
5,900.0	5,900.0	5,899.3	5,847.1	10.0	21.1	76.75	190.7	810.1	833.9	800.6	33.28	25.056		
6,000.0	6,000.0	6,006.9	5,954.5	10.1	21.5	76.81	191.3	816.4	839.8	806.0	33.80	24.845		
6,100.0	6,100.0	6,114.6	6,062.1	10.2	21.9	76.87	191.7	821.8	844.7	810.4	34.30	24.627		
6,200.0	6,200.0	6,222.4	6,169.8	10.3	22.2	76.91	192.1	826.2	848.8	814.0	34.78	24.405		
6,300.0	6,300.0	6,330.3	6,277.6	10.4	22.6	76.94	192.4	829.5	851.9	816.6	35.23	24.182		
6,400.0	6,400.0	6,438.2	6,385.5	10.5	22.9	76.96	192.6	831.9	854.0	818.4	35.64	23.961		
6,500.0	6,500.0	6,546.2	6,493.5	10.6	23.1	76.98	192.7	833.2	855.2	819.2	36.01	23.753		
6,600.0	6,600.0	6,652.7	6,600.0	10.7	23.3	76.98	192.8	833.6	855.6	819.3	36.23	23.614		
6,700.0	6,700.0	6,752.7	6,700.0	10.8	23.3	76.98	192.8	833.6	855.6	819.2	36.32	23.554		
6,800.0	6,800.0	6,852.7	6,800.0	10.9	23.3	76.98	192.8	833.6	855.6	819.1	36.42	23.489		
6,900.0	6,900.0	6,952.7	6,900.0	11.0	23.4	76.98	192.8	833.6	855.6	819.0	36.53	23.423		
7,000.0	7,000.0	7,052.7	7,000.0	11.1	23.4	76.98	192.8	833.6	855.6	818.9	36.63	23.358		
7,100.0	7,100.0	7,152.7	7,100.0	11.2	23.4	76.98	192.8	833.6	855.6	818.8	36.73	23.293		
7,200.0	7,200.0	7,252.7	7,200.0	11.3	23.5	76.98	192.8	833.6	855.6	818.7	36.83	23.228		
7,300.0	7,300.0	7,352.7	7,300.0	11.4	23.5	76.98	192.8	833.6	855.6	818.6	36.94	23.163		
7,400.0	7,400.0	7,452.7	7,400.0	11.5	23.5	76.98	192.8	833.6	855.6	818.5	37.04	23.098		
7,500.0	7,500.0	7,552.7	7,500.0	11.6	23.6	76.98	192.8	833.6	855.6	818.4	37.14	23.033		
7,600.0	7,600.0	7,652.7	7,600.0	11.7	23.6	76.98	192.8	833.6	855.6	818.3	37.25	22.969		
7,700.0	7,700.0	7,752.7	7,700.0	11.8	23.6	76.98	192.8	833.6	855.6	818.2	37.35	22.904		
7,800.0	7,800.0	7,852.7	7,800.0	11.9	23.7	76.98	192.8	833.6	855.6	818.1	37.46	22.840		
7,900.0	7,900.0	7,952.7	7,900.0	12.0	23.7	76.98	192.8	833.6	855.6	818.0	37.56	22.775		
8,000.0	8,000.0	8,052.7	8,000.0	12.1	23.8	76.98	192.8	833.6	855.6	817.9	37.67	22.711		
8,100.0	8,100.0	8,152.7	8,100.0	12.2	23.8	76.98	192.8	833.6	855.6	817.8	37.78	22.647		
8,200.0	8,200.0	8,252.7	8,200.0	12.3	23.8	76.98	192.8	833.6	855.6	817.7	37.88	22.583		
8,300.0	8,300.0	8,352.7	8,300.0	12.4	23.9	76.98	192.8	833.6	855.6	817.6	37.99	22.520		
8,400.0	8,400.0	8,452.7	8,400.0	12.5	23.9	76.98	192.8	833.6	855.6	817.5	38.10	22.456		
8,500.0	8,500.0	8,552.7	8,500.0	12.6	23.9	76.98	192.8	833.6	855.6	817.4	38.21	22.392		
8,600.0	8,600.0	8,652.7	8,600.0	12.7	24.0	76.98	192.8	833.6	855.6	817.2	38.32	22.329		
8,700.0	8,700.0	8,752.7	8,700.0	12.8	24.0	76.98	192.8	833.6	855.6	817.1	38.42	22.266		
8,800.0	8,800.0	8,852.7	8,800.0	12.9	24.0	76.98	192.8	833.6	855.6	817.0	38.53	22.203		
8,900.0	8,900.0	8,952.7	8,900.0	13.0	24.1	76.98	192.8	833.6	855.6	816.9	38.64	22.140		
9,000.0	9,000.0	9,052.7	9,000.0	13.0	24.1	76.98	192.8	833.6	855.6	816.8	38.75	22.077		
9,100.0	9,100.0	9,152.7	9,100.0	13.1	24.2	76.98	192.8	833.6	855.6	816.7	38.86	22.014		
9,200.0	9,200.0	9,252.7	9,200.0	13.2	24.2	76.98	192.8	833.6	855.6	816.6	38.97	21.952		
9,300.0	9,300.0	9,352.7	9,300.0	13.3	24.2	76.98	192.8	833.6	855.6	816.5	39.09	21.889		
9,400.0	9,400.0	9,452.7	9,400.0	13.4	24.3	76.98	192.8	833.6	855.6	816.4	39.20	21.827		
9,500.0	9,500.0	9,552.7	9,500.0	13.5	24.3	76.98	192.8	833.6	855.6	816.3	39.31	21.765		
9,600.0	9,600.0	9,652.7	9,600.0	13.6	24.4	76.98	192.8	833.6	855.6	816.1	39.42	21.703		
9,700.0	9,700.0	9,752.7	9,700.0	13.7	24.4	76.98	192.8	833.6	855.6	816.0	39.53	21.641		
9,800.0	9,800.0	9,852.7	9,800.0	13.8	24.4	76.98	192.8	833.6	855.6	815.9	39.65	21.580		
9,900.0	9,900.0	9,952.7	9,900.0	13.9	24.5	76.98	192.8	833.6	855.6	815.8	39.76	21.519		
10,000.0	10,000.0	10,052.7	10,000.0	14.0	24.5	76.98	192.8	833.6	855.6	815.7	39.87	21.457		
10,100.0	10,100.0	10,152.7	10,100.0	14.1	24.6	76.98	192.8	833.6	855.6	815.6	39.99	21.396		
10,200.0	10,200.0	10,252.7	10,200.0	14.2	24.6	76.98	192.8	833.6	855.6	815.5	40.10	21.335		
10,300.0	10,300.0	10,352.7	10,300.0	14.3	24.6	76.98	192.8	833.6	855.6	815.3	40.21	21.275		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11314-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.0	10,400.0	10,452.7	10,400.0	14.4	24.7	76.98	192.8	833.6	855.6	815.2	40.33	21.214		
10,500.0	10,500.0	10,552.7	10,500.0	14.4	24.7	76.98	192.8	833.6	855.6	815.1	40.44	21.154		
10,600.0	10,600.0	10,652.7	10,600.0	14.5	24.8	76.98	192.8	833.6	855.6	815.0	40.56	21.094		
10,700.0	10,700.0	10,752.7	10,700.0	14.6	24.8	76.98	192.8	833.6	855.6	814.9	40.68	21.034		
10,800.0	10,800.0	10,852.7	10,800.0	14.7	24.8	76.98	192.8	833.6	855.6	814.8	40.79	20.974		
10,900.0	10,900.0	10,952.7	10,900.0	14.8	24.9	76.98	192.8	833.6	855.6	814.7	40.91	20.914		
11,000.0	11,000.0	11,052.7	11,000.0	14.9	24.9	76.98	192.8	833.6	855.6	814.5	41.02	20.855		
11,100.0	11,100.0	11,152.7	11,100.0	15.0	25.0	76.98	192.8	833.6	855.6	814.4	41.14	20.795		
11,200.0	11,200.0	11,252.7	11,200.0	15.1	25.0	76.98	192.8	833.6	855.6	814.3	41.26	20.736		
11,259.5	11,259.5	11,312.2	11,259.5	15.1	25.0	76.98	192.8	833.6	855.6	814.2	41.31	20.708		
11,275.0	11,275.0	11,325.0	11,272.3	15.1	25.0	-101.18	192.9	833.6	855.6	814.5	41.11	20.814		
11,300.0	11,300.0	11,341.8	11,289.1	15.1	25.0	-101.24	193.6	833.6	856.1	815.0	41.14	20.813		
11,325.0	11,324.8	11,359.4	11,306.6	15.2	25.0	-101.34	194.9	833.5	857.1	816.0	41.15	20.827		
11,350.0	11,349.5	11,375.0	11,322.1	15.2	25.0	-101.44	196.6	833.5	858.6	817.4	41.18	20.852		
11,375.0	11,373.9	11,392.8	11,339.8	15.2	25.0	-101.61	199.2	833.5	860.6	819.4	41.18	20.896		
11,400.0	11,398.0	11,408.4	11,355.1	15.2	25.0	-101.75	202.0	833.5	863.1	821.9	41.19	20.953		
11,425.0	11,421.7	11,425.0	11,371.3	15.2	25.0	-101.94	205.6	833.4	866.2	825.0	41.19	21.031		
11,450.0	11,445.0	11,436.6	11,382.6	15.2	25.0	-101.93	208.4	833.4	870.0	828.8	41.20	21.116		
11,475.0	11,467.8	11,450.0	11,395.5	15.3	25.0	-101.96	211.9	833.4	874.4	833.2	41.20	21.225		
11,500.0	11,490.0	11,460.6	11,405.6	15.3	25.0	-101.83	215.0	833.4	879.6	838.4	41.20	21.348		
11,525.0	11,511.5	11,475.0	11,419.3	15.3	25.0	-101.83	219.6	833.3	885.4	844.3	41.17	21.506		
11,550.0	11,532.4	11,480.1	11,424.1	15.3	25.0	-101.30	221.3	833.3	892.0	850.8	41.19	21.657		
11,575.0	11,552.5	11,488.2	11,431.7	15.4	25.0	-100.83	224.1	833.3	899.4	858.2	41.18	21.841		
11,600.0	11,571.9	11,500.0	11,442.7	15.4	25.0	-100.51	228.5	833.2	907.5	866.4	41.13	22.064		
11,625.0	11,590.3	11,500.0	11,442.7	15.4	25.0	-99.39	228.5	833.2	916.3	875.2	41.15	22.266		
11,650.0	11,607.9	11,506.4	11,448.6	15.4	25.1	-98.56	230.9	833.2	925.9	884.8	41.12	22.516		
11,675.0	11,624.5	11,510.6	11,452.4	15.5	25.1	-97.48	232.6	833.2	936.2	895.1	41.10	22.781		
11,700.0	11,640.1	11,513.9	11,455.5	15.5	25.1	-96.25	233.9	833.2	947.1	906.1	41.06	23.065		
11,725.0	11,654.7	11,516.5	11,457.8	15.5	25.1	-94.85	235.0	833.2	958.7	917.7	41.03	23.368		
11,750.0	11,668.2	11,518.2	11,459.4	15.6	25.1	-93.30	235.7	833.2	970.9	929.9	40.98	23.690		
11,775.0	11,680.5	11,525.0	11,465.5	15.6	25.1	-91.99	238.5	833.1	983.7	942.8	40.88	24.059		
11,800.0	11,691.8	11,525.0	11,465.5	15.6	25.1	-90.12	238.5	833.1	996.9	956.0	40.83	24.414		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11557-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance		Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	57.82	117.2	186.2	220.0	213.0	6.98	31.518	
100.0	100.0	100.0	100.0	3.1	3.1	57.82	117.2	186.2	220.0	212.8	7.23	30.451	
200.0	200.0	200.0	200.0	3.2	3.2	57.82	117.2	186.2	220.0	212.6	7.46	29.481	
300.0	300.0	300.0	300.0	3.4	3.4	57.82	117.2	186.2	220.0	212.3	7.69	28.596	
400.0	400.0	400.0	400.0	3.5	3.5	57.82	117.2	186.2	220.0	212.1	7.92	27.782	
500.0	500.0	500.0	500.0	3.6	3.6	57.82	117.2	186.2	220.0	211.9	8.14	27.031	
600.0	600.0	600.0	600.0	3.7	3.7	57.82	117.2	186.2	220.0	211.7	8.36	26.334	
700.0	700.0	700.0	700.0	3.9	3.9	57.82	117.2	186.2	220.0	211.5	8.57	25.685	
800.0	800.0	800.0	800.0	4.0	4.0	57.82	117.2	186.2	220.0	211.3	8.77	25.079	
900.0	900.0	900.0	900.0	4.1	4.1	57.82	117.2	186.2	220.0	211.1	8.98	24.511	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	57.82	117.2	186.2	220.0	210.9	9.18	23.977	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	57.82	117.2	186.2	220.0	210.7	9.37	23.473	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	57.82	117.2	186.2	220.0	210.5	9.57	22.997	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	57.82	117.2	186.2	220.0	210.3	9.76	22.547	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	57.82	117.2	186.2	220.0	210.1	9.95	22.119	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	57.82	117.2	186.2	220.0	209.9	10.13	21.713 CC, ES	
1,600.0	1,600.0	1,593.7	1,593.7	5.0	4.9	58.01	117.3	187.8	221.5	211.3	10.12	21.882	
1,700.0	1,700.0	1,687.2	1,687.0	5.1	5.0	58.58	117.5	192.3	225.8	215.3	10.48	21.541	
1,800.0	1,800.0	1,780.2	1,779.8	5.3	5.2	59.47	117.9	199.9	233.0	222.1	10.85	21.478 SF	
1,900.0	1,900.0	1,872.7	1,871.7	5.4	5.5	60.62	118.4	210.4	243.1	231.9	11.22	21.671	
2,000.0	2,000.0	1,964.5	1,962.4	5.6	5.8	61.96	119.1	223.7	256.3	244.7	11.60	22.088	
2,100.0	2,100.0	2,055.2	2,051.8	5.7	6.1	63.42	120.0	239.8	272.4	260.4	12.00	22.708	
2,200.0	2,200.0	2,144.9	2,139.5	5.8	6.4	64.92	121.0	258.4	291.7	279.3	12.41	23.510	
2,300.0	2,300.0	2,236.7	2,228.7	6.0	6.7	66.45	122.1	280.1	313.8	300.9	12.83	24.447	
2,400.0	2,400.0	2,333.7	2,322.8	6.1	7.0	67.89	123.3	303.5	336.6	323.3	13.29	25.327	
2,500.0	2,500.0	2,430.8	2,417.0	6.2	7.4	69.15	124.6	327.0	359.6	345.8	13.77	26.119	
2,600.0	2,600.0	2,527.8	2,511.1	6.3	7.7	70.25	125.8	350.4	382.8	368.5	14.27	26.831	
2,700.0	2,700.0	2,624.8	2,605.3	6.5	8.1	71.23	127.0	373.8	406.0	391.3	14.78	27.471	
2,800.0	2,800.0	2,721.9	2,699.4	6.6	8.4	72.11	128.2	397.3	429.4	414.1	15.31	28.045	
2,900.0	2,900.0	2,818.9	2,793.6	6.7	8.8	72.90	129.5	420.7	452.9	437.0	15.86	28.562	
3,000.0	3,000.0	2,915.9	2,887.7	6.8	9.2	73.60	130.7	444.2	476.4	460.0	16.41	29.026	
3,100.0	3,100.0	3,012.9	2,981.9	7.0	9.6	74.24	131.9	467.6	500.0	483.0	16.98	29.445	
3,200.0	3,200.0	3,110.0	3,076.0	7.1	10.0	74.83	133.2	491.1	523.7	506.1	17.56	29.823	
3,300.0	3,300.0	3,207.0	3,170.1	7.2	10.4	75.36	134.4	514.5	547.4	529.2	18.15	30.165	
3,400.0	3,400.0	3,304.0	3,264.3	7.3	10.8	75.85	135.6	537.9	571.1	552.4	18.74	30.475	
3,500.0	3,500.0	3,401.1	3,358.4	7.4	11.2	76.30	136.8	561.4	594.9	575.6	19.34	30.756	
3,600.0	3,600.0	3,498.1	3,452.6	7.5	11.6	76.72	138.1	584.8	618.7	598.8	19.95	31.011	
3,700.0	3,700.0	3,595.1	3,546.7	7.7	12.1	77.10	139.3	608.3	642.6	622.0	20.57	31.244	
3,800.0	3,800.0	3,692.1	3,640.9	7.8	12.5	77.46	140.5	631.7	666.4	645.2	21.19	31.457	
3,900.0	3,900.0	3,789.2	3,735.0	7.9	12.9	77.79	141.8	655.1	690.3	668.5	21.81	31.651	
4,000.0	4,000.0	3,886.2	3,829.2	8.0	13.4	78.10	143.0	678.6	714.2	691.8	22.44	31.830	
4,100.0	4,100.0	3,983.2	3,923.3	8.1	13.8	78.39	144.2	702.0	738.1	715.1	23.07	31.994	
4,200.0	4,200.0	4,080.3	4,017.5	8.2	14.3	78.66	145.4	725.5	762.1	738.4	23.71	32.145	
4,300.0	4,300.0	4,177.3	4,111.6	8.3	14.7	78.92	146.7	748.9	786.0	761.7	24.35	32.284	
4,400.0	4,400.0	4,274.3	4,205.8	8.4	15.1	79.16	147.9	772.3	810.0	785.0	24.99	32.413	
4,500.0	4,500.0	4,371.4	4,299.9	8.6	15.6	79.39	149.1	795.8	834.0	808.4	25.64	32.532	
4,600.0	4,600.0	4,468.4	4,394.1	8.7	16.0	79.60	150.4	819.2	858.0	831.7	26.28	32.642	
4,700.0	4,700.0	4,565.4	4,488.2	8.8	16.5	79.80	151.6	842.7	882.0	855.1	26.94	32.745	
4,800.0	4,800.0	4,662.4	4,582.4	8.9	16.9	79.99	152.8	866.1	906.0	878.4	27.59	32.840	
4,900.0	4,900.0	4,759.5	4,676.5	9.0	17.4	80.18	154.0	889.6	930.0	901.8	28.24	32.928	
5,000.0	5,000.0	4,856.5	4,770.7	9.1	17.9	80.35	155.3	913.0	954.1	925.2	28.90	33.011	
5,100.0	5,100.0	4,953.5	4,864.8	9.2	18.3	80.51	156.5	936.4	978.1	948.6	29.56	33.088	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11185-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	64.61	100.3	211.3	233.9	226.9	6.98	33.500	
100.0	100.0	100.0	100.0	3.1	3.1	64.61	100.3	211.3	233.9	226.6	7.23	32.367	
200.0	200.0	200.0	200.0	3.2	3.2	64.61	100.3	211.3	233.9	226.4	7.46	31.341	
300.0	300.0	300.0	300.0	3.4	3.4	64.61	100.3	211.3	233.9	226.2	7.69	30.407	
400.0	400.0	400.0	400.0	3.5	3.5	64.61	100.3	211.3	233.9	225.9	7.91	29.550	
500.0	500.0	500.0	500.0	3.6	3.6	64.61	100.3	211.3	233.9	225.7	8.13	28.761	
600.0	600.0	600.0	600.0	3.7	3.7	64.61	100.3	211.3	233.9	225.5	8.34	28.030	
700.0	700.0	700.0	700.0	3.9	3.9	64.61	100.3	211.3	233.9	225.3	8.55	27.351	
800.0	800.0	800.0	800.0	4.0	4.0	64.61	100.3	211.3	233.9	225.1	8.75	26.717	
900.0	900.0	900.0	900.0	4.1	4.1	64.61	100.3	211.3	233.9	224.9	8.95	26.124	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	64.61	100.3	211.3	233.9	224.7	9.15	25.568	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	64.61	100.3	211.3	233.9	224.5	9.34	25.044	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	64.61	100.3	211.3	233.9	224.3	9.53	24.549	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	64.61	100.3	211.3	233.9	224.2	9.71	24.081	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	64.61	100.3	211.3	233.9	224.0	9.89	23.638	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	64.61	100.3	211.3	233.9	223.8	10.07	23.216 CC, ES	
1,600.0	1,600.0	1,593.0	1,593.0	5.0	4.9	64.77	100.3	212.8	235.3	225.3	10.06	23.383	
1,700.0	1,700.0	1,685.9	1,685.8	5.1	5.0	65.21	100.4	217.3	239.8	229.4	10.43	22.985	
1,800.0	1,800.0	1,778.4	1,777.9	5.3	5.2	65.91	100.5	224.8	247.2	236.4	10.81	22.876 SF	
1,900.0	1,900.0	1,870.2	1,869.2	5.4	5.5	66.82	100.7	235.2	257.7	246.5	11.19	23.033	
2,000.0	2,000.0	1,961.4	1,959.4	5.6	5.8	67.89	100.9	248.3	271.1	259.5	11.58	23.419	
2,100.0	2,100.0	2,051.6	2,048.2	5.7	6.1	69.04	101.2	264.2	287.6	275.6	11.98	24.013	
2,200.0	2,200.0	2,140.7	2,135.3	5.8	6.4	70.24	101.5	282.6	307.2	294.8	12.39	24.791	
2,300.0	2,300.0	2,228.5	2,220.7	6.0	6.7	71.44	101.9	303.4	329.7	316.9	12.81	25.732	
2,400.0	2,400.0	2,316.8	2,305.8	6.1	7.1	72.62	102.3	326.9	355.2	342.0	13.25	26.805	
2,500.0	2,500.0	2,412.9	2,398.2	6.2	7.4	73.79	102.7	353.4	381.8	368.1	13.73	27.803	
2,600.0	2,600.0	2,509.0	2,490.6	6.3	7.7	74.80	103.2	379.8	408.5	394.3	14.23	28.700	
2,700.0	2,700.0	2,605.2	2,583.0	6.5	8.1	75.69	103.7	406.3	435.4	420.6	14.76	29.506	
2,800.0	2,800.0	2,701.3	2,675.4	6.6	8.4	76.47	104.1	432.8	462.3	447.0	15.29	30.228	
2,900.0	2,900.0	2,797.4	2,767.8	6.7	8.8	77.17	104.6	459.3	489.3	473.4	15.85	30.877	
3,000.0	3,000.0	2,893.5	2,860.2	6.8	9.2	77.80	105.1	485.8	516.3	499.9	16.41	31.461	
3,100.0	3,100.0	2,989.7	2,952.6	7.0	9.6	78.36	105.5	512.3	543.4	526.4	16.99	31.986	
3,200.0	3,200.0	3,085.8	3,045.0	7.1	10.0	78.87	106.0	538.8	570.6	553.0	17.58	32.460	
3,300.0	3,300.0	3,181.9	3,137.4	7.2	10.4	79.34	106.4	565.3	597.8	579.6	18.18	32.889	
3,400.0	3,400.0	3,278.0	3,229.8	7.3	10.8	79.76	106.9	591.8	625.0	606.2	18.78	33.276	
3,500.0	3,500.0	3,374.2	3,322.2	7.4	11.2	80.15	107.4	618.3	652.2	632.8	19.40	33.628	
3,600.0	3,600.0	3,470.3	3,414.6	7.5	11.7	80.51	107.8	644.8	679.5	659.5	20.02	33.948	
3,700.0	3,700.0	3,566.4	3,507.0	7.7	12.1	80.84	108.3	671.3	706.8	686.2	20.64	34.239	
3,800.0	3,800.0	3,662.5	3,599.4	7.8	12.5	81.14	108.8	697.8	734.1	712.8	21.28	34.505	
3,900.0	3,900.0	3,758.7	3,691.8	7.9	13.0	81.42	109.2	724.2	761.4	739.5	21.91	34.748	
4,000.0	4,000.0	3,854.8	3,784.2	8.0	13.4	81.69	109.7	750.7	788.8	766.2	22.56	34.971	
4,100.0	4,100.0	3,950.9	3,876.6	8.1	13.9	81.93	110.1	777.2	816.2	793.0	23.20	35.175	
4,200.0	4,200.0	4,047.1	3,969.0	8.2	14.3	82.16	110.6	803.7	843.5	819.7	23.85	35.363	
4,300.0	4,300.0	4,143.2	4,061.4	8.3	14.8	82.38	111.1	830.2	870.9	846.4	24.51	35.536	
4,400.0	4,400.0	4,239.3	4,153.8	8.4	15.2	82.58	111.5	856.7	898.3	873.2	25.17	35.696	
4,500.0	4,500.0	4,335.4	4,246.2	8.6	15.7	82.77	112.0	883.2	925.7	899.9	25.83	35.844	
4,600.0	4,600.0	4,431.6	4,338.6	8.7	16.1	82.95	112.5	909.7	953.1	926.7	26.49	35.981	
4,700.0	4,700.0	4,527.7	4,431.0	8.8	16.6	83.12	112.9	936.2	980.6	953.4	27.16	36.108	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11379-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-56.10	33.6	-50.0	60.3	53.3	6.98	8.638	
100.0	100.0	98.0	98.0	3.1	3.1	-56.10	33.6	-50.0	60.2	53.0	7.22	8.342	
200.0	200.0	198.0	198.0	3.2	3.2	-56.10	33.6	-50.0	60.2	52.8	7.46	8.074	
300.0	300.0	298.0	298.0	3.4	3.4	-56.10	33.6	-50.0	60.2	52.5	7.69	7.831	
400.0	400.0	398.0	398.0	3.5	3.5	-56.10	33.6	-50.0	60.2	52.3	7.92	7.607	
500.0	500.0	498.0	498.0	3.6	3.6	-56.10	33.6	-50.0	60.2	52.1	8.14	7.401	
600.0	600.0	598.0	598.0	3.7	3.7	-56.10	33.6	-50.0	60.2	51.9	8.36	7.209	
700.0	700.0	698.0	698.0	3.9	3.9	-56.10	33.6	-50.0	60.2	51.7	8.57	7.030	
800.0	800.0	798.0	798.0	4.0	4.0	-56.10	33.6	-50.0	60.2	51.5	8.78	6.864	
900.0	900.0	898.0	898.0	4.1	4.1	-56.10	33.6	-50.0	60.2	51.3	8.98	6.707	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	-56.10	33.6	-50.0	60.2	51.1	9.18	6.560	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	-56.10	33.6	-50.0	60.2	50.9	9.38	6.421	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	-56.10	33.6	-50.0	60.2	50.7	9.58	6.290	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	-56.10	33.6	-50.0	60.2	50.5	9.77	6.166	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	-56.10	33.6	-50.0	60.2	50.3	9.96	6.048	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	-56.10	33.6	-50.0	60.2	50.1	10.15	5.936 CC, ES	
1,600.0	1,600.0	1,597.5	1,597.5	5.0	5.0	-57.63	32.5	-51.2	60.6	50.6	10.06	6.027	
1,700.0	1,700.0	1,696.8	1,696.6	5.1	5.2	-62.18	29.0	-54.9	62.1	51.8	10.34	6.012	
1,800.0	1,800.0	1,795.5	1,795.0	5.3	5.4	-69.21	23.2	-61.1	65.5	54.8	10.62	6.165	
1,900.0	1,900.0	1,893.6	1,892.4	5.4	5.7	-77.72	15.2	-69.7	71.6	60.6	10.95	6.537	
2,000.0	2,000.0	1,990.8	1,988.4	5.6	6.0	-86.45	5.0	-80.7	81.4	70.0	11.36	7.165	
2,100.0	2,100.0	2,086.8	2,082.7	5.7	6.3	-94.42	-7.2	-93.8	95.3	83.5	11.83	8.055	
2,200.0	2,200.0	2,181.5	2,175.1	5.8	6.7	-101.12	-21.4	-109.0	113.4	101.1	12.34	9.191	
2,300.0	2,300.0	2,277.9	2,268.7	6.0	7.0	-106.49	-37.3	-126.0	134.7	121.8	12.86	10.471	
2,400.0	2,400.0	2,375.0	2,362.8	6.1	7.3	-110.42	-53.3	-143.2	156.8	143.4	13.38	11.716	
2,500.0	2,500.0	2,472.0	2,457.0	6.2	7.6	-113.38	-69.3	-160.4	179.5	165.5	13.91	12.899	
2,600.0	2,600.0	2,569.0	2,551.1	6.3	8.0	-115.67	-85.3	-177.5	202.5	188.0	14.45	14.011	
2,700.0	2,700.0	2,666.1	2,645.3	6.5	8.3	-117.50	-101.3	-194.7	225.7	210.7	15.00	15.050	
2,800.0	2,800.0	2,763.1	2,739.4	6.6	8.7	-118.98	-117.3	-211.9	249.2	233.6	15.56	16.018	
2,900.0	2,900.0	2,860.1	2,833.6	6.7	9.0	-120.21	-133.3	-229.0	272.7	256.6	16.12	16.918	
3,000.0	3,000.0	2,957.1	2,927.7	6.8	9.4	-121.24	-149.4	-246.2	296.4	279.7	16.70	17.754	
3,100.0	3,100.0	3,054.2	3,021.9	7.0	9.8	-122.12	-165.4	-263.4	320.2	302.9	17.28	18.530	
3,200.0	3,200.0	3,151.2	3,116.0	7.1	10.2	-122.88	-181.4	-280.5	344.0	326.1	17.87	19.252	
3,300.0	3,300.0	3,248.2	3,210.2	7.2	10.6	-123.55	-197.4	-297.7	367.8	349.4	18.46	19.922	
3,400.0	3,400.0	3,345.3	3,304.3	7.3	11.0	-124.13	-213.4	-314.9	391.7	372.7	19.07	20.546	
3,500.0	3,500.0	3,442.3	3,398.4	7.4	11.5	-124.64	-229.4	-332.0	415.7	396.0	19.67	21.128	
3,600.0	3,600.0	3,539.3	3,492.6	7.5	11.9	-125.10	-245.4	-349.2	439.6	419.3	20.29	21.670	
3,700.0	3,700.0	3,636.4	3,586.7	7.7	12.3	-125.51	-261.4	-366.4	463.6	442.7	20.91	22.176	
3,800.0	3,800.0	3,733.4	3,680.9	7.8	12.7	-125.88	-277.4	-383.5	487.6	466.1	21.53	22.649	
3,900.0	3,900.0	3,830.4	3,775.0	7.9	13.2	-126.22	-293.4	-400.7	511.7	489.5	22.16	23.093	
4,000.0	4,000.0	3,927.4	3,869.2	8.0	13.6	-126.52	-309.4	-417.9	535.7	512.9	22.79	23.508	
4,100.0	4,100.0	4,024.5	3,963.3	8.1	14.1	-126.80	-325.5	-435.0	559.7	536.3	23.42	23.898	
4,200.0	4,200.0	4,121.5	4,057.5	8.2	14.5	-127.06	-341.5	-452.2	583.8	559.8	24.06	24.265	
4,300.0	4,300.0	4,218.5	4,151.6	8.3	14.9	-127.29	-357.5	-469.4	607.9	583.2	24.70	24.610	
4,400.0	4,400.0	4,315.6	4,245.8	8.4	15.4	-127.51	-373.5	-486.5	632.0	606.6	25.35	24.935	
4,500.0	4,500.0	4,412.6	4,339.9	8.6	15.8	-127.71	-389.5	-503.7	656.1	630.1	25.99	25.241	
4,600.0	4,600.0	4,509.6	4,434.1	8.7	16.3	-127.90	-405.5	-520.9	680.2	653.5	26.64	25.531	
4,700.0	4,700.0	4,606.6	4,528.2	8.8	16.7	-128.08	-421.5	-538.0	704.3	677.0	27.29	25.805	
4,800.0	4,800.0	4,703.7	4,622.4	8.9	17.2	-128.24	-437.5	-555.2	728.4	700.4	27.94	26.065	
4,900.0	4,900.0	4,800.7	4,716.5	9.0	17.6	-128.39	-453.5	-572.4	752.5	723.9	28.60	26.311	
5,000.0	5,000.0	4,897.7	4,810.7	9.1	18.1	-128.54	-469.5	-589.5	776.6	747.4	29.26	26.544	
5,100.0	5,100.0	4,994.8	4,904.8	9.2	18.5	-128.67	-485.5	-606.7	800.7	770.8	29.92	26.766	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11379-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,200.0	5,091.8	4,999.0	9.3	19.0	-128.80	-501.6	-623.9	824.9	794.3	30.58	26.977	
5,300.0	5,300.0	5,188.8	5,093.1	9.4	19.5	-128.92	-517.6	-641.0	849.0	817.8	31.24	27.178	
5,400.0	5,400.0	5,285.9	5,187.2	9.5	19.9	-129.03	-533.6	-658.2	873.1	841.2	31.90	27.369	
5,500.0	5,500.0	5,382.9	5,281.4	9.6	20.4	-129.14	-549.6	-675.4	897.3	864.7	32.57	27.552	
5,600.0	5,600.0	5,479.9	5,375.5	9.7	20.8	-129.24	-565.6	-692.6	921.4	888.2	33.23	27.726	
5,700.0	5,700.0	5,581.0	5,473.7	9.8	21.3	-129.34	-582.2	-710.4	945.5	911.6	33.91	27.883	
5,800.0	5,800.0	5,697.9	5,587.5	9.9	21.8	-129.44	-600.4	-729.9	968.3	933.6	34.70	27.906	
5,900.0	5,900.0	5,815.8	5,702.8	10.0	22.4	-129.53	-617.1	-747.8	989.0	953.5	35.47	27.885	
11,775.0	11,680.5	11,584.7	11,457.9	15.6	27.7	64.30	-737.8	-830.2	993.7	948.4	45.36	21.908	
11,800.0	11,691.8	11,600.0	11,471.7	15.6	27.7	65.70	-744.4	-830.2	986.1	940.8	45.30	21.767	
11,825.0	11,701.8	11,600.0	11,471.7	15.6	27.7	66.60	-744.4	-830.2	978.4	933.1	45.29	21.602	
11,850.0	11,710.6	11,612.6	11,482.9	15.7	27.7	67.99	-750.2	-830.1	970.5	925.3	45.22	21.463	
11,875.0	11,718.2	11,625.0	11,493.7	15.7	27.7	69.43	-756.2	-830.1	962.6	917.5	45.13	21.328	
11,900.0	11,724.5	11,625.0	11,493.7	15.7	27.7	70.37	-756.2	-830.1	954.7	909.6	45.07	21.184	
11,925.0	11,729.5	11,639.4	11,506.2	15.7	27.7	71.96	-763.5	-830.1	946.8	901.8	44.95	21.064	
11,950.0	11,733.3	11,650.0	11,515.2	15.7	27.7	73.40	-769.1	-830.0	938.9	894.1	44.82	20.948	
11,975.0	11,735.8	11,656.6	11,520.7	15.7	27.8	74.66	-772.6	-830.0	931.2	886.5	44.69	20.838	
12,000.0	11,736.9	11,664.8	11,527.6	15.7	27.8	76.01	-777.2	-830.0	923.6	879.0	44.53	20.739	
12,009.5	11,737.0	11,667.9	11,530.1	15.7	27.8	76.52	-779.0	-830.0	920.7	876.2	44.47	20.705	
12,083.4	11,737.0	11,693.7	11,550.9	15.8	27.8	77.76	-794.2	-829.9	900.0	856.0	43.95	20.477	
12,100.0	11,737.0	11,700.0	11,555.8	15.8	27.8	78.07	-798.1	-829.8	895.7	851.9	43.83	20.438	
12,200.0	11,737.0	11,743.3	11,588.4	16.0	27.8	80.20	-826.5	-829.6	874.4	831.3	43.06	20.305	
12,300.0	11,737.0	11,796.5	11,624.8	16.3	27.8	82.60	-865.4	-829.4	860.4	818.0	42.35	20.318	
12,400.0	11,737.0	11,861.8	11,663.1	16.6	27.9	85.16	-918.2	-829.1	852.5	810.7	41.81	20.390	
12,500.0	11,737.0	11,940.6	11,699.3	16.9	27.9	87.59	-988.1	-828.6	849.2	807.6	41.59	20.417	
12,600.0	11,737.0	12,031.7	11,726.1	17.3	28.0	89.40	-1,075.0	-828.0	848.3	806.6	41.75	20.317	
12,667.5	11,737.0	12,098.0	11,735.0	17.6	28.0	90.00	-1,140.7	-827.6	848.3	806.2	42.05	20.171	
12,700.0	11,737.0	12,130.5	11,736.0	17.7	28.0	90.07	-1,173.2	-827.4	848.3	806.0	42.23	20.086	
12,800.0	11,737.0	12,230.5	11,736.0	18.1	28.1	90.07	-1,273.2	-826.7	848.3	805.4	42.84	19.799	
12,900.0	11,737.0	12,330.5	11,736.0	18.6	28.2	90.07	-1,373.2	-826.1	848.3	804.8	43.50	19.499	
13,000.0	11,737.0	12,430.5	11,736.0	19.0	28.3	90.07	-1,473.2	-825.4	848.3	804.1	44.20	19.190	
13,100.0	11,737.0	12,530.5	11,736.0	19.5	28.4	90.07	-1,573.2	-824.8	848.3	803.3	44.94	18.874	
13,200.0	11,737.0	12,630.5	11,736.0	20.0	28.6	90.07	-1,673.2	-824.1	848.3	802.5	45.72	18.552	
13,300.0	11,737.0	12,730.5	11,736.0	20.5	28.8	90.07	-1,773.2	-823.5	848.3	801.7	46.54	18.228	
13,400.0	11,737.0	12,830.5	11,736.0	21.0	28.9	90.07	-1,873.2	-822.8	848.3	800.9	47.39	17.901	
13,500.0	11,737.0	12,930.5	11,736.0	21.6	29.1	90.07	-1,973.2	-822.2	848.3	800.0	48.27	17.574	
13,600.0	11,737.0	13,030.5	11,736.0	22.1	29.4	90.07	-2,073.2	-821.5	848.3	799.1	49.18	17.248	
13,700.0	11,737.0	13,130.5	11,736.0	22.7	29.6	90.07	-2,173.2	-820.9	848.3	798.2	50.12	16.924	
13,800.0	11,737.0	13,230.5	11,736.0	23.3	29.9	90.07	-2,273.2	-820.2	848.3	797.2	51.09	16.603	
13,900.0	11,737.0	13,330.5	11,736.0	23.9	30.1	90.07	-2,373.1	-819.6	848.3	796.2	52.08	16.286	
14,000.0	11,737.0	13,430.5	11,736.0	24.5	30.4	90.07	-2,473.1	-818.9	848.3	795.2	53.10	15.974	
14,100.0	11,737.0	13,530.5	11,736.0	25.1	30.8	90.07	-2,573.1	-818.3	848.3	794.1	54.14	15.667	
14,200.0	11,737.0	13,630.5	11,736.0	25.7	31.1	90.07	-2,673.1	-817.6	848.3	793.1	55.21	15.365	
14,300.0	11,737.0	13,730.5	11,736.0	26.3	31.5	90.07	-2,773.1	-817.0	848.3	792.0	56.29	15.069	
14,400.0	11,737.0	13,830.5	11,736.0	26.9	31.8	90.07	-2,873.1	-816.3	848.3	790.9	57.39	14.780	
14,500.0	11,737.0	13,930.5	11,736.0	27.6	32.3	90.07	-2,973.1	-815.7	848.3	789.8	58.52	14.497	
14,600.0	11,737.0	14,030.5	11,736.0	28.2	32.7	90.07	-3,073.1	-815.0	848.3	788.6	59.65	14.220	
14,700.0	11,737.0	14,130.5	11,736.0	28.9	33.1	90.07	-3,173.1	-814.4	848.3	787.5	60.81	13.950	
14,800.0	11,737.0	14,230.5	11,736.0	29.5	33.6	90.07	-3,273.1	-813.7	848.3	786.3	61.98	13.687	
14,900.0	11,737.0	14,330.5	11,736.0	30.2	34.0	90.07	-3,373.1	-813.1	848.3	785.1	63.16	13.430	
15,000.0	11,737.0	14,430.5	11,736.0	30.9	34.5	90.07	-3,473.1	-812.4	848.3	783.9	64.36	13.180	
15,100.0	11,737.0	14,530.5	11,736.0	31.5	35.0	90.07	-3,573.1	-811.8	848.3	782.7	65.57	12.937	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11379-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,200.0	11,737.0	14,630.5	11,736.0	32.2	35.5	90.07	-3,673.1	-811.1	848.3	781.5	66.79	12.700	
15,300.0	11,737.0	14,730.5	11,736.0	32.9	36.1	90.07	-3,773.1	-810.5	848.3	780.2	68.03	12.470	
15,400.0	11,737.0	14,830.5	11,736.0	33.6	36.6	90.07	-3,873.1	-809.8	848.3	779.0	69.27	12.246	
