

Well Name: ZIA HILLS UNIT 2032 WC	Well Location: T26S / R32E / SEC 20 / NWSW / 32.0278313 / -103.7027781	County or Parish/State: LEA / NM
Well Number: 757H	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: 3002552544	Operator: CONOCOPHILLIPS COMPANY	

Notice of Intent

Sundry ID: 2816801

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/14/2024	Time Sundry Submitted: 10:23
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, 10632-21747 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 – 11325 ft. Production: 6.75 inch hole, 5.5 inch, 23#, P-110, BTC 0-11125 ft. 6.75 inch hole, 5.5 inch, 23#, W441, 11125 – 21748 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_757H_PWP0_AC_RPT_20241014102315.pdf
- ZIA_HILLS_UNIT_2032_WC_757H_revised_drilling_procedure_10_14_24_20241014102315.pdf
- COP_BOP_Break_Testing_Documentation_6_07_23_20241014102315.pdf
- ZIA_HILLS_UNIT_2032_WC_757H_PWP0_WPLOT_20241014102315.pdf
- ZIA_HILLS_UNIT_2032_WC_757H_PWP0_DIR_RPT_20241014102315.pdf

Received by OCD: 10/23/2024 7:59:04 AM

Page 2 of 99

Well Name: ZIA HILLS UNIT 2032 WC	Well Location: T26S / R32E / SEC 20 / NWSW / 32.0278313 / -103.7027781	County or Parish/State: LEA / NM
Well Number: 757H	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: 3002552544	Operator: CONOCOPHILLIPS COMPANY	

Conditions of Approval

Additional

SEC20_T26S_R32E_ZIA_HILLS_UNIT_2032_WC__Lea__CONOCOPHILLIPS_COMPANY_45587_JS_20241022095745.pdf

ZIA_HILLS_UNIT_2032_WC_757H_COAs_20241022095745.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 10:23 AM

Name: CONOCOPHILLIPS COMPANY

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLANDState: 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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 11325 ft.
Production: 6.75 inch hole, 5.5 inch, 23#, P-110, BTC 0-11125 ft.
6.75 inch hole, 5.5 inch, 23#, W441, 11125 21748 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 / 2547 FSL / 925 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0278313 / LONG: -103.7027781 (TVD: 0 feet, MD: 0 feet)
PPP: NWSW / 2620 FSL / 2534 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0280422 / LONG: -103.6975865 (TVD: 11578 feet, MD: 11807 feet)
PPP: NENW / 1 FNL / 2534 FWL / TWSP: 26S / RANGE: 32E / SECTION: 29 / LAT: 32.02084 / LONG: -103.697592 (TVD: 11739 feet, MD: 14428 feet)
BHL: LOT 3 / 50 FSL / 2534 FWL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.0003561 / LONG: -103.6975652 (TVD: 11739 feet, MD: 21747 feet)

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		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?				

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2032 WC 757H
SURFACE HOLE FOOTAGE:	2547'/S & 925'/W
BOTTOM HOLE FOOTAGE:	50'/S & 2534'/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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2032 PROJECT

ZIA HILLS UNIT 2032 WC #757H

OWB

PWP0

Anticollision Report

25 January, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	11,461.5	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
11,461.5	21,747.5	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						
ODELL STATE						
ODELL STATE 54-1-6 LOV #2H - OWB - AWP	21,747.5	11,541.1	398.7	307.9	4.389	CC, ES, SF
ZIA HILLS 20 FED COM PROJECT						
BUCK 20 FEDERAL #3H (P&A) - OWB - AWP	9,385.1	11,512.5	211.0	129.4	2.585	CC, ES, SF
BUCK 20 FEDERAL #6H (P&A) - OWB - AWP	9,019.5	11,233.6	481.4	390.6	5.302	CC, ES, SF
CONOCO FEDERAL #1 - OWB - AWP						Out of range
RUSSELL FEDERAL #10 - OWB - AWP						Out of range
RUSSELL FEDERAL #12 - OWB - AWP	1,440.0	1,442.2	595.1	557.4	15.775	CC
RUSSELL FEDERAL #12 - OWB - AWP	1,600.0	1,602.1	596.9	554.4	14.037	ES
RUSSELL FEDERAL #12 - OWB - AWP	3,300.0	3,254.3	981.8	868.0	8.630	SF
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	4,466.8	4,378.0	214.2	44.0	1.259	Advise and Monitor, CC, ES, SF
ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2	11,461.5	11,293.6	446.4	394.0	8.509	CC, ES, SF
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	11,403.8	11,222.3	826.4	770.4	14.743	CC
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	11,461.5	11,275.0	826.5	770.3	14.725	ES, SF
ZIA HILLS 20 FEDERAL COM #103H - OWB - PWP2						Out of range
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	11,747.6	11,613.5	436.4	379.0	7.594	CC
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	21,747.5	21,739.7	473.5	308.5	2.869	ES, SF
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	9,604.4	9,416.0	743.9	688.1	13.340	CC, ES
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	9,700.0	9,486.0	745.9	689.8	13.296	SF
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	9,604.4	9,416.0	743.9	688.3	13.397	CC
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	21,747.5	21,723.8	849.2	687.3	5.246	ES, SF
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	9,556.9	9,369.2	790.0	731.6	13.522	CC
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	21,747.5	21,413.4	812.1	636.8	4.633	ES, SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	9,077.2	8,875.5	991.1	934.1	17.376	CC
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	9,100.0	8,897.1	991.2	934.0	17.341	ES
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	9,800.0	9,594.7	999.8	941.0	17.025	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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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						
BUCK 20 FEDERAL #2H (P&A) - OWB - AWP	9,427.1	11,525.0	984.5	902.1	11.954	CC, ES
BUCK 20 FEDERAL #2H (P&A) - OWB - AWP	9,500.0	11,521.6	987.2	904.6	11.950	SF
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	1,500.0	1,497.0	271.1	260.5	25.717	CC, ES
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	1,900.0	1,886.1	282.5	271.2	25.044	SF
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	1,617.1	1,614.7	251.8	241.3	24.082	CC
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	1,700.0	1,697.4	251.9	241.2	23.559	ES
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	1,900.0	1,892.2	256.7	245.5	22.789	SF
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	1,934.9	1,938.8	224.8	213.5	19.834	CC, ES
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	2,100.0	2,098.3	229.7	217.9	19.422	SF
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	1,500.0	1,498.0	220.6	210.1	20.933	CC, ES
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	4,100.0	4,061.3	401.0	376.5	16.363	SF
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	1,500.0	1,499.0	209.9	199.4	19.979	CC
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	2,600.0	2,583.2	210.6	197.1	15.563	ES
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	5,200.0	5,157.4	361.2	328.7	11.090	SF
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	3,362.0	3,337.3	200.9	183.6	11.636	CC
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	4,000.0	3,974.8	202.2	182.2	10.101	ES
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	6,600.0	6,553.2	266.6	227.3	6.778	SF
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	8,228.6	8,221.7	165.4	126.0	4.200	CC, ES
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	11,461.5	11,452.9	173.5	127.8	3.800	SF
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	1,500.0	1,497.0	181.1	170.9	17.846	CC, ES, SF
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	1,500.0	1,498.0	151.0	140.9	14.881	CC, ES, SF
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	1,500.0	1,499.0	120.8	110.7	11.907	CC, ES, SF
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	1,500.0	1,499.0	90.7	80.6	8.941	CC
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	1,800.0	1,806.3	91.5	80.5	8.302	ES
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	2,000.0	2,008.5	94.5	82.5	7.901	SF
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	1,500.0	1,499.0	60.4	50.3	5.956	CC
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	2,100.0	2,108.9	61.8	49.3	4.934	ES
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	2,200.0	2,208.9	63.9	50.8	4.889	SF
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	1,500.0	1,500.0	30.2	20.1	2.977	CC
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	2,200.0	2,205.9	30.5	17.4	2.332	ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ODELL STATE						
ODELL STATE 54-1-6 LOV #2H - OWB - AWP	21,747.5	11,541.1	398.7	307.9	4.389	CC, ES, SF
ZIA HILLS 20 FED COM PROJECT						
BUCK 20 FEDERAL #3H (P&A) - OWB - AWP	21,747.5	13,729.0				Out of Range @TD
BUCK 20 FEDERAL #6H (P&A) - OWB - AWP	21,747.5	13,470.0				Out of Range @TD
CONOCO FEDERAL #1 - OWB - AWP	21,747.5	4,327.0				Out of Range @TD
RUSSELL FEDERAL #10 - OWB - AWP	21,747.5	4,500.0				Out of Range @TD
RUSSELL FEDERAL #12 - OWB - AWP	21,747.5	4,335.0				Out of Range @TD
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	21,747.5	4,378.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2	21,747.5	11,450.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2	21,747.5	11,287.6				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #103H - OWB - PWP2	21,747.5	11,475.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP	21,747.5	21,739.7	473.5	308.5	2.869	ES, SF
ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP	21,747.5	11,885.0				Out of Range @TD
ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP	21,747.5	21,723.8	849.2	687.3	5.246	ES, SF
ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP	21,747.5	21,413.4	812.1	636.8	4.633	ES, SF
ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP	21,747.5	21,704.7				Out of Range @TD
ZIA HILLS UNIT 2032 PROJECT						
BUCK 20 FEDERAL #2H (P&A) - OWB - AWP	21,747.5	13,444.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #701H - OWB - PWP0	21,747.5	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #702H - OWB - PWP0	21,747.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #703H - OWB - PWP0	21,747.5	11,275.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #704H - OWB - PWP0	21,747.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #705H - OWB - PWP0	21,747.5	11,325.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	21,747.5	11,575.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	21,747.5	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #751H - OWB - PWP0	21,747.5	21,026.0				Out of Range @TD
ZIA HILLS UNIT 2032 WC #752H - OWB - PWP0	21,747.5	21,409.6				Out of Range @TD
ZIA HILLS UNIT 2032 WC #753H - OWB - PWP0	21,747.5	21,595.5				Out of Range @TD
ZIA HILLS UNIT 2032 WC #754H - OWB - PWP0	21,747.5	21,829.6				Out of Range @TD
ZIA HILLS UNIT 2032 WC #755H - OWB - PWP0	21,747.5	21,692.9	848.0	682.8	5.135	Out of Range @TD
ZIA HILLS UNIT 2032 WC #756H - OWB - PWP0	21,747.5	21,894.3	458.7	290.5	2.727	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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: ODELL STATE - ODELL STATE 54-1-6 LOV #2H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 30-MWD+HDGM													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		
21,100.0	11,739.0	11,391.2	11,370.6	81.5	40.4	12.56	-10,237.0	1,597.1	968.5	892.1	76.44	12.671		
21,200.0	11,739.0	11,430.0	11,406.1	82.2	40.5	14.25	-10,252.2	1,595.2	877.1	800.1	76.99	11.393		
21,300.0	11,739.0	11,430.0	11,406.1	82.9	40.5	14.25	-10,252.2	1,595.2	785.2	706.2	78.95	9.945		
21,400.0	11,739.0	11,430.0	11,406.1	83.5	40.5	14.25	-10,252.2	1,595.2	695.5	613.9	81.64	8.519		
21,500.0	11,739.0	11,464.8	11,437.3	84.2	40.6	16.02	-10,267.8	1,593.8	607.2	524.0	83.25	7.294		
21,600.0	11,739.0	11,492.4	11,461.3	84.9	40.7	17.60	-10,281.2	1,592.9	521.1	435.2	85.85	6.069		
21,697.5	11,739.0	11,525.0	11,489.1	85.6	40.8	19.75	-10,298.3	1,592.0	439.5	350.6	88.82	4.947		
21,700.0	11,739.0	11,525.0	11,489.1	85.6	40.8	19.75	-10,298.3	1,592.0	437.4	348.4	88.99	4.915		
21,747.5	11,739.0	11,541.1	11,502.5	85.9	40.8	20.95	-10,307.2	1,591.7	398.7	307.9	90.84	4.389 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - BUCK 20 FEDERAL #3H (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 8427-MWD - OWSG R1													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		
8,400.0	8,201.1	11,526.9	9,204.0	34.6	45.0	176.27	7.9	1,398.3	999.3	953.2	46.06	21.693		
8,500.0	8,300.8	11,525.3	9,204.0	34.9	44.9	176.52	9.5	1,398.2	902.8	855.8	46.98	19.215		
8,600.0	8,400.5	11,523.8	9,204.1	35.3	44.9	176.79	11.1	1,398.2	806.8	758.7	48.12	16.766		
8,700.0	8,500.4	11,522.2	9,204.1	35.7	44.9	177.09	12.7	1,398.1	711.7	662.2	49.57	14.357		
8,800.0	8,600.2	11,520.7	9,204.1	36.0	44.9	177.40	14.2	1,398.1	617.8	566.3	51.49	11.998		
8,900.0	8,700.2	11,519.2	9,204.1	36.3	44.8	177.73	15.6	1,398.1	525.8	471.7	54.13	9.714		
9,000.0	8,800.1	11,517.8	9,204.1	36.6	44.8	178.07	17.1	1,398.0	436.9	379.0	57.89	7.547		
9,100.0	8,900.1	11,516.4	9,204.2	36.9	44.8	178.42	18.5	1,398.0	353.4	290.0	63.38	5.576		
9,200.0	9,000.1	11,515.0	9,204.2	37.2	44.8	178.78	19.9	1,398.0	280.2	209.1	71.15	3.938		
9,300.0	9,100.1	11,513.6	9,204.2	37.4	44.7	179.15	21.3	1,397.9	227.5	147.9	79.58	2.859		
9,324.5	9,124.6	11,513.3	9,204.2	37.4	44.7	-91.76	21.6	1,397.9	219.5	138.6	80.97	2.711		
9,385.1	9,185.2	11,512.5	9,204.2	37.4	44.7	-91.54	22.4	1,397.9	211.0	129.4	81.64	2.585 CC, ES, SF		
9,400.0	9,200.1	11,512.3	9,204.2	37.4	44.7	-91.49	22.6	1,397.9	211.5	130.4	81.09	2.608		
9,500.0	9,300.1	11,511.0	9,204.2	37.4	44.7	-91.14	23.9	1,397.8	240.2	168.0	72.21	3.327		
9,600.0	9,400.1	11,509.7	9,204.2	37.4	44.7	-90.79	25.2	1,397.8	301.1	239.1	62.04	4.854		
9,700.0	9,500.1	11,508.5	9,204.3	37.5	44.7	-90.46	26.4	1,397.8	379.0	323.7	55.32	6.851		
9,800.0	9,600.1	11,507.3	9,204.3	37.5	44.6	-90.13	27.6	1,397.7	465.4	413.9	51.48	9.041		
9,900.0	9,700.1	11,506.1	9,204.3	37.5	44.6	-89.81	28.8	1,397.7	556.4	507.0	49.33	11.278		
10,000.0	9,800.1	11,505.0	9,204.3	37.5	44.6	-89.50	29.9	1,397.7	650.0	601.9	48.15	13.501		
10,100.0	9,900.1	11,503.8	9,204.3	37.6	44.6	-89.20	31.0	1,397.7	745.3	697.8	47.50	15.689		
10,200.0	10,000.1	11,502.7	9,204.3	37.6	44.6	-88.91	32.1	1,397.6	841.7	794.5	47.18	17.839		
10,300.0	10,100.1	11,501.7	9,204.3	37.6	44.6	-88.62	33.2	1,397.6	938.8	891.7	47.06	19.949		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - BUCK 20 FEDERAL #6H (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 200-GYD-CT-CMS, 1011-MWD - OWSG R1												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
8,200.0	8,001.9	11,213.4	8,823.4	33.8	52.9	-4.14	69.0	2,084.7	964.9	910.0		54.90	17.574
8,300.0	8,101.4	11,216.1	8,823.5	34.2	52.9	-3.74	66.3	2,084.8	878.0	820.4		57.59	15.244
8,400.0	8,201.1	11,218.7	8,823.5	34.6	53.0	-3.37	63.7	2,084.9	794.6	733.7		60.93	13.041
8,500.0	8,300.8	11,221.3	8,823.6	34.9	53.0	-3.02	61.2	2,085.0	716.1	651.1		65.04	11.010
8,600.0	8,400.5	11,223.9	8,823.6	35.3	53.1	-2.68	58.6	2,085.1	644.3	574.3		70.00	9.204
8,700.0	8,500.4	11,226.4	8,823.7	35.7	53.1	-2.36	56.1	2,085.2	581.5	505.8		75.70	7.681
8,800.0	8,600.2	11,228.8	8,823.7	36.0	53.1	-2.07	53.7	2,085.3	531.0	449.3		81.70	6.499
8,900.0	8,700.2	11,231.0	8,823.8	36.3	53.2	-1.79	51.4	2,085.4	496.6	409.6		87.05	5.705
9,000.0	8,800.1	11,233.2	8,823.8	36.6	53.2	-1.53	49.3	2,085.5	481.8	391.4		90.45	5.327
9,019.5	8,819.6	11,233.6	8,823.8	36.7	53.2	-1.48	48.8	2,085.5	481.4	390.6		90.79	5.302 CC, ES, SF
9,100.0	8,900.1	11,235.2	8,823.9	36.9	53.2	-1.29	47.2	2,085.6	488.4	397.4		90.99	5.367
9,200.0	9,000.1	11,237.2	8,823.9	37.2	53.2	-1.06	45.2	2,085.7	515.4	426.6		88.81	5.804
9,300.0	9,100.1	11,239.1	8,824.0	37.4	53.3	-0.84	43.4	2,085.8	560.1	475.1		84.93	6.594
9,324.5	9,124.6	11,239.5	8,824.0	37.4	53.3	88.22	42.9	2,085.8	573.3	489.4		83.84	6.837
9,400.0	9,200.1	11,240.9	8,824.0	37.4	53.3	88.38	41.6	2,085.9	618.3	537.9		80.39	7.691
9,500.0	9,300.1	11,242.6	8,824.0	37.4	53.3	88.58	39.9	2,085.9	686.2	610.2		76.02	9.027
9,600.0	9,400.1	11,244.2	8,824.0	37.4	53.4	88.78	38.2	2,086.0	761.2	689.1		72.14	10.552
9,700.0	9,500.1	11,245.9	8,824.1	37.5	53.4	88.98	36.6	2,086.1	841.5	772.6		68.85	12.221
9,800.0	9,600.1	11,247.4	8,824.1	37.5	53.4	89.16	35.1	2,086.2	925.6	859.5		66.11	14.000