15,500.0	11,737.0	14,930.5	11,736.0	34.3	37.1	90.07	-3,973.1	-809.2	848.3	777.7	70.53	12.028	
15,600.0	11,737.0	15,030.5	11,736.0	34.9	37.7	90.07	-4,073.1	-808.5	848.3	776.5	71.79	11.816	
15,700.0	11,737.0	15,130.5	11,736.0	35.6	38.3	90.07	-4,173.1	-807.9	848.3	775.2	73.06	11.610	
15,800.0	11,737.0	15,230.5	11,736.0	36.3	38.8	90.07	-4,273.1	-807.2	848.3	773.9	74.35	11.410	
15,900.0	11,737.0	15,330.5	11,736.0	37.0	39.4	90.07	-4,373.1	-806.6	848.3	772.6	75.64	11.215	
16,000.0	11,737.0	15,430.5	11,736.0	37.7	40.0	90.07	-4,473.1	-805.9	848.3	771.3	76.94	11.026	
16,100.0	11,737.0	15,530.5	11,736.0	38.4	40.6	90.07	-4,573.1	-805.3	848.3	770.0	78.24	10.842	
16,200.0	11,737.0	15,630.5	11,736.0	39.1	41.2	90.07	-4,673.1	-804.6	848.3	768.7	79.56	10.663	
16,300.0	11,737.0	15,730.5	11,736.0	39.8	41.8	90.07	-4,773.1	-804.0	848.3	767.4	80.88	10.489	
16,400.0	11,737.0	15,830.5	11,736.0	40.5	42.5	90.07	-4,873.1	-803.3	848.3	766.1	82.20	10.319	
16,500.0	11,737.0	15,930.5	11,736.0	41.3	43.1	90.07	-4,973.1	-802.7	848.3	764.7	83.54	10.155	
16,600.0	11,737.0	16,030.5	11,736.0	42.0	43.7	90.07	-5,073.1	-802.0	848.3	763.4	84.87	9.995	
16,700.0	11,737.0	16,130.5	11,736.0	42.7	44.4	90.07	-5,173.1	-801.4	848.3	762.1	86.22	9.839	
16,800.0	11,737.0	16,230.5	11,736.0	43.4	45.0	90.07	-5,273.1	-800.7	848.3	760.7	87.57	9.687	
16,900.0	11,737.0	16,330.5	11,736.0	44.1	45.6	90.07	-5,373.1	-800.1	848.3	759.4	88.92	9.540	
17,000.0	11,737.0	16,430.5	11,736.0	44.8	46.3	90.07	-5,473.1	-799.4	848.3	758.0	90.28	9.396	
17,100.0	11,737.0	16,530.5	11,736.0	45.6	46.9	90.07	-5,573.1	-798.7	848.3	756.6	91.65	9.256	
17,200.0	11,737.0	16,630.5	11,736.0	46.3	47.6	90.07	-5,673.1	-798.1	848.3	755.3	93.01	9.120	
17,300.0	11,737.0	16,730.5	11,736.0	47.0	48.3	90.07	-5,773.1	-797.4	848.3	753.9	94.39	8.987	
17,400.0	11,737.0	16,830.5	11,736.0	47.7	48.9	90.07	-5,873.1	-796.8	848.3	752.5	95.76	8.858	
17,500.0	11,737.0	16,930.5	11,736.0	48.4	49.6	90.07	-5,973.1	-796.1	848.3	751.1	97.14	8.732	
17,600.0	11,737.0	17,030.5	11,736.0	49.2	50.3	90.07	-6,073.1	-795.5	848.3	749.7	98.53	8.610	
17,700.0	11,737.0	17,130.5	11,736.0	49.9	50.9	90.07	-6,173.1	-794.8	848.3	748.4	99.92	8.490	
17,800.0	11,737.0	17,230.5	11,736.0	50.6	51.6	90.07	-6,273.1	-794.2	848.3	747.0	101.31	8.373	
17,900.0	11,737.0	17,330.5	11,736.0	51.4	52.3	90.07	-6,373.1	-793.5	848.3	745.6	102.70	8.260	
18,000.0	11,737.0	17,430.5	11,736.0	52.1	53.0	90.07	-6,473.1	-792.9	848.3	744.2	104.10	8.149	
18,100.0	11,737.0	17,530.5	11,736.0	52.8	53.7	90.07	-6,573.1	-792.2	848.3	742.8	105.50	8.041	
18,200.0	11,737.0	17,630.5	11,736.0	53.6	54.3	90.07	-6,673.1	-791.6	848.3	741.4	106.90	7.935	
18,300.0	11,737.0	17,730.5	11,736.0	54.3	55.0	90.07	-6,773.1	-790.9	848.3	740.0	108.31	7.832	
18,400.0	11,737.0	17,830.5	11,736.0	55.0	55.7	90.07	-6,873.1	-790.3	848.3	738.6	109.72	7.731	
18,500.0	11,737.0	17,930.5	11,736.0	55.8	56.4	90.07	-6,973.1	-789.6	848.3	737.1	111.13	7.633	
18,600.0	11,737.0	18,030.5	11,736.0	56.5	57.1	90.07	-7,073.0	-789.0	848.3	735.7	112.54	7.537	
18,700.0	11,737.0	18,130.5	11,736.0	57.2	57.8	90.07	-7,173.0	-788.3	848.3	734.3	113.96	7.444	
18,800.0	11,737.0	18,230.5	11,736.0	58.0	58.5	90.07	-7,273.0	-787.7	848.3	732.9	115.38	7.352	
18,900.0	11,737.0	18,330.5	11,736.0	58.7	59.2	90.07	-7,373.0	-787.0	848.3	731.5	116.80	7.263	
19,000.0	11,737.0	18,430.5	11,736.0	59.4	59.9	90.07	-7,473.0	-786.4	848.3	730.1	118.22	7.175	
19,100.0	11,737.0	18,530.5	11,736.0	60.2	60.6	90.07	-7,573.0	-785.7	848.3	728.6	119.65	7.090	
19,200.0	11,737.0	18,630.5	11,736.0	60.9	61.3	90.07	-7,673.0	-785.1	848.3	727.2	121.07	7.006	
19,300.0	11,737.0	18,730.5	11,736.0	61.7	62.0	90.07	-7,773.0	-784.4	848.3	725.8	122.50	6.925	
19,400.0	11,737.0	18,830.5	11,736.0	62.4	62.7	90.07	-7,873.0	-783.8	848.3	724.3	123.93	6.845	
19,500.0	11,737.0	18,930.5	11,736.0	63.1	63.4	90.07	-7,973.0	-783.1	848.3	722.9	125.36	6.766	
19,600.0	11,737.0	19,030.5	11,736.0	63.9	64.2	90.07	-8,073.0	-782.5	848.3	721.5	126.80	6.690	
19,700.0	11,737.0	19,130.5	11,736.0	64.6	64.9	90.07	-8,173.0	-781.8	848.3	720.0	128.23	6.615	
19,800.0	11,737.0	19,230.5	11,736.0	65.4	65.6	90.07	-8,273.0	-781.2	848.3	718.6	129.67	6.542	
19,900.0	11,737.0	19,330.5	11,736.0	66.1	66.3	90.07	-8,373.0	-780.5	848.3	717.2	131.11	6.470	
20,000.0	11,737.0	19,430.5	11,736.0	66.9	67.0	90.07	-8,473.0	-779.9	848.3	715.7	132.55	6.400	
20,100.0	11,737.0	19,530.5	11,736.0	67.6	67.7	90.07	-8,573.0	-779.2	848.3	714.3	133.99	6.331	
20,200.0	11,737.0	19,630.5	11,736.0	68.3	68.4	90.07	-8,673.0	-778.6	848.3	712.8	135.44	6.263	
20,300.0	11,737.0	19,730.5	11,736.0	69.1	69.2	90.07	-8,773.0	-777.9	848.3	711.4	136.88	6.197	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11379-r.5 MWD+IFR1+MS												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)		Minimum Separation (usft)	Separation Factor
20,400.0	11,737.0	19,830.5	11,736.0	69.8	69.9	90.07	-8,873.0	-777.3	848.3	710.0		138.33	6.132
20,500.0	11,737.0	19,930.5	11,736.0	70.6	70.6	90.07	-8,973.0	-776.6	848.3	708.5		139.77	6.069
20,600.0	11,737.0	20,030.5	11,736.0	71.3	71.3	90.07	-9,073.0	-776.0	848.3	707.1		141.22	6.007
20,700.0	11,737.0	20,130.5	11,736.0	72.1	72.0	90.07	-9,173.0	-775.3	848.3	705.6		142.67	5.946
20,800.0	11,737.0	20,230.5	11,736.0	72.8	72.8	90.07	-9,273.0	-774.7	848.3	704.2		144.12	5.886
20,900.0	11,737.0	20,330.5	11,736.0	73.6	73.5	90.07	-9,373.0	-774.0	848.3	702.7		145.57	5.827
21,000.0	11,737.0	20,430.5	11,736.0	74.3	74.2	90.07	-9,473.0	-773.4	848.3	701.2		147.03	5.770
21,100.0	11,737.0	20,530.5	11,736.0	75.1	74.9	90.07	-9,573.0	-772.7	848.3	699.8		148.48	5.713
21,200.0	11,737.0	20,630.5	11,736.0	75.8	75.7	90.07	-9,673.0	-772.1	848.3	698.3		149.94	5.658
21,300.0	11,737.0	20,730.5	11,736.0	76.6	76.4	90.07	-9,773.0	-771.4	848.3	696.9		151.39	5.603
21,400.0	11,737.0	20,830.5	11,736.0	77.3	77.1	90.07	-9,873.0	-770.8	848.3	695.4		152.85	5.550
21,500.0	11,737.0	20,930.5	11,736.0	78.1	77.9	90.07	-9,973.0	-770.1	848.3	694.0		154.31	5.497
21,545.5	11,737.0	20,976.1	11,736.0	78.4	78.2	90.07	-10,018.5	-769.8	848.3	693.3		154.97	5.474
21,551.0	11,737.0	20,981.5	11,736.0	78.4	78.2	90.07	-10,024.0	-769.8	848.3	693.2		155.05	5.471
21,595.5	11,737.0	21,026.0	11,736.0	78.8	78.5	90.07	-10,068.4	-769.5	848.3	692.6		155.69	5.448 SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	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)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-56.05	16.8	-25.0	30.2	23.2	6.98	4.327	
100.0	100.0	99.0	99.0	3.1	3.1	-56.05	16.8	-25.0	30.2	22.9	7.22	4.177	
200.0	200.0	199.0	199.0	3.2	3.2	-56.05	16.8	-25.0	30.2	22.7	7.46	4.043	
300.0	300.0	299.0	299.0	3.4	3.4	-56.05	16.8	-25.0	30.2	22.5	7.69	3.922	
400.0	400.0	399.0	399.0	3.5	3.5	-56.05	16.8	-25.0	30.2	22.3	7.92	3.810	
500.0	500.0	499.0	499.0	3.6	3.6	-56.05	16.8	-25.0	30.2	22.0	8.14	3.706	
600.0	600.0	599.0	599.0	3.7	3.7	-56.05	16.8	-25.0	30.2	21.8	8.36	3.610	
700.0	700.0	699.0	699.0	3.9	3.9	-56.05	16.8	-25.0	30.2	21.6	8.57	3.521	
800.0	800.0	799.0	799.0	4.0	4.0	-56.05	16.8	-25.0	30.2	21.4	8.78	3.437	
900.0	900.0	899.0	899.0	4.1	4.1	-56.05	16.8	-25.0	30.2	21.2	8.98	3.359	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.05	16.8	-25.0	30.2	21.0	9.18	3.285	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.05	16.8	-25.0	30.2	20.8	9.38	3.216	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.05	16.8	-25.0	30.2	20.6	9.58	3.150	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.05	16.8	-25.0	30.2	20.4	9.77	3.088	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.05	16.8	-25.0	30.2	20.2	9.96	3.029	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.05	16.8	-25.0	30.2	20.0	10.15	2.973 CC, ES	
1,600.0	1,600.0	1,598.8	1,598.8	5.0	5.0	-59.23	15.6	-26.2	30.5	20.4	10.04	3.032	
1,700.0	1,700.0	1,698.4	1,698.2	5.1	5.2	-68.37	11.7	-29.6	31.9	21.6	10.29	3.098	
1,800.0	1,800.0	1,797.5	1,797.0	5.3	5.5	-81.34	5.4	-35.4	35.8	25.2	10.60	3.380	
1,900.0	1,900.0	1,895.9	1,894.6	5.4	5.7	-94.55	-3.4	-43.3	43.7	32.6	11.03	3.959	
2,000.0	2,000.0	1,993.3	1,990.9	5.6	6.0	-105.33	-14.6	-53.4	55.9	44.4	11.54	4.848	
2,100.0	2,100.0	2,091.7	2,087.8	5.7	6.3	-112.86	-27.3	-64.8	71.2	59.2	12.04	5.918	
2,200.0	2,200.0	2,190.2	2,184.8	5.8	6.6	-117.70	-40.0	-76.3	87.3	74.8	12.52	6.973	
2,300.0	2,300.0	2,288.7	2,281.7	6.0	6.9	-121.03	-52.7	-87.7	103.8	90.8	13.00	7.981	
2,400.0	2,400.0	2,387.1	2,378.7	6.1	7.2	-123.43	-65.5	-99.1	120.5	107.0	13.49	8.932	
2,500.0	2,500.0	2,485.6	2,475.7	6.2	7.5	-125.25	-78.2	-110.6	137.4	123.4	13.99	9.822	
2,600.0	2,600.0	2,584.1	2,572.7	6.3	7.8	-126.68	-90.9	-122.0	154.4	139.9	14.49	10.653	
2,700.0	2,700.0	2,682.6	2,669.7	6.5	8.2	-127.81	-103.6	-133.5	171.5	156.5	15.01	11.425	
2,800.0	2,800.0	2,781.1	2,766.7	6.6	8.5	-128.75	-116.3	-144.9	188.6	173.1	15.53	12.144	
2,900.0	2,900.0	2,879.5	2,863.6	6.7	8.9	-129.52	-129.0	-156.3	205.8	189.7	16.06	12.811	
3,000.0	3,000.0	2,978.0	2,960.6	6.8	9.3	-130.18	-141.7	-167.8	222.9	206.4	16.60	13.432	
3,100.0	3,100.0	3,076.5	3,057.6	7.0	9.6	-130.75	-154.4	-179.2	240.2	223.0	17.14	14.009	
3,200.0	3,200.0	3,175.0	3,154.6	7.1	10.0	-131.23	-167.1	-190.7	257.4	239.7	17.70	14.547	
3,300.0	3,300.0	3,273.5	3,251.6	7.2	10.4	-131.66	-179.8	-202.1	274.7	256.4	18.25	15.048	
3,400.0	3,400.0	3,372.0	3,348.6	7.3	10.8	-132.04	-192.5	-213.6	291.9	273.1	18.82	15.515	
3,500.0	3,500.0	3,470.4	3,445.6	7.4	11.2	-132.37	-205.2	-225.0	309.2	289.8	19.38	15.951	
3,600.0	3,600.0	3,568.9	3,542.5	7.5	11.6	-132.67	-218.0	-236.4	326.5	306.5	19.96	16.359	
3,700.0	3,700.0	3,667.4	3,639.5	7.7	12.0	-132.94	-230.7	-247.9	343.8	323.3	20.54	16.742	
3,800.0	3,800.0	3,765.9	3,736.5	7.8	12.4	-133.18	-243.4	-259.3	361.1	340.0	21.12	17.100	
3,900.0	3,900.0	3,864.4	3,833.5	7.9	12.8	-133.40	-256.1	-270.8	378.4	356.7	21.70	17.436	
4,000.0	4,000.0	3,962.8	3,930.5	8.0	13.2	-133.60	-268.8	-282.2	395.7	373.4	22.29	17.753	
4,100.0	4,100.0	4,061.3	4,027.5	8.1	13.6	-133.79	-281.5	-293.7	413.0	390.2	22.88	18.051	
4,200.0	4,200.0	4,159.8	4,124.4	8.2	14.1	-133.96	-294.2	-305.1	430.4	406.9	23.48	18.331	
4,300.0	4,300.0	4,258.3	4,221.4	8.3	14.5	-134.11	-306.9	-316.5	447.7	423.6	24.07	18.596	
4,400.0	4,400.0	4,356.8	4,318.4	8.4	14.9	-134.26	-319.6	-328.0	465.0	440.3	24.67	18.846	
4,500.0	4,500.0	4,455.2	4,415.4	8.6	15.3	-134.39	-332.3	-339.4	482.3	457.1	25.28	19.083	
4,600.0	4,600.0	4,554.5	4,513.2	8.7	15.7	-134.52	-345.1	-351.0	499.7	473.8	25.87	19.317	
4,700.0	4,700.0	4,662.8	4,620.0	8.8	16.2	-134.64	-358.2	-362.8	515.9	489.4	26.51	19.458	
4,800.0	4,800.0	4,771.7	4,727.7	8.9	16.6	-134.74	-369.9	-373.2	530.3	503.1	27.16	19.527	
4,900.0	4,900.0	4,881.1	4,836.3	9.0	17.1	-134.82	-380.1	-382.4	542.8	515.0	27.78	19.539	
5,000.0	5,000.0	4,991.0	4,945.6	9.1	17.5	-134.89	-388.7	-390.2	553.4	525.0	28.38	19.501	
5,100.0	5,100.0	5,101.4	5,055.6	9.2	17.9	-134.94	-395.9	-396.6	562.1	533.1	28.95	19.417	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,200.0	5,212.1	5,166.0	9.3	18.3	-134.98	-401.4	-401.7	568.8	539.3	29.48	19.296	
5,300.0	5,300.0	5,323.0	5,276.8	9.4	18.7	-135.01	-405.4	-405.2	573.7	543.7	29.97	19.143	
5,400.0	5,400.0	5,434.1	5,387.8	9.5	19.0	-135.03	-407.8	-407.4	576.6	546.2	30.40	18.968	
5,500.0	5,500.0	5,545.3	5,499.0	9.6	19.3	-135.03	-408.6	-408.1	577.5	546.9	30.68	18.823	
5,533.3	5,533.3	5,578.6	5,532.3	9.6	19.3	-135.03	-408.6	-408.1	577.5	546.8	30.71	18.808	
5,600.0	5,600.0	5,645.3	5,599.0	9.7	19.3	-135.03	-408.6	-408.1	577.5	546.8	30.77	18.771	
5,700.0	5,700.0	5,745.3	5,699.0	9.8	19.3	-135.03	-408.6	-408.1	577.5	546.7	30.87	18.710	
5,800.0	5,800.0	5,845.3	5,799.0	9.9	19.3	-135.03	-408.6	-408.1	577.5	546.6	30.97	18.649	
5,900.0	5,900.0	5,945.3	5,899.0	10.0	19.4	-135.03	-408.6	-408.1	577.5	546.5	31.07	18.588	
6,000.0	6,000.0	6,045.3	5,999.0	10.1	19.4	-135.03	-408.6	-408.1	577.5	546.4	31.17	18.527	
6,100.0	6,100.0	6,145.3	6,099.0	10.2	19.4	-135.03	-408.6	-408.1	577.5	546.3	31.27	18.467	
6,200.0	6,200.0	6,245.3	6,199.0	10.3	19.4	-135.03	-408.6	-408.1	577.5	546.2	31.38	18.406	
6,300.0	6,300.0	6,345.3	6,299.0	10.4	19.5	-135.03	-408.6	-408.1	577.5	546.1	31.48	18.346	
6,400.0	6,400.0	6,445.3	6,399.0	10.5	19.5	-135.03	-408.6	-408.1	577.5	546.0	31.58	18.285	
6,500.0	6,500.0	6,545.3	6,499.0	10.6	19.5	-135.03	-408.6	-408.1	577.5	545.8	31.69	18.225	
6,600.0	6,600.0	6,645.3	6,599.0	10.7	19.6	-135.03	-408.6	-408.1	577.5	545.7	31.79	18.165	
6,700.0	6,700.0	6,745.3	6,699.0	10.8	19.6	-135.03	-408.6	-408.1	577.5	545.6	31.90	18.105	
6,800.0	6,800.0	6,845.3	6,799.0	10.9	19.6	-135.03	-408.6	-408.1	577.5	545.5	32.00	18.045	
6,900.0	6,900.0	6,945.3	6,899.0	11.0	19.7	-135.03	-408.6	-408.1	577.5	545.4	32.11	17.986	
7,000.0	7,000.0	7,045.3	6,999.0	11.1	19.7	-135.03	-408.6	-408.1	577.5	545.3	32.22	17.926	
7,100.0	7,100.0	7,145.3	7,099.0	11.2	19.7	-135.03	-408.6	-408.1	577.5	545.2	32.32	17.867	
7,200.0	7,200.0	7,245.3	7,199.0	11.3	19.8	-135.03	-408.6	-408.1	577.5	545.1	32.43	17.807	
7,300.0	7,300.0	7,345.3	7,299.0	11.4	19.8	-135.03	-408.6	-408.1	577.5	545.0	32.54	17.748	
7,400.0	7,400.0	7,445.3	7,399.0	11.5	19.8	-135.03	-408.6	-408.1	577.5	544.9	32.65	17.689	
7,500.0	7,500.0	7,545.3	7,499.0	11.6	19.9	-135.03	-408.6	-408.1	577.5	544.8	32.76	17.630	
7,600.0	7,600.0	7,645.3	7,599.0	11.7	19.9	-135.03	-408.6	-408.1	577.5	544.7	32.87	17.572	
7,700.0	7,700.0	7,745.3	7,699.0	11.8	19.9	-135.03	-408.6	-408.1	577.5	544.6	32.98	17.513	
7,800.0	7,800.0	7,845.3	7,799.0	11.9	20.0	-135.03	-408.6	-408.1	577.5	544.4	33.09	17.455	
7,900.0	7,900.0	7,945.3	7,899.0	12.0	20.0	-135.03	-408.6	-408.1	577.5	544.3	33.20	17.397	
8,000.0	8,000.0	8,045.3	7,999.0	12.1	20.0	-135.03	-408.6	-408.1	577.5	544.2	33.31	17.339	
8,100.0	8,100.0	8,145.3	8,099.0	12.2	20.1	-135.03	-408.6	-408.1	577.5	544.1	33.42	17.281	
8,200.0	8,200.0	8,245.3	8,199.0	12.3	20.1	-135.03	-408.6	-408.1	577.5	544.0	33.53	17.223	
8,300.0	8,300.0	8,345.3	8,299.0	12.4	20.1	-135.03	-408.6	-408.1	577.5	543.9	33.64	17.166	
8,400.0	8,400.0	8,445.3	8,399.0	12.5	20.2	-135.03	-408.6	-408.1	577.5	543.8	33.76	17.108	
8,500.0	8,500.0	8,545.3	8,499.0	12.6	20.2	-135.03	-408.6	-408.1	577.5	543.7	33.87	17.051	
8,600.0	8,600.0	8,645.3	8,599.0	12.7	20.3	-135.03	-408.6	-408.1	577.5	543.6	33.98	16.994	
8,700.0	8,700.0	8,745.3	8,699.0	12.8	20.3	-135.03	-408.6	-408.1	577.5	543.4	34.10	16.937	
8,800.0	8,800.0	8,845.3	8,799.0	12.9	20.3	-135.03	-408.6	-408.1	577.5	543.3	34.21	16.881	
8,900.0	8,900.0	8,945.3	8,899.0	13.0	20.4	-135.03	-408.6	-408.1	577.5	543.2	34.33	16.825	
9,000.0	9,000.0	9,045.3	8,999.0	13.0	20.4	-135.03	-408.6	-408.1	577.5	543.1	34.44	16.768	
9,100.0	9,100.0	9,145.3	9,099.0	13.1	20.4	-135.03	-408.6	-408.1	577.5	543.0	34.56	16.712	
9,200.0	9,200.0	9,245.3	9,199.0	13.2	20.5	-135.03	-408.6	-408.1	577.5	542.9	34.67	16.657	
9,300.0	9,300.0	9,345.3	9,299.0	13.3	20.5	-135.03	-408.6	-408.1	577.5	542.7	34.79	16.601	
9,400.0	9,400.0	9,445.3	9,399.0	13.4	20.6	-135.03	-408.6	-408.1	577.5	542.6	34.91	16.545	
9,500.0	9,500.0	9,545.3	9,499.0	13.5	20.6	-135.03	-408.6	-408.1	577.5	542.5	35.02	16.490	
9,600.0	9,600.0	9,645.3	9,599.0	13.6	20.6	-135.03	-408.6	-408.1	577.5	542.4	35.14	16.435	
9,700.0	9,700.0	9,745.3	9,699.0	13.7	20.7	-135.03	-408.6	-408.1	577.5	542.3	35.26	16.380	
9,800.0	9,800.0	9,845.3	9,799.0	13.8	20.7	-135.03	-408.6	-408.1	577.5	542.2	35.38	16.326	
9,900.0	9,900.0	9,945.3	9,899.0	13.9	20.8	-135.03	-408.6	-408.1	577.5	542.0	35.49	16.271	
10,000.0	10,000.0	10,045.3	9,999.0	14.0	20.8	-135.03	-408.6	-408.1	577.5	541.9	35.61	16.217	
10,100.0	10,100.0	10,145.3	10,099.0	14.1	20.8	-135.03	-408.6	-408.1	577.5	541.8	35.73	16.163	
10,200.0	10,200.0	10,245.3	10,199.0	14.2	20.9	-135.03	-408.6	-408.1	577.5	541.7	35.85	16.109	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS													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)	Minimum Separation (usft)	Separation Factor	
10,300.0	10,300.0	10,345.3	10,299.0	14.3	20.9	-135.03	-408.6	-408.1	577.5	541.6	35.97	16.056	
10,400.0	10,400.0	10,445.3	10,399.0	14.4	21.0	-135.03	-408.6	-408.1	577.5	541.4	36.09	16.003	
10,500.0	10,500.0	10,545.3	10,499.0	14.4	21.0	-135.03	-408.6	-408.1	577.5	541.3	36.21	15.949	
10,600.0	10,600.0	10,645.3	10,599.0	14.5	21.0	-135.03	-408.6	-408.1	577.5	541.2	36.33	15.896	
10,700.0	10,700.0	10,745.3	10,699.0	14.6	21.1	-135.03	-408.6	-408.1	577.5	541.1	36.45	15.844	
10,800.0	10,800.0	10,845.3	10,799.0	14.7	21.1	-135.03	-408.6	-408.1	577.5	541.0	36.57	15.791	
10,900.0	10,900.0	10,945.3	10,899.0	14.8	21.2	-135.03	-408.6	-408.1	577.5	540.8	36.69	15.739	
11,000.0	11,000.0	11,045.3	10,999.0	14.9	21.2	-135.03	-408.6	-408.1	577.5	540.7	36.82	15.687	
11,100.0	11,100.0	11,145.3	11,099.0	15.0	21.3	-135.03	-408.6	-408.1	577.5	540.6	36.94	15.635	
11,200.0	11,200.0	11,245.3	11,199.0	15.1	21.3	-135.03	-408.6	-408.1	577.5	540.5	37.06	15.583	
11,259.5	11,259.5	11,304.8	11,258.5	15.1	21.3	-135.03	-408.6	-408.1	577.5	540.4	37.12	15.557	
11,275.0	11,275.0	11,320.3	11,274.0	15.1	21.3	46.85	-408.6	-408.1	577.4	540.4	37.01	15.602	
11,300.0	11,300.0	11,345.2	11,299.0	15.1	21.3	47.04	-408.6	-408.1	576.4	539.3	37.02	15.569	
11,325.0	11,324.8	11,370.1	11,323.8	15.2	21.3	47.41	-408.6	-408.1	574.5	537.4	37.04	15.512	
11,350.0	11,349.5	11,394.7	11,348.5	15.2	21.4	47.95	-408.6	-408.1	571.7	534.7	37.05	15.432	
11,375.0	11,373.9	11,419.1	11,372.9	15.2	21.4	48.68	-408.6	-408.1	568.1	531.1	37.06	15.331	
11,400.0	11,398.0	11,443.3	11,397.0	15.2	21.4	49.58	-408.6	-408.1	563.7	526.6	37.06	15.210	
11,425.0	11,421.7	11,467.0	11,420.7	15.2	21.4	50.67	-408.6	-408.1	558.5	521.4	37.06	15.069	
11,450.0	11,445.0	11,485.7	11,439.4	15.2	21.4	51.79	-408.7	-408.1	552.6	515.6	36.98	14.942	
11,475.0	11,467.8	11,500.0	11,453.7	15.3	21.4	52.88	-409.1	-408.1	546.4	509.4	37.00	14.766	
11,500.0	11,490.0	11,511.9	11,465.6	15.3	21.4	53.96	-409.7	-408.1	539.9	502.9	37.04	14.578	
11,525.0	11,511.5	11,525.0	11,478.7	15.3	21.4	55.15	-410.8	-408.1	533.2	496.2	37.06	14.388	
11,550.0	11,532.4	11,538.1	11,491.7	15.3	21.4	56.42	-412.2	-408.1	526.3	489.3	37.08	14.195	
11,575.0	11,552.5	11,550.0	11,503.5	15.4	21.4	57.70	-413.8	-408.1	519.3	482.2	37.10	13.997	
11,600.0	11,571.9	11,564.4	11,517.7	15.4	21.4	59.17	-416.1	-408.1	512.2	475.1	37.10	13.806	
11,625.0	11,590.3	11,575.0	11,528.1	15.4	21.4	60.52	-418.1	-408.1	505.0	467.9	37.11	13.606	
11,650.0	11,607.9	11,590.8	11,543.5	15.4	21.4	62.21	-421.5	-408.0	497.7	460.7	37.07	13.426	
11,675.0	11,624.5	11,600.0	11,552.5	15.5	21.4	63.57	-423.7	-408.0	490.5	453.5	37.07	13.233	
11,700.0	11,640.1	11,617.3	11,569.1	15.5	21.4	65.50	-428.3	-408.0	483.3	446.4	36.98	13.072	
11,725.0	11,654.7	11,630.5	11,581.8	15.5	21.4	67.23	-432.2	-408.0	476.3	439.4	36.89	12.910	
11,750.0	11,668.2	11,643.9	11,594.4	15.6	21.4	69.00	-436.5	-408.0	469.4	432.6	36.79	12.761	
11,775.0	11,680.5	11,657.2	11,606.9	15.6	21.4	70.81	-441.2	-407.9	462.8	426.1	36.65	12.627	
11,800.0	11,691.8	11,670.6	11,619.3	15.6	21.4	72.65	-446.3	-407.9	456.4	419.9	36.48	12.511	
11,825.0	11,701.8	11,684.1	11,631.6	15.6	21.4	74.50	-451.7	-407.9	450.4	414.1	36.28	12.415	
11,850.0	11,710.6	11,700.0	11,646.0	15.7	21.5	76.58	-458.5	-407.8	444.9	408.8	36.03	12.346	
11,875.0	11,718.2	11,711.2	11,655.9	15.7	21.5	78.22	-463.6	-407.8	439.8	404.0	35.79	12.289	
11,900.0	11,724.5	11,725.0	11,668.1	15.7	21.5	80.08	-470.2	-407.7	435.3	399.8	35.49	12.264	
11,925.0	11,729.5	11,738.5	11,679.7	15.7	21.5	81.87	-477.0	-407.7	431.4	396.3	35.18	12.263	
11,950.0	11,733.3	11,752.3	11,691.4	15.7	21.5	83.65	-484.3	-407.6	428.3	393.4	34.85	12.289	
11,975.0	11,735.8	11,766.1	11,703.0	15.7	21.5	85.37	-491.9	-407.6	425.9	391.4	34.52	12.340	
12,000.0	11,736.9	11,780.1	11,714.4	15.7	21.5	87.05	-500.0	-407.5	424.4	390.2	34.19	12.414	
12,009.5	11,737.0	11,785.5	11,718.7	15.7	21.5	87.67	-503.2	-407.5	424.1	390.0	34.07	12.449	
12,034.3	11,737.0	11,800.0	11,730.3	15.8	21.5	89.22	-512.0	-407.5	423.7	389.9	33.78	12.543	
12,083.4	11,737.0	11,832.4	11,754.9	15.8	21.5	92.56	-533.0	-407.3	425.0	391.6	33.37	12.735	
12,100.0	11,737.0	11,844.6	11,763.9	15.8	21.5	93.76	-541.3	-407.3	426.0	392.7	33.29	12.795	
12,200.0	11,737.0	11,934.1	11,822.3	16.0	21.6	101.50	-608.9	-406.8	437.1	403.5	33.62	13.000	
12,300.0	11,737.0	12,055.4	11,879.5	16.3	21.7	108.70	-715.5	-406.1	451.0	415.7	35.28	12.785	
12,400.0	11,737.0	12,205.1	11,910.4	16.6	21.8	112.35	-861.4	-405.2	458.6	421.3	37.27	12.306	
12,500.0	11,737.0	12,314.1	11,911.0	16.9	21.9	112.43	-970.4	-404.5	458.7	420.8	37.96	12.085	
12,600.0	11,737.0	12,414.1	11,911.0	17.3	22.0	112.43	-1,070.4	-403.8	458.7	420.2	38.55	11.901	
12,700.0	11,737.0	12,514.1	11,911.0	17.7	22.1	112.43	-1,170.4	-403.2	458.7	419.5	39.18	11.707	
12,800.0	11,737.0	12,614.1	11,911.0	18.1	22.2	112.43	-1,270.4	-402.5	458.7	418.9	39.87	11.506	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		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)	Minimum Separation (usft)	Separation Factor
12,900.0	11,737.0	12,714.1	11,911.0	18.6	22.4	112.43		-1,370.4	-401.9	458.7	418.1	40.60	11.299
13,000.0	11,737.0	12,814.1	11,911.0	19.0	22.6	112.43		-1,470.4	-401.2	458.7	417.4	41.37	11.087
13,100.0	11,737.0	12,914.1	11,911.0	19.5	22.8	112.43		-1,570.4	-400.6	458.7	416.5	42.19	10.873
13,200.0	11,737.0	13,014.1	11,911.0	20.0	23.0	112.43		-1,670.4	-399.9	458.7	415.7	43.04	10.658
13,300.0	11,737.0	13,114.1	11,911.0	20.5	23.3	112.43		-1,770.4	-399.3	458.7	414.8	43.93	10.442
13,400.0	11,737.0	13,214.1	11,911.0	21.0	23.6	112.43		-1,870.4	-398.6	458.7	413.9	44.85	10.227
13,500.0	11,737.0	13,314.1	11,911.0	21.6	23.9	112.43		-1,970.4	-398.0	458.7	412.9	45.81	10.014
13,600.0	11,737.0	13,414.1	11,911.0	22.1	24.2	112.43		-2,070.4	-397.3	458.7	411.9	46.79	9.803
13,700.0	11,737.0	13,514.1	11,911.0	22.7	24.6	112.43		-2,170.4	-396.7	458.7	410.9	47.81	9.596
13,800.0	11,737.0	13,614.1	11,911.0	23.3	25.0	112.43		-2,270.4	-396.0	458.7	409.9	48.85	9.391
13,900.0	11,737.0	13,714.1	11,911.0	23.9	25.4	112.43		-2,370.4	-395.4	458.7	408.8	49.91	9.191
14,000.0	11,737.0	13,814.1	11,911.0	24.5	25.9	112.43		-2,470.4	-394.7	458.7	407.7	50.99	8.996
14,100.0	11,737.0	13,914.1	11,911.0	25.1	26.4	112.43		-2,570.4	-394.0	458.7	406.6	52.10	8.804
14,200.0	11,737.0	14,014.1	11,911.0	25.7	26.9	112.43		-2,670.4	-393.4	458.7	405.5	53.23	8.618
14,300.0	11,737.0	14,114.1	11,911.0	26.3	27.4	112.43		-2,770.4	-392.7	458.7	404.3	54.38	8.436
14,400.0	11,737.0	14,214.1	11,911.0	26.9	27.9	112.43		-2,870.4	-392.1	458.7	403.2	55.54	8.259
14,500.0	11,737.0	14,314.1	11,911.0	27.6	28.4	112.43		-2,970.4	-391.4	458.7	402.0	56.72	8.087
14,600.0	11,737.0	14,414.1	11,911.0	28.2	29.0	112.43		-3,070.4	-390.8	458.7	400.8	57.92	7.920
14,700.0	11,737.0	14,514.1	11,911.0	28.9	29.6	112.43		-3,170.4	-390.1	458.7	399.6	59.13	7.758
14,800.0	11,737.0	14,614.1	11,911.0	29.5	30.1	112.43		-3,270.4	-389.5	458.7	398.4	60.36	7.600
14,900.0	11,737.0	14,714.1	11,911.0	30.2	30.7	112.43		-3,370.4	-388.8	458.7	397.1	61.59	7.448
15,000.0	11,737.0	14,814.1	11,911.0	30.9	31.3	112.43		-3,470.4	-388.2	458.7	395.9	62.84	7.299
15,100.0	11,737.0	14,914.1	11,911.0	31.5	31.9	112.43		-3,570.4	-387.5	458.7	394.6	64.11	7.156
15,200.0	11,737.0	15,014.1	11,911.0	32.2	32.6	112.43		-3,670.4	-386.9	458.7	393.3	65.38	7.016
15,300.0	11,737.0	15,114.1	11,911.0	32.9	33.2	112.43		-3,770.4	-386.2	458.7	392.1	66.66	6.881
15,400.0	11,737.0	15,214.1	11,911.0	33.6	33.8	112.43		-3,870.4	-385.6	458.7	390.8	67.95	6.751
15,500.0	11,737.0	15,314.1	11,911.0	34.3	34.4	112.43		-3,970.4	-384.9	458.7	389.5	69.25	6.624
15,600.0	11,737.0	15,414.1	11,911.0	34.9	35.1	112.43		-4,070.4	-384.3	458.7	388.2	70.56	6.501
15,700.0	11,737.0	15,514.1	11,911.0	35.6	35.7	112.43		-4,170.4	-383.6	458.7	386.8	71.88	6.382
15,800.0	11,737.0	15,614.1	11,911.0	36.3	36.4	112.43		-4,270.3	-383.0	458.7	385.5	73.21	6.266
15,900.0	11,737.0	15,714.1	11,911.0	37.0	37.1	112.43		-4,370.3	-382.3	458.7	384.2	74.54	6.154
16,000.0	11,737.0	15,814.1	11,911.0	37.7	37.7	112.43		-4,470.3	-381.7	458.7	382.8	75.88	6.045
16,100.0	11,737.0	15,914.1	11,911.0	38.4	38.4	112.43		-4,570.3	-381.0	458.7	381.5	77.23	5.940
16,200.0	11,737.0	16,014.1	11,911.0	39.1	39.1	112.43		-4,670.3	-380.4	458.7	380.1	78.58	5.838
16,300.0	11,737.0	16,114.1	11,911.0	39.8	39.7	112.43		-4,770.3	-379.7	458.7	378.8	79.94	5.739
16,400.0	11,737.0	16,214.1	11,911.0	40.5	40.4	112.43		-4,870.3	-379.1	458.7	377.4	81.30	5.642
16,500.0	11,737.0	16,314.1	11,911.0	41.3	41.1	112.43		-4,970.3	-378.4	458.7	376.0	82.67	5.549
16,600.0	11,737.0	16,414.1	11,911.0	42.0	41.8	112.43		-5,070.3	-377.8	458.7	374.7	84.04	5.458
16,700.0	11,737.0	16,514.1	11,911.0	42.7	42.5	112.43		-5,170.3	-377.1	458.7	373.3	85.42	5.370
16,800.0	11,737.0	16,614.1	11,911.0	43.4	43.2	112.43		-5,270.3	-376.5	458.7	371.9	86.80	5.285
16,900.0	11,737.0	16,714.1	11,911.0	44.1	43.9	112.43		-5,370.3	-375.8	458.7	370.5	88.19	5.201
17,000.0	11,737.0	16,814.1	11,911.0	44.8	44.6	112.43		-5,470.3	-375.2	458.7	369.1	89.58	5.121
17,100.0	11,737.0	16,914.1	11,911.0	45.6	45.3	112.43		-5,570.3	-374.5	458.7	367.7	90.98	5.042
17,200.0	11,737.0	17,014.1	11,911.0	46.3	46.0	112.43		-5,670.3	-373.9	458.7	366.3	92.38	4.966
17,300.0	11,737.0	17,114.1	11,911.0	47.0	46.7	112.43		-5,770.3	-373.2	458.7	364.9	93.78	4.891
17,400.0	11,737.0	17,214.1	11,911.0	47.7	47.4	112.43		-5,870.3	-372.5	458.7	363.5	95.18	4.819
17,500.0	11,737.0	17,314.1	11,911.0	48.4	48.1	112.43		-5,970.3	-371.9	458.7	362.1	96.59	4.749
17,600.0	11,737.0	17,414.1	11,911.0	49.2	48.8	112.43		-6,070.3	-371.2	458.7	360.7	98.01	4.680
17,700.0	11,737.0	17,514.1	11,911.0	49.9	49.5	112.43		-6,170.3	-370.6	458.7	359.3	99.42	4.614
17,800.0	11,737.0	17,614.1	11,911.0	50.6	50.2	112.43		-6,270.3	-369.9	458.7	357.9	100.84	4.549
17,900.0	11,737.0	17,714.1	11,911.0	51.4	50.9	112.43		-6,370.3	-369.3	458.7	356.4	102.26	4.486
18,000.0	11,737.0	17,814.1	11,911.0	52.1	51.7	112.43		-6,470.3	-368.6	458.7	355.0	103.68	4.424