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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	2.1	2.1	3.0	3.0	-91.15	-11.9	-595.0	595.2	588.3	6.89	86.350	
100.0	100.0	102.1	102.1	3.1	3.1	-91.15	-11.9	-595.0	595.2	588.0	7.15	83.288	
200.0	200.0	202.1	202.1	3.2	3.5	-91.15	-11.9	-595.0	595.2	587.5	7.62	78.075	
300.0	300.0	302.1	302.1	3.4	4.1	-91.15	-11.9	-595.0	595.2	586.8	8.32	71.532	
400.0	400.0	402.1	402.1	3.5	5.4	-91.15	-11.9	-595.0	595.2	585.2	9.97	59.698	
446.7	446.7	448.8	448.8	3.6	6.2	-91.13	-11.8	-595.0	595.2	584.3	10.86	54.782	
500.0	500.0	502.1	502.1	3.6	7.0	-91.14	-11.8	-595.0	595.2	583.2	11.95	49.798	
600.0	600.0	602.1	602.1	3.7	8.7	-91.15	-11.9	-595.0	595.2	581.0	14.13	42.116	
700.0	700.0	702.1	702.1	3.9	10.5	-91.15	-11.9	-595.0	595.2	578.6	16.57	35.923	
734.5	734.5	736.6	736.6	3.9	11.2	-91.12	-11.6	-595.0	595.2	577.7	17.43	34.153	
800.0	800.0	802.1	802.1	4.0	12.4	-91.13	-11.7	-595.0	595.2	576.1	19.08	31.197	
900.0	900.0	902.1	902.1	4.1	14.3	-91.15	-11.9	-595.0	595.2	573.5	21.71	27.417	
1,000.0	1,000.0	1,002.1	1,002.1	4.2	16.4	-91.15	-11.9	-595.0	595.2	570.6	24.57	24.226	
1,032.5	1,032.5	1,034.6	1,034.5	4.3	17.1	-91.09	-11.3	-595.0	595.2	569.7	25.50	23.338	
1,100.0	1,100.0	1,102.1	1,102.0	4.3	18.5	-91.11	-11.5	-595.0	595.2	567.7	27.45	21.680	
1,200.0	1,200.0	1,202.2	1,202.1	4.5	20.7	-91.15	-11.9	-595.0	595.2	564.9	30.30	19.643	
1,300.0	1,300.0	1,302.2	1,302.1	4.6	22.9	-91.15	-11.9	-595.0	595.2	561.8	33.39	17.827	
1,400.0	1,400.0	1,402.2	1,402.1	4.7	25.2	-91.15	-11.9	-595.0	595.2	558.7	36.48	16.313	
1,440.0	1,440.0	1,442.2	1,442.1	4.7	26.1	-91.02	-10.6	-595.0	595.1	557.4	37.73	15.775 CC	
1,500.0	1,500.0	1,502.2	1,502.1	4.8	27.4	-91.04	-10.8	-595.0	595.1	555.6	39.59	15.032	
1,600.0	1,600.0	1,602.1	1,602.0	4.9	29.7	179.90	-11.4	-595.0	596.9	554.4	42.52	14.037 ES	
1,700.0	1,699.8	1,702.1	1,701.9	5.1	32.1	179.85	-11.9	-595.0	602.1	556.2	45.94	13.107	
1,800.0	1,799.5	1,801.7	1,801.5	5.3	34.8	179.90	-11.4	-595.0	610.9	561.1	49.70	12.290	
1,900.0	1,898.7	1,901.1	1,900.8	5.6	37.5	179.86	-11.9	-595.0	623.0	569.5	53.59	11.626	
2,000.0	1,997.5	1,999.8	1,999.4	5.9	40.5	179.91	-11.4	-595.0	638.7	580.9	57.76	11.057	
2,100.0	2,095.6	2,098.2	2,097.7	6.3	43.5	179.86	-11.9	-595.0	657.8	595.8	61.98	10.612	
2,200.0	2,193.1	2,195.6	2,195.1	6.6	46.5	179.97	-10.7	-595.0	680.2	614.0	66.20	10.276	
2,300.0	2,289.6	2,292.1	2,291.6	7.0	49.5	179.90	-11.5	-595.0	706.1	635.8	70.38	10.033	
2,400.0	2,385.8	2,388.5	2,387.9	7.3	52.5	179.87	-11.9	-595.0	733.7	659.1	74.61	9.834	
2,500.0	2,481.9	2,484.7	2,484.0	7.7	55.5	179.88	-11.9	-595.0	761.3	682.4	78.85	9.655	
2,600.0	2,578.0	2,580.8	2,580.0	8.0	58.6	-179.92	-9.4	-595.0	788.8	705.7	83.09	9.493	
2,700.0	2,674.1	2,676.9	2,676.1	8.4	61.6	-179.97	-10.0	-595.0	816.4	729.0	87.33	9.348	
2,800.0	2,770.3	2,773.1	2,772.2	8.8	64.6	179.92	-11.5	-595.0	844.0	752.4	91.58	9.215	
2,900.0	2,866.4	2,869.5	2,868.5	9.2	67.7	179.89	-11.9	-595.0	871.5	775.6	95.89	9.089	
3,000.0	2,962.5	2,965.7	2,964.6	9.6	70.7	179.99	-10.5	-595.0	899.1	798.9	100.19	8.974	
3,100.0	3,058.7	3,061.7	3,060.6	10.1	73.8	179.95	-11.1	-595.0	926.6	822.2	104.49	8.869	
3,200.0	3,154.8	3,158.2	3,156.9	10.5	77.0	179.90	-11.9	-595.0	954.2	845.2	108.99	8.755	
3,300.0	3,250.9	3,254.3	3,253.0	10.9	80.4	179.99	-10.6	-595.0	981.8	868.0	113.77	8.630 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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	9.0	9.0	3.0	3.0	105.22	-200.0	734.9	761.7	754.7	6.98	109.089	
100.0	100.0	109.0	109.0	3.1	3.2	105.22	-200.0	734.9	761.7	754.6	7.11	107.137	
200.0	200.0	209.0	209.0	3.2	3.6	105.22	-200.0	734.9	761.7	754.0	7.63	99.794	
300.0	300.0	309.0	309.0	3.4	4.1	105.22	-200.0	734.9	761.7	753.3	8.34	91.274	
400.0	400.0	409.0	409.0	3.5	4.8	105.22	-200.0	734.9	761.7	752.5	9.20	82.809	
500.0	500.0	509.0	509.0	3.6	5.7	105.22	-200.0	734.9	761.7	751.4	10.24	74.378	
600.0	600.0	609.0	609.0	3.7	7.3	105.22	-200.0	734.9	761.7	749.3	12.36	61.633	
700.0	700.0	709.0	709.0	3.9	9.1	105.22	-200.0	734.9	761.7	747.0	14.66	51.944	
741.4	741.4	750.4	750.4	3.9	9.9	105.18	-199.5	734.9	761.5	745.9	15.65	48.654	
800.0	800.0	808.8	808.8	4.0	10.9	105.19	-199.5	734.9	761.5	744.5	17.07	44.611	
900.0	900.0	908.5	908.5	4.1	12.7	105.20	-199.7	734.9	761.6	742.0	19.54	38.975	
1,000.0	1,000.0	1,009.0	1,009.0	4.2	14.6	105.22	-200.0	734.9	761.7	739.7	22.00	34.616	
1,100.0	1,100.0	1,109.0	1,109.0	4.3	16.8	105.22	-200.0	734.9	761.7	736.8	24.91	30.576	
1,200.0	1,200.0	1,209.0	1,209.0	4.5	18.9	105.22	-200.0	734.9	761.7	733.8	27.84	27.355	
1,241.4	1,241.4	1,250.5	1,250.4	4.5	19.8	105.16	-199.2	734.9	761.5	732.4	29.07	26.198	
1,300.0	1,300.0	1,308.7	1,308.7	4.6	21.0	105.17	-199.2	734.9	761.5	730.7	30.79	24.732	
1,400.0	1,400.0	1,408.2	1,408.2	4.7	23.2	105.19	-199.5	734.9	761.5	727.8	33.74	22.571	
1,500.0	1,500.0	1,509.1	1,509.0	4.8	25.4	105.22	-200.0	734.9	761.7	724.9	36.80	20.699	
1,600.0	1,600.0	1,609.1	1,609.0	4.9	28.0	16.27	-200.0	734.9	760.0	719.8	40.20	18.906	
1,700.0	1,699.8	1,707.9	1,707.7	5.1	30.6	16.35	-199.2	734.9	754.8	711.0	43.79	17.237	
1,800.0	1,799.5	1,808.7	1,808.5	5.3	33.2	16.65	-200.0	734.9	746.6	699.1	47.47	15.727	
1,900.0	1,898.7	1,908.0	1,907.7	5.6	35.8	16.99	-200.0	734.9	734.9	683.8	51.18	14.361	
2,000.0	1,997.5	2,006.7	2,006.4	5.9	38.5	17.29	-198.1	734.9	719.5	664.6	54.87	13.112	
2,100.0	2,095.6	2,103.4	2,103.0	6.3	41.0	17.89	-198.5	734.9	701.4	642.9	58.49	11.991	
2,200.0	2,193.1	2,199.3	2,199.0	6.6	43.6	18.70	-199.7	734.9	680.3	618.2	62.09	10.956	
2,300.0	2,289.6	2,299.1	2,298.6	7.0	46.1	19.64	-200.0	734.9	655.8	590.2	65.66	9.989	
2,400.0	2,385.8	2,394.4	2,393.9	7.3	48.5	20.40	-199.3	734.9	629.6	560.6	69.01	9.124	
2,500.0	2,481.9	2,491.5	2,490.9	7.7	51.0	21.39	-200.0	734.9	604.0	531.5	72.49	8.332	
2,600.0	2,578.0	2,587.6	2,587.0	8.0	53.8	22.38	-200.0	734.9	578.3	501.8	76.41	7.568	
2,700.0	2,674.1	2,681.5	2,681.0	8.4	56.5	23.41	-199.8	734.9	552.6	472.4	80.24	6.887	
2,800.0	2,770.3	2,780.0	2,779.3	8.8	59.5	24.64	-200.0	734.9	527.4	442.9	84.51	6.241	
2,900.0	2,866.4	2,872.9	2,872.2	9.2	62.5	25.85	-199.5	734.9	502.1	413.5	88.59	5.667	
3,000.0	2,962.5	2,972.4	2,971.5	9.6	65.4	27.38	-200.0	734.9	477.5	384.8	92.67	5.152	
3,100.0	3,058.7	3,068.5	3,067.7	10.1	68.1	28.97	-200.0	734.9	453.0	356.5	96.50	4.694	
3,200.0	3,154.8	3,164.4	3,163.5	10.5	70.8	30.47	-197.8	734.9	427.8	327.4	100.33	4.264	
3,300.0	3,250.9	3,259.3	3,258.4	10.9	73.5	32.46	-198.2	734.9	404.2	300.1	104.11	3.883	
3,400.0	3,347.0	3,354.1	3,353.2	11.4	76.2	34.75	-199.3	734.9	381.6	273.7	107.88	3.537	
3,500.0	3,443.2	3,453.3	3,452.2	11.8	79.4	37.40	-200.0	734.9	359.4	247.1	112.32	3.200	
3,600.0	3,539.3	3,549.4	3,548.3	12.3	82.7	40.19	-200.0	734.9	337.6	220.5	117.03	2.884	
3,700.0	3,635.4	3,644.8	3,643.6	12.7	86.1	43.13	-198.6	734.9	315.7	194.0	121.70	2.594	
3,800.0	3,731.5	3,739.5	3,738.3	13.2	89.4	46.75	-199.3	734.9	296.3	170.0	126.32	2.346	
3,900.0	3,827.7	3,838.2	3,836.7	13.6	93.5	50.99	-200.0	734.9	278.3	146.3	131.99	2.108	
4,000.0	3,923.8	3,934.3	3,932.8	14.1	98.3	55.56	-200.0	734.9	261.4	122.8	138.59	1.886 Advise and Monitor	
4,100.0	4,019.9	4,029.2	4,027.6	14.6	103.0	60.29	-197.2	734.9	244.0	98.9	145.09	1.681 Advise and Monitor	
4,200.0	4,116.0	4,122.6	4,120.8	15.0	107.6	65.99	-198.4	734.9	232.3	80.9	151.47	1.534 Advise and Monitor	
4,300.0	4,212.2	4,223.7	4,221.2	15.5	112.8	72.67	-200.0	734.9	223.7	65.1	158.67	1.410 Advise and Monitor	
4,400.0	4,308.3	4,316.6	4,313.9	16.0	117.8	79.04	-198.4	734.9	215.2	49.6	165.61	1.300 Advise and Monitor	
4,466.8	4,372.5	4,378.0	4,374.8	16.3	121.1	83.55	-200.0	734.9	214.2	44.0	170.16	1.259 Advise and Monitor, CC, ES, SF	
4,500.0	4,404.4	4,378.0	4,374.8	16.4	121.1	83.55	-200.0	734.9	216.7	49.1	167.60	1.293 Advise and Monitor	
4,600.0	4,500.5	4,378.0	4,374.8	16.9	121.1	83.55	-200.0	734.9	252.2	107.7	144.54	1.745 Advise and Monitor	
4,700.0	4,596.7	4,378.0	4,374.8	17.4	121.1	83.55	-200.0	734.9	316.6	198.8	117.84	2.687	
4,800.0	4,692.8	4,378.0	4,374.8	17.9	121.1	83.55	-200.0	734.9	396.1	298.1	98.06	4.040	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	
4,900.0	4,788.9	4,378.0	4,374.8	18.4	121.1	83.55	-200.0	734.9	483.3	398.5	84.78	5.700		
5,000.0	4,885.0	4,378.0	4,374.8	18.8	121.1	83.55	-200.0	734.9	574.6	498.7	75.91	7.570		
5,100.0	4,981.2	4,378.0	4,374.8	19.3	121.1	83.55	-200.0	734.9	668.5	598.6	69.85	9.570		
5,200.0	5,077.3	4,378.0	4,374.8	19.8	121.1	83.55	-200.0	734.9	763.9	698.2	65.63	11.640		
5,300.0	5,173.4	4,378.0	4,374.8	20.3	121.1	83.55	-200.0	734.9	860.3	797.7	62.60	13.743		
5,400.0	5,269.6	4,378.0	4,374.8	20.8	121.1	83.55	-200.0	734.9	957.5	897.1	60.39	15.856		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 1280-r.5 MWD+IFR1, 11439-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference												Rule Assigned:	
Measured Depth		Vertical Depth		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)
Warning													
5,600.0	5,461.8	5,493.9	5,473.7	21.8	15.4	-16.01	296.3	1,965.7	985.4	949.4	36.05	27.338	
5,700.0	5,557.9	5,590.0	5,569.8	22.3	15.4	-16.46	296.3	1,965.7	958.9	922.3	36.60	26.199	
5,800.0	5,654.1	5,686.2	5,666.0	22.7	15.5	-16.94	296.3	1,965.7	932.4	895.3	37.15	25.097	
5,900.0	5,750.2	5,782.3	5,762.1	23.2	15.5	-17.45	296.3	1,965.7	906.0	868.3	37.70	24.031	
6,000.0	5,846.3	5,878.4	5,858.2	23.7	15.6	-17.98	296.3	1,965.7	879.6	841.4	38.25	22.999	
6,100.0	5,942.4	5,974.5	5,954.3	24.2	15.6	-18.55	296.3	1,965.7	853.4	814.6	38.79	22.001	
6,124.5	5,966.0	5,998.1	5,977.9	24.3	15.6	-18.70	296.3	1,965.7	846.9	808.0	38.91	21.765	
6,200.0	6,038.6	6,070.7	6,050.5	24.7	15.7	-19.12	296.3	1,965.7	827.4	788.1	39.31	21.048	
6,300.0	6,135.1	6,167.2	6,147.0	25.2	15.7	-19.69	296.3	1,965.7	802.3	762.5	39.84	20.139	
6,400.0	6,231.7	6,263.8	6,243.6	25.7	15.8	-20.28	296.3	1,965.7	778.1	737.7	40.36	19.280	
6,500.0	6,328.6	6,360.7	6,340.5	26.2	15.8	-20.89	296.3	1,965.7	754.8	713.9	40.87	18.469	
6,600.0	6,425.7	6,457.8	6,437.6	26.6	15.9	-21.51	296.3	1,965.7	732.3	691.0	41.37	17.703	
6,700.0	6,522.9	6,555.0	6,534.8	27.1	15.9	-22.15	296.3	1,965.7	710.8	668.9	41.86	16.981	
6,800.0	6,620.4	6,652.5	6,632.3	27.6	16.0	-22.81	296.3	1,965.7	690.1	647.8	42.34	16.301	
6,900.0	6,718.1	6,750.2	6,730.0	28.1	16.1	-23.47	296.3	1,965.7	670.3	627.5	42.80	15.661	
7,000.0	6,816.0	6,848.1	6,827.9	28.5	16.1	-24.15	296.3	1,965.7	651.5	608.2	43.26	15.060	
7,100.0	6,914.0	6,946.1	6,925.9	29.0	16.2	-24.84	296.3	1,965.7	633.4	589.7	43.70	14.496	
7,200.0	7,012.2	7,044.3	7,024.1	29.5	16.2	-25.54	296.3	1,965.7	616.3	572.2	44.13	13.968	
7,300.0	7,110.6	7,142.7	7,122.5	29.9	16.3	-26.24	296.3	1,965.7	600.1	555.5	44.54	13.473	
7,400.0	7,209.1	7,241.2	7,221.0	30.4	16.3	-26.95	296.3	1,965.7	584.7	539.8	44.94	13.011	
7,500.0	7,307.8	7,339.9	7,319.7	30.8	16.4	-27.65	296.3	1,965.7	570.2	524.9	45.33	12.580	
7,600.0	7,406.6	7,438.7	7,418.5	31.3	16.5	-28.35	296.3	1,965.7	556.5	510.8	45.70	12.178	
7,700.0	7,505.5	7,537.6	7,517.4	31.7	16.5	-29.05	296.3	1,965.7	543.7	497.7	46.06	11.805	
7,800.0	7,604.6	7,636.6	7,616.5	32.1	16.6	-29.74	296.3	1,965.7	531.8	485.4	46.41	11.459	
7,900.0	7,703.7	7,735.8	7,715.6	32.6	16.6	-30.41	296.3	1,965.7	520.6	473.9	46.74	11.139	
8,000.0	7,803.0	7,835.1	7,814.9	33.0	16.7	-31.06	296.3	1,965.7	510.3	463.3	47.07	10.843	
8,100.0	7,902.4	7,934.5	7,914.3	33.4	16.8	-31.69	296.3	1,965.7	500.8	453.5	47.38	10.571	
8,200.0	8,001.9	8,034.0	8,013.8	33.8	16.8	-32.29	296.3	1,965.7	492.1	444.5	47.69	10.321	
8,300.0	8,101.4	8,133.5	8,113.3	34.2	16.9	-32.86	296.3	1,965.7	484.2	436.3	47.99	10.092	
8,400.0	8,201.1	8,233.2	8,213.0	34.6	16.9	-33.39	296.3	1,965.7	477.1	428.8	48.28	9.883	
8,500.0	8,300.8	8,332.9	8,312.7	34.9	17.0	-33.88	296.3	1,965.7	470.8	422.2	48.57	9.693	
8,600.0	8,400.5	8,432.6	8,412.4	35.3	17.1	-34.33	296.3	1,965.7	465.2	416.3	48.85	9.522	
8,700.0	8,500.4	8,532.5	8,512.3	35.7	17.1	-34.73	296.3	1,965.7	460.3	411.2	49.14	9.368	
8,800.0	8,600.2	8,632.3	8,612.1	36.0	17.2	-35.08	296.3	1,965.7	456.2	406.8	49.42	9.231	
8,900.0	8,700.2	8,732.3	8,712.1	36.3	17.2	-35.37	296.3	1,965.7	452.8	403.1	49.71	9.110	
9,000.0	8,800.1	8,832.2	8,812.0	36.6	17.3	-35.60	296.3	1,965.7	450.2	400.2	49.99	9.005	
9,100.0	8,900.1	8,932.2	8,912.0	36.9	17.4	-35.77	296.3	1,965.7	448.2	398.0	50.27	8.917	
9,200.0	9,000.1	9,032.2	9,012.0	37.2	17.4	-35.88	296.3	1,965.7	447.0	396.5	50.54	8.844	
9,300.0	9,100.1	9,132.2	9,112.0	37.4	17.5	-35.93	296.3	1,965.7	446.5	395.7	50.78	8.792	
9,324.5	9,124.6	9,156.7	9,136.5	37.4	17.5	53.07	296.3	1,965.7	446.4	395.6	50.81	8.786	
9,400.0	9,200.1	9,232.2	9,212.0	37.4	17.5	53.07	296.3	1,965.7	446.4	395.6	50.86	8.777	
9,500.0	9,300.1	9,332.2	9,312.0	37.4	17.6	53.07	296.3	1,965.7	446.4	395.5	50.94	8.764	
9,600.0	9,400.1	9,432.2	9,412.0	37.4	17.7	53.07	296.3	1,965.7	446.4	395.4	51.01	8.752	
9,700.0	9,500.1	9,532.2	9,512.0	37.5	17.7	53.07	296.3	1,965.7	446.4	395.4	51.09	8.739	
9,800.0	9,600.1	9,632.2	9,612.0	37.5	17.8	53.07	296.3	1,965.7	446.4	395.3	51.16	8.726	
9,900.0	9,700.1	9,732.2	9,712.0	37.5	17.9	53.07	296.3	1,965.7	446.4	395.2	51.24	8.713	
10,000.0	9,800.1	9,832.2	9,812.0	37.5	17.9	53.07	296.3	1,965.7	446.4	395.1	51.31	8.700	
10,100.0	9,900.1	9,932.2	9,912.0	37.6	18.0	53.07	296.3	1,965.7	446.4	395.1	51.39	8.687	
10,200.0	10,000.1	10,032.2	10,012.0	37.6	18.0	53.07	296.3	1,965.7	446.4	395.0	51.47	8.674	
10,300.0	10,100.1	10,132.2	10,112.0	37.6	18.1	53.07	296.3	1,965.7	446.4	394.9	51.55	8.661	
10,400.0	10,200.1	10,232.2	10,212.0	37.6	18.2	53.07	296.3	1,965.7	446.4	394.8	51.62	8.648	
10,500.0	10,300.1	10,332.2	10,312.0	37.6	18.2	53.07	296.3	1,965.7	446.4	394.7	51.70	8.635	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #101H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 1280-r.5 MWD+IFR1, 11439-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	
10,600.0	10,400.1	10,432.2	10,412.0	37.7	18.3	53.07	296.3	1,965.7	446.4	394.7	51.78	8.622	
10,700.0	10,500.1	10,532.2	10,512.0	37.7	18.4	53.07	296.3	1,965.7	446.4	394.6	51.86	8.609	
10,800.0	10,600.1	10,632.2	10,612.0	37.7	18.4	53.07	296.3	1,965.7	446.4	394.5	51.94	8.596	
10,900.0	10,700.1	10,732.2	10,712.0	37.7	18.5	53.07	296.3	1,965.7	446.4	394.4	52.02	8.582	
11,000.0	10,800.1	10,832.2	10,812.0	37.7	18.6	53.07	296.3	1,965.7	446.4	394.3	52.10	8.569	
11,100.0	10,900.1	10,932.2	10,912.0	37.8	18.6	53.07	296.3	1,965.7	446.4	394.3	52.18	8.556	
11,200.0	11,000.1	11,032.2	11,012.0	37.8	18.7	53.07	296.3	1,965.7	446.4	394.2	52.26	8.543	
11,300.0	11,100.1	11,132.2	11,112.0	37.8	18.7	53.07	296.3	1,965.7	446.4	394.1	52.34	8.530	
11,400.0	11,200.1	11,232.2	11,212.0	37.8	18.8	53.07	296.3	1,965.7	446.4	394.0	52.42	8.516	
11,461.5	11,261.5	11,293.6	11,273.4	37.8	18.8	53.07	296.3	1,965.7	446.4	394.0	52.46	8.509 CC, ES, SF	
11,475.0	11,275.1	11,307.2	11,287.0	37.8	18.9	-126.57	296.3	1,965.7	446.6	394.2	52.34	8.531	
11,500.0	11,300.0	11,332.1	11,311.9	37.9	18.9	-126.63	296.3	1,965.7	447.4	395.1	52.31	8.552	
11,525.0	11,324.9	11,357.0	11,336.8	37.9	18.9	-126.75	296.3	1,965.7	449.0	396.7	52.24	8.595	