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11480-r.5 MWD+IFR1+MS												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)			
18,100.0	11,737.0	17,914.1	11,911.0	52.8	52.4	112.43	-6,570.3	-368.0	458.7	353.6	105.11	4.364	
18,200.0	11,737.0	18,014.1	11,911.0	53.6	53.1	112.43	-6,670.3	-367.3	458.7	352.2	106.54	4.306	
18,300.0	11,737.0	18,114.1	11,911.0	54.3	53.8	112.43	-6,770.3	-366.7	458.7	350.7	107.97	4.249	
18,400.0	11,737.0	18,214.1	11,911.0	55.0	54.5	112.43	-6,870.3	-366.0	458.7	349.3	109.40	4.193	
18,500.0	11,737.0	18,314.1	11,911.0	55.8	55.3	112.43	-6,970.3	-365.4	458.7	347.9	110.84	4.139	
18,600.0	11,737.0	18,414.1	11,911.0	56.5	56.0	112.43	-7,070.3	-364.7	458.7	346.4	112.27	4.086	
18,700.0	11,737.0	18,514.1	11,911.0	57.2	56.7	112.43	-7,170.3	-364.1	458.7	345.0	113.71	4.034	
18,800.0	11,737.0	18,614.1	11,911.0	58.0	57.4	112.43	-7,270.3	-363.4	458.7	343.5	115.16	3.983	
18,900.0	11,737.0	18,714.1	11,911.0	58.7	58.2	112.43	-7,370.3	-362.8	458.7	342.1	116.60	3.934	
19,000.0	11,737.0	18,814.1	11,911.0	59.4	58.9	112.43	-7,470.3	-362.1	458.7	340.7	118.04	3.886	
19,100.0	11,737.0	18,914.1	11,911.0	60.2	59.6	112.43	-7,570.3	-361.5	458.7	339.2	119.49	3.839	
19,200.0	11,737.0	19,014.1	11,911.0	60.9	60.3	112.43	-7,670.3	-360.8	458.7	337.8	120.94	3.793	
19,300.0	11,737.0	19,114.1	11,911.0	61.7	61.1	112.43	-7,770.3	-360.2	458.7	336.3	122.39	3.748	
19,400.0	11,737.0	19,214.1	11,911.0	62.4	61.8	112.43	-7,870.3	-359.5	458.7	334.9	123.84	3.704	
19,500.0	11,737.0	19,314.1	11,911.0	63.1	62.5	112.43	-7,970.3	-358.9	458.7	333.4	125.29	3.661	
19,600.0	11,737.0	19,414.1	11,911.0	63.9	63.3	112.43	-8,070.3	-358.2	458.7	332.0	126.75	3.619	
19,700.0	11,737.0	19,514.1	11,911.0	64.6	64.0	112.43	-8,170.3	-357.6	458.7	330.5	128.20	3.578	
19,800.0	11,737.0	19,614.1	11,911.0	65.4	64.7	112.43	-8,270.3	-356.9	458.7	329.0	129.66	3.538	
19,900.0	11,737.0	19,714.1	11,911.0	66.1	65.5	112.43	-8,370.3	-356.3	458.7	327.6	131.12	3.498	
20,000.0	11,737.0	19,814.1	11,911.0	66.9	66.2	112.43	-8,470.3	-355.6	458.7	326.1	132.58	3.460	
20,100.0	11,737.0	19,914.1	11,911.0	67.6	66.9	112.43	-8,570.3	-355.0	458.7	324.7	134.04	3.422	
20,200.0	11,737.0	20,014.1	11,911.0	68.3	67.7	112.43	-8,670.3	-354.3	458.7	323.2	135.50	3.385	
20,300.0	11,737.0	20,114.1	11,911.0	69.1	68.4	112.43	-8,770.3	-353.7	458.7	321.7	136.96	3.349	
20,400.0	11,737.0	20,214.1	11,911.0	69.8	69.1	112.43	-8,870.3	-353.0	458.7	320.3	138.43	3.314	
20,500.0	11,737.0	20,314.1	11,911.0	70.6	69.9	112.43	-8,970.2	-352.4	458.7	318.8	139.89	3.279	
20,600.0	11,737.0	20,414.1	11,911.0	71.3	70.6	112.43	-9,070.2	-351.7	458.7	317.3	141.36	3.245	
20,700.0	11,737.0	20,514.1	11,911.0	72.1	71.4	112.43	-9,170.2	-351.0	458.7	315.9	142.82	3.212	
20,800.0	11,737.0	20,614.1	11,911.0	72.8	72.1	112.43	-9,270.2	-350.4	458.7	314.4	144.29	3.179	
20,900.0	11,737.0	20,714.1	11,911.0	73.6	72.8	112.43	-9,370.2	-349.7	458.7	312.9	145.76	3.147	
21,000.0	11,737.0	20,814.1	11,911.0	74.3	73.6	112.43	-9,470.2	-349.1	458.7	311.5	147.23	3.115	
21,100.0	11,737.0	20,914.1	11,911.0	75.1	74.3	112.43	-9,570.2	-348.4	458.7	310.0	148.70	3.085	
21,200.0	11,737.0	21,014.1	11,911.0	75.8	75.1	112.43	-9,670.2	-347.8	458.7	308.5	150.17	3.054	
21,300.0	11,737.0	21,114.1	11,911.0	76.6	75.8	112.43	-9,770.2	-347.1	458.7	307.0	151.65	3.025	
21,400.0	11,737.0	21,214.1	11,911.0	77.3	76.6	112.43	-9,870.2	-346.5	458.7	305.6	153.12	2.996	
21,500.0	11,737.0	21,314.1	11,911.0	78.1	77.3	112.43	-9,970.2	-345.8	458.7	304.1	154.59	2.967	
21,545.5	11,737.0	21,359.7	11,911.0	78.4	77.6	112.43	-10,015.8	-345.5	458.7	303.4	155.26	2.954	
21,594.7	11,737.0	21,408.8	11,911.0	78.8	78.0	112.43	-10,064.9	-345.2	458.7	302.7	155.98	2.941	
21,595.5	11,737.0	21,409.6	11,911.0	78.8	78.0	112.43	-10,065.7	-345.2	458.7	302.7	155.99	2.940 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11463-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	123.62	-16.7	25.1	30.1	23.1	6.98	4.311	
100.0	100.0	100.0	100.0	3.1	3.1	123.62	-16.7	25.1	30.1	22.9	7.23	4.165	
200.0	200.0	200.0	200.0	3.2	3.2	123.62	-16.7	25.1	30.1	22.6	7.46	4.032	
300.0	300.0	300.0	300.0	3.4	3.4	123.62	-16.7	25.1	30.1	22.4	7.70	3.911	
400.0	400.0	400.0	400.0	3.5	3.5	123.62	-16.7	25.1	30.1	22.2	7.92	3.799	
500.0	500.0	500.0	500.0	3.6	3.6	123.62	-16.7	25.1	30.1	22.0	8.14	3.696	
600.0	600.0	600.0	600.0	3.7	3.7	123.62	-16.7	25.1	30.1	21.7	8.36	3.600	
700.0	700.0	700.0	700.0	3.9	3.9	123.62	-16.7	25.1	30.1	21.5	8.57	3.511	
800.0	800.0	800.0	800.0	4.0	4.0	123.62	-16.7	25.1	30.1	21.3	8.78	3.428	
900.0	900.0	900.0	900.0	4.1	4.1	123.62	-16.7	25.1	30.1	21.1	8.98	3.350	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	123.62	-16.7	25.1	30.1	20.9	9.18	3.277	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	123.62	-16.7	25.1	30.1	20.7	9.38	3.208	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	123.62	-16.7	25.1	30.1	20.5	9.58	3.142	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	123.62	-16.7	25.1	30.1	20.3	9.77	3.080	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	123.62	-16.7	25.1	30.1	20.1	9.96	3.021	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	123.62	-16.7	25.1	30.1	19.9	10.15	2.966 CC, ES	
1,600.0	1,600.0	1,599.2	1,599.1	5.0	4.9	121.58	-16.5	26.8	31.4	21.3	10.11	3.108	
1,700.0	1,700.0	1,698.1	1,697.9	5.1	5.1	116.42	-15.8	31.9	35.6	25.2	10.45	3.411	
1,800.0	1,800.0	1,796.6	1,796.0	5.3	5.3	110.16	-14.8	40.3	43.1	32.3	10.81	3.987	
1,900.0	1,900.0	1,894.3	1,893.1	5.4	5.6	104.42	-13.4	52.0	54.1	42.9	11.20	4.828	
2,000.0	2,000.0	1,993.3	1,991.0	5.6	5.8	100.09	-11.7	65.6	67.2	55.7	11.59	5.804	
2,100.0	2,100.0	2,092.3	2,089.1	5.7	6.1	97.19	-10.0	79.3	80.7	68.7	11.99	6.728	
2,200.0	2,200.0	2,191.3	2,187.2	5.8	6.3	95.11	-8.3	93.0	94.2	81.8	12.41	7.592	
2,300.0	2,300.0	2,290.3	2,285.2	6.0	6.6	93.56	-6.6	106.7	107.9	95.0	12.85	8.394	
2,400.0	2,400.0	2,389.4	2,383.3	6.1	6.9	92.36	-5.0	120.3	121.6	108.3	13.31	9.138	
2,500.0	2,500.0	2,488.4	2,481.4	6.2	7.3	91.40	-3.3	134.0	135.3	121.6	13.77	9.826	
2,600.0	2,600.0	2,587.4	2,579.4	6.3	7.6	90.62	-1.6	147.7	149.1	134.9	14.25	10.463	
2,700.0	2,700.0	2,686.4	2,677.5	6.5	7.9	89.97	0.1	161.4	162.9	148.2	14.74	11.052	
2,800.0	2,800.0	2,785.5	2,775.6	6.6	8.3	89.43	1.8	175.0	176.8	161.5	15.24	11.596	
2,900.0	2,900.0	2,884.5	2,873.6	6.7	8.6	88.96	3.4	188.7	190.6	174.8	15.75	12.101	
3,000.0	3,000.0	2,983.5	2,971.7	6.8	9.0	88.55	5.1	202.4	204.4	188.2	16.27	12.568	
3,100.0	3,100.0	3,082.5	3,069.7	7.0	9.4	88.20	6.8	216.1	218.3	201.5	16.79	13.002	
3,200.0	3,200.0	3,181.6	3,167.8	7.1	9.7	87.89	8.5	229.8	232.2	214.8	17.32	13.405	
3,300.0	3,300.0	3,280.6	3,265.9	7.2	10.1	87.61	10.2	243.4	246.0	228.2	17.85	13.780	
3,400.0	3,400.0	3,379.6	3,363.9	7.3	10.5	87.36	11.8	257.1	259.9	241.5	18.39	14.130	
3,500.0	3,500.0	3,478.7	3,462.0	7.4	10.9	87.14	13.5	270.8	273.8	254.8	18.94	14.456	
3,600.0	3,600.0	3,577.7	3,560.1	7.5	11.3	86.94	15.2	284.5	287.7	268.2	19.49	14.761	
3,700.0	3,700.0	3,676.7	3,658.1	7.7	11.6	86.76	16.9	298.2	301.6	281.5	20.04	15.047	
3,800.0	3,800.0	3,775.7	3,756.2	7.8	12.0	86.60	18.6	311.8	315.4	294.8	20.60	15.314	
3,900.0	3,900.0	3,874.8	3,854.2	7.9	12.4	86.44	20.2	325.5	329.3	308.2	21.16	15.565	
4,000.0	4,000.0	3,973.8	3,952.3	8.0	12.8	86.30	21.9	339.2	343.2	321.5	21.72	15.801	
4,100.0	4,100.0	4,072.8	4,050.4	8.1	13.2	86.18	23.6	352.9	357.1	334.8	22.29	16.023	
4,200.0	4,200.0	4,171.8	4,148.4	8.2	13.6	86.06	25.3	366.6	371.0	348.2	22.86	16.232	
4,300.0	4,300.0	4,270.9	4,246.5	8.3	14.0	85.95	26.9	380.2	384.9	361.5	23.42	16.437	
4,400.0	4,400.0	4,376.5	4,351.2	8.4	14.5	85.84	28.6	394.0	398.1	374.1	24.02	16.571	
4,500.0	4,500.0	4,483.4	4,457.4	8.6	14.9	85.76	30.1	406.1	409.4	384.8	24.62	16.630	
4,600.0	4,600.0	4,590.7	4,564.2	8.7	15.3	85.69	31.4	416.2	418.9	393.7	25.19	16.629	
4,700.0	4,700.0	4,698.3	4,671.5	8.8	15.7	85.64	32.4	424.3	426.5	400.8	25.74	16.573	
4,800.0	4,800.0	4,806.2	4,779.3	8.9	16.0	85.60	33.1	430.5	432.3	406.0	26.25	16.469	
4,900.0	4,900.0	4,914.3	4,887.3	9.0	16.4	85.58	33.6	434.6	436.1	409.4	26.71	16.327	
5,000.0	5,000.0	5,022.6	4,995.5	9.1	16.7	85.56	33.9	436.7	438.1	411.0	27.09	16.173	
5,100.0	5,100.0	5,127.1	5,100.0	9.2	16.8	85.56	33.9	437.0	438.4	411.1	27.26	16.080	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11463-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.0	5,200.0	5,227.1	5,200.0	9.3	16.8	85.56	33.9	437.0	438.4	411.0	27.40	16.001	
5,300.0	5,300.0	5,327.1	5,300.0	9.4	16.9	85.56	33.9	437.0	438.4	410.8	27.52	15.926	
5,400.0	5,400.0	5,427.1	5,400.0	9.5	16.9	85.56	33.9	437.0	438.4	410.7	27.65	15.853	
5,500.0	5,500.0	5,527.1	5,500.0	9.6	16.9	85.56	33.9	437.0	438.4	410.6	27.78	15.780	
5,600.0	5,600.0	5,627.1	5,600.0	9.7	17.0	85.56	33.9	437.0	438.4	410.4	27.91	15.707	
5,700.0	5,700.0	5,727.1	5,700.0	9.8	17.0	85.56	33.9	437.0	438.4	410.3	28.04	15.635	
5,800.0	5,800.0	5,827.1	5,800.0	9.9	17.1	85.56	33.9	437.0	438.4	410.2	28.17	15.563	
5,900.0	5,900.0	5,927.1	5,900.0	10.0	17.1	85.56	33.9	437.0	438.4	410.1	28.30	15.492	
6,000.0	6,000.0	6,027.1	6,000.0	10.1	17.2	85.56	33.9	437.0	438.4	409.9	28.43	15.421	
6,100.0	6,100.0	6,127.1	6,100.0	10.2	17.2	85.56	33.9	437.0	438.4	409.8	28.56	15.351	
6,200.0	6,200.0	6,227.1	6,200.0	10.3	17.3	85.56	33.9	437.0	438.4	409.7	28.69	15.281	
6,300.0	6,300.0	6,327.1	6,300.0	10.4	17.3	85.56	33.9	437.0	438.4	409.5	28.82	15.212	
6,400.0	6,400.0	6,427.1	6,400.0	10.5	17.4	85.56	33.9	437.0	438.4	409.4	28.95	15.143	
6,500.0	6,500.0	6,527.1	6,500.0	10.6	17.4	85.56	33.9	437.0	438.4	409.3	29.08	15.074	
6,600.0	6,600.0	6,627.1	6,600.0	10.7	17.5	85.56	33.9	437.0	438.4	409.1	29.21	15.006	
6,700.0	6,700.0	6,727.1	6,700.0	10.8	17.5	85.56	33.9	437.0	438.4	409.0	29.34	14.939	
6,800.0	6,800.0	6,827.1	6,800.0	10.9	17.6	85.56	33.9	437.0	438.4	408.9	29.48	14.872	
6,900.0	6,900.0	6,927.1	6,900.0	11.0	17.6	85.56	33.9	437.0	438.4	408.7	29.61	14.805	
7,000.0	7,000.0	7,027.1	7,000.0	11.1	17.7	85.56	33.9	437.0	438.4	408.6	29.74	14.739	
7,100.0	7,100.0	7,127.1	7,100.0	11.2	17.7	85.56	33.9	437.0	438.4	408.5	29.87	14.673	
7,200.0	7,200.0	7,227.1	7,200.0	11.3	17.8	85.56	33.9	437.0	438.4	408.3	30.01	14.608	
7,300.0	7,300.0	7,327.1	7,300.0	11.4	17.8	85.56	33.9	437.0	438.4	408.2	30.14	14.543	
7,400.0	7,400.0	7,427.1	7,400.0	11.5	17.9	85.56	33.9	437.0	438.4	408.1	30.28	14.479	
7,500.0	7,500.0	7,527.1	7,500.0	11.6	17.9	85.56	33.9	437.0	438.4	407.9	30.41	14.415	
7,600.0	7,600.0	7,627.1	7,600.0	11.7	18.0	85.56	33.9	437.0	438.4	407.8	30.54	14.351	
7,700.0	7,700.0	7,727.1	7,700.0	11.8	18.0	85.56	33.9	437.0	438.4	407.7	30.68	14.288	
7,800.0	7,800.0	7,827.1	7,800.0	11.9	18.1	85.56	33.9	437.0	438.4	407.5	30.81	14.226	
7,900.0	7,900.0	7,927.1	7,900.0	12.0	18.1	85.56	33.9	437.0	438.4	407.4	30.95	14.163	
8,000.0	8,000.0	8,027.1	8,000.0	12.1	18.2	85.56	33.9	437.0	438.4	407.3	31.09	14.102	
8,100.0	8,100.0	8,127.1	8,100.0	12.2	18.2	85.56	33.9	437.0	438.4	407.1	31.22	14.040	
8,200.0	8,200.0	8,227.1	8,200.0	12.3	18.3	85.56	33.9	437.0	438.4	407.0	31.36	13.979	
8,300.0	8,300.0	8,327.1	8,300.0	12.4	18.3	85.56	33.9	437.0	438.4	406.9	31.49	13.919	
8,400.0	8,400.0	8,427.1	8,400.0	12.5	18.4	85.56	33.9	437.0	438.4	406.7	31.63	13.859	
8,500.0	8,500.0	8,527.1	8,500.0	12.6	18.5	85.56	33.9	437.0	438.4	406.6	31.77	13.799	
8,600.0	8,600.0	8,627.1	8,600.0	12.7	18.5	85.56	33.9	437.0	438.4	406.5	31.90	13.740	
8,700.0	8,700.0	8,727.1	8,700.0	12.8	18.6	85.56	33.9	437.0	438.4	406.3	32.04	13.681	
8,800.0	8,800.0	8,827.1	8,800.0	12.9	18.6	85.56	33.9	437.0	438.4	406.2	32.18	13.623	
8,900.0	8,900.0	8,927.1	8,900.0	13.0	18.7	85.56	33.9	437.0	438.4	406.0	32.32	13.565	
9,000.0	9,000.0	9,027.1	9,000.0	13.0	18.7	85.56	33.9	437.0	438.4	405.9	32.45	13.507	
9,100.0	9,100.0	9,127.1	9,100.0	13.1	18.8	85.56	33.9	437.0	438.4	405.8	32.59	13.450	
9,200.0	9,200.0	9,227.1	9,200.0	13.2	18.8	85.56	33.9	437.0	438.4	405.6	32.73	13.393	
9,300.0	9,300.0	9,327.1	9,300.0	13.3	18.9	85.56	33.9	437.0	438.4	405.5	32.87	13.336	
9,400.0	9,400.0	9,427.1	9,400.0	13.4	18.9	85.56	33.9	437.0	438.4	405.3	33.01	13.280	
9,500.0	9,500.0	9,527.1	9,500.0	13.5	19.0	85.56	33.9	437.0	438.4	405.2	33.15	13.225	
9,600.0	9,600.0	9,627.1	9,600.0	13.6	19.1	85.56	33.9	437.0	438.4	405.1	33.29	13.169	
9,700.0	9,700.0	9,727.1	9,700.0	13.7	19.1	85.56	33.9	437.0	438.4	404.9	33.43	13.115	
9,800.0	9,800.0	9,827.1	9,800.0	13.8	19.2	85.56	33.9	437.0	438.4	404.8	33.56	13.060	
9,900.0	9,900.0	9,927.1	9,900.0	13.9	19.2	85.56	33.9	437.0	438.4	404.7	33.70	13.006	
10,000.0	10,000.0	10,027.1	10,000.0	14.0	19.3	85.56	33.9	437.0	438.4	404.5	33.84	12.952	
10,100.0	10,100.0	10,127.1	10,100.0	14.1	19.3	85.56	33.9	437.0	438.4	404.4	33.98	12.899	
10,200.0	10,200.0	10,227.1	10,200.0	14.2	19.4	85.56	33.9	437.0	438.4	404.2	34.13	12.846	
10,300.0	10,300.0	10,327.1	10,300.0	14.3	19.4	85.56	33.9	437.0	438.4	404.1	34.27	12.793	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11463-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.0	10,400.0	10,427.1	10,400.0	14.4	19.5	85.56	33.9	437.0	438.4	404.0	34.41	12.741	
10,500.0	10,500.0	10,527.1	10,500.0	14.4	19.6	85.56	33.9	437.0	438.4	403.8	34.55	12.689	
10,600.0	10,600.0	10,627.1	10,600.0	14.5	19.6	85.56	33.9	437.0	438.4	403.7	34.69	12.637	
10,700.0	10,700.0	10,727.1	10,700.0	14.6	19.7	85.56	33.9	437.0	438.4	403.5	34.83	12.586	
10,800.0	10,800.0	10,827.1	10,800.0	14.7	19.7	85.56	33.9	437.0	438.4	403.4	34.97	12.535	
10,900.0	10,900.0	10,927.1	10,900.0	14.8	19.8	85.56	33.9	437.0	438.4	403.2	35.11	12.484	
11,000.0	11,000.0	11,027.1	11,000.0	14.9	19.9	85.56	33.9	437.0	438.4	403.1	35.25	12.434	
11,100.0	11,100.0	11,127.1	11,100.0	15.0	19.9	85.56	33.9	437.0	438.4	403.0	35.40	12.384	
11,200.0	11,200.0	11,227.1	11,200.0	15.1	20.0	85.56	33.9	437.0	438.4	402.8	35.54	12.335	
11,259.5	11,259.5	11,286.6	11,259.5	15.1	20.0	85.56	33.9	437.0	438.4	402.7	35.61	12.310	
11,275.0	11,275.0	11,302.1	11,275.0	15.1	20.0	-92.62	33.9	437.0	438.4	402.9	35.49	12.350	
11,300.0	11,300.0	11,327.0	11,300.0	15.1	20.0	-92.80	33.9	437.0	438.4	402.9	35.52	12.345	
11,325.0	11,324.8	11,351.9	11,324.8	15.2	20.0	-93.14	33.9	437.0	438.6	403.0	35.54	12.341	
11,350.0	11,349.5	11,376.5	11,349.5	15.2	20.1	-93.64	33.9	437.0	438.8	403.3	35.56	12.340	
11,375.0	11,373.9	11,400.9	11,373.9	15.2	20.1	-94.27	33.9	437.0	439.2	403.6	35.58	12.343	
11,400.0	11,398.0	11,425.1	11,398.0	15.2	20.1	-95.03	33.9	437.0	439.8	404.2	35.60	12.352	
11,425.0	11,421.7	11,448.8	11,421.7	15.2	20.1	-95.91	33.9	437.0	440.6	404.9	35.62	12.369	
11,450.0	11,445.0	11,473.6	11,446.6	15.2	20.1	-96.94	33.8	437.0	441.6	406.1	35.54	12.428	
11,475.0	11,467.8	11,501.1	11,474.0	15.3	20.1	-98.08	32.4	437.1	442.9	407.3	35.53	12.466	
11,500.0	11,490.0	11,529.3	11,502.0	15.3	20.1	-99.21	29.3	437.1	444.2	408.7	35.51	12.509	
11,525.0	11,511.5	11,558.2	11,530.5	15.3	20.1	-100.33	24.4	437.1	445.7	410.2	35.51	12.554	
11,550.0	11,532.4	11,587.9	11,559.4	15.3	20.1	-101.44	17.6	437.1	447.3	411.8	35.50	12.598	
11,575.0	11,552.5	11,618.3	11,588.5	15.4	20.1	-102.53	8.8	437.2	448.9	413.4	35.52	12.640	
11,600.0	11,571.9	11,649.6	11,617.8	15.4	20.1	-103.59	-2.2	437.3	450.6	415.1	35.55	12.676	
11,625.0	11,590.3	11,681.8	11,647.1	15.4	20.1	-104.63	-15.5	437.4	452.3	416.7	35.60	12.705	
11,650.0	11,607.9	11,714.8	11,676.1	15.4	20.1	-105.63	-31.1	437.5	454.0	418.3	35.69	12.723	
11,675.0	11,624.5	11,748.6	11,704.8	15.5	20.1	-106.60	-49.2	437.6	455.7	419.9	35.80	12.728	
11,700.0	11,640.1	11,783.4	11,732.7	15.5	20.1	-107.51	-69.8	437.7	457.2	421.3	35.95	12.720	
11,725.0	11,654.7	11,819.0	11,759.7	15.5	20.2	-108.38	-93.0	437.9	458.7	422.6	36.13	12.696	
11,750.0	11,668.2	11,855.4	11,785.5	15.6	20.2	-109.18	-118.7	438.0	460.0	423.7	36.34	12.659	
11,775.0	11,680.5	11,892.6	11,809.7	15.6	20.2	-109.91	-146.9	438.2	461.2	424.6	36.58	12.609	
11,800.0	11,691.8	11,930.5	11,832.0	15.6	20.2	-110.57	-177.5	438.4	462.2	425.3	36.83	12.548	
11,825.0	11,701.8	11,969.0	11,852.2	15.6	20.2	-111.14	-210.4	438.6	462.9	425.8	37.09	12.479	
11,850.0	11,710.6	12,008.1	11,869.9	15.7	20.3	-111.62	-245.2	438.9	463.3	426.0	37.35	12.405	
11,875.0	11,718.2	12,047.5	11,884.8	15.7	20.3	-112.00	-281.7	439.1	463.5	425.9	37.59	12.330	
11,900.0	11,724.5	12,087.3	11,896.7	15.7	20.3	-112.28	-319.7	439.3	463.4	425.6	37.81	12.257	
11,925.0	11,729.5	12,127.2	11,905.4	15.7	20.4	-112.45	-358.6	439.6	463.0	425.0	37.99	12.188	
11,950.0	11,733.3	12,167.1	11,910.8	15.7	20.4	-112.52	-398.1	439.9	462.3	424.1	38.12	12.126	
11,975.0	11,735.8	12,206.9	11,913.0	15.7	20.5	-112.47	-437.8	440.1	461.2	423.0	38.21	12.072	
12,000.0	11,736.9	12,234.0	11,913.0	15.7	20.5	-112.47	-464.9	440.3	460.2	422.0	38.27	12.027	
12,009.5	11,737.0	12,243.5	11,913.0	15.7	20.5	-112.50	-474.4	440.4	460.0	421.7	38.30	12.011	
12,083.4	11,737.0	12,317.4	11,913.0	15.8	20.7	-112.54	-548.3	440.8	459.1	420.5	38.56	11.906	
12,100.0	11,737.0	12,334.0	11,913.0	15.8	20.7	-112.54	-564.9	440.9	459.1	420.5	38.62	11.888	
12,200.0	11,737.0	12,434.0	11,913.0	16.0	20.9	-112.54	-664.9	441.6	459.1	420.1	39.02	11.765	
12,300.0	11,737.0	12,534.0	11,913.0	16.3	21.1	-112.54	-764.9	442.2	459.1	419.6	39.48	11.629	
12,400.0	11,737.0	12,634.0	11,913.0	16.6	21.4	-112.54	-864.9	442.9	459.1	419.1	39.99	11.481	
12,500.0	11,737.0	12,734.0	11,913.0	16.9	21.6	-112.54	-964.9	443.5	459.1	418.5	40.54	11.323	
12,600.0	11,737.0	12,834.0	11,913.0	17.3	21.9	-112.54	-1,064.9	444.2	459.1	417.9	41.15	11.155	
12,700.0	11,737.0	12,934.0	11,913.0	17.7	22.2	-112.54	-1,164.9	444.8	459.1	417.3	41.81	10.981	
12,800.0	11,737.0	13,034.0	11,913.0	18.1	22.6	-112.54	-1,264.9	445.5	459.1	416.6	42.51	10.800	
12,900.0	11,737.0	13,134.0	11,913.0	18.6	22.9	-112.54	-1,364.9	446.1	459.1	415.8	43.25	10.615	
13,000.0	11,737.0	13,234.0	11,913.0	19.0	23.3	-112.54	-1,464.9	446.8	459.1	415.0	44.03	10.427	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11463-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance		Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,100.0	11,737.0	13,334.0	11,913.0	19.5	23.7	-112.54	-1,564.9	447.5	459.1	414.2	44.85	10.237	
13,200.0	11,737.0	13,434.0	11,913.0	20.0	24.1	-112.54	-1,664.9	448.1	459.1	413.4	45.70	10.045	
13,300.0	11,737.0	13,534.0	11,913.0	20.5	24.5	-112.54	-1,764.9	448.8	459.1	412.5	46.59	9.854	
13,400.0	11,737.0	13,634.0	11,913.0	21.0	25.0	-112.54	-1,864.9	449.4	459.1	411.6	47.51	9.663	
13,500.0	11,737.0	13,734.0	11,913.0	21.6	25.4	-112.54	-1,964.9	450.1	459.1	410.6	48.46	9.474	
13,600.0	11,737.0	13,834.0	11,913.0	22.1	25.9	-112.54	-2,064.9	450.7	459.1	409.6	49.44	9.286	
13,700.0	11,737.0	13,934.0	11,913.0	22.7	26.4	-112.54	-2,164.9	451.4	459.1	408.6	50.44	9.101	
13,800.0	11,737.0	14,034.0	11,913.0	23.3	26.9	-112.54	-2,264.9	452.0	459.1	407.6	51.47	8.919	
13,900.0	11,737.0	14,134.0	11,913.0	23.9	27.4	-112.54	-2,364.9	452.7	459.1	406.5	52.52	8.740	
14,000.0	11,737.0	14,234.0	11,913.0	24.5	27.9	-112.54	-2,464.9	453.3	459.1	405.5	53.60	8.565	
14,100.0	11,737.0	14,334.0	11,913.0	25.1	28.5	-112.54	-2,564.9	454.0	459.1	404.4	54.70	8.393	
14,200.0	11,737.0	14,434.0	11,913.0	25.7	29.0	-112.54	-2,664.9	454.6	459.1	403.3	55.81	8.225	
14,300.0	11,737.0	14,534.0	11,913.0	26.3	29.6	-112.54	-2,764.9	455.3	459.1	402.1	56.95	8.062	
14,400.0	11,737.0	14,634.0	11,913.0	26.9	30.1	-112.54	-2,864.9	455.9	459.1	401.0	58.10	7.902	
14,500.0	11,737.0	14,734.0	11,913.0	27.6	30.7	-112.54	-2,964.9	456.6	459.1	399.8	59.26	7.746	
14,600.0	11,737.0	14,834.0	11,913.0	28.2	31.3	-112.54	-3,064.9	457.2	459.1	398.6	60.45	7.595	
14,700.0	11,737.0	14,934.0	11,913.0	28.9	31.9	-112.54	-3,164.8	457.9	459.1	397.4	61.65	7.447	
14,800.0	11,737.0	15,034.0	11,913.0	29.5	32.5	-112.54	-3,264.8	458.5	459.1	396.2	62.86	7.303	
14,900.0	11,737.0	15,134.0	11,913.0	30.2	33.1	-112.54	-3,364.8	459.2	459.1	395.0	64.08	7.164	
15,000.0	11,737.0	15,234.0	11,913.0	30.9	33.7	-112.54	-3,464.8	459.8	459.1	393.8	65.32	7.028	
15,100.0	11,737.0	15,334.0	11,913.0	31.5	34.3	-112.54	-3,564.8	460.5	459.1	392.5	66.56	6.897	
15,200.0	11,737.0	15,434.0	11,913.0	32.2	34.9	-112.54	-3,664.8	461.1	459.1	391.2	67.82	6.769	
15,300.0	11,737.0	15,534.0	11,913.0	32.9	35.5	-112.54	-3,764.8	461.8	459.1	390.0	69.09	6.644	
15,400.0	11,737.0	15,634.0	11,913.0	33.6	36.2	-112.54	-3,864.8	462.4	459.1	388.7	70.37	6.524	
15,500.0	11,737.0	15,734.0	11,913.0	34.3	36.8	-112.54	-3,964.8	463.1	459.1	387.4	71.66	6.407	
15,600.0	11,737.0	15,834.0	11,913.0	34.9	37.5	-112.54	-4,064.8	463.7	459.1	386.1	72.95	6.293	
15,700.0	11,737.0	15,934.0	11,913.0	35.6	38.1	-112.54	-4,164.8	464.4	459.1	384.8	74.26	6.182	
15,800.0	11,737.0	16,034.0	11,913.0	36.3	38.7	-112.54	-4,264.8	465.0	459.1	383.5	75.57	6.075	
15,900.0	11,737.0	16,134.0	11,913.0	37.0	39.4	-112.54	-4,364.8	465.7	459.1	382.2	76.89	5.971	
16,000.0	11,737.0	16,234.0	11,913.0	37.7	40.1	-112.54	-4,464.8	466.3	459.1	380.9	78.22	5.869	
16,100.0	11,737.0	16,334.0	11,913.0	38.4	40.7	-112.54	-4,564.8	467.0	459.1	379.5	79.55	5.771	
16,200.0	11,737.0	16,434.0	11,913.0	39.1	41.4	-112.54	-4,664.8	467.6	459.1	378.2	80.89	5.675	
16,300.0	11,737.0	16,534.0	11,913.0	39.8	42.1	-112.54	-4,764.8	468.3	459.1	376.8	82.23	5.583	
16,400.0	11,737.0	16,634.0	11,913.0	40.5	42.7	-112.54	-4,864.8	468.9	459.1	375.5	83.58	5.492	
16,500.0	11,737.0	16,734.0	11,913.0	41.3	43.4	-112.54	-4,964.8	469.6	459.1	374.1	84.94	5.405	
16,600.0	11,737.0	16,834.0	11,913.0	42.0	44.1	-112.54	-5,064.8	470.2	459.1	372.8	86.30	5.319	
16,700.0	11,737.0	16,934.0	11,913.0	42.7	44.8	-112.54	-5,164.8	470.9	459.1	371.4	87.67	5.236	
16,800.0	11,737.0	17,034.0	11,913.0	43.4	45.4	-112.54	-5,264.8	471.5	459.1	370.0	89.04	5.156	
16,900.0	11,737.0	17,134.0	11,913.0	44.1	46.1	-112.54	-5,364.8	472.2	459.1	368.7	90.42	5.077	
17,000.0	11,737.0	17,234.0	11,913.0	44.8	46.8	-112.54	-5,464.8	472.8	459.1	367.3	91.80	5.001	
17,100.0	11,737.0	17,334.0	11,913.0	45.6	47.5	-112.54	-5,564.8	473.5	459.1	365.9	93.18	4.927	
17,200.0	11,737.0	17,434.0	11,913.0	46.3	48.2	-112.54	-5,664.8	474.1	459.1	364.5	94.57	4.854	
17,300.0	11,737.0	17,534.0	11,913.0	47.0	48.9	-112.54	-5,764.8	474.8	459.1	363.1	95.96	4.784	
17,400.0	11,737.0	17,634.0	11,913.0	47.7	49.6	-112.54	-5,864.8	475.4	459.1	361.7	97.35	4.715	
17,500.0	11,737.0	17,734.0	11,913.0	48.4	50.3	-112.54	-5,964.8	476.1	459.1	360.3	98.75	4.649	
17,600.0	11,737.0	17,834.0	11,913.0	49.2	51.0	-112.54	-6,064.8	476.7	459.1	358.9	100.16	4.584	
17,700.0	11,737.0	17,934.0	11,913.0	49.9	51.7	-112.54	-6,164.8	477.4	459.1	357.5	101.56	4.520	
17,800.0	11,737.0	18,034.0	11,913.0	50.6	52.4	-112.54	-6,264.8	478.0	459.1	356.1	102.97	4.458	
17,900.0	11,737.0	18,134.0	11,913.0	51.4	53.1	-112.54	-6,364.8	478.7	459.1	354.7	104.38	4.398	
18,000.0	11,737.0	18,234.0	11,913.0	52.1	53.8	-112.54	-6,464.8	479.3	459.1	353.3	105.79	4.339	
18,100.0	11,737.0	18,334.0	11,913.0	52.8	54.5	-112.54	-6,564.8	480.0	459.1	351.9	107.21	4.282	
18,200.0	11,737.0	18,434.0	11,913.0	53.6	55.2	-112.54	-6,664.8	480.7	459.1	350.4	108.63	4.226	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11463-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,300.0	11,737.0	18,534.0	11,913.0	54.3	55.9	-112.54	-6,764.8	481.3	459.1	349.0	110.05	4.171	
18,400.0	11,737.0	18,634.0	11,913.0	55.0	56.7	-112.54	-6,864.8	482.0	459.1	347.6	111.48	4.118	
18,500.0	11,737.0	18,734.0	11,913.0	55.8	57.4	-112.54	-6,964.8	482.6	459.1	346.2	112.90	4.066	
18,600.0	11,737.0	18,834.0	11,913.0	56.5	58.1	-112.54	-7,064.8	483.3	459.1	344.7	114.33	4.015	
18,700.0	11,737.0	18,934.0	11,913.0	57.2	58.8	-112.54	-7,164.8	483.9	459.1	343.3	115.76	3.966	
18,800.0	11,737.0	19,034.0	11,913.0	58.0	59.5	-112.54	-7,264.8	484.6	459.1	341.9	117.19	3.917	
18,900.0	11,737.0	19,134.0	11,913.0	58.7	60.2	-112.54	-7,364.8	485.2	459.1	340.4	118.63	3.870	
19,000.0	11,737.0	19,234.0	11,913.0	59.4	61.0	-112.54	-7,464.8	485.9	459.1	339.0	120.06	3.824	
19,100.0	11,737.0	19,334.0	11,913.0	60.2	61.7	-112.54	-7,564.8	486.5	459.1	337.6	121.50	3.778	
19,200.0	11,737.0	19,434.0	11,913.0	60.9	62.4	-112.54	-7,664.8	487.2	459.1	336.1	122.94	3.734	
19,300.0	11,737.0	19,534.0	11,913.0	61.7	63.1	-112.54	-7,764.8	487.8	459.1	334.7	124.38	3.691	
19,400.0	11,737.0	19,634.0	11,913.0	62.4	63.8	-112.54	-7,864.7	488.5	459.1	333.2	125.83	3.648	
19,500.0	11,737.0	19,734.0	11,913.0	63.1	64.6	-112.54	-7,964.7	489.1	459.1	331.8	127.27	3.607	
19,600.0	11,737.0	19,834.0	11,913.0	63.9	65.3	-112.54	-8,064.7	489.8	459.1	330.3	128.72	3.566	
19,700.0	11,737.0	19,934.0	11,913.0	64.6	66.0	-112.54	-8,164.7	490.4	459.1	328.9	130.17	3.527	
19,800.0	11,737.0	20,034.0	11,913.0	65.4	66.8	-112.54	-8,264.7	491.1	459.1	327.5	131.62	3.488	
19,900.0	11,737.0	20,134.0	11,913.0	66.1	67.5	-112.54	-8,364.7	491.7	459.1	326.0	133.07	3.450	
20,000.0	11,737.0	20,234.0	11,913.0	66.9	68.2	-112.54	-8,464.7	492.4	459.1	324.5	134.52	3.413	
20,100.0	11,737.0	20,334.0	11,913.0	67.6	68.9	-112.54	-8,564.7	493.0	459.1	323.1	135.97	3.376	
20,200.0	11,737.0	20,434.0	11,913.0	68.3	69.7	-112.54	-8,664.7	493.7	459.1	321.6	137.43	3.340	
20,300.0	11,737.0	20,534.0	11,913.0	69.1	70.4	-112.54	-8,764.7	494.3	459.1	320.2	138.88	3.305	
20,400.0	11,737.0	20,634.0	11,913.0	69.8	71.1	-112.54	-8,864.7	495.0	459.1	318.7	140.34	3.271	
20,500.0	11,737.0	20,734.0	11,913.0	70.6	71.9	-112.54	-8,964.7	495.6	459.1	317.3	141.80	3.237	
20,600.0	11,737.0	20,834.0	11,913.0	71.3	72.6	-112.54	-9,064.7	496.3	459.1	315.8	143.26	3.204	
20,700.0	11,737.0	20,934.0	11,913.0	72.1	73.3	-112.54	-9,164.7	496.9	459.1	314.3	144.72	3.172	
20,800.0	11,737.0	21,034.0	11,913.0	72.8	74.1	-112.54	-9,264.7	497.6	459.1	312.9	146.18	3.140	
20,900.0	11,737.0	21,134.0	11,913.0	73.6	74.8	-112.54	-9,364.7	498.2	459.1	311.4	147.64	3.109	
21,000.0	11,737.0	21,234.0	11,913.0	74.3	75.5	-112.54	-9,464.7	498.9	459.1	310.0	149.10	3.079	
21,100.0	11,737.0	21,334.0	11,913.0	75.1	76.3	-112.54	-9,564.7	499.5	459.1	308.5	150.57	3.049	
21,200.0	11,737.0	21,434.0	11,913.0	75.8	77.0	-112.54	-9,664.7	500.2	459.1	307.0	152.03	3.019	
21,300.0	11,737.0	21,534.0	11,913.0	76.6	77.7	-112.54	-9,764.7	500.8	459.1	305.6	153.50	2.991	
21,400.0	11,737.0	21,634.0	11,913.0	77.3	78.5	-112.54	-9,864.7	501.5	459.1	304.1	154.97	2.962	
21,500.0	11,737.0	21,734.0	11,913.0	78.1	79.2	-112.54	-9,964.7	502.1	459.1	302.6	156.43	2.935	
21,545.5	11,737.0	21,779.5	11,913.0	78.4	79.6	-112.54	-10,010.2	502.4	459.1	302.0	157.10	2.922	
21,595.5	11,737.0	21,829.5	11,913.0	78.8	79.9	-112.54	-10,060.2	502.8	459.1	301.2	157.83	2.909 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	123.74	-33.5	50.2	60.4	53.4	6.98	8.651	
100.0	100.0	100.0	100.0	3.1	3.1	123.74	-33.5	50.2	60.4	53.2	7.23	8.358	
200.0	200.0	200.0	200.0	3.2	3.2	123.74	-33.5	50.2	60.4	52.9	7.46	8.091	
300.0	300.0	300.0	300.0	3.4	3.4	123.74	-33.5	50.2	60.4	52.7	7.70	7.848	
400.0	400.0	400.0	400.0	3.5	3.5	123.74	-33.5	50.2	60.4	52.5	7.92	7.624	
500.0	500.0	500.0	500.0	3.6	3.6	123.74	-33.5	50.2	60.4	52.2	8.14	7.417	
600.0	600.0	600.0	600.0	3.7	3.7	123.74	-33.5	50.2	60.4	52.0	8.36	7.225	
700.0	700.0	700.0	700.0	3.9	3.9	123.74	-33.5	50.2	60.4	51.8	8.57	7.046	
800.0	800.0	800.0	800.0	4.0	4.0	123.74	-33.5	50.2	60.4	51.6	8.78	6.879	
900.0	900.0	900.0	900.0	4.1	4.1	123.74	-33.5	50.2	60.4	51.4	8.98	6.723	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	123.74	-33.5	50.2	60.4	51.2	9.18	6.575	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	123.74	-33.5	50.2	60.4	51.0	9.38	6.437	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	123.74	-33.5	50.2	60.4	50.8	9.58	6.305	
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	123.74	-33.5	50.2	60.4	50.6	9.77	6.181	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	123.74	-33.5	50.2	60.4	50.4	9.96	6.063	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	123.74	-33.5	50.2	60.4	50.2	10.15	5.951 CC, ES	
1,600.0	1,600.0	1,598.3	1,598.3	5.0	4.9	122.78	-33.4	51.9	61.8	51.6	10.12	6.100	
1,700.0	1,700.0	1,696.4	1,696.3	5.1	5.1	120.15	-33.1	56.9	65.9	55.5	10.47	6.297	
1,800.0	1,800.0	1,794.0	1,793.5	5.3	5.3	116.47	-32.5	65.3	73.2	62.4	10.83	6.756	
1,900.0	1,900.0	1,891.0	1,889.8	5.4	5.6	112.42	-31.7	76.8	83.7	72.5	11.21	7.465	
2,000.0	2,000.0	1,987.1	1,984.7	5.6	5.9	108.54	-30.7	91.4	97.6	86.0	11.62	8.404	
2,100.0	2,100.0	2,082.0	2,078.0	5.7	6.2	105.11	-29.4	109.0	115.0	103.0	12.04	9.549	
2,200.0	2,200.0	2,179.2	2,173.0	5.8	6.5	102.25	-28.0	129.1	134.8	122.3	12.48	10.805	
2,300.0	2,300.0	2,277.0	2,268.7	6.0	6.8	100.10	-26.6	149.4	154.9	142.0	12.93	11.983	
2,400.0	2,400.0	2,374.8	2,364.4	6.1	7.1	98.44	-25.2	169.7	175.2	161.8	13.40	13.073	
2,500.0	2,500.0	2,472.6	2,460.1	6.2	7.4	97.13	-23.8	189.9	195.5	181.7	13.89	14.079	
2,600.0	2,600.0	2,570.4	2,555.8	6.3	7.8	96.07	-22.4	210.2	216.0	201.6	14.39	15.006	
2,700.0	2,700.0	2,668.2	2,651.4	6.5	8.1	95.19	-20.9	230.5	236.5	221.6	14.91	15.859	
2,800.0	2,800.0	2,766.0	2,747.1	6.6	8.5	94.45	-19.5	250.8	257.1	241.6	15.44	16.644	
2,900.0	2,900.0	2,863.9	2,842.8	6.7	8.9	93.82	-18.1	271.1	277.7	261.7	15.99	17.367	
3,000.0	3,000.0	2,961.7	2,938.5	6.8	9.3	93.28	-16.7	291.4	298.3	281.7	16.54	18.034	
3,100.0	3,100.0	3,059.5	3,034.1	7.0	9.6	92.80	-15.3	311.7	318.9	301.8	17.10	18.649	
3,200.0	3,200.0	3,157.3	3,129.8	7.1	10.0	92.39	-13.8	332.0	339.6	321.9	17.67	19.216	
3,300.0	3,300.0	3,255.1	3,225.5	7.2	10.4	92.02	-12.4	352.2	360.3	342.0	18.25	19.742	
3,400.0	3,400.0	3,352.9	3,321.2	7.3	10.9	91.69	-11.0	372.5	380.9	362.1	18.83	20.229	
3,500.0	3,500.0	3,450.7	3,416.8	7.4	11.3	91.40	-9.6	392.8	401.6	382.2	19.42	20.680	
3,600.0	3,600.0	3,548.6	3,512.5	7.5	11.7	91.13	-8.2	413.1	422.3	402.3	20.02	21.100	
3,700.0	3,700.0	3,646.4	3,608.2	7.7	12.1	90.89	-6.7	433.4	443.1	422.4	20.62	21.491	
3,800.0	3,800.0	3,744.2	3,703.9	7.8	12.5	90.67	-5.3	453.7	463.8	442.6	21.22	21.855	
3,900.0	3,900.0	3,842.0	3,799.6	7.9	12.9	90.47	-3.9	474.0	484.5	462.7	21.83	22.196	
4,000.0	4,000.0	3,939.8	3,895.2	8.0	13.4	90.29	-2.5	494.3	505.2	482.8	22.44	22.514	
4,100.0	4,100.0	4,037.6	3,990.9	8.1	13.8	90.12	-1.1	514.5	526.0	502.9	23.06	22.812	
4,200.0	4,200.0	4,135.4	4,086.6	8.2	14.2	89.96	0.3	534.8	546.7	523.0	23.68	23.092	
4,300.0	4,300.0	4,233.3	4,182.3	8.3	14.7	89.82	1.8	555.1	567.5	543.2	24.30	23.354	
4,400.0	4,400.0	4,331.1	4,277.9	8.4	15.1	89.68	3.2	575.4	588.2	563.3	24.92	23.601	
4,500.0	4,500.0	4,428.9	4,373.6	8.6	15.6	89.56	4.6	595.7	609.0	583.4	25.55	23.834	
4,600.0	4,600.0	4,526.7	4,469.3	8.7	16.0	89.44	6.0	616.0	629.7	603.5	26.18	24.054	
4,700.0	4,700.0	4,624.5	4,565.0	8.8	16.4	89.33	7.4	636.3	650.5	623.7	26.81	24.261	
4,800.0	4,800.0	4,722.3	4,660.7	8.9	16.9	89.23	8.9	656.6	671.2	643.8	27.45	24.457	
4,900.0	4,900.0	4,820.1	4,756.3	9.0	17.3	89.13	10.3	676.8	692.0	663.9	28.08	24.643	
5,000.0	5,000.0	4,918.0	4,852.0	9.1	17.8	89.04	11.7	697.1	712.8	684.0	28.72	24.819	
5,100.0	5,100.0	5,015.8	4,947.7	9.2	18.2	88.95	13.1	717.4	733.5	704.2	29.36	24.985	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0											Offset Site Error:		0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-r.5 MWD+IFR1+MS											Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre				Rule Assigned:			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,200.0	5,200.0	5,114.9	5,044.6	9.3	18.7	88.87	14.6	738.0	754.3	724.3	30.01	25.134			
5,300.0	5,300.0	5,228.0	5,155.5	9.4	19.2	88.79	16.1	760.1	773.9	743.2	30.74	25.177			
5,400.0	5,400.0	5,342.0	5,267.7	9.5	19.7	88.71	17.5	780.3	791.6	760.2	31.45	25.168			
5,500.0	5,500.0	5,456.7	5,381.0	9.6	20.2	88.65	18.8	798.3	807.3	775.2	32.15	25.115			
5,600.0	5,600.0	5,572.2	5,495.4	9.7	20.7	88.60	19.9	814.1	821.1	788.3	32.81	25.024			
5,700.0	5,700.0	5,688.2	5,610.6	9.8	21.1	88.56	20.8	827.7	832.8	799.4	33.45	24.897			
5,800.0	5,800.0	5,804.8	5,726.6	9.9	21.6	88.52	21.6	839.1	842.5	808.5	34.06	24.740			
5,900.0	5,900.0	5,921.7	5,843.2	10.0	22.0	88.50	22.2	848.0	850.2	815.6	34.62	24.561			
6,000.0	6,000.0	6,039.0	5,960.3	10.1	22.4	88.48	22.7	854.7	855.9	820.8	35.13	24.362			
6,100.0	6,100.0	6,156.5	6,077.7	10.2	22.8	88.47	23.0	858.9	859.5	823.9	35.59	24.153			
6,200.0	6,200.0	6,274.2	6,195.4	10.3	23.0	88.46	23.1	860.7	861.1	825.2	35.87	24.005			
6,300.0	6,300.0	6,378.8	6,300.0	10.4	23.1	88.46	23.1	860.8	861.1	825.1	35.99	23.924			
6,400.0	6,400.0	6,478.8	6,400.0	10.5	23.2	88.46	23.1	860.8	861.1	825.0	36.09	23.859			
6,500.0	6,500.0	6,578.8	6,500.0	10.6	23.2	88.46	23.1	860.8	861.1	824.9	36.19	23.792			
6,600.0	6,600.0	6,678.8	6,600.0	10.7	23.2	88.46	23.1	860.8	861.1	824.8	36.29	23.726			
6,700.0	6,700.0	6,778.8	6,700.0	10.8	23.3	88.46	23.1	860.8	861.1	824.7	36.40	23.660			
6,800.0	6,800.0	6,878.8	6,800.0	10.9	23.3	88.46	23.1	860.8	861.1	824.6	36.50	23.594			
6,900.0	6,900.0	6,978.8	6,900.0	11.0	23.3	88.46	23.1	860.8	861.1	824.5	36.60	23.529			
7,000.0	7,000.0	7,078.8	7,000.0	11.1	23.4	88.46	23.1	860.8	861.1	824.4	36.70	23.463			
7,100.0	7,100.0	7,178.8	7,100.0	11.2	23.4	88.46	23.1	860.8	861.1	824.3	36.81	23.397			
7,200.0	7,200.0	7,278.8	7,200.0	11.3	23.4	88.46	23.1	860.8	861.1	824.2	36.91	23.332			
7,300.0	7,300.0	7,378.8	7,300.0	11.4	23.5	88.46	23.1	860.8	861.1	824.1	37.01	23.266			
7,400.0	7,400.0	7,478.8	7,400.0	11.5	23.5	88.46	23.1	860.8	861.1	824.0	37.12	23.201			
7,500.0	7,500.0	7,578.8	7,500.0	11.6	23.5	88.46	23.1	860.8	861.1	823.9	37.22	23.136			
7,600.0	7,600.0	7,678.8	7,600.0	11.7	23.6	88.46	23.1	860.8	861.1	823.8	37.33	23.070			
7,700.0	7,700.0	7,778.8	7,700.0	11.8	23.6	88.46	23.1	860.8	861.1	823.7	37.43	23.006			
7,800.0	7,800.0	7,878.8	7,800.0	11.9	23.6	88.46	23.1	860.8	861.1	823.6	37.54	22.941			
7,900.0	7,900.0	7,978.8	7,900.0	12.0	23.7	88.46	23.1	860.8	861.1	823.5	37.64	22.876			
8,000.0	8,000.0	8,078.8	8,000.0	12.1	23.7	88.46	23.1	860.8	861.1	823.4	37.75	22.811			
8,100.0	8,100.0	8,178.8	8,100.0	12.2	23.7	88.46	23.1	860.8	861.1	823.3	37.86	22.747			
8,200.0	8,200.0	8,278.8	8,200.0	12.3	23.8	88.46	23.1	860.8	861.1	823.2	37.97	22.682			
8,300.0	8,300.0	8,378.8	8,300.0	12.4	23.8	88.46	23.1	860.8	861.1	823.1	38.07	22.618			
8,400.0	8,400.0	8,478.8	8,400.0	12.5	23.9	88.46	23.1	860.8	861.1	823.0	38.18	22.554			
8,500.0	8,500.0	8,578.8	8,500.0	12.6	23.9	88.46	23.1	860.8	861.1	822.9	38.29	22.490			
8,600.0	8,600.0	8,678.8	8,600.0	12.7	23.9	88.46	23.1	860.8	861.1	822.7	38.40	22.426			
8,700.0	8,700.0	8,778.8	8,700.0	12.8	24.0	88.46	23.1	860.8	861.1	822.6	38.51	22.363			
8,800.0	8,800.0	8,878.8	8,800.0	12.9	24.0	88.46	23.1	860.8	861.1	822.5	38.62	22.299			
8,900.0	8,900.0	8,978.8	8,900.0	13.0	24.0	88.46	23.1	860.8	861.1	822.4	38.73	22.236			
9,000.0	9,000.0	9,078.8	9,000.0	13.0	24.1	88.46	23.1	860.8	861.1	822.3	38.84	22.173			
9,100.0	9,100.0	9,178.8	9,100.0	13.1	24.1	88.46	23.1	860.8	861.1	822.2	38.95	22.109			
9,200.0	9,200.0	9,278.8	9,200.0	13.2	24.2	88.46	23.1	860.8	861.1	822.1	39.06	22.047			
9,300.0	9,300.0	9,378.8	9,300.0	13.3	24.2	88.46	23.1	860.8	861.1	822.0	39.17	21.984			
9,400.0	9,400.0	9,478.8	9,400.0	13.4	24.2	88.46	23.1	860.8	861.1	821.9	39.28	21.921			
9,500.0	9,500.0	9,578.8	9,500.0	13.5	24.3	88.46	23.1	860.8	861.1	821.7	39.40	21.859			
9,600.0	9,600.0	9,678.8	9,600.0	13.6	24.3	88.46	23.1	860.8	861.1	821.6	39.51	21.797			
9,700.0	9,700.0	9,778.8	9,700.0	13.7	24.4	88.46	23.1	860.8	861.1	821.5	39.62	21.734			
9,800.0	9,800.0	9,878.8	9,800.0	13.8	24.4	88.46	23.1	860.8	861.1	821.4	39.73	21.673			
9,900.0	9,900.0	9,978.8	9,900.0	13.9	24.4	88.46	23.1	860.8	861.1	821.3	39.85	21.611			
10,000.0	10,000.0	10,078.8	10,000.0	14.0	24.5	88.46	23.1	860.8	861.1	821.2	39.96	21.549			
10,100.0	10,100.0	10,178.8	10,100.0	14.1	24.5	88.46	23.1	860.8	861.1	821.1	40.08	21.488			
10,200.0	10,200.0	10,278.8	10,200.0	14.2	24.6	88.46	23.1	860.8	861.1	821.0	40.19	21.427			
10,300.0	10,300.0	10,378.8	10,300.0	14.3	24.6	88.46	23.1	860.8	861.1	820.8	40.31	21.366			

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-r.5 MWD+IFR1+MS												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)			
10,400.0	10,400.0	10,478.8	10,400.0	14.4	24.7	88.46	23.1	860.8	861.1	820.7	40.42	21.305	
10,500.0	10,500.0	10,578.8	10,500.0	14.4	24.7	88.46	23.1	860.8	861.1	820.6	40.54	21.244	
10,600.0	10,600.0	10,678.8	10,600.0	14.5	24.7	88.46	23.1	860.8	861.1	820.5	40.65	21.183	
10,700.0	10,700.0	10,778.8	10,700.0	14.6	24.8	88.46	23.1	860.8	861.1	820.4	40.77	21.123	
10,800.0	10,800.0	10,878.8	10,800.0	14.7	24.8	88.46	23.1	860.8	861.1	820.3	40.88	21.063	
10,900.0	10,900.0	10,978.8	10,900.0	14.8	24.9	88.46	23.1	860.8	861.1	820.1	41.00	21.003	
11,000.0	11,000.0	11,078.8	11,000.0	14.9	24.9	88.46	23.1	860.8	861.1	820.0	41.12	20.943	
11,100.0	11,100.0	11,178.8	11,100.0	15.0	25.0	88.46	23.1	860.8	861.1	819.9	41.24	20.884	
11,200.0	11,200.0	11,278.8	11,200.0	15.1	25.0	88.46	23.1	860.8	861.1	819.8	41.35	20.824	
11,259.5	11,259.5	11,338.3	11,259.5	15.1	25.0	88.46	23.1	860.8	861.1	819.7	41.40	20.800	
11,275.0	11,275.0	11,354.3	11,275.5	15.1	25.0	-89.69	22.9	860.8	861.1	820.0	41.18	20.910	
11,300.0	11,300.0	11,380.3	11,301.5	15.1	25.0	-89.70	21.4	860.8	861.1	819.9	41.19	20.908	
11,325.0	11,324.8	11,406.3	11,327.2	15.2	25.0	-89.70	18.5	860.9	861.0	819.8	41.19	20.906	
11,350.0	11,349.5	11,432.2	11,352.8	15.2	25.0	-89.71	14.1	860.9	860.9	819.7	41.19	20.904	
11,375.0	11,373.9	11,458.1	11,378.1	15.2	25.0	-89.71	8.4	860.9	860.8	819.6	41.19	20.900	
11,400.0	11,398.0	11,484.1	11,403.1	15.2	25.0	-89.72	1.4	861.0	860.6	819.4	41.19	20.896	
11,425.0	11,421.7	11,510.0	11,427.6	15.2	25.0	-89.73	-7.0	861.0	860.4	819.2	41.19	20.890	
11,450.0	11,445.0	11,535.9	11,451.6	15.2	25.0	-89.74	-16.7	861.1	860.2	819.0	41.19	20.883	
11,475.0	11,467.8	11,561.8	11,475.0	15.3	25.0	-89.75	-27.7	861.2	859.9	818.7	41.19	20.876	
11,500.0	11,490.0	11,587.6	11,497.8	15.3	25.0	-89.76	-40.0	861.2	859.6	818.4	41.19	20.866	
11,525.0	11,511.5	11,613.5	11,519.9	15.3	25.0	-89.77	-53.4	861.3	859.2	818.0	41.20	20.856	
11,550.0	11,532.4	11,639.3	11,541.1	15.3	25.0	-89.78	-68.0	861.4	858.9	817.7	41.21	20.843	
11,575.0	11,552.5	11,665.1	11,561.6	15.4	25.0	-89.79	-83.7	861.5	858.5	817.3	41.22	20.830	
11,600.0	11,571.9	11,690.8	11,581.1	15.4	25.1	-89.80	-100.5	861.6	858.1	816.9	41.23	20.814	
11,625.0	11,590.3	11,716.5	11,599.7	15.4	25.1	-89.81	-118.3	861.8	857.6	816.4	41.24	20.797	
11,650.0	11,607.9	11,742.2	11,617.3	15.4	25.1	-89.83	-137.0	861.9	857.2	815.9	41.25	20.777	
11,675.0	11,624.5	11,767.8	11,633.8	15.5	25.1	-89.84	-156.6	862.0	856.7	815.4	41.27	20.756	
11,700.0	11,640.1	11,793.4	11,649.2	15.5	25.1	-89.85	-177.0	862.1	856.2	814.9	41.30	20.733	
11,725.0	11,654.7	11,819.0	11,663.5	15.5	25.1	-89.87	-198.2	862.3	855.6	814.3	41.32	20.707	
11,750.0	11,668.2	11,844.5	11,676.6	15.6	25.1	-89.88	-220.1	862.4	855.1	813.7	41.35	20.679	
11,775.0	11,680.5	11,870.0	11,688.5	15.6	25.1	-89.90	-242.6	862.6	854.5	813.1	41.38	20.649	
11,800.0	11,691.8	11,895.4	11,699.2	15.6	25.1	-89.91	-265.7	862.7	853.9	812.5	41.42	20.617	
11,825.0	11,701.8	11,920.8	11,708.6	15.6	25.2	-89.93	-289.3	862.9	853.3	811.9	41.46	20.582	
11,850.0	11,710.6	11,946.2	11,716.7	15.7	25.2	-89.94	-313.3	863.0	852.7	811.2	41.50	20.546	
11,875.0	11,718.2	11,971.5	11,723.5	15.7	25.2	-89.96	-337.6	863.2	852.1	810.5	41.55	20.507	
11,900.0	11,724.5	11,996.7	11,729.0	15.7	25.2	-89.98	-362.3	863.3	851.5	809.9	41.60	20.466	
11,925.0	11,729.5	12,021.9	11,733.2	15.7	25.3	-89.99	-387.1	863.5	850.8	809.2	41.66	20.423	
11,950.0	11,733.3	12,047.0	11,736.1	15.7	25.3	-90.01	-412.1	863.7	850.2	808.5	41.72	20.378	
11,975.0	11,735.8	12,072.1	11,737.7	15.7	25.3	-90.02	-437.1	863.8	849.5	807.8	41.79	20.331	
12,000.0	11,736.9	12,097.2	11,738.0	15.7	25.3	-90.04	-462.2	864.0	848.9	807.1	41.85	20.283	
12,009.5	11,737.0	12,106.7	11,738.0	15.7	25.4	-90.07	-471.7	864.1	848.7	806.8	41.88	20.264	
12,083.4	11,737.0	12,180.6	11,738.0	15.8	25.5	-90.07	-545.5	864.5	847.7	805.6	42.11	20.128	
12,100.0	11,737.0	12,197.2	11,738.0	15.8	25.5	-90.07	-562.1	864.6	847.7	805.5	42.17	20.104	
12,200.0	11,737.0	12,297.2	11,738.0	16.0	25.6	-90.07	-662.1	865.3	847.7	805.2	42.54	19.930	
12,300.0	11,737.0	12,397.2	11,738.0	16.3	25.8	-90.07	-762.1	865.9	847.7	804.8	42.95	19.735	
12,400.0	11,737.0	12,497.2	11,738.0	16.6	26.0	-90.07	-862.1	866.6	847.7	804.3	43.42	19.523	
12,500.0	11,737.0	12,597.2	11,738.0	16.9	26.3	-90.07	-962.1	867.2	847.7	803.8	43.93	19.295	
12,600.0	11,737.0	12,697.2	11,738.0	17.3	26.5	-90.07	-1,062.1	867.9	847.7	803.2	44.49	19.052	
12,700.0	11,737.0	12,797.2	11,738.0	17.7	26.8	-90.07	-1,162.1	868.5	847.7	802.6	45.10	18.797	
12,800.0	11,737.0	12,897.2	11,738.0	18.1	27.0	-90.07	-1,262.1	869.2	847.7	802.0	45.74	18.531	
12,900.0	11,737.0	12,997.2	11,738.0	18.6	27.4	-90.07	-1,362.1	869.8	847.7	801.3	46.43	18.257	
13,000.0	11,737.0	13,097.2	11,738.0	19.0	27.7	-90.07	-1,462.1	870.5	847.7	800.5	47.16	17.977	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (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)			
13,100.0	11,737.0	13,197.2	11,738.0	19.5	28.0	-90.07	-1,562.1	871.2	847.7	799.8	47.92	17.691	
13,200.0	11,737.0	13,297.2	11,738.0	20.0	28.4	-90.07	-1,662.1	871.8	847.7	799.0	48.71	17.402	
13,300.0	11,737.0	13,397.2	11,738.0	20.5	28.7	-90.07	-1,762.1	872.5	847.7	798.2	49.54	17.110	
13,400.0	11,737.0	13,497.2	11,738.0	21.0	29.1	-90.07	-1,862.1	873.1	847.7	797.3	50.41	16.818	
13,500.0	11,737.0	13,597.2	11,738.0	21.6	29.5	-90.07	-1,962.1	873.8	847.7	796.4	51.30	16.525	
13,600.0	11,737.0	13,697.2	11,738.0	22.1	29.9	-90.07	-2,062.1	874.4	847.7	795.5	52.22	16.234	
13,700.0	11,737.0	13,797.2	11,738.0	22.7	30.3	-90.07	-2,162.1	875.1	847.7	794.5	53.16	15.945	
13,800.0	11,737.0	13,897.2	11,738.0	23.3	30.8	-90.07	-2,262.1	875.7	847.7	793.6	54.14	15.658	
13,900.0	11,737.0	13,997.2	11,738.0	23.9	31.2	-90.07	-2,362.1	876.4	847.7	792.6	55.13	15.375	
14,000.0	11,737.0	14,097.2	11,738.0	24.5	31.7	-90.07	-2,462.1	877.0	847.7	791.6	56.15	15.096	
14,100.0	11,737.0	14,197.2	11,738.0	25.1	32.2	-90.07	-2,562.1	877.7	847.7	790.5	57.20	14.821	
14,200.0	11,737.0	14,297.2	11,738.0	25.7	32.6	-90.07	-2,662.1	878.3	847.7	789.4	58.26	14.551	
14,300.0	11,737.0	14,397.2	11,738.0	26.3	33.1	-90.07	-2,762.1	879.0	847.7	788.4	59.34	14.286	
14,400.0	11,737.0	14,497.2	11,738.0	26.9	33.6	-90.07	-2,862.1	879.6	847.7	787.3	60.44	14.026	
14,500.0	11,737.0	14,597.2	11,738.0	27.6	34.2	-90.07	-2,962.1	880.3	847.7	786.1	61.56	13.771	
14,600.0	11,737.0	14,697.2	11,738.0	28.2	34.7	-90.07	-3,062.1	880.9	847.7	785.0	62.69	13.522	
14,700.0	11,737.0	14,797.2	11,738.0	28.9	35.2	-90.07	-3,162.1	881.6	847.7	783.9	63.84	13.279	
14,800.0	11,737.0	14,897.2	11,738.0	29.5	35.7	-90.07	-3,262.1	882.2	847.7	782.7	65.00	13.041	
14,900.0	11,737.0	14,997.2	11,738.0	30.2	36.3	-90.07	-3,362.1	882.9	847.7	781.5	66.18	12.809	
15,000.0	11,737.0	15,097.2	11,738.0	30.9	36.8	-90.07	-3,462.1	883.5	847.7	780.3	67.37	12.583	
15,100.0	11,737.0	15,197.2	11,738.0	31.5	37.4	-90.07	-3,562.1	884.2	847.7	779.1	68.57	12.362	
15,200.0	11,737.0	15,297.2	11,738.0	32.2	38.0	-90.07	-3,662.1	884.8	847.7	777.9	69.79	12.147	
15,300.0	11,737.0	15,397.2	11,738.0	32.9	38.5	-90.07	-3,762.1	885.5	847.7	776.7	71.02	11.937	
15,400.0	11,737.0	15,497.2	11,738.0	33.6	39.1	-90.07	-3,862.1	886.1	847.7	775.5	72.25	11.733	
15,500.0	11,737.0	15,597.2	11,738.0	34.3	39.7	-90.07	-3,962.1	886.8	847.7	774.2	73.50	11.533	
15,600.0	11,737.0	15,697.2	11,738.0	34.9	40.3	-90.07	-4,062.1	887.4	847.7	772.9	74.76	11.340	
15,700.0	11,737.0	15,797.2	11,738.0	35.6	40.9	-90.07	-4,162.1	888.1	847.7	771.7	76.02	11.151	
15,800.0	11,737.0	15,897.2	11,738.0	36.3	41.5	-90.07	-4,262.1	888.7	847.7	770.4	77.30	10.967	
15,900.0	11,737.0	15,997.2	11,738.0	37.0	42.1	-90.07	-4,362.1	889.4	847.7	769.1	78.58	10.788	
16,000.0	11,737.0	16,097.2	11,738.0	37.7	42.7	-90.07	-4,462.1	890.0	847.7	767.8	79.87	10.613	
16,100.0	11,737.0	16,197.2	11,738.0	38.4	43.4	-90.07	-4,562.1	890.7	847.7	766.5	81.17	10.444	
16,200.0	11,737.0	16,297.2	11,738.0	39.1	44.0	-90.07	-4,662.1	891.3	847.7	765.2	82.47	10.278	
16,300.0	11,737.0	16,397.2	11,738.0	39.8	44.6	-90.07	-4,762.1	892.0	847.7	763.9	83.79	10.117	
16,400.0	11,737.0	16,497.2	11,738.0	40.5	45.2	-90.07	-4,862.1	892.6	847.7	762.6	85.10	9.961	
16,500.0	11,737.0	16,597.2	11,738.0	41.3	45.9	-90.07	-4,962.1	893.3	847.7	761.3	86.43	9.808	
16,600.0	11,737.0	16,697.2	11,738.0	42.0	46.5	-90.07	-5,062.1	893.9	847.7	759.9	87.76	9.659	
16,700.0	11,737.0	16,797.2	11,738.0	42.7	47.2	-90.07	-5,162.0	894.6	847.7	758.6	89.10	9.515	
16,800.0	11,737.0	16,897.2	11,738.0	43.4	47.8	-90.07	-5,262.0	895.2	847.7	757.3	90.44	9.373	
16,900.0	11,737.0	16,997.2	11,738.0	44.1	48.5	-90.07	-5,362.0	895.9	847.7	755.9	91.78	9.236	
17,000.0	11,737.0	17,097.2	11,738.0	44.8	49.1	-90.07	-5,462.0	896.5	847.7	754.6	93.14	9.102	
17,100.0	11,737.0	17,197.2	11,738.0	45.6	49.8	-90.07	-5,562.0	897.2	847.7	753.2	94.49	8.971	
17,200.0	11,737.0	17,297.2	11,738.0	46.3	50.4	-90.07	-5,662.0	897.8	847.7	751.8	95.85	8.844	
17,300.0	11,737.0	17,397.2	11,738.0	47.0	51.1	-90.07	-5,762.0	898.5	847.7	750.5	97.22	8.720	
17,400.0	11,737.0	17,497.2	11,738.0	47.7	51.8	-90.07	-5,862.0	899.1	847.7	749.1	98.59	8.599	
17,500.0	11,737.0	17,597.2	11,738.0	48.4	52.4	-90.07	-5,962.0	899.8	847.7	747.7	99.96	8.480	
17,600.0	11,737.0	17,697.2	11,738.0	49.2	53.1	-90.07	-6,062.0	900.4	847.7	746.4	101.34	8.365	
17,700.0	11,737.0	17,797.2	11,738.0	49.9	53.8	-90.07	-6,162.0	901.1	847.7	745.0	102.72	8.253	
17,800.0	11,737.0	17,897.2	11,738.0	50.6	54.4	-90.07	-6,262.0	901.7	847.7	743.6	104.10	8.143	
17,900.0	11,737.0	17,997.2	11,738.0	51.4	55.1	-90.07	-6,362.0	902.4	847.7	742.2	105.49	8.036	
18,000.0	11,737.0	18,097.2	11,738.0	52.1	55.8	-90.07	-6,462.0	903.0	847.7	740.8	106.88	7.931	
18,100.0	11,737.0	18,197.2	11,738.0	52.8	56.5	-90.07	-6,562.0	903.7	847.7	739.4	108.27	7.829	
18,200.0	11,737.0	18,297.2	11,738.0	53.6	57.2	-90.07	-6,662.0	904.4	847.7	738.0	109.67	7.730	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11339-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Distance			Rule Assigned:			Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,300.0	11,737.0	18,397.2	11,738.0	54.3	57.9	-90.07	-6,762.0	905.0	847.7	736.6	111.07	7.632	
18,400.0	11,737.0	18,497.2	11,738.0	55.0	58.5	-90.07	-6,862.0	905.7	847.7	735.2	112.47	7.537	
18,500.0	11,737.0	18,597.2	11,738.0	55.8	59.2	-90.07	-6,962.0	906.3	847.7	733.8	113.88	7.444	
18,600.0	11,737.0	18,697.2	11,738.0	56.5	59.9	-90.07	-7,062.0	907.0	847.7	732.4	115.29	7.353	
18,700.0	11,737.0	18,797.2	11,738.0	57.2	60.6	-90.07	-7,162.0	907.6	847.7	731.0	116.70	7.264	
18,800.0	11,737.0	18,897.2	11,738.0	58.0	61.3	-90.07	-7,262.0	908.3	847.7	729.6	118.11	7.177	
18,900.0	11,737.0	18,997.2	11,738.0	58.7	62.0	-90.07	-7,362.0	908.9	847.7	728.2	119.52	7.092	
19,000.0	11,737.0	19,097.2	11,738.0	59.4	62.7	-90.07	-7,462.0	909.6	847.7	726.8	120.94	7.009	
19,100.0	11,737.0	19,197.2	11,738.0	60.2	63.4	-90.07	-7,562.0	910.2	847.7	725.3	122.36	6.928	
19,200.0	11,737.0	19,297.2	11,738.0	60.9	64.1	-90.07	-7,662.0	910.9	847.7	723.9	123.78	6.848	
19,300.0	11,737.0	19,397.2	11,738.0	61.7	64.8	-90.07	-7,762.0	911.5	847.7	722.5	125.20	6.771	
19,400.0	11,737.0	19,497.2	11,738.0	62.4	65.5	-90.07	-7,862.0	912.2	847.7	721.1	126.63	6.694	
19,500.0	11,737.0	19,597.2	11,738.0	63.1	66.2	-90.07	-7,962.0	912.8	847.7	719.6	128.05	6.620	
19,600.0	11,737.0	19,697.2	11,738.0	63.9	66.9	-90.07	-8,062.0	913.5	847.7	718.2	129.48	6.547	
19,700.0	11,737.0	19,797.2	11,738.0	64.6	67.6	-90.07	-8,162.0	914.1	847.7	716.8	130.91	6.475	
19,800.0	11,737.0	19,897.2	11,738.0	65.4	68.3	-90.07	-8,262.0	914.8	847.7	715.4	132.35	6.405	
19,900.0	11,737.0	19,997.2	11,738.0	66.1	69.1	-90.07	-8,362.0	915.4	847.7	713.9	133.78	6.337	
20,000.0	11,737.0	20,097.2	11,738.0	66.9	69.8	-90.07	-8,462.0	916.1	847.7	712.5	135.22	6.269	
20,100.0	11,737.0	20,197.2	11,738.0	67.6	70.5	-90.07	-8,562.0	916.7	847.7	711.0	136.65	6.203	
20,200.0	11,737.0	20,297.2	11,738.0	68.3	71.2	-90.07	-8,662.0	917.4	847.7	709.6	138.09	6.139	
20,300.0	11,737.0	20,397.2	11,738.0	69.1	71.9	-90.07	-8,762.0	918.0	847.7	708.2	139.53	6.075	
20,400.0	11,737.0	20,497.2	11,738.0	69.8	72.6	-90.07	-8,862.0	918.7	847.7	706.7	140.97	6.013	
20,500.0	11,737.0	20,597.2	11,738.0	70.6	73.3	-90.07	-8,962.0	919.3	847.7	705.3	142.41	5.952	
20,600.0	11,737.0	20,697.2	11,738.0	71.3	74.1	-90.07	-9,062.0	920.0	847.7	703.8	143.86	5.893	
20,700.0	11,737.0	20,797.2	11,738.0	72.1	74.8	-90.07	-9,162.0	920.6	847.7	702.4	145.30	5.834	
20,800.0	11,737.0	20,897.2	11,738.0	72.8	75.5	-90.07	-9,262.0	921.3	847.7	700.9	146.75	5.776	
20,900.0	11,737.0	20,997.2	11,738.0	73.6	76.2	-90.07	-9,362.0	921.9	847.7	699.5	148.20	5.720	
21,000.0	11,737.0	21,097.2	11,738.0	74.3	76.9	-90.07	-9,462.0	922.6	847.7	698.1	149.65	5.665	
21,100.0	11,737.0	21,197.2	11,738.0	75.1	77.7	-90.07	-9,562.0	923.2	847.7	696.6	151.10	5.610	
21,200.0	11,737.0	21,297.2	11,738.0	75.8	78.4	-90.07	-9,662.0	923.9	847.7	695.2	152.55	5.557	
21,300.0	11,737.0	21,397.2	11,738.0	76.6	79.1	-90.07	-9,762.0	924.5	847.7	693.7	154.00	5.505	
21,400.0	11,737.0	21,497.2	11,738.0	77.3	79.8	-90.07	-9,861.9	925.2	847.7	692.2	155.45	5.453	
21,500.0	11,737.0	21,597.2	11,738.0	78.1	80.6	-90.07	-9,961.9	925.8	847.7	690.8	156.91	5.403	
21,545.5	11,737.0	21,642.7	11,738.0	78.4	80.9	-90.07	-10,007.5	926.1	847.7	690.1	157.57	5.380	
21,595.5	11,737.0	21,692.7	11,738.0	78.8	81.2	-90.07	-10,057.5	926.5	847.7	689.4	158.29	5.355 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	3.0	3.0	123.72	-50.3	75.4	90.6	83.6	6.98	12.980	
100.0	100.0	101.0	101.0	3.1	3.1	123.72	-50.3	75.4	90.6	83.4	7.23	12.538	
200.0	200.0	201.0	201.0	3.2	3.3	123.72	-50.3	75.4	90.6	83.1	7.46	12.139	
300.0	300.0	301.0	301.0	3.4	3.4	123.72	-50.3	75.4	90.6	82.9	7.70	11.774	
400.0	400.0	401.0	401.0	3.5	3.5	123.72	-50.3	75.4	90.6	82.7	7.92	11.438	
500.0	500.0	501.0	501.0	3.6	3.6	123.72	-50.3	75.4	90.6	82.5	8.14	11.128	
600.0	600.0	601.0	601.0	3.7	3.7	123.72	-50.3	75.4	90.6	82.3	8.36	10.840	
700.0	700.0	701.0	701.0	3.9	3.9	123.72	-50.3	75.4	90.6	82.0	8.57	10.572	
800.0	800.0	801.0	801.0	4.0	4.0	123.72	-50.3	75.4	90.6	81.8	8.78	10.321	
900.0	900.0	901.0	901.0	4.1	4.1	123.72	-50.3	75.4	90.6	81.6	8.98	10.086	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	123.72	-50.3	75.4	90.6	81.4	9.19	9.865	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	123.72	-50.3	75.4	90.6	81.2	9.38	9.657	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	123.72	-50.3	75.4	90.6	81.0	9.58	9.460	
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	123.72	-50.3	75.4	90.6	80.8	9.77	9.273	
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	123.72	-50.3	75.4	90.6	80.7	9.96	9.096	
1,466.3	1,466.3	1,467.3	1,467.3	4.8	4.8	123.72	-50.3	75.4	90.6	80.5	10.09	8.984 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	123.72	-50.3	75.4	90.6	80.5	10.15	8.930 ES, SF	
1,600.0	1,600.0	1,598.4	1,598.4	5.0	4.9	123.10	-50.2	77.1	92.0	81.9	10.13	9.085	
1,700.0	1,700.0	1,695.7	1,695.5	5.1	5.0	121.39	-50.1	82.0	96.3	85.8	10.48	9.182	
1,800.0	1,800.0	1,792.4	1,791.9	5.3	5.3	118.87	-49.8	90.3	103.5	92.6	10.85	9.541	
1,900.0	1,900.0	1,888.6	1,887.4	5.4	5.5	115.91	-49.4	101.7	113.8	102.6	11.22	10.145	
2,000.0	2,000.0	1,983.8	1,981.5	5.6	5.9	112.83	-48.9	116.1	127.5	115.9	11.62	10.972	
2,100.0	2,100.0	2,078.0	2,074.1	5.7	6.2	109.89	-48.3	133.4	144.4	132.4	12.03	12.003	
2,200.0	2,200.0	2,170.9	2,164.8	5.8	6.5	107.22	-47.6	153.5	164.8	152.3	12.47	13.214	
2,300.0	2,300.0	2,266.4	2,257.4	6.0	6.8	104.84	-46.8	176.5	187.7	174.8	12.92	14.528	
2,400.0	2,400.0	2,363.4	2,351.6	6.1	7.1	102.94	-46.0	199.9	211.0	197.6	13.39	15.758	
2,500.0	2,500.0	2,460.4	2,445.7	6.2	7.5	101.42	-45.1	223.4	234.5	220.6	13.88	16.892	
2,600.0	2,600.0	2,557.4	2,539.9	6.3	7.8	100.18	-44.3	246.8	258.1	243.7	14.39	17.935	
2,700.0	2,700.0	2,654.5	2,634.0	6.5	8.2	99.14	-43.5	270.3	281.8	266.9	14.92	18.892	
2,800.0	2,800.0	2,751.5	2,728.2	6.6	8.5	98.27	-42.7	293.8	305.6	290.2	15.46	19.772	
2,900.0	2,900.0	2,848.5	2,822.3	6.7	8.9	97.52	-41.9	317.2	329.5	313.5	16.01	20.579	
3,000.0	3,000.0	2,945.6	2,916.5	6.8	9.3	96.87	-41.0	340.7	353.4	336.8	16.58	21.320	
3,100.0	3,100.0	3,042.6	3,010.6	7.0	9.7	96.30	-40.2	364.1	377.3	360.2	17.15	22.003	
3,200.0	3,200.0	3,139.6	3,104.8	7.1	10.1	95.80	-39.4	387.6	401.3	383.6	17.73	22.631	
3,300.0	3,300.0	3,236.6	3,198.9	7.2	10.5	95.36	-38.6	411.1	425.3	407.0	18.32	23.210	
3,400.0	3,400.0	3,333.7	3,293.1	7.3	10.9	94.97	-37.8	434.5	449.3	430.4	18.92	23.745	
3,500.0	3,500.0	3,430.7	3,387.2	7.4	11.4	94.61	-36.9	458.0	473.3	453.8	19.53	24.240	
3,600.0	3,600.0	3,527.7	3,481.4	7.5	11.8	94.29	-36.1	481.4	497.4	477.2	20.14	24.699	
3,700.0	3,700.0	3,624.8	3,575.5	7.7	12.2	94.00	-35.3	504.9	521.4	500.7	20.75	25.125	
3,800.0	3,800.0	3,721.8	3,669.6	7.8	12.6	93.73	-34.5	528.3	545.5	524.1	21.38	25.521	
3,900.0	3,900.0	3,818.8	3,763.8	7.9	13.1	93.49	-33.7	551.8	569.6	547.6	22.00	25.889	
4,000.0	4,000.0	3,915.9	3,857.9	8.0	13.5	93.27	-32.8	575.3	593.7	571.1	22.63	26.233	
4,100.0	4,100.0	4,012.9	3,952.1	8.1	14.0	93.06	-32.0	598.7	617.8	594.5	23.27	26.554	
4,200.0	4,200.0	4,109.9	4,046.2	8.2	14.4	92.87	-31.2	622.2	641.9	618.0	23.90	26.854	
4,300.0	4,300.0	4,206.9	4,140.4	8.3	14.8	92.69	-30.4	645.6	666.0	641.5	24.54	27.136	
4,400.0	4,400.0	4,304.0	4,234.5	8.4	15.3	92.53	-29.6	669.1	690.1	664.9	25.19	27.400	
4,500.0	4,500.0	4,401.0	4,328.7	8.6	15.7	92.38	-28.7	692.6	714.3	688.4	25.83	27.648	
4,600.0	4,600.0	4,498.0	4,422.8	8.7	16.2	92.23	-27.9	716.0	738.4	711.9	26.48	27.882	
4,700.0	4,700.0	4,595.1	4,517.0	8.8	16.6	92.10	-27.1	739.5	762.5	735.4	27.13	28.102	
4,800.0	4,800.0	4,692.1	4,611.1	8.9	17.1	91.97	-26.3	762.9	786.7	758.9	27.79	28.310	
4,900.0	4,900.0	4,789.1	4,705.3	9.0	17.5	91.86	-25.5	786.4	810.8	782.3	28.44	28.506	
5,000.0	5,000.0	4,886.2	4,799.4	9.1	18.0	91.74	-24.7	809.9	834.9	805.8	29.10	28.692	