11,550.0	11,349.6	11,381.6	11,361.5	37.9	18.9	-126.92	296.3	1,965.7	451.4	399.2	52.12	8.660	
11,575.0	11,374.0	11,406.1	11,385.9	37.9	18.9	-127.13	296.3	1,965.7	454.6	402.6	51.96	8.748	
11,600.0	11,398.1	11,430.2	11,410.0	37.9	18.9	-127.38	296.3	1,965.7	458.6	406.8	51.76	8.860	
11,625.0	11,421.9	11,450.0	11,429.8	37.9	18.9	-127.52	296.5	1,965.7	463.6	412.0	51.58	8.988	
11,650.0	11,445.2	11,462.3	11,442.1	37.9	18.9	-127.40	296.9	1,965.7	469.9	418.4	51.47	9.130	
11,675.0	11,468.0	11,475.0	11,454.8	37.9	18.9	-127.23	297.7	1,965.7	477.5	426.2	51.29	9.310	
11,700.0	11,490.3	11,488.4	11,468.1	37.9	18.9	-127.04	298.9	1,965.7	486.4	435.4	51.04	9.529	
11,725.0	11,511.9	11,500.0	11,479.6	37.9	18.9	-126.67	300.3	1,965.7	496.6	445.9	50.78	9.780	
11,750.0	11,532.8	11,510.9	11,490.5	37.9	18.9	-126.16	301.8	1,965.6	508.2	457.7	50.49	10.065	
11,775.0	11,553.0	11,525.0	11,504.3	37.9	18.9	-125.78	304.1	1,965.6	520.9	470.8	50.10	10.398	
11,800.0	11,572.4	11,525.0	11,504.3	37.9	18.9	-124.12	304.1	1,965.6	534.9	485.0	49.94	10.710	
11,825.0	11,590.9	11,537.8	11,516.9	37.9	18.9	-123.36	306.6	1,965.6	550.0	500.4	49.53	11.104	
11,850.0	11,608.6	11,550.0	11,528.8	37.9	18.9	-122.40	309.2	1,965.6	566.1	517.0	49.10	11.530	
11,875.0	11,625.3	11,550.0	11,528.8	37.9	18.9	-120.00	309.2	1,965.6	583.2	534.3	48.88	11.931	
11,900.0	11,641.0	11,556.4	11,535.1	37.9	18.9	-117.98	310.8	1,965.6	601.2	552.7	48.54	12.387	
11,925.0	11,655.6	11,560.9	11,539.4	37.9	18.9	-115.44	311.9	1,965.6	620.1	571.8	48.22	12.860	
11,950.0	11,669.2	11,564.6	11,543.0	37.9	18.9	-112.47	312.8	1,965.6	639.6	591.7	47.90	13.352	
11,975.0	11,681.6	11,567.6	11,545.8	37.9	18.9	-109.04	313.6	1,965.6	659.8	612.2	47.60	13.861	
12,000.0	11,692.9	11,575.0	11,553.0	37.9	18.9	-105.87	315.7	1,965.6	680.5	633.3	47.22	14.411	
12,025.0	11,703.0	11,575.0	11,553.0	37.9	18.9	-101.26	315.7	1,965.6	701.7	654.7	46.96	14.941	
12,050.0	11,712.0	11,575.0	11,553.0	38.0	18.9	-96.25	315.7	1,965.6	723.2	676.5	46.70	15.485	
12,075.0	11,719.6	11,575.0	11,553.0	38.0	18.9	-90.92	315.7	1,965.6	745.0	698.5	46.44	16.042	
12,100.0	11,726.0	11,575.0	11,553.0	38.0	18.9	-85.37	315.7	1,965.6	767.0	720.8	46.18	16.610	
12,125.0	11,731.2	11,575.0	11,553.0	38.0	18.9	-79.71	315.7	1,965.6	789.1	743.2	45.91	17.186	
12,150.0	11,735.0	11,575.0	11,553.0	38.0	18.9	-74.07	315.7	1,965.6	811.3	765.6	45.65	17.771	
12,175.0	11,737.6	11,575.0	11,553.0	38.0	18.9	-68.60	315.7	1,965.6	833.5	788.1	45.39	18.361	
12,200.0	11,738.9	11,566.7	11,545.0	38.1	18.9	-62.37	313.4	1,965.6	855.5	810.3	45.24	18.911	
12,211.5	11,739.0	11,565.6	11,543.9	38.1	18.9	-60.01	313.1	1,965.6	865.6	820.5	45.13	19.179	
12,300.0	11,739.0	11,550.0	11,528.8	38.2	18.9	-58.23	309.2	1,965.6	944.3	899.8	44.49	21.223	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2												Offset Site Error:	0.0 usft
Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 1294-r.5 MWD+IFR1, 11266-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,300.0	7,110.6	7,129.0	7,121.7	29.9	12.9	-15.88	310.4	2,385.5	996.8	952.1	44.66	22.319	
7,400.0	7,209.1	7,227.5	7,220.2	30.4	13.0	-16.13	310.4	2,385.5	980.3	935.0	45.25	21.663	
7,500.0	7,307.8	7,326.2	7,318.9	30.8	13.1	-16.37	310.4	2,385.5	964.6	918.8	45.83	21.046	
7,600.0	7,406.6	7,425.0	7,417.7	31.3	13.2	-16.61	310.4	2,385.5	949.8	903.4	46.41	20.466	
7,700.0	7,505.5	7,523.9	7,516.6	31.7	13.2	-16.85	310.4	2,385.5	935.9	888.9	46.98	19.922	
7,800.0	7,604.6	7,623.0	7,615.7	32.1	13.3	-17.07	310.4	2,385.5	922.8	875.2	47.54	19.412	
7,900.0	7,703.7	7,722.2	7,714.8	32.6	13.4	-17.29	310.4	2,385.5	910.5	862.4	48.09	18.935	
8,000.0	7,803.0	7,821.4	7,814.1	33.0	13.5	-17.50	310.4	2,385.5	899.1	850.4	48.63	18.489	
8,100.0	7,902.4	7,920.8	7,913.5	33.4	13.6	-17.70	310.4	2,385.5	888.5	839.3	49.16	18.074	
8,200.0	8,001.9	8,020.3	8,013.0	33.8	13.7	-17.89	310.4	2,385.5	878.7	829.0	49.68	17.688	
8,300.0	8,101.4	8,119.9	8,112.5	34.2	13.7	-18.06	310.4	2,385.5	869.8	819.6	50.19	17.331	
8,400.0	8,201.1	8,219.5	8,212.2	34.6	13.8	-18.23	310.4	2,385.5	861.7	811.1	50.69	17.000	
8,500.0	8,300.8	8,319.2	8,311.9	34.9	13.9	-18.38	310.4	2,385.5	854.5	803.3	51.18	16.696	
8,600.0	8,400.5	8,419.0	8,411.6	35.3	14.0	-18.51	310.4	2,385.5	848.1	796.4	51.66	16.418	
8,700.0	8,500.4	8,518.8	8,511.5	35.7	14.1	-18.63	310.4	2,385.5	842.5	790.4	52.12	16.165	
8,800.0	8,600.2	8,618.7	8,611.3	36.0	14.2	-18.73	310.4	2,385.5	837.8	785.2	52.57	15.936	
8,900.0	8,700.2	8,718.6	8,711.3	36.3	14.2	-18.81	310.4	2,385.5	833.8	780.8	53.00	15.732	
9,000.0	8,800.1	8,818.5	8,811.2	36.6	14.3	-18.88	310.4	2,385.5	830.8	777.3	53.42	15.552	
9,100.0	8,900.1	8,918.5	8,911.2	36.9	14.4	-18.93	310.4	2,385.5	828.5	774.7	53.81	15.397	
9,200.0	9,000.1	9,018.5	9,011.2	37.2	14.5	-18.96	310.4	2,385.5	827.0	772.9	54.17	15.269	
9,300.0	9,100.1	9,118.5	9,111.2	37.4	14.6	-18.98	310.4	2,385.5	826.4	772.0	54.46	15.174	
9,324.5	9,124.6	9,143.0	9,135.7	37.4	14.6	70.02	310.4	2,385.5	826.4	771.9	54.50	15.164	
9,400.0	9,200.1	9,218.5	9,211.2	37.4	14.7	70.02	310.4	2,385.5	826.4	771.9	54.55	15.150	
9,500.0	9,300.1	9,318.5	9,311.2	37.4	14.8	70.02	310.4	2,385.5	826.4	771.8	54.62	15.130	
9,600.0	9,400.1	9,418.5	9,411.2	37.4	14.8	70.02	310.4	2,385.5	826.4	771.7	54.69	15.110	
9,700.0	9,500.1	9,518.5	9,511.2	37.5	14.9	70.02	310.4	2,385.5	826.4	771.6	54.76	15.090	
9,800.0	9,600.1	9,618.5	9,611.2	37.5	15.0	70.02	310.4	2,385.5	826.4	771.6	54.84	15.070	
9,900.0	9,700.1	9,718.5	9,711.2	37.5	15.1	70.02	310.4	2,385.5	826.4	771.5	54.91	15.050	
10,000.0	9,800.1	9,818.5	9,811.2	37.5	15.2	70.02	310.4	2,385.5	826.4	771.4	54.98	15.030	
10,100.0	9,900.1	9,918.5	9,911.2	37.6	15.3	70.02	310.4	2,385.5	826.4	771.3	55.06	15.010	
10,200.0	10,000.1	10,018.5	10,011.2	37.6	15.3	70.02	310.4	2,385.5	826.4	771.3	55.13	14.989	
10,300.0	10,100.1	10,118.5	10,111.2	37.6	15.4	70.02	310.4	2,385.5	826.4	771.2	55.21	14.969	
10,400.0	10,200.1	10,218.5	10,211.2	37.6	15.5	70.02	310.4	2,385.5	826.4	771.1	55.28	14.948	
10,500.0	10,300.1	10,318.5	10,311.2	37.6	15.6	70.02	310.4	2,385.5	826.4	771.0	55.36	14.928	
10,600.0	10,400.1	10,418.5	10,411.2	37.7	15.7	70.02	310.4	2,385.5	826.4	771.0	55.44	14.908	
10,700.0	10,500.1	10,518.5	10,511.2	37.7	15.8	70.02	310.4	2,385.5	826.4	770.9	55.51	14.887	
10,800.0	10,600.1	10,618.5	10,611.2	37.7	15.8	70.02	310.4	2,385.5	826.4	770.8	55.59	14.866	
10,900.0	10,700.1	10,718.5	10,711.2	37.7	15.9	70.02	310.4	2,385.5	826.4	770.7	55.67	14.846	
11,000.0	10,800.1	10,818.5	10,811.2	37.7	16.0	70.02	310.4	2,385.5	826.4	770.7	55.74	14.825	
11,100.0	10,900.1	10,918.5	10,911.2	37.8	16.1	70.02	310.4	2,385.5	826.4	770.6	55.82	14.805	
11,200.0	11,000.1	11,018.5	11,011.2	37.8	16.2	70.02	310.4	2,385.5	826.4	770.5	55.90	14.784	
11,300.0	11,100.1	11,118.5	11,111.2	37.8	16.3	70.02	310.4	2,385.5	826.4	770.4	55.98	14.763	
11,400.0	11,200.1	11,218.5	11,211.2	37.8	16.3	70.02	310.4	2,385.5	826.4	770.4	56.05	14.743	
11,403.8	11,203.9	11,222.3	11,215.0	37.8	16.3	70.02	310.4	2,385.5	826.4	770.4	56.05	14.743 CC	
11,461.5	11,261.5	11,275.0	11,267.7	37.8	16.4	70.02	310.5	2,385.5	826.5	770.3	56.13	14.725 ES, SF	
11,475.0	11,275.1	11,283.3	11,276.0	37.8	16.4	-109.61	310.7	2,385.5	826.6	770.6	56.06	14.746	
11,500.0	11,300.0	11,300.0	11,292.6	37.9	16.4	-109.63	311.6	2,385.5	827.5	771.4	56.13	14.745	
11,525.0	11,324.9	11,314.4	11,307.0	37.9	16.4	-109.63	312.9	2,385.5	829.2	773.0	56.20	14.755	
11,550.0	11,349.6	11,325.0	11,317.5	37.9	16.4	-109.54	314.1	2,385.5	831.6	775.3	56.29	14.774	
11,575.0	11,374.0	11,343.8	11,336.1	37.9	16.4	-109.60	316.8	2,385.5	834.7	778.4	56.26	14.835	
11,600.0	11,398.1	11,357.6	11,349.7	37.9	16.4	-109.53	319.2	2,385.4	838.6	782.3	56.27	14.903	
11,625.0	11,421.9	11,375.0	11,366.7	37.9	16.4	-109.57	322.8	2,385.4	843.3	787.1	56.21	15.002	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #102H - OWB - PWP2													Offset Site Error: 0.0 usft	
Survey Program: 101-r.5 SDI_KPR_WL_NS-CT, 1294-r.5 MWD+IFR1, 11266-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		
11,650.0	11,445.2	11,382.8	11,374.3	37.9	16.4	-109.22	324.7	2,385.4	848.9	792.6	56.24	15.094		
11,675.0	11,468.0	11,394.0	11,385.2	37.9	16.4	-108.94	327.5	2,385.4	855.2	799.0	56.19	15.219		
11,700.0	11,490.3	11,400.0	11,390.9	37.9	16.4	-108.34	329.1	2,385.4	862.5	806.3	56.18	15.350		
11,725.0	11,511.9	11,413.8	11,404.1	37.9	16.4	-108.04	333.2	2,385.4	870.5	814.4	56.06	15.528		
11,750.0	11,532.8	11,425.0	11,414.7	37.9	16.4	-107.54	336.7	2,385.3	879.4	823.5	55.94	15.721		
11,775.0	11,553.0	11,425.0	11,414.7	37.9	16.4	-106.32	336.7	2,385.3	889.2	833.3	55.92	15.903		
11,800.0	11,572.4	11,436.6	11,425.6	37.9	16.4	-105.64	340.6	2,385.3	899.7	844.0	55.74	16.142		
11,825.0	11,590.9	11,442.3	11,431.0	37.9	16.4	-104.51	342.7	2,385.3	911.1	855.5	55.60	16.386		
11,850.0	11,608.6	11,450.0	11,438.1	37.9	16.5	-103.39	345.5	2,385.3	923.2	867.8	55.42	16.658		
11,875.0	11,625.3	11,450.0	11,438.1	37.9	16.5	-101.63	345.5	2,385.3	936.1	880.8	55.31	16.926		
11,900.0	11,641.0	11,450.0	11,438.1	37.9	16.5	-99.73	345.5	2,385.3	949.6	894.5	55.17	17.213		
11,925.0	11,655.6	11,457.3	11,444.9	37.9	16.5	-98.21	348.3	2,385.3	963.8	908.8	54.93	17.544		
11,950.0	11,669.2	11,459.2	11,446.7	37.9	16.5	-96.17	349.1	2,385.3	978.5	923.7	54.74	17.874		
11,975.0	11,681.6	11,460.5	11,447.8	37.9	16.5	-93.97	349.6	2,385.2	993.7	939.2	54.54	18.220		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 62-GYRO-NS, 1310-r.5 MWD+IFR1+MS												Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,700.0	6,522.9	6,534.8	6,534.2	27.1	10.5	0.01	40.2	2,305.1	995.6	954.4	41.22	24.151	
6,800.0	6,620.4	6,632.8	6,632.3	27.6	10.6	0.01	40.0	2,304.9	973.2	931.3	41.86	23.250	
6,900.0	6,718.1	6,733.4	6,732.8	28.1	10.6	0.04	39.7	2,304.5	951.4	908.9	42.46	22.404	
7,000.0	6,816.0	6,836.5	6,836.0	28.5	10.6	0.07	39.2	2,303.7	930.0	887.0	43.04	21.607	
7,100.0	6,914.0	6,937.9	6,937.4	29.0	10.6	0.12	38.4	2,302.3	908.9	865.3	43.63	20.834	
7,200.0	7,012.2	7,036.9	7,036.3	29.5	10.7	0.18	37.4	2,300.7	888.5	844.2	44.23	20.086	
7,300.0	7,110.6	7,134.2	7,133.6	29.9	10.7	0.25	36.5	2,299.2	868.9	824.0	44.86	19.370	
7,400.0	7,209.1	7,231.2	7,230.6	30.4	10.7	0.33	35.3	2,297.7	850.3	804.8	45.48	18.694	
7,500.0	7,307.8	7,331.1	7,330.4	30.8	10.8	0.44	33.8	2,296.3	832.5	786.4	46.08	18.068	
7,600.0	7,406.6	7,435.7	7,435.0	31.3	10.8	0.58	32.0	2,294.3	815.2	768.6	46.61	17.490	
7,700.0	7,505.5	7,546.2	7,545.4	31.7	10.9	0.68	30.6	2,291.0	797.7	750.6	47.06	16.949	
7,800.0	7,604.6	7,660.0	7,659.1	32.1	11.0	0.67	31.0	2,285.1	778.9	731.4	47.46	16.413	
7,900.0	7,703.7	7,758.7	7,757.6	32.6	11.1	0.54	32.7	2,279.4	760.3	712.3	48.04	15.826	
8,000.0	7,803.0	7,858.8	7,857.5	33.0	11.1	0.36	35.0	2,273.4	742.5	693.9	48.61	15.275	
8,100.0	7,902.4	7,959.1	7,957.6	33.4	11.2	0.17	37.5	2,267.1	725.2	676.0	49.16	14.750	
8,200.0	8,001.9	8,058.1	8,056.3	33.8	11.3	-0.03	39.9	2,260.8	708.7	658.9	49.74	14.248	
8,300.0	8,101.4	8,159.2	8,157.2	34.2	11.4	-0.24	42.2	2,254.2	692.9	642.6	50.27	13.782	
8,400.0	8,201.1	8,258.6	8,256.4	34.6	11.5	-0.44	44.4	2,247.4	677.6	626.8	50.83	13.332	
8,500.0	8,300.8	8,362.5	8,359.9	34.9	11.7	-0.68	46.9	2,240.1	663.0	611.7	51.30	12.924	
8,600.0	8,400.5	8,466.0	8,463.1	35.3	11.8	-1.00	50.1	2,231.8	648.4	596.7	51.77	12.525	
8,700.0	8,500.4	8,564.8	8,561.5	35.7	12.0	-1.36	53.8	2,223.6	634.4	582.1	52.31	12.128	
8,800.0	8,600.2	8,671.8	8,667.9	36.0	12.2	-1.78	57.7	2,213.9	620.6	567.9	52.68	11.779	
8,900.0	8,700.2	8,768.4	8,764.1	36.3	12.4	-2.17	61.3	2,204.9	607.3	554.1	53.24	11.407	
9,000.0	8,800.1	8,867.7	8,862.9	36.6	12.6	-2.55	64.6	2,195.8	595.1	541.4	53.72	11.078	
9,100.0	8,900.1	8,972.7	8,967.4	36.9	12.8	-2.90	67.4	2,185.9	583.5	529.4	54.07	10.791	
9,200.0	9,000.1	9,081.5	9,075.5	37.2	13.0	-3.22	69.8	2,173.8	571.0	516.7	54.30	10.517	
9,300.0	9,100.1	9,184.1	9,177.3	37.4	13.3	-3.53	71.9	2,161.4	558.5	503.9	54.59	10.230	
9,324.5	9,124.6	9,209.0	9,202.0	37.4	13.3	85.39	72.3	2,158.3	555.4	500.8	54.63	10.167	
9,400.0	9,200.1	9,283.9	9,276.3	37.4	13.5	85.15	73.9	2,149.0	546.2	491.5	54.73	9.980	
9,500.0	9,300.1	9,381.6	9,373.2	37.4	13.8	84.72	76.9	2,136.8	534.1	479.2	54.90	9.728	
9,600.0	9,400.1	9,481.9	9,472.7	37.4	14.0	84.05	81.8	2,124.3	522.1	467.1	55.00	9.493	
9,700.0	9,500.1	9,581.9	9,571.6	37.5	14.3	83.28	87.3	2,111.5	509.9	454.8	55.10	9.255	
9,800.0	9,600.1	9,674.4	9,663.2	37.5	14.6	82.46	93.1	2,100.0	498.4	443.0	55.37	9.000	
9,900.0	9,700.1	9,767.7	9,755.7	37.5	14.9	81.59	99.2	2,089.7	488.3	432.7	55.61	8.781	
10,000.0	9,800.1	9,861.9	9,849.4	37.5	15.1	80.82	104.3	2,080.4	479.4	423.5	55.82	8.587	
10,100.0	9,900.1	9,956.0	9,943.1	37.6	15.4	80.33	107.1	2,072.6	471.6	415.6	56.06	8.413	
10,200.0	10,000.1	10,053.7	10,040.5	37.6	15.7	79.95	109.0	2,065.5	464.8	408.6	56.22	8.267	
10,300.0	10,100.1	10,148.8	10,135.4	37.6	15.9	79.62	110.5	2,059.2	458.6	402.1	56.45	8.124	
10,400.0	10,200.1	10,242.0	10,228.5	37.6	16.2	79.34	111.9	2,054.2	453.6	396.9	56.71	7.999	
10,500.0	10,300.1	10,336.7	10,323.1	37.6	16.4	79.11	113.1	2,050.6	450.1	393.1	56.93	7.905	
10,600.0	10,400.1	10,435.9	10,422.2	37.7	16.6	78.92	114.0	2,047.5	447.2	390.1	57.07	7.836	
10,700.0	10,500.1	10,534.5	10,520.8	37.7	16.9	78.69	115.2	2,044.5	444.5	387.3	57.21	7.770	
10,800.0	10,600.1	10,632.3	10,618.6	37.7	17.1	78.48	116.3	2,042.0	442.2	384.8	57.36	7.708	
10,900.0	10,700.1	10,727.4	10,713.6	37.7	17.3	78.39	116.8	2,040.4	440.7	383.1	57.58	7.653	
11,000.0	10,800.1	10,825.9	10,812.1	37.7	17.5	78.37	116.7	2,039.7	439.9	382.2	57.73	7.620	
11,100.0	10,900.1	10,925.7	10,911.9	37.8	17.6	78.39	116.5	2,039.2	439.3	381.5	57.86	7.593	
11,200.0	11,000.1	11,025.4	11,011.6	37.8	17.7	78.44	116.0	2,038.7	438.8	380.8	57.98	7.568	
11,300.0	11,100.1	11,124.5	11,110.7	37.8	17.8	78.63	114.5	2,038.6	438.4	380.3	58.11	7.544	
11,400.0	11,200.1	11,224.9	11,210.9	37.8	17.7	79.34	109.2	2,039.6	438.3	380.1	58.23	7.528	
11,461.5	11,261.5	11,288.5	11,274.2	37.8	17.7	80.21	102.5	2,040.4	438.0	379.7	58.32	7.510	
11,475.0	11,275.1	11,302.4	11,288.0	37.8	17.7	-99.21	100.7	2,040.6	437.9	379.8	58.12	7.535	
11,500.0	11,300.0	11,329.9	11,315.2	37.9	17.6	-98.88	96.7	2,041.0	437.9	379.8	58.11	7.535	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-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)			
11,507.6	11,307.6	11,338.3	11,323.4	37.9	17.6	-98.80	95.3	2,041.1	437.9	379.8	58.11	7.535	
11,525.0	11,324.9	11,357.9	11,342.7	37.9	17.6	-98.64	91.9	2,041.3	437.9	379.8	58.09	7.538	
11,550.0	11,349.6	11,387.1	11,371.3	37.9	17.6	-98.50	86.3	2,041.5	437.9	379.8	58.04	7.545	
11,575.0	11,374.0	11,417.7	11,401.2	37.9	17.6	-98.49	79.6	2,041.5	437.8	379.9	57.95	7.555	
11,600.0	11,398.1	11,449.3	11,431.9	37.9	17.6	-98.57	71.7	2,041.2	437.6	379.7	57.84	7.565	
11,625.0	11,421.9	11,476.2	11,457.7	37.9	17.6	-98.74	64.3	2,040.8	437.3	379.5	57.81	7.565	
11,650.0	11,445.2	11,504.0	11,484.1	37.9	17.6	-98.98	55.8	2,040.3	437.1	379.3	57.75	7.568	
11,675.0	11,468.0	11,532.7	11,511.1	37.9	17.6	-99.28	45.9	2,039.8	436.9	379.2	57.67	7.575	