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11575-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance					
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)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,100.0	4,983.2	4,893.6	9.2	18.5	91.64	-23.8	833.3	859.1	829.3	29.76	28.868		
5,200.0	5,200.0	5,080.2	4,987.7	9.3	18.9	91.54	-23.0	856.8	883.2	852.8	30.42	29.034		
5,300.0	5,300.0	5,177.2	5,081.9	9.4	19.4	91.44	-22.2	880.2	907.4	876.3	31.08	29.193		
5,400.0	5,400.0	5,274.3	5,176.0	9.5	19.8	91.35	-21.4	903.7	931.5	899.8	31.75	29.343		
5,500.0	5,500.0	5,371.3	5,270.2	9.6	20.3	91.27	-20.6	927.2	955.7	923.3	32.41	29.486		
5,600.0	5,600.0	5,468.3	5,364.3	9.7	20.7	91.19	-19.7	950.6	979.8	946.8	33.08	29.622		

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 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11461-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	3.0	3.0	123.72	-67.1	100.5	120.8	113.8	6.98	17.308	
100.0	100.0	101.0	101.0	3.1	3.1	123.72	-67.1	100.5	120.8	113.6	7.23	16.719	
200.0	200.0	201.0	201.0	3.2	3.3	123.72	-67.1	100.5	120.8	113.4	7.46	16.186	
300.0	300.0	301.0	301.0	3.4	3.4	123.72	-67.1	100.5	120.8	113.1	7.70	15.699	
400.0	400.0	401.0	401.0	3.5	3.5	123.72	-67.1	100.5	120.8	112.9	7.92	15.251	
500.0	500.0	501.0	501.0	3.6	3.6	123.72	-67.1	100.5	120.8	112.7	8.14	14.838	
600.0	600.0	601.0	601.0	3.7	3.7	123.72	-67.1	100.5	120.8	112.5	8.36	14.454	
700.0	700.0	701.0	701.0	3.9	3.9	123.72	-67.1	100.5	120.8	112.3	8.57	14.096	
800.0	800.0	801.0	801.0	4.0	4.0	123.72	-67.1	100.5	120.8	112.0	8.78	13.762	
900.0	900.0	901.0	901.0	4.1	4.1	123.72	-67.1	100.5	120.8	111.8	8.98	13.449	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	123.72	-67.1	100.5	120.8	111.6	9.19	13.154	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	123.72	-67.1	100.5	120.8	111.4	9.38	12.877	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	123.72	-67.1	100.5	120.8	111.2	9.58	12.614	
1,300.0	1,300.0	1,301.0	1,301.0	4.6	4.6	123.72	-67.1	100.5	120.8	111.1	9.77	12.365	
1,400.0	1,400.0	1,401.0	1,401.0	4.7	4.7	123.72	-67.1	100.5	120.8	110.9	9.96	12.129	
1,466.3	1,466.3	1,467.3	1,467.3	4.8	4.8	123.72	-67.1	100.5	120.8	110.7	10.09	11.980 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	123.72	-67.1	100.5	120.8	110.7	10.15	11.906 ES, SF	
1,600.0	1,600.0	1,597.6	1,597.6	5.0	4.9	123.27	-67.0	102.2	122.2	112.1	10.13	12.065	
1,700.0	1,700.0	1,694.0	1,693.8	5.1	5.0	122.02	-67.0	107.1	126.5	116.0	10.49	12.059	
1,800.0	1,800.0	1,789.9	1,789.4	5.3	5.2	120.12	-66.8	115.2	133.6	122.8	10.85	12.317	
1,900.0	1,900.0	1,885.2	1,884.1	5.4	5.5	117.80	-66.6	126.4	143.8	132.6	11.22	12.818	
2,000.0	2,000.0	1,979.7	1,977.4	5.6	5.8	115.28	-66.4	140.6	157.2	145.6	11.61	13.539	
2,100.0	2,100.0	2,073.1	2,069.3	5.7	6.2	112.74	-66.1	157.6	173.8	161.8	12.02	14.462	
2,200.0	2,200.0	2,165.3	2,159.3	5.8	6.5	110.33	-65.7	177.4	193.7	181.3	12.45	15.565	
2,300.0	2,300.0	2,256.1	2,247.4	6.0	6.8	108.12	-65.3	199.7	216.8	204.0	12.89	16.828	
2,400.0	2,400.0	2,349.1	2,336.8	6.1	7.2	106.09	-64.9	225.0	242.8	229.4	13.35	18.189	
2,500.0	2,500.0	2,445.2	2,429.2	6.2	7.5	104.37	-64.4	251.5	269.3	255.5	13.84	19.462	
2,600.0	2,600.0	2,541.3	2,521.6	6.3	7.8	102.96	-64.0	278.0	296.1	281.7	14.35	20.631	
2,700.0	2,700.0	2,637.5	2,614.0	6.5	8.2	101.78	-63.5	304.5	322.9	308.1	14.88	21.703	
2,800.0	2,800.0	2,733.6	2,706.4	6.6	8.6	100.79	-63.0	331.0	349.9	334.5	15.43	22.685	
2,900.0	2,900.0	2,829.7	2,798.8	6.7	8.9	99.93	-62.6	357.4	377.0	361.0	15.98	23.585	
3,000.0	3,000.0	2,925.8	2,891.2	6.8	9.3	99.19	-62.1	383.9	404.1	387.6	16.56	24.410	
3,100.0	3,100.0	3,022.0	2,983.6	7.0	9.7	98.54	-61.7	410.4	431.3	414.2	17.14	25.166	
3,200.0	3,200.0	3,118.1	3,076.0	7.1	10.1	97.97	-61.2	436.9	458.5	440.8	17.73	25.861	
3,300.0	3,300.0	3,214.2	3,168.4	7.2	10.5	97.47	-60.7	463.4	485.8	467.5	18.33	26.500	
3,400.0	3,400.0	3,310.3	3,260.8	7.3	11.0	97.01	-60.3	489.9	513.1	494.2	18.94	27.089	
3,500.0	3,500.0	3,406.5	3,353.2	7.4	11.4	96.61	-59.8	516.4	540.4	520.9	19.56	27.632	
3,600.0	3,600.0	3,502.6	3,445.6	7.5	11.8	96.24	-59.3	542.9	567.8	547.6	20.18	28.133	
3,700.0	3,700.0	3,598.7	3,538.1	7.7	12.2	95.90	-58.9	569.4	595.2	574.3	20.81	28.598	
3,800.0	3,800.0	3,694.8	3,630.5	7.8	12.7	95.60	-58.4	595.9	622.5	601.1	21.45	29.028	
3,900.0	3,900.0	3,791.0	3,722.9	7.9	13.1	95.32	-58.0	622.4	649.9	627.9	22.09	29.428	
4,000.0	4,000.0	3,887.1	3,815.3	8.0	13.6	95.06	-57.5	648.9	677.4	654.6	22.73	29.800	
4,100.0	4,100.0	3,983.2	3,907.7	8.1	14.0	94.83	-57.0	675.3	704.8	681.4	23.38	30.147	
4,200.0	4,200.0	4,079.4	4,000.1	8.2	14.5	94.61	-56.6	701.8	732.2	708.2	24.03	30.471	
4,300.0	4,300.0	4,175.5	4,092.5	8.3	14.9	94.41	-56.1	728.3	759.7	735.0	24.69	30.773	
4,400.0	4,400.0	4,271.6	4,184.9	8.4	15.4	94.22	-55.6	754.8	787.1	761.8	25.35	31.056	
4,500.0	4,500.0	4,367.7	4,277.3	8.6	15.8	94.04	-55.2	781.3	814.6	788.6	26.01	31.322	
4,600.0	4,600.0	4,463.9	4,369.7	8.7	16.3	93.88	-54.7	807.8	842.1	815.4	26.67	31.572	
4,700.0	4,700.0	4,560.0	4,462.1	8.8	16.7	93.72	-54.3	834.3	869.5	842.2	27.34	31.806	
4,800.0	4,800.0	4,656.1	4,554.5	8.9	17.2	93.58	-53.8	860.8	897.0	869.0	28.01	32.027	
4,900.0	4,900.0	4,752.2	4,646.9	9.0	17.7	93.44	-53.3	887.3	924.5	895.8	28.68	32.236	
5,000.0	5,000.0	4,848.4	4,739.3	9.1	18.1	93.31	-52.9	913.8	952.0	922.6	29.35	32.432	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		ZIA HILLS UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #757H - OWB - PWP0											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11461-r.5 MWD+IFR1+MS											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.0	5,100.0	4,944.5	4,831.7	9.2	18.6	93.19	-52.4	940.3	979.5	949.5	30.03	32.618				

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL @ 3175.0usft

Offset Depths are relative to Offset Datum

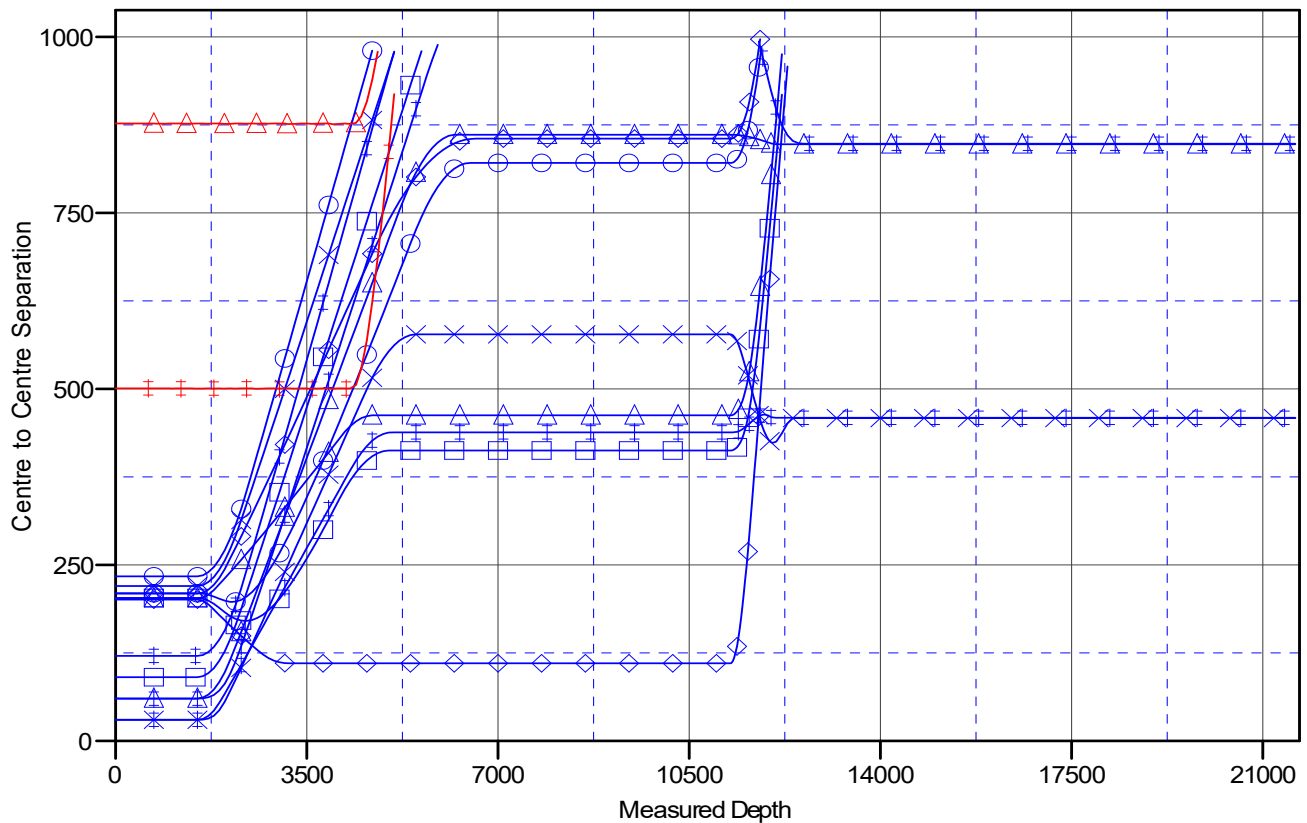
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #753H