11,700.0	11,490.3	11,561.4	11,537.6	37.9	17.6	-99.62	34.9	2,039.3	436.7	379.1	57.60	7.581	
11,725.0	11,511.9	11,589.3	11,562.9	37.9	17.6	-99.99	23.2	2,038.7	436.5	379.0	57.53	7.587	
11,747.6	11,530.9	11,613.5	11,584.6	37.9	17.6	-100.37	12.5	2,038.2	436.4	379.0	57.47	7.594 CC	
11,750.0	11,532.8	11,616.0	11,586.8	37.9	17.6	-100.41	11.4	2,038.2	436.4	379.0	57.46	7.595	
11,775.0	11,553.0	11,642.2	11,610.1	37.9	17.6	-100.92	-0.8	2,037.6	436.5	379.1	57.39	7.607	
11,800.0	11,572.4	11,666.9	11,631.5	37.9	17.6	-101.42	-12.9	2,037.2	436.9	379.5	57.32	7.621	
11,825.0	11,590.9	11,693.2	11,653.9	37.9	17.6	-101.96	-26.8	2,037.0	437.5	380.3	57.23	7.645	
11,850.0	11,608.6	11,722.5	11,678.3	37.9	17.6	-102.64	-42.9	2,036.7	438.2	381.2	57.09	7.677	
11,875.0	11,625.3	11,751.3	11,701.9	37.9	17.6	-103.39	-59.5	2,036.3	439.1	382.1	56.93	7.712	
11,900.0	11,641.0	11,778.6	11,723.5	37.9	17.6	-104.09	-76.1	2,035.9	440.0	383.3	56.79	7.748	
11,925.0	11,655.6	11,801.6	11,740.9	37.9	17.6	-104.60	-91.2	2,035.9	441.4	384.7	56.71	7.784	
11,950.0	11,669.2	11,823.9	11,756.8	37.9	17.7	-105.00	-106.8	2,036.3	443.2	386.6	56.62	7.828	
11,975.0	11,681.6	11,846.8	11,772.4	37.9	17.7	-105.34	-123.6	2,037.2	445.6	389.1	56.53	7.882	
12,000.0	11,692.9	11,871.1	11,787.9	37.9	17.7	-105.65	-142.2	2,038.6	448.4	391.9	56.44	7.944	
12,025.0	11,703.0	11,894.1	11,801.6	37.9	17.7	-105.85	-160.6	2,040.3	451.6	395.2	56.35	8.013	
12,050.0	11,712.0	11,923.6	11,817.7	38.0	17.7	-106.12	-185.2	2,043.0	455.1	398.9	56.28	8.087	
12,075.0	11,719.6	11,959.6	11,835.0	38.0	17.7	-106.42	-216.6	2,046.4	458.6	402.4	56.25	8.153	
12,100.0	11,726.0	12,019.7	11,856.8	38.0	17.8	-106.80	-272.3	2,050.6	460.7	404.4	56.33	8.178	
12,125.0	11,731.2	12,065.2	11,869.1	38.0	17.8	-106.94	-316.1	2,052.4	461.8	405.5	56.38	8.192	
12,150.0	11,735.0	12,096.8	11,875.5	38.0	17.9	-106.96	-347.0	2,053.6	463.0	406.5	56.42	8.205	
12,175.0	11,737.6	12,124.9	11,879.5	38.0	17.9	-106.91	-374.8	2,054.9	464.2	407.7	56.48	8.218	
12,200.0	11,738.9	12,147.4	11,881.6	38.1	18.0	-106.80	-397.2	2,056.3	465.8	409.2	56.53	8.239	
12,211.5	11,739.0	12,158.4	11,882.3	38.1	18.0	-106.73	-408.1	2,057.1	466.7	410.1	56.55	8.252	
12,300.0	11,739.0	12,250.8	11,884.8	38.2	18.1	-106.78	-500.1	2,064.6	473.7	416.9	56.84	8.335	
12,400.0	11,739.0	12,359.3	11,883.6	38.3	18.4	-106.38	-608.3	2,073.1	480.3	423.0	57.29	8.384	
12,500.0	11,739.0	12,454.9	11,881.5	38.4	18.6	-105.93	-703.6	2,080.1	486.2	428.4	57.74	8.420	
12,600.0	11,739.0	12,544.0	11,879.2	38.5	18.8	-105.42	-792.3	2,088.5	493.9	435.7	58.21	8.485	
12,700.0	11,739.0	12,656.4	11,876.9	38.7	19.2	-104.89	-904.2	2,098.2	501.0	442.2	58.81	8.519	
12,800.0	11,739.0	12,774.6	11,878.0	38.8	19.6	-104.84	-1,022.2	2,104.8	506.1	446.7	59.38	8.523	
12,900.0	11,739.0	12,894.6	11,878.1	39.0	20.1	-104.86	-1,142.2	2,105.5	506.0	446.1	59.92	8.444	
12,962.7	11,739.0	12,949.8	11,877.3	39.2	20.3	-104.77	-1,197.5	2,105.4	505.3	445.0	60.30	8.379	
13,000.0	11,739.0	12,979.9	11,876.7	39.2	20.4	-104.70	-1,227.5	2,105.9	505.6	445.0	60.53	8.352	
13,100.0	11,739.0	13,080.9	11,875.1	39.4	20.8	-104.46	-1,328.4	2,109.1	507.5	446.4	61.16	8.298	
13,200.0	11,739.0	13,205.7	11,875.1	39.7	21.4	-104.49	-1,453.3	2,108.6	506.6	444.8	61.78	8.199	
13,300.0	11,739.0	13,303.0	11,874.1	39.9	21.8	-104.47	-1,550.5	2,106.2	503.3	440.9	62.44	8.061	
13,400.0	11,739.0	13,398.0	11,872.4	40.2	22.3	-104.34	-1,645.4	2,104.8	500.8	437.7	63.14	7.932	
13,500.0	11,739.0	13,502.6	11,872.4	40.4	22.8	-104.42	-1,750.1	2,102.8	498.3	434.5	63.83	7.807	
13,600.0	11,739.0	13,606.8	11,872.9	40.7	23.3	-104.60	-1,854.1	2,099.1	494.4	429.9	64.54	7.661	
13,700.0	11,739.0	13,702.8	11,873.1	41.0	23.7	-104.72	-1,950.1	2,096.4	491.0	425.7	65.30	7.520	
13,800.0	11,739.0	13,801.4	11,873.5	41.3	24.2	-104.86	-2,048.7	2,093.8	488.0	421.9	66.08	7.385	
13,900.0	11,739.0	13,894.9	11,874.1	41.6	24.7	-105.01	-2,142.2	2,091.9	485.6	418.7	66.89	7.260	
14,000.0	11,739.0	14,000.2	11,874.3	41.9	25.3	-105.06	-2,247.5	2,091.3	484.4	416.7	67.73	7.153	
14,100.0	11,739.0	14,097.1	11,873.0	42.3	25.9	-105.01	-2,344.3	2,088.9	481.2	412.6	68.62	7.013	
14,164.8	11,739.0	14,152.4	11,872.1	42.5	26.2	-104.92	-2,399.6	2,089.0	480.6	411.4	69.20	6.945	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 62-GYRO-NS, 1310-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)			
14,200.0	11,739.0	14,184.3	11,871.6	42.6	26.4	-104.85	-2,431.5	2,089.5	480.7	411.2	69.52	6.915	
14,300.0	11,739.0	14,278.4	11,870.0	43.0	26.9	-104.61	-2,525.6	2,092.0	482.2	411.8	70.43	6.847	
14,400.0	11,739.0	14,375.7	11,868.6	43.4	27.5	-104.38	-2,622.8	2,095.2	484.4	413.0	71.36	6.788	
14,500.0	11,739.0	14,482.1	11,867.3	43.7	28.1	-104.15	-2,729.1	2,098.6	486.6	414.3	72.34	6.727	
14,600.0	11,739.0	14,589.4	11,865.2	44.1	28.8	-103.88	-2,836.4	2,100.1	486.9	413.6	73.32	6.640	
14,700.0	11,739.0	14,687.8	11,864.4	44.5	29.4	-103.79	-2,934.8	2,100.7	486.6	412.3	74.30	6.549	
14,800.0	11,739.0	14,790.6	11,864.2	44.9	30.0	-103.77	-3,037.6	2,101.2	486.4	411.1	75.30	6.459	
14,900.0	11,739.0	14,892.2	11,864.0	45.3	30.6	-103.77	-3,139.2	2,101.1	485.7	409.3	76.32	6.364	
15,000.0	11,739.0	14,996.7	11,863.9	45.8	31.3	-103.81	-3,243.7	2,100.2	484.2	406.9	77.34	6.261	
15,100.0	11,739.0	15,093.6	11,863.4	46.2	31.9	-103.79	-3,340.6	2,099.2	482.4	404.0	78.39	6.154	
15,137.6	11,739.0	15,125.4	11,863.3	46.4	32.1	-103.78	-3,372.4	2,099.2	482.2	403.4	78.79	6.120	
15,200.0	11,739.0	15,180.8	11,863.4	46.6	32.4	-103.78	-3,427.8	2,100.1	482.7	403.3	79.44	6.077	
15,300.0	11,739.0	15,284.9	11,863.7	47.1	33.1	-103.79	-3,531.8	2,101.6	483.6	403.0	80.53	6.005	
15,400.0	11,739.0	15,384.0	11,863.5	47.6	33.8	-103.74	-3,631.0	2,103.3	484.5	402.9	81.62	5.937	
15,500.0	11,739.0	15,499.1	11,864.2	48.0	34.5	-103.84	-3,746.0	2,103.3	484.1	401.4	82.73	5.852	
15,600.0	11,739.0	15,597.9	11,865.2	48.5	35.2	-104.05	-3,844.8	2,100.5	481.0	397.1	83.85	5.736	
15,691.2	11,739.0	15,679.1	11,866.5	48.9	35.7	-104.24	-3,926.0	2,100.0	480.2	395.3	84.89	5.657	
15,700.0	11,739.0	15,687.3	11,866.6	49.0	35.8	-104.24	-3,934.2	2,100.1	480.2	395.2	84.98	5.651	
15,800.0	11,739.0	15,777.0	11,866.6	49.5	36.4	-104.22	-4,023.8	2,101.5	481.2	395.1	86.10	5.590	
15,900.0	11,739.0	15,878.7	11,867.0	50.0	37.1	-104.17	-4,125.5	2,105.3	484.3	397.0	87.27	5.549	
16,000.0	11,739.0	15,992.9	11,868.5	50.5	37.8	-104.36	-4,239.7	2,105.8	484.4	395.9	88.47	5.475	
16,100.0	11,739.0	16,106.3	11,869.8	51.0	38.6	-104.60	-4,353.0	2,103.5	482.1	392.5	89.63	5.379	
16,200.0	11,739.0	16,195.7	11,871.5	51.5	39.2	-104.88	-4,442.3	2,101.1	479.4	388.5	90.84	5.277	
16,260.4	11,739.0	16,248.6	11,872.0	51.8	39.6	-104.95	-4,495.2	2,100.9	478.9	387.3	91.56	5.230	
16,300.0	11,739.0	16,283.1	11,872.3	52.0	39.8	-104.99	-4,529.8	2,101.2	479.1	387.1	92.02	5.206	
16,400.0	11,739.0	16,385.4	11,872.9	52.5	40.5	-105.03	-4,632.0	2,102.8	480.1	386.9	93.23	5.150	
16,500.0	11,739.0	16,480.8	11,873.1	53.0	41.2	-105.02	-4,727.4	2,104.4	481.1	386.7	94.43	5.095	
16,600.0	11,739.0	16,595.5	11,874.4	53.6	42.0	-105.19	-4,842.1	2,104.6	481.0	385.3	95.69	5.026	
16,700.0	11,739.0	16,694.7	11,875.0	54.1	42.7	-105.31	-4,941.4	2,103.4	479.3	382.4	96.92	4.945	
16,800.0	11,739.0	16,790.9	11,877.1	54.7	43.3	-105.60	-5,037.5	2,102.9	478.7	380.6	98.17	4.877	
16,900.0	11,739.0	16,902.2	11,877.0	55.2	44.1	-105.65	-5,148.8	2,101.5	476.9	377.5	99.41	4.797	
17,000.0	11,739.0	17,006.4	11,875.3	55.8	44.8	-105.57	-5,252.9	2,098.8	473.3	372.7	100.64	4.703	