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

Grid Convergence at Surface is: 0.33°

Ladder Plot



LEGEND

ZIA HILLS UNIT 2032 WC #753H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #709H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0	RUSSELL FEDERAL #12, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	RUSSELL FEDERAL #6 (P&A), OWB, AWP V0

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3175.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3175.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL @ 3175.0usft

Offset Depths are relative to Offset Datum

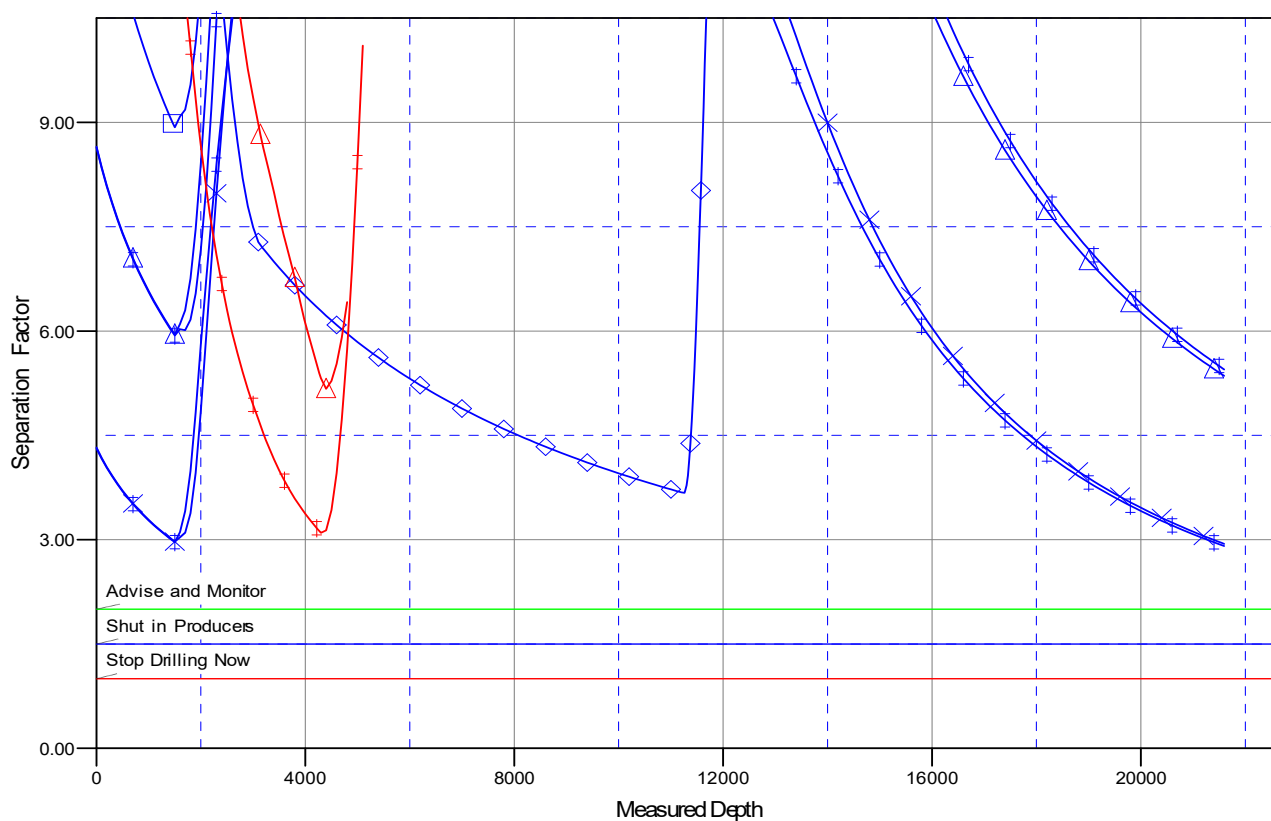
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #753H

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

Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND

ZIA HILLS UNIT 2032 WC #753H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #759H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #763H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2032 PROJECT

ZIA HILLS UNIT 2032 WC #753H

OWB

Plan: PWP0

Standard Planning Report

25 January, 2023

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	LEA PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	ZIA HILLS UNIT 2032 PROJECT		
Site Position:		Northing:	374,625.63 usft
From:	Map	Easting:	698,628.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 42.026 N
		Longitude:	103° 41' 32.623 W

Well	ZIA HILLS UNIT 2032 WC #753H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
Grid Convergence:	0.33 °		
		Latitude:	32° 1' 40.412 N
		Longitude:	103° 42' 9.469 W
		Ground Level:	3,175.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.33	59.53	47,264.92591659

Design	PWP0				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.55	

Plan Survey Tool Program	Date	1/25/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	1,500.0 PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp		
2	1,500.0	11,259.5 PWP0 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	11,259.5	21,595.5 PWP0 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St		

ConocoPhillips

Planning Report

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Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
11,259.5	0.00	0.00	11,259.5	0.0	0.0	0.00	0.00	0.00	0.00	
12,009.5	90.00	178.15	11,737.0	-477.2	15.4	12.00	12.00	0.00	178.15	
12,083.4	90.00	179.63	11,737.0	-551.0	16.8	2.00	0.00	2.00	90.00	
21,545.5	90.00	179.63	11,737.0	-10,013.0	78.4	0.00	0.00	0.00	0.00	
21,595.5	90.00	179.63	11,737.0	-10,063.0	78.8	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #753H	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
Start 9759.5 hold at 1500.0 MD									
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	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

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Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #753H	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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #753H	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)
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,100.0	0.0	0.0	0.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,200.0	0.0	0.0	0.0	0.00	0.00	0.00
11,259.5	0.00	0.00	11,259.5	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 12.00									
11,275.0	1.86	178.15	11,275.0	-0.3	0.0	0.3	12.00	12.00	0.00
11,300.0	4.86	178.15	11,300.0	-1.7	0.1	1.7	12.00	12.00	0.00
11,325.0	7.86	178.15	11,324.8	-4.5	0.1	4.5	12.00	12.00	0.00
11,350.0	10.86	178.15	11,349.5	-8.5	0.3	8.5	12.00	12.00	0.00
11,375.0	13.86	178.15	11,373.9	-13.9	0.4	13.9	12.00	12.00	0.00
11,400.0	16.86	178.15	11,398.0	-20.5	0.7	20.5	12.00	12.00	0.00
11,425.0	19.86	178.15	11,421.7	-28.4	0.9	28.4	12.00	12.00	0.00
11,450.0	22.86	178.15	11,445.0	-37.5	1.2	37.5	12.00	12.00	0.00
11,475.0	25.86	178.15	11,467.8	-47.8	1.5	47.8	12.00	12.00	0.00
11,500.0	28.86	178.15	11,490.0	-59.3	1.9	59.3	12.00	12.00	0.00
11,525.0	31.86	178.15	11,511.5	-71.9	2.3	71.9	12.00	12.00	0.00
11,550.0	34.86	178.15	11,532.4	-85.6	2.8	85.6	12.00	12.00	0.00
11,575.0	37.86	178.15	11,552.5	-100.4	3.2	100.4	12.00	12.00	0.00
11,600.0	40.86	178.15	11,571.9	-116.3	3.8	116.3	12.00	12.00	0.00
11,625.0	43.86	178.15	11,590.3	-133.1	4.3	133.1	12.00	12.00	0.00
11,650.0	46.86	178.15	11,607.9	-150.9	4.9	150.9	12.00	12.00	0.00
11,675.0	49.86	178.15	11,624.5	-169.5	5.5	169.6	12.00	12.00	0.00
11,700.0	52.86	178.15	11,640.1	-189.1	6.1	189.1	12.00	12.00	0.00
11,725.0	55.86	178.15	11,654.7	-209.4	6.8	209.4	12.00	12.00	0.00
11,750.0	58.86	178.15	11,668.2	-230.4	7.4	230.5	12.00	12.00	0.00
11,775.0	61.86	178.15	11,680.5	-252.1	8.1	252.2	12.00	12.00	0.00
11,800.0	64.86	178.15	11,691.8	-274.4	8.9	274.5	12.00	12.00	0.00
11,825.0	67.86	178.15	11,701.8	-297.3	9.6	297.4	12.00	12.00	0.00
11,850.0	70.86	178.15	11,710.6	-320.7	10.4	320.8	12.00	12.00	0.00
11,875.0	73.86	178.15	11,718.2	-344.5	11.1	344.6	12.00	12.00	0.00
11,900.0	76.86	178.15	11,724.5	-368.7	11.9	368.8	12.00	12.00	0.00
11,925.0	79.86	178.15	11,729.5	-393.2	12.7	393.3	12.00	12.00	0.00
11,950.0	82.86	178.15	11,733.3	-417.9	13.5	418.0	12.00	12.00	0.00
11,975.0	85.86	178.15	11,735.8	-442.7	14.3	442.8	12.00	12.00	0.00
12,000.0	88.86	178.15	11,736.9	-467.7	15.1	467.8	12.00	12.00	0.00
12,009.5	90.00	178.15	11,737.0	-477.2	15.4	477.3	12.00	12.00	0.00
Start DLS 2.00 TFO 90.00									
12,083.4	90.00	179.63	11,737.0	-551.0	16.8	551.2	2.00	0.00	2.00
Start 9462.2 hold at 12083.4 MD									
12,100.0	90.00	179.63	11,737.0	-567.7	17.0	567.8	0.00	0.00	0.00
12,200.0	90.00	179.63	11,737.0	-667.7	17.6	667.8	0.00	0.00	0.00
12,300.0	90.00	179.63	11,737.0	-767.7	18.3	767.8	0.00	0.00	0.00
12,400.0	90.00	179.63	11,737.0	-867.7	18.9	867.8	0.00	0.00	0.00
12,500.0	90.00	179.63	11,737.0	-967.7	19.6	967.8	0.00	0.00	0.00
12,600.0	90.00	179.63	11,737.0	-1,067.7	20.2	1,067.8	0.00	0.00	0.00
12,700.0	90.00	179.63	11,737.0	-1,167.7	20.9	1,167.8	0.00	0.00	0.00
12,800.0	90.00	179.63	11,737.0	-1,267.6	21.5	1,267.8	0.00	0.00	0.00
12,900.0	90.00	179.63	11,737.0	-1,367.6	22.2	1,367.8	0.00	0.00	0.00
13,000.0	90.00	179.63	11,737.0	-1,467.6	22.8	1,467.8	0.00	0.00	0.00
13,100.0	90.00	179.63	11,737.0	-1,567.6	23.5	1,567.8	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #753H	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)	
13,200.0	90.00	179.63	11,737.0	-1,667.6	24.1	1,667.8	0.00	0.00	0.00	
13,300.0	90.00	179.63	11,737.0	-1,767.6	24.8	1,767.8	0.00	0.00	0.00	
13,400.0	90.00	179.63	11,737.0	-1,867.6	25.4	1,867.8	0.00	0.00	0.00	
13,500.0	90.00	179.63	11,737.0	-1,967.6	26.1	1,967.8	0.00	0.00	0.00	
13,600.0	90.00	179.63	11,737.0	-2,067.6	26.7	2,067.8	0.00	0.00	0.00	
13,700.0	90.00	179.63	11,737.0	-2,167.6	27.4	2,167.8	0.00	0.00	0.00	
13,800.0	90.00	179.63	11,737.0	-2,267.6	28.0	2,267.8	0.00	0.00	0.00	
13,900.0	90.00	179.63	11,737.0	-2,367.6	28.7	2,367.8	0.00	0.00	0.00	
14,000.0	90.00	179.63	11,737.0	-2,467.6	29.3	2,467.8	0.00	0.00	0.00	
14,100.0	90.00	179.63	11,737.0	-2,567.6	30.0	2,567.8	0.00	0.00	0.00	
14,200.0	90.00	179.63	11,737.0	-2,667.6	30.6	2,667.8	0.00	0.00	0.00	
14,300.0	90.00	179.63	11,737.0	-2,767.6	31.3	2,767.8	0.00	0.00	0.00	
14,400.0	90.00	179.63	11,737.0	-2,867.6	31.9	2,867.8	0.00	0.00	0.00	
14,500.0	90.00	179.63	11,737.0	-2,967.6	32.6	2,967.8	0.00	0.00	0.00	
14,600.0	90.00	179.63	11,737.0	-3,067.6	33.2	3,067.8	0.00	0.00	0.00	
14,700.0	90.00	179.63	11,737.0	-3,167.6	33.9	3,167.8	0.00	0.00	0.00	
14,800.0	90.00	179.63	11,737.0	-3,267.6	34.5	3,267.8	0.00	0.00	0.00	
14,900.0	90.00	179.63	11,737.0	-3,367.6	35.2	3,367.8	0.00	0.00	0.00	
15,000.0	90.00	179.63	11,737.0	-3,467.6	35.8	3,467.8	0.00	0.00	0.00	
15,100.0	90.00	179.63	11,737.0	-3,567.6	36.5	3,567.8	0.00	0.00	0.00	
15,200.0	90.00	179.63	11,737.0	-3,667.6	37.1	3,667.8	0.00	0.00	0.00	
15,300.0	90.00	179.63	11,737.0	-3,767.6	37.8	3,767.8	0.00	0.00	0.00	
15,400.0	90.00	179.63	11,737.0	-3,867.6	38.4	3,867.8	0.00	0.00	0.00	
15,500.0	90.00	179.63	11,737.0	-3,967.6	39.1	3,967.8	0.00	0.00	0.00	
15,600.0	90.00	179.63	11,737.0	-4,067.6	39.7	4,067.8	0.00	0.00	0.00	
15,700.0	90.00	179.63	11,737.0	-4,167.6	40.4	4,167.8	0.00	0.00	0.00	
15,800.0	90.00	179.63	11,737.0	-4,267.6	41.0	4,267.8	0.00	0.00	0.00	
15,900.0	90.00	179.63	11,737.0	-4,367.6	41.7	4,367.8	0.00	0.00	0.00	
16,000.0	90.00	179.63	11,737.0	-4,467.6	42.3	4,467.8	0.00	0.00	0.00	
16,100.0	90.00	179.63	11,737.0	-4,567.6	43.0	4,567.8	0.00	0.00	0.00	
16,200.0	90.00	179.63	11,737.0	-4,667.6	43.6	4,667.8	0.00	0.00	0.00	
16,300.0	90.00	179.63	11,737.0	-4,767.6	44.3	4,767.8	0.00	0.00	0.00	
16,400.0	90.00	179.63	11,737.0	-4,867.6	44.9	4,867.8	0.00	0.00	0.00	
16,500.0	90.00	179.63	11,737.0	-4,967.6	45.6	4,967.8	0.00	0.00	0.00	
16,600.0	90.00	179.63	11,737.0	-5,067.6	46.3	5,067.8	0.00	0.00	0.00	
16,700.0	90.00	179.63	11,737.0	-5,167.6	46.9	5,167.8	0.00	0.00	0.00	
16,800.0	90.00	179.63	11,737.0	-5,267.6	47.6	5,267.8	0.00	0.00	0.00	
16,900.0	90.00	179.63	11,737.0	-5,367.6	48.2	5,367.8	0.00	0.00	0.00	
17,000.0	90.00	179.63	11,737.0	-5,467.6	48.9	5,467.8	0.00	0.00	0.00	
17,100.0	90.00	179.63	11,737.0	-5,567.6	49.5	5,567.8	0.00	0.00	0.00	
17,200.0	90.00	179.63	11,737.0	-5,667.6	50.2	5,667.8	0.00	0.00	0.00	
17,300.0	90.00	179.63	11,737.0	-5,767.6	50.8	5,767.8	0.00	0.00	0.00	
17,400.0	90.00	179.63	11,737.0	-5,867.6	51.5	5,867.8	0.00	0.00	0.00	
17,500.0	90.00	179.63	11,737.0	-5,967.6	52.1	5,967.8	0.00	0.00	0.00	
17,600.0	90.00	179.63	11,737.0	-6,067.5	52.8	6,067.8	0.00	0.00	0.00	
17,700.0	90.00	179.63	11,737.0	-6,167.5	53.4	6,167.8	0.00	0.00	0.00	
17,800.0	90.00	179.63	11,737.0	-6,267.5	54.1	6,267.8	0.00	0.00	0.00	
17,900.0	90.00	179.63	11,737.0	-6,367.5	54.7	6,367.8	0.00	0.00	0.00	
18,000.0	90.00	179.63	11,737.0	-6,467.5	55.4	6,467.8	0.00	0.00	0.00	
18,100.0	90.00	179.63	11,737.0	-6,567.5	56.0	6,567.8	0.00	0.00	0.00	
18,200.0	90.00	179.63	11,737.0	-6,667.5	56.7	6,667.8	0.00	0.00	0.00	
18,300.0	90.00	179.63	11,737.0	-6,767.5	57.3	6,767.8	0.00	0.00	0.00	
18,400.0	90.00	179.63	11,737.0	-6,867.5	58.0	6,867.8	0.00	0.00	0.00	
18,500.0	90.00	179.63	11,737.0	-6,967.5	58.6	6,967.8	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #753H	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)	
18,600.0	90.00	179.63	11,737.0	-7,067.5	59.3	7,067.8	0.00	0.00	0.00	
18,700.0	90.00	179.63	11,737.0	-7,167.5	59.9	7,167.8	0.00	0.00	0.00	
18,800.0	90.00	179.63	11,737.0	-7,267.5	60.6	7,267.8	0.00	0.00	0.00	
18,900.0	90.00	179.63	11,737.0	-7,367.5	61.2	7,367.8	0.00	0.00	0.00	
19,000.0	90.00	179.63	11,737.0	-7,467.5	61.9	7,467.8	0.00	0.00	0.00	
19,100.0	90.00	179.63	11,737.0	-7,567.5	62.5	7,567.8	0.00	0.00	0.00	
19,200.0	90.00	179.63	11,737.0	-7,667.5	63.2	7,667.8	0.00	0.00	0.00	
19,300.0	90.00	179.63	11,737.0	-7,767.5	63.8	7,767.8	0.00	0.00	0.00	
19,400.0	90.00	179.63	11,737.0	-7,867.5	64.5	7,867.8	0.00	0.00	0.00	
19,500.0	90.00	179.63	11,737.0	-7,967.5	65.1	7,967.8	0.00	0.00	0.00	
19,600.0	90.00	179.63	11,737.0	-8,067.5	65.8	8,067.8	0.00	0.00	0.00	
19,700.0	90.00	179.63	11,737.0	-8,167.5	66.4	8,167.8	0.00	0.00	0.00	
19,800.0	90.00	179.63	11,737.0	-8,267.5	67.1	8,267.8	0.00	0.00	0.00	
19,900.0	90.00	179.63	11,737.0	-8,367.5	67.7	8,367.8	0.00	0.00	0.00	
20,000.0	90.00	179.63	11,737.0	-8,467.5	68.4	8,467.8	0.00	0.00	0.00	
20,100.0	90.00	179.63	11,737.0	-8,567.5	69.0	8,567.8	0.00	0.00	0.00	
20,200.0	90.00	179.63	11,737.0	-8,667.5	69.7	8,667.8	0.00	0.00	0.00	
20,300.0	90.00	179.63	11,737.0	-8,767.5	70.3	8,767.8	0.00	0.00	0.00	
20,400.0	90.00	179.63	11,737.0	-8,867.5	71.0	8,867.8	0.00	0.00	0.00	
20,500.0	90.00	179.63	11,737.0	-8,967.5	71.6	8,967.8	0.00	0.00	0.00	
20,600.0	90.00	179.63	11,737.0	-9,067.5	72.3	9,067.8	0.00	0.00	0.00	
20,700.0	90.00	179.63	11,737.0	-9,167.5	72.9	9,167.8	0.00	0.00	0.00	
20,800.0	90.00	179.63	11,737.0	-9,267.5	73.6	9,267.8	0.00	0.00	0.00	
20,900.0	90.00	179.63	11,737.0	-9,367.5	74.2	9,367.8	0.00	0.00	0.00	
21,000.0	90.00	179.63	11,737.0	-9,467.5	74.9	9,467.8	0.00	0.00	0.00	
21,100.0	90.00	179.63	11,737.0	-9,567.5	75.5	9,567.8	0.00	0.00	0.00	
21,200.0	90.00	179.63	11,737.0	-9,667.5	76.2	9,667.8	0.00	0.00	0.00	
21,300.0	90.00	179.63	11,737.0	-9,767.5	76.9	9,767.8	0.00	0.00	0.00	
21,400.0	90.00	179.63	11,737.0	-9,867.5	77.5	9,867.8	0.00	0.00	0.00	
21,500.0	90.00	179.63	11,737.0	-9,967.5	78.2	9,967.8	0.00	0.00	0.00	
21,545.5	90.00	179.63	11,737.0	-10,013.0	78.4	10,013.3	0.00	0.00	0.00	
Start 50.0 hold at 21545.5 MD										
21,595.5	90.00	179.63	11,737.0	-10,063.0	78.8	10,063.3	0.00	0.00	0.00	
TD at 21595.5										

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- Shape										
PBHL (ZHU 2032 WC #; - plan misses target center by 0.3usft at 21595.5usft MD (11737.0 TVD, -10063.0 N, 78.8 E) - Rectangle (sides W100.0 H10,068.6 D20.0)	0.00	359.63	11,737.0	-10,063.0	78.4	364,380.85	695,535.60	32° 0' 0.822 N		103° 42' 9.240 W
LTP (ZHU 2032 WC #75 - plan hits target center - Point	0.00	0.00	11,737.0	-10,013.0	78.4	364,430.85	695,535.60	32° 0' 1.317 N		103° 42' 9.236 W
FTP (ZHU 2032 WC #7E - plan misses target center by 201.6usft at 11629.9usft MD (11593.9 TVD, -136.5 N, 4.4 E) - Circle (radius 50.0)	0.00	0.00	11,737.0	5.2	13.0	374,449.03	695,470.17	32° 1' 40.462 N		103° 42' 9.317 W

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #753H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3175.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3175.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #753H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,500.0	1,500.0	DB SURF 10-3/4"	10-3/4	14-3/4	
11,259.5	11,259.5	DB INT 7-5/8"	7-5/8	9-7/8	
21,595.5	11,737.0	DB PROD 5 1/2"	5-1/2	6-3/4	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.0	1,500.0	0.0	0.0	Start 9759.5 hold at 1500.0 MD	
11,259.5	11,259.5	0.0	0.0	Start Build 12.00	
12,009.5	11,737.0	-477.2	15.4	Start DLS 2.00 TFO 90.00	
12,083.4	11,737.0	-551.0	16.8	Start 9462.2 hold at 12083.4 MD	
21,545.5	11,737.0	-10,013.0	78.4	Start 50.0 hold at 21545.5 MD	
21,595.5	11,737.0	-10,063.0	78.8	TD at 21595.5	

ConocoPhillips Company - Zia Hills Unit 2032 WC 753H

1. Geologic Formations

TVD of target	11,737' EOL	Pilot hole depth	NA
MD at TD:	21,596'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1234	Water	
Top of Salt	1554	Salt	
Base of Salt	3965	Salt	
Lamar	4235	Salt Water	
Bell Canyon	4270	Salt Water	
Cherry Canyon	5205	Oil/Gas	
Brushy Canyon	6650	Oil/Gas	
Bone Spring	8310	Oil/Gas	
1st Bone Spring Sand	9291	Oil/Gas	
2nd Bone Spring Sand	9891	Oil/Gas	
3rd Bone Spring Sand	11087	Oil/Gas	
Wolfcamp	11561	Oil/Gas	
Wolfcamp A	11726	Target	
Wolfcamp B	12015	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	1410	13.375"	54.5	J55	BTC	1.75	1.57	11.10	11.83
12.25"	0	4140	9.625"	40	L80-IC	BTC	1.80	1.32	5.53	5.72
8.75"	3940	11125	7.625"	29.7	P110-ICY	W513	1.27	1.57	3.23	1.94
6.75"	0	10925	5.5"	23	P110-CY	BTC	1.90	2.21	2.90	2.90
6.75"	10925	21,596	5.5"	23	P110-CY	W441	1.76	2.06	2.70	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 2032 WC 753H

	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?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	840	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	610	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	780	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	800	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	3,940'	20%
Production	10,625'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2032 WC 753H

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.

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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
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - Zia Hills Unit 2032 WC 753H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8240 psi at 11737' 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

BOPE Break Testing Variance

Initial and 21 Day Testing of 10K BOP's:

Component	High Test Pressure	Low Test Pressure	Duration
Annular Preventer	5,000 psig	250 psig	10 min
Rams	5,000 psig	250 psig	10 min
Manifold	5,000 psig	250 psig	10 min
Wellhead	1,500 psig	-	10 min
Upper / Lower / Kelly Valves	5,000 psig	250 psig	10 min
TIW safety valves / Dart	5,000 psig	250 psig	10 min
Standpipe and mud line to pumps	5,000 psig	250 psig	10 min
Surface Casing (with 8.4 ppg fluid)	1,500 psig	-	30 min

*Equipment satisfies 10M BOPE but break test variance applies to 5M system

COG Production LLC formally requests variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow break/shell testing of blowout preventor (BOP) and blowout prevention equipment (BOPE) during batch drilling operations of the intermediate hole section. This variance only applies to 5M BOPE or less formation.

Initial testing of the BOP will be conducted, verifying all components of BOP, BOPE, and choke manifold meet the minimum and maximum anticipated surface pressure (MASP) in accordance with API RP 53 and Onshore Order No. 2, reference table above. Once initial test pressures are achieved, shell testing of the BOP and choke manifold would be conducted within the time limit from initial test to the congruent 21-day test. A complete pressure test of the BOPE components will be completed no later than 21 days following the completion of the initial pressure test or latest complete BOP pressure test date succeeding the initial test, per API RP 53 (6.5.3.4.1 (d)).

BOP and BOPE Testing

- Minimum of Class 3 stack arrangement with one set of blind/blind shear rams and pipe rams shall be installed for a 5K pressure rated system per API RP 53 (6.1.2.9)
 - Classification - COP minimum of Class 3 arrangement apply for all Delaware Basin area wells.
 - Arrangement - Annular preventer, upper pipe rams, blind rams, mud cross, lower pipe rams
- Complete BOP and BOPE test performed at initial installation on well pad.
 - Initial test performed on well with deepest planned intermediate hole section (allowable 200' TVD variance between intermediate hole sections)
 - Annular preventer tested to 100 percent of MASP, or 70 percent of rated working pressure (RWP), whichever is greater.
 - Notify BLM 4 Hrs. prior to testing
- Complete BOP and BOPE test every 21 days in accordance with API RP 53 (6.5.3.4.1 (d)).
- BOP/BOPE shell test (inclusive of manifold shell test) performed during batch drilling operations during rig transition between wells (within the 21-day time limit per API RP 53).
- Function test BOP elements per API RP 53 (6.5.3.1).
 - Required on (1) initial installation of stack, (2) every 7 days, (3) after repair/replacement of any control components
 - Alternate between drillers panel and remote panel

Securing the Wellhead

- Prior to moving rig off check for flow
 - Ensure floats are holding, casing is full of kill mud and backside is static.
- Secure the well with sleeve/plug with BPV
- Disconnect BOP from the wellhead and walk with the rig to another well on the pad.
 - Utilizing BOP wrangler/cradle, maintaining control and upright position of the BOP during movement
- Once BOP is separated from wellhead the Temporary Abandonment (TA) cap will be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- Test TA cap to 5,000 psi for 10 min.

COG Production LLC believes that the combination of drilling fluid inside the casing, abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Break Testing

- Skid rig over the next well on pad and center over wellhead, N/U BOP with the use of the BOP quick connect.
- Shell test the BOP and choke manifold to 5,000 psig and 250 psig. Hold each test for 10 minutes.
 - In accordance with API RP 53 (6.5.3.4.1(b)) BOP shell test will satisfy pressure test of quick connect seals
 - Notify BLM 4 hours prior to testing
- RWP of BOP quick connect is 10K (Certificate of Conformance attached)

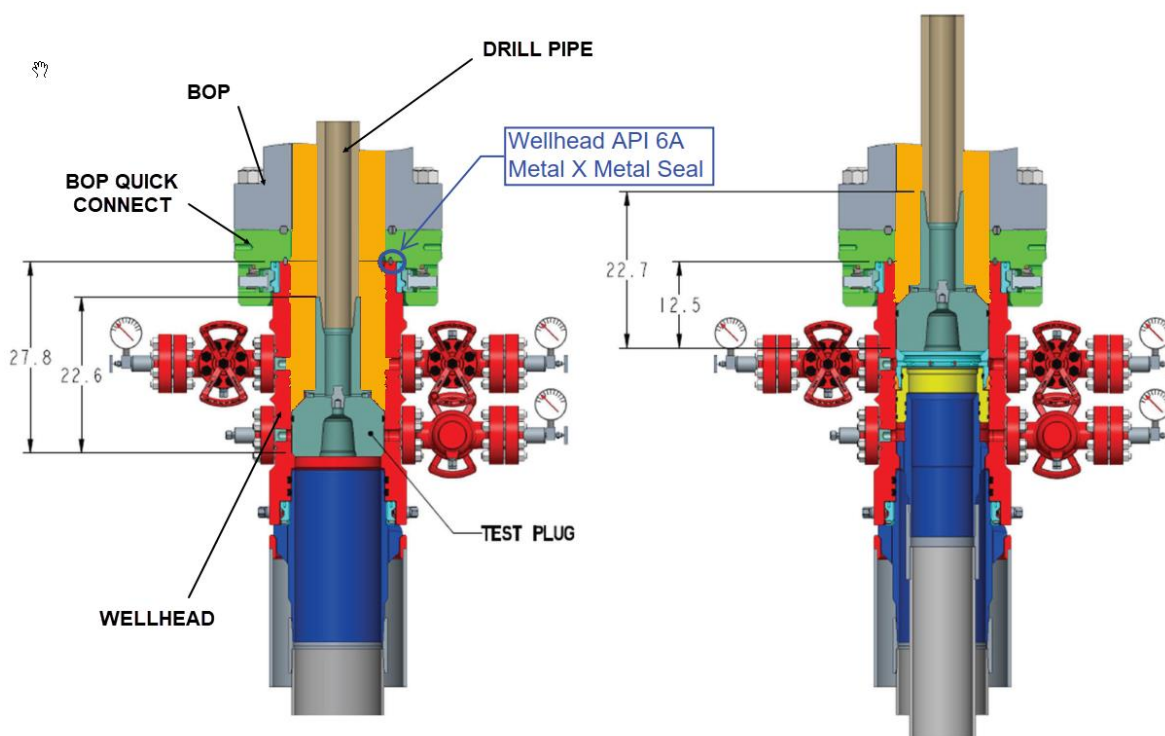


Figure 1: Test plug installed (The orange sections above indicate the areas exposed to the pressure test)

Example Well Control Plan Content

A. Well Control Component Table

This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nipped up to the wellhead.

Intermediate hole section, 5M requirement

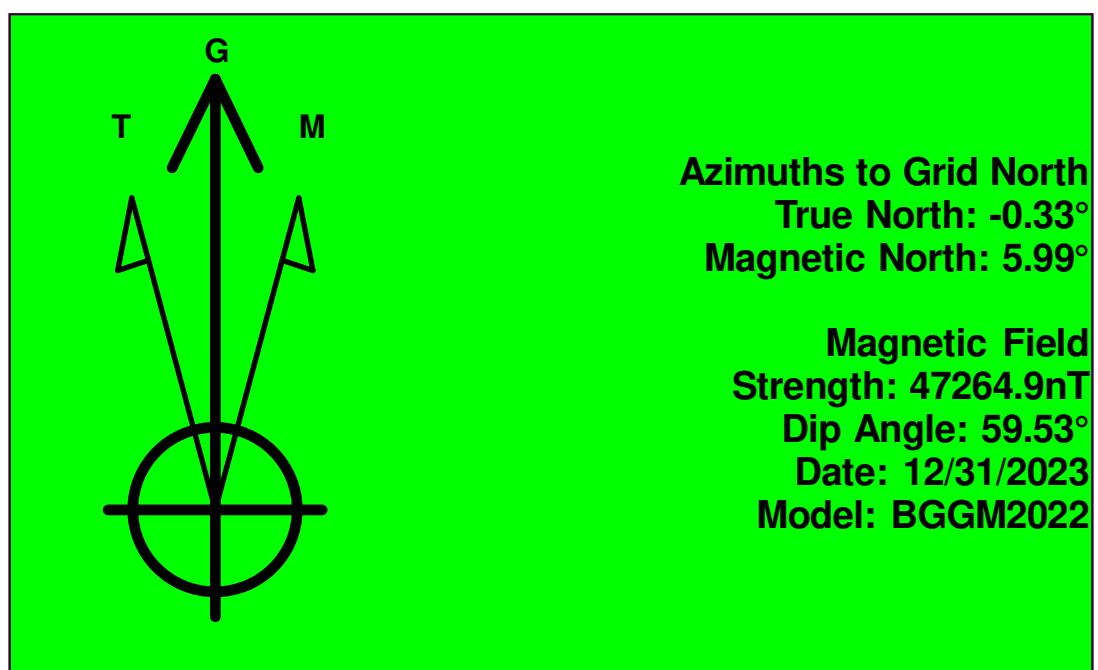
Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating.

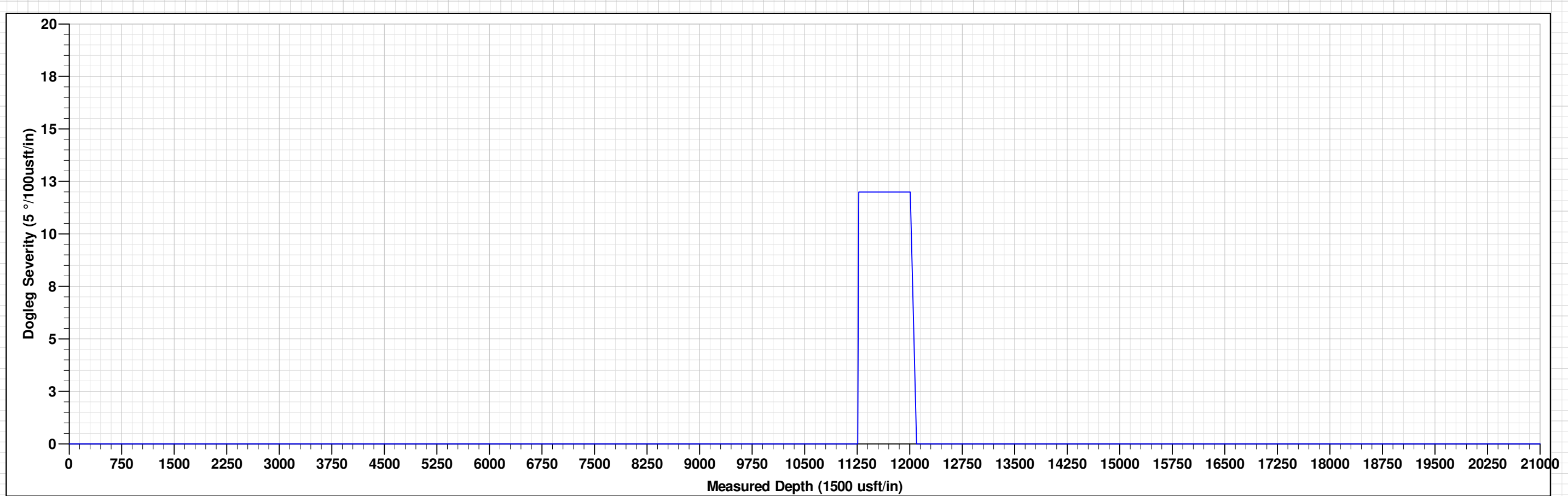
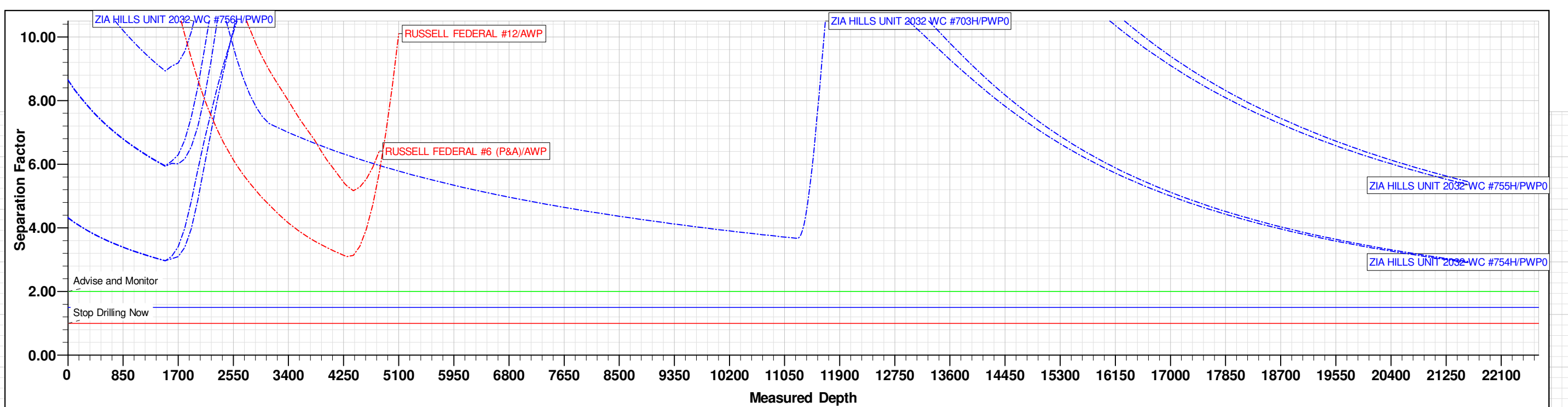
General Procedure

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut in.
5. Notify tool pusher/company representative.
6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

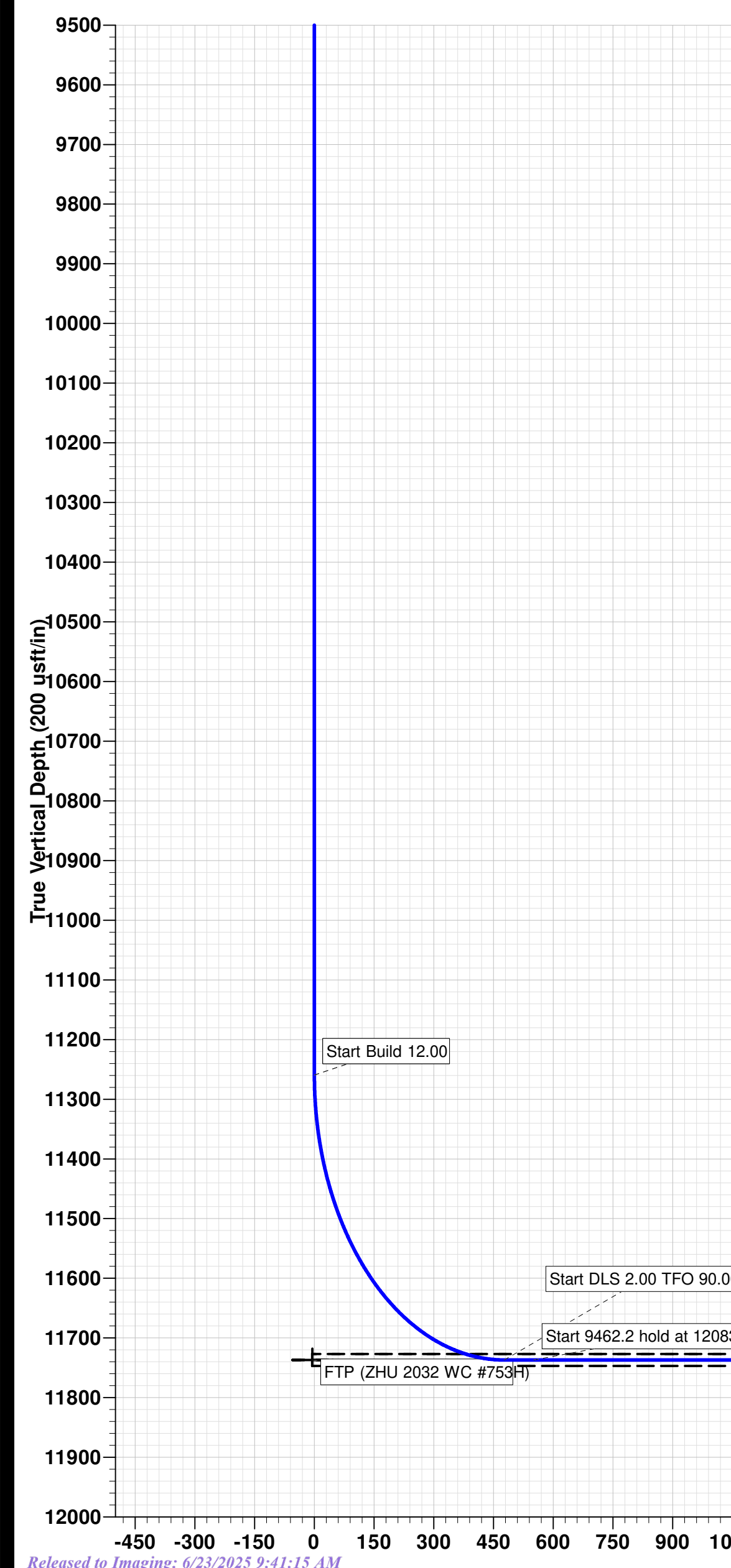
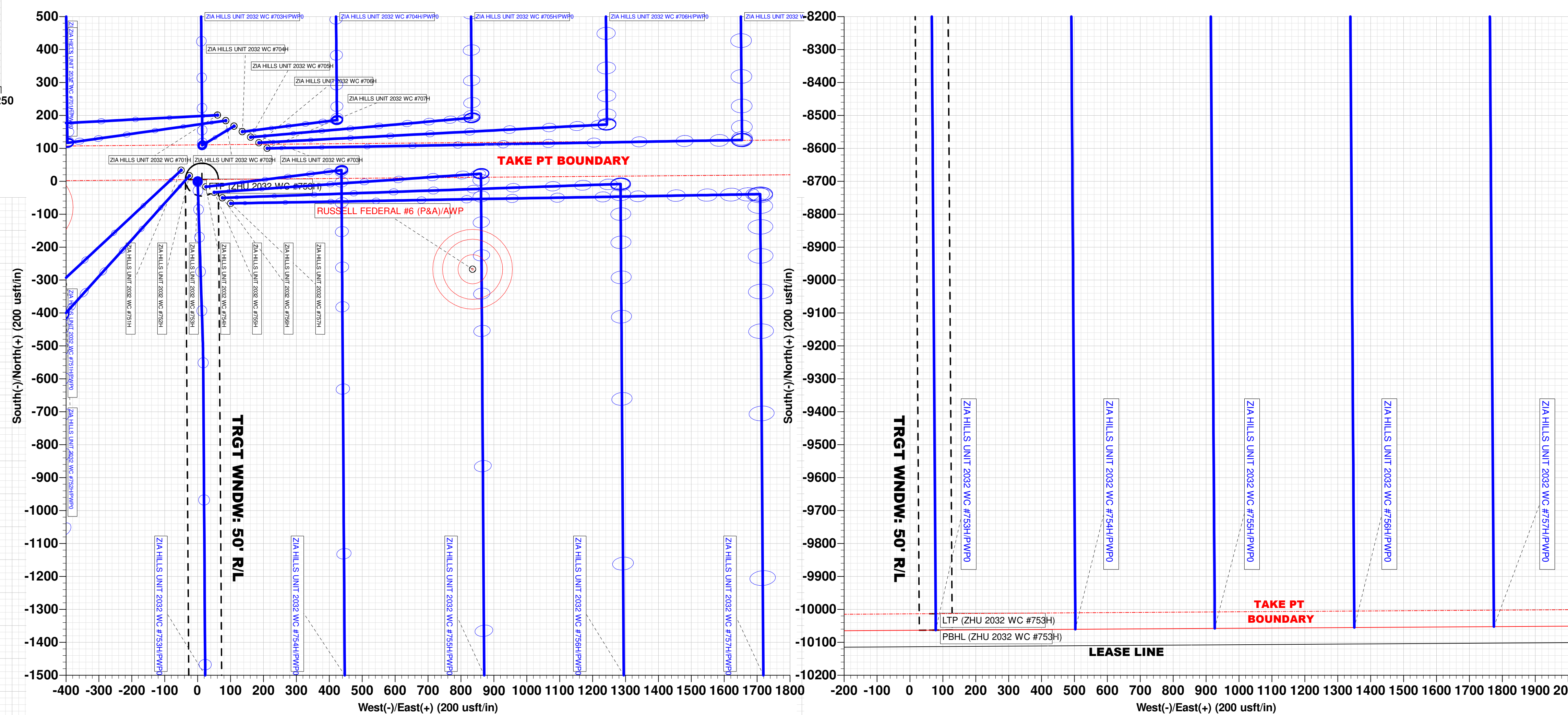
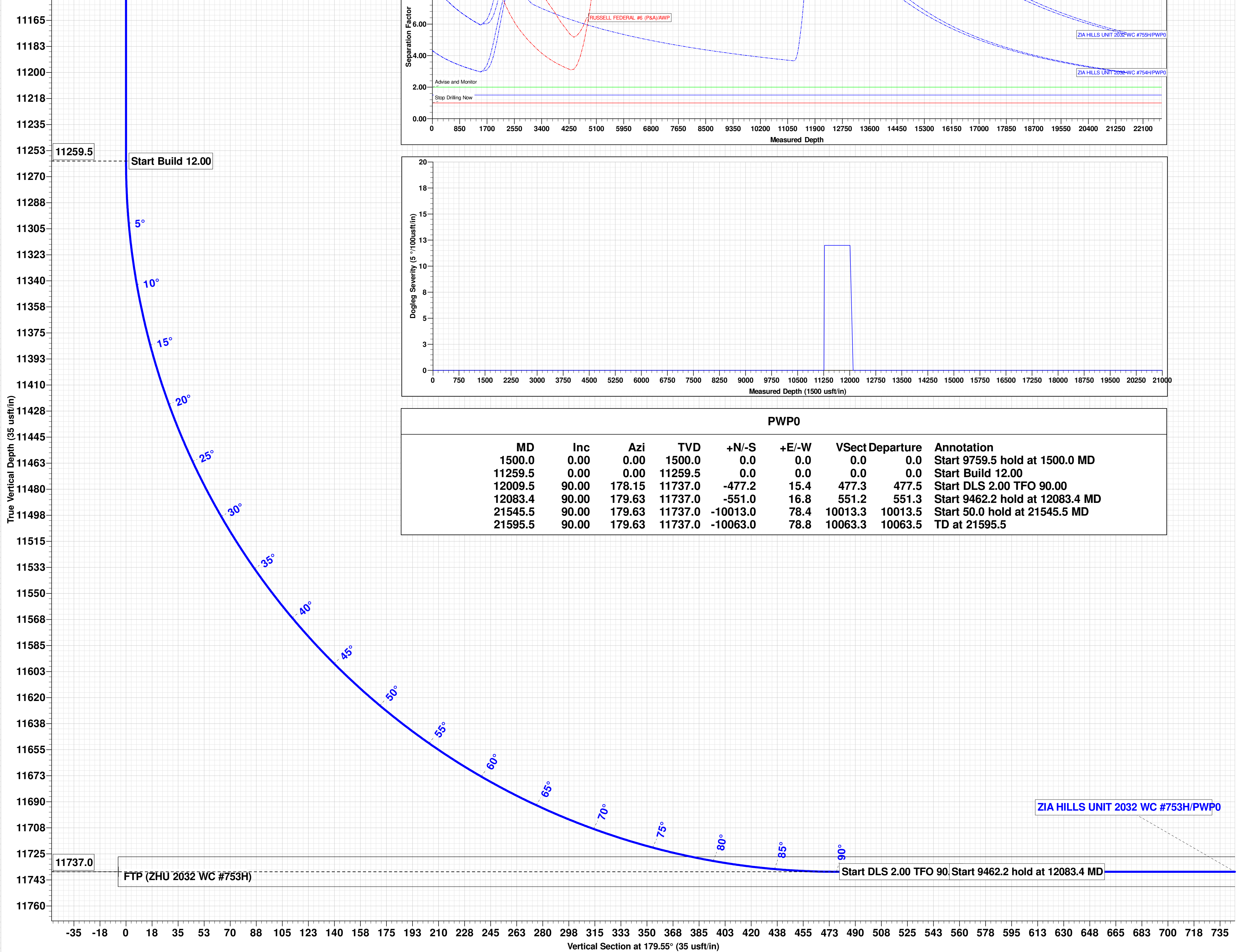
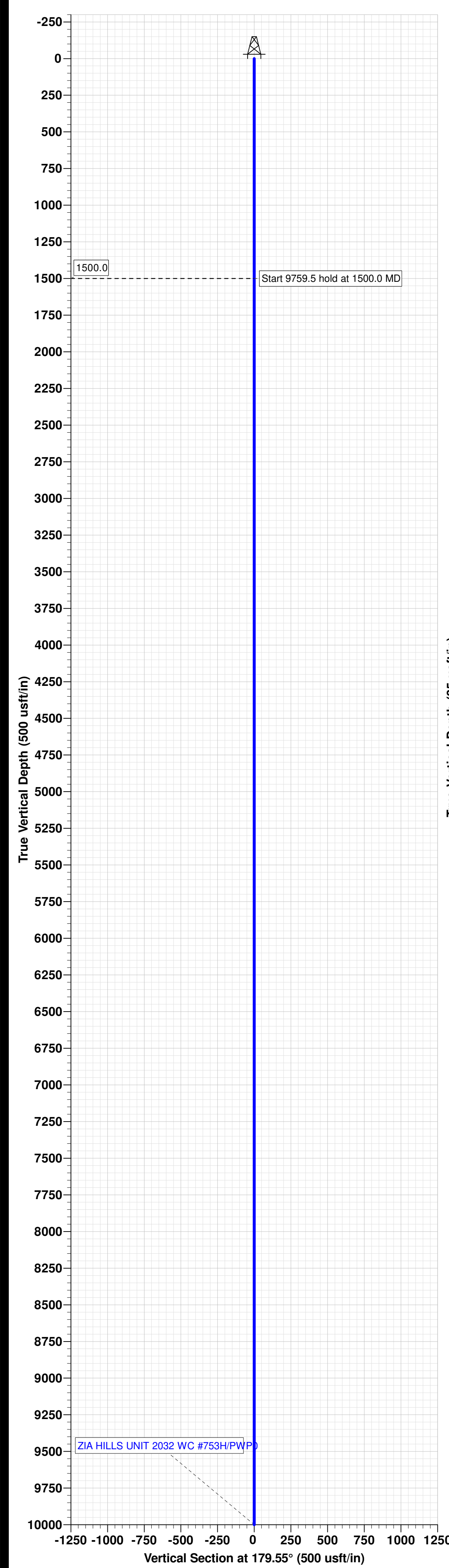


WELL DETAILS: ZIA HILLS UNIT 2032 WC #753H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374443.86	695457.15	32° 1' 40.412 N	103° 42' 9.469 W

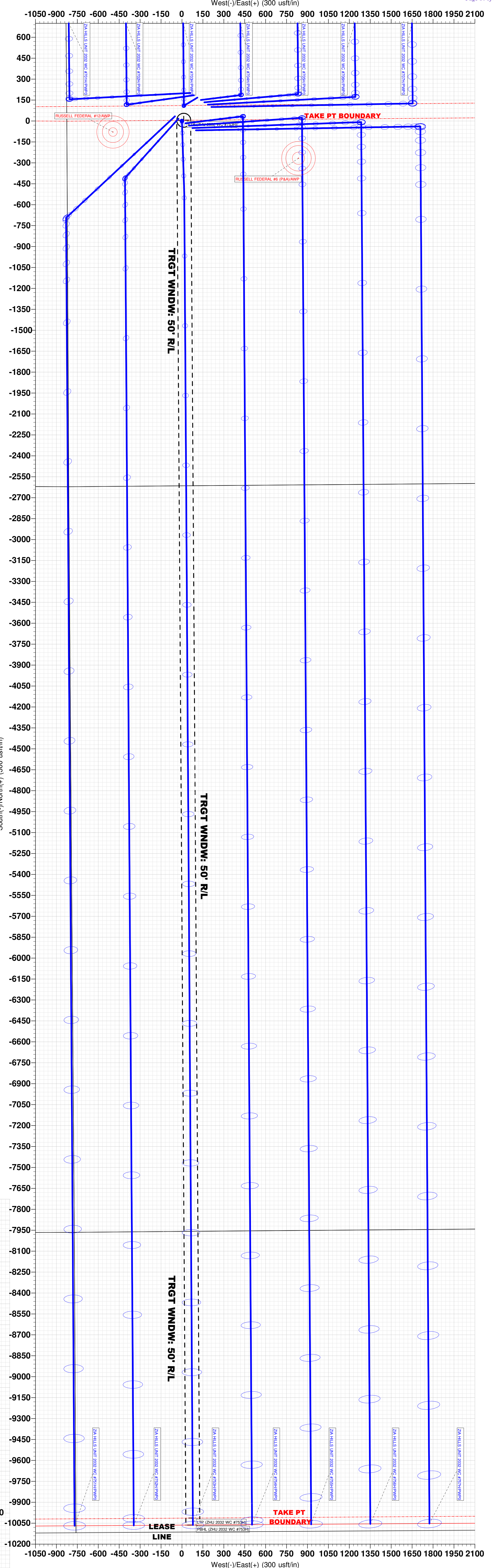
DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
FTP (ZHU 2032 WC #753H)	11737.0	5.2	13.0	374449.03	695470.17
LTP (ZHU 2032 WC #753H)	11737.0	-10013.0	78.4	364430.85	695535.60
PBHL (ZHU 2032 WC #753H)	11737.0	-10063.0	78.4	364380.85	695535.60
Shape	Circle (Radius: 50.0)				
Point					
Rectangle (Sides: L1006.6 W100.0)					



PWP0									
MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start 9759.5 hold at 1500.0 MD	
11259.5	0.00	0.00	11259.5	0.0	0.0	0.0	0.0	Start Build 12.00	
12009.5	90.00	178.15	11737.0	-477.2	15.4	477.3	477.5	Start DLS 2.00 TFO 90.00	
12083.4	90.00	179.63	11737.0	-551.0	16.8	551.2	551.3	Start 9462.2 hold at 12083.4 MD	
21545.5	90.00	179.63	11737.0	-10013.0	78.4	10013.3	10013.5	Start 50.0 hold at 21545.5 MD	
21595.5	90.00	179.63	11737.0	-10063.0	78.8	10063.3	10063.5	TD at 21595.5	



TRGT WNDW: 10' A/B



Start 50.0 hold at 21545.5 MD
LTP (ZHU 2032 WC #753H)
PBHL (ZHU 2032 WC #753H)
TD at 21595.5
ZIA HILLS UNIT 2032 WC #753H/PWP0

Sante Fe Main Office
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General Information
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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

CONDITIONS

Action 394912

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 394912
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Cement is required to circulate on both surface and intermediate1 strings of casing.	6/23/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	6/23/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	6/23/2025