17,100.0	11,739.0	17,100.3	11,873.8	56.3	45.5	-105.49	-5,346.8	2,096.4	469.8	367.9	101.91	4.610	
17,200.0	11,739.0	17,189.9	11,873.9	56.9	46.1	-105.54	-5,436.4	2,095.6	468.4	365.2	103.18	4.540	
17,215.2	11,739.0	17,203.6	11,874.0	57.0	46.2	-105.56	-5,450.1	2,095.6	468.4	365.0	103.37	4.531	
17,300.0	11,739.0	17,292.3	11,874.8	57.5	46.9	-105.66	-5,538.8	2,096.1	468.5	364.0	104.46	4.485	
17,400.0	11,739.0	17,393.2	11,875.5	58.1	47.6	-105.79	-5,639.6	2,095.1	467.0	361.3	105.75	4.417	
17,486.2	11,739.0	17,474.6	11,875.7	58.6	48.1	-105.83	-5,721.1	2,095.1	466.6	359.8	106.85	4.367	
17,500.0	11,739.0	17,487.7	11,875.6	58.6	48.2	-105.82	-5,734.2	2,095.2	466.6	359.6	107.02	4.360	
17,600.0	11,739.0	17,579.7	11,875.6	59.2	48.9	-105.79	-5,826.2	2,096.7	467.5	359.2	108.28	4.318	
17,700.0	11,739.0	17,670.2	11,876.2	59.8	49.5	-105.78	-5,916.5	2,099.8	470.4	360.9	109.50	4.296	
17,800.0	11,739.0	17,759.9	11,877.6	60.4	50.2	-105.81	-6,006.2	2,104.6	475.3	364.7	110.68	4.295	
17,900.0	11,739.0	17,854.0	11,879.8	61.0	50.9	-105.86	-6,099.9	2,111.3	482.2	370.3	111.90	4.309	
18,000.0	11,739.0	17,950.8	11,880.1	61.6	51.6	-105.65	-6,196.5	2,119.4	489.7	376.5	113.16	4.327	
18,100.0	11,739.0	18,043.3	11,878.7	62.2	52.2	-105.23	-6,288.5	2,128.4	498.1	383.7	114.33	4.356	
18,200.0	11,739.0	18,142.9	11,876.1	62.8	52.9	-104.63	-6,387.4	2,139.7	507.8	392.1	115.62	4.391	
18,300.0	11,739.0	18,246.2	11,870.1	63.4	53.7	-103.68	-6,489.9	2,151.3	516.6	399.6	116.97	4.417	
18,400.0	11,739.0	18,345.8	11,864.7	64.0	54.4	-102.84	-6,588.8	2,162.0	525.2	407.0	118.25	4.442	
18,500.0	11,739.0	18,471.9	11,859.7	64.6	55.3	-102.08	-6,714.2	2,172.6	532.1	412.2	119.91	4.437	
18,600.0	11,739.0	18,625.0	11,857.5	65.3	56.5	-101.87	-6,867.3	2,172.5	531.2	410.0	121.23	4.382	
18,700.0	11,739.0	18,738.5	11,857.8	65.9	57.3	-102.12	-6,980.4	2,163.8	523.1	400.7	122.41	4.273	
18,800.0	11,739.0	18,846.7	11,858.1	66.5	58.1	-102.41	-7,088.2	2,153.6	513.3	389.7	123.60	4.153	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #105H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 62-GYRO-NS, 1310-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)			
18,900.0	11,739.0	18,937.3	11,858.4	67.1	58.7	-102.67	-7,178.3	2,145.3	503.7	378.6	125.12	4.026	
19,000.0	11,739.0	19,026.0	11,858.7	67.8	59.4	-102.88	-7,266.8	2,138.6	495.9	369.2	126.63	3.916	
19,100.0	11,739.0	19,121.0	11,859.0	68.4	60.1	-103.07	-7,361.7	2,133.4	489.9	361.9	128.05	3.826	
19,200.0	11,739.0	19,214.0	11,859.2	69.0	60.7	-103.20	-7,454.6	2,129.8	485.5	356.0	129.47	3.750	
19,300.0	11,739.0	19,310.0	11,859.4	69.7	61.4	-103.33	-7,550.6	2,126.8	481.9	351.0	130.86	3.682	
19,400.0	11,739.0	19,407.5	11,859.8	70.3	62.1	-103.46	-7,648.0	2,124.2	478.8	346.6	132.24	3.621	
19,500.0	11,739.0	19,501.9	11,860.1	70.9	62.8	-103.56	-7,742.5	2,122.7	476.7	343.1	133.63	3.567	
19,600.0	11,739.0	19,602.9	11,860.5	71.6	63.6	-103.66	-7,843.4	2,121.4	474.9	339.9	135.01	3.517	
19,700.0	11,739.0	19,697.8	11,860.8	72.2	64.3	-103.73	-7,938.3	2,120.7	473.6	337.2	136.39	3.473	
19,800.0	11,739.0	19,795.8	11,861.0	72.9	65.0	-103.77	-8,036.3	2,120.7	473.1	335.3	137.77	3.434	
19,900.0	11,739.0	19,894.5	11,861.2	73.5	65.7	-103.81	-8,135.0	2,121.2	472.9	333.8	139.14	3.399	
19,942.1	11,739.0	19,936.4	11,861.4	73.8	66.0	-103.82	-8,176.9	2,121.4	472.9	333.2	139.73	3.384	
20,000.0	11,739.0	19,992.7	11,861.5	74.2	66.4	-103.84	-8,233.2	2,121.8	473.0	332.4	140.52	3.366	
20,100.0	11,739.0	20,089.8	11,861.8	74.8	67.1	-103.84	-8,330.3	2,123.1	473.7	331.8	141.90	3.339	
20,200.0	11,739.0	20,190.6	11,862.1	75.5	67.9	-103.86	-8,431.1	2,124.5	474.5	331.2	143.29	3.311	
20,300.0	11,739.0	20,289.9	11,862.3	76.2	68.6	-103.87	-8,530.4	2,126.0	475.4	330.7	144.68	3.286	
20,400.0	11,739.0	20,394.4	11,862.7	76.8	69.4	-103.89	-8,634.8	2,127.3	476.0	329.9	146.09	3.258	
20,500.0	11,739.0	20,495.1	11,862.9	77.5	70.1	-103.93	-8,735.6	2,127.4	475.6	328.1	147.49	3.225	
20,522.8	11,739.0	20,517.1	11,863.0	77.6	70.3	-103.94	-8,757.5	2,127.5	475.6	327.8	147.80	3.218	
20,600.0	11,739.0	20,593.1	11,863.3	78.2	70.9	-103.97	-8,833.6	2,128.1	475.7	326.8	148.88	3.195	
20,700.0	11,739.0	20,692.2	11,863.7	78.8	71.6	-104.01	-8,932.6	2,129.0	476.1	325.8	150.28	3.168	
20,800.0	11,739.0	20,787.8	11,864.1	79.5	72.3	-104.05	-9,028.2	2,130.3	476.9	325.2	151.66	3.144	
20,900.0	11,739.0	20,891.6	11,864.3	80.2	73.1	-104.03	-9,132.0	2,132.2	478.1	325.0	153.09	3.123	
21,000.0	11,739.0	20,998.9	11,864.1	80.8	73.9	-104.01	-9,239.4	2,132.7	477.9	323.3	154.50	3.093	
21,070.3	11,739.0	21,064.5	11,864.5	81.3	74.3	-104.07	-9,305.0	2,132.7	477.5	322.0	155.49	3.071	
21,100.0	11,739.0	21,093.0	11,864.7	81.5	74.6	-104.10	-9,333.4	2,132.9	477.6	321.7	155.91	3.063	
21,200.0	11,739.0	21,191.7	11,865.3	82.2	75.3	-104.16	-9,432.1	2,133.9	478.0	320.7	157.32	3.039	
21,300.0	11,739.0	21,292.2	11,865.7	82.9	76.0	-104.18	-9,532.6	2,135.1	478.7	320.0	158.73	3.016	
21,400.0	11,739.0	21,405.5	11,865.3	83.5	76.9	-104.19	-9,645.9	2,134.2	477.2	317.0	160.15	2.979	
21,500.0	11,739.0	21,502.9	11,865.4	84.2	77.6	-104.25	-9,743.3	2,133.0	475.3	313.7	161.58	2.942	
21,600.0	11,739.0	21,600.3	11,865.2	84.9	78.3	-104.29	-9,840.7	2,131.7	473.3	310.3	163.00	2.904	
21,645.7	11,739.0	21,640.1	11,865.2	85.2	78.6	-104.29	-9,880.4	2,131.7	473.0	309.4	163.64	2.891	
21,697.5	11,739.0	21,689.3	11,865.2	85.6	79.0	-104.29	-9,929.6	2,132.2	473.3	308.9	164.37	2.879	
21,700.0	11,739.0	21,691.8	11,865.2	85.6	79.0	-104.29	-9,932.2	2,132.2	473.3	308.9	164.40	2.879	
21,747.5	11,739.0	21,739.7	11,865.1	85.9	79.4	-104.27	-9,980.1	2,132.8	473.5	308.5	165.08	2.869 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1311-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		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,100.0	6,914.0	6,924.7	6,921.1	29.0	12.4	-4.85	123.7	2,378.3	989.7	945.2	44.45	22.263	
7,200.0	7,012.2	7,023.8	7,020.1	29.5	12.4	-4.92	123.4	2,378.4	971.0	925.9	45.08	21.538	
7,300.0	7,110.6	7,123.3	7,119.7	29.9	12.4	-4.98	123.0	2,378.5	953.1	907.4	45.69	20.859	
7,400.0	7,209.1	7,222.8	7,219.1	30.4	12.4	-5.04	122.5	2,378.4	935.9	889.6	46.29	20.219	
7,500.0	7,307.8	7,321.9	7,318.2	30.8	12.4	-5.08	121.9	2,378.3	919.5	872.6	46.88	19.615	
7,600.0	7,406.6	7,423.1	7,419.5	31.3	12.3	-5.12	121.2	2,378.1	903.8	856.4	47.44	19.054	
7,700.0	7,505.5	7,522.6	7,518.9	31.7	12.3	-5.16	120.6	2,377.6	888.8	840.8	48.00	18.517	
7,800.0	7,604.6	7,624.2	7,620.6	32.1	12.2	-5.19	119.9	2,377.0	874.5	826.0	48.53	18.020	
7,900.0	7,703.7	7,723.2	7,719.5	32.6	12.2	-5.23	119.3	2,376.3	860.9	811.8	49.08	17.541	
8,000.0	7,803.0	7,823.1	7,819.4	33.0	12.2	-5.26	118.6	2,375.5	848.1	798.5	49.61	17.095	
8,100.0	7,902.4	7,922.2	7,918.5	33.4	12.1	-5.29	118.0	2,374.6	836.2	786.0	50.15	16.674	
8,200.0	8,001.9	8,022.7	8,019.0	33.8	12.1	-5.31	117.4	2,373.7	825.0	774.4	50.66	16.285	
8,300.0	8,101.4	8,122.5	8,118.8	34.2	12.1	-5.33	116.7	2,372.8	814.7	763.5	51.18	15.919	
8,400.0	8,201.1	8,222.7	8,219.0	34.6	12.1	-5.34	116.0	2,371.7	805.1	753.4	51.67	15.580	
8,500.0	8,300.8	8,323.1	8,319.4	34.9	12.1	-5.35	115.3	2,370.6	796.3	744.2	52.16	15.266	
8,600.0	8,400.5	8,423.4	8,419.7	35.3	12.0	-5.34	114.5	2,369.4	788.3	735.7	52.64	14.975	
8,700.0	8,500.4	8,523.3	8,519.5	35.7	12.0	-5.32	113.6	2,368.1	781.1	728.0	53.11	14.707	
8,800.0	8,600.2	8,621.9	8,618.2	36.0	12.0	-5.30	112.8	2,366.9	774.8	721.2	53.59	14.459	
8,900.0	8,700.2	8,728.4	8,724.7	36.3	12.0	-5.28	112.0	2,365.5	769.3	715.4	53.94	14.262	
9,000.0	8,800.1	8,833.2	8,829.4	36.6	12.1	-5.23	110.7	2,363.0	763.6	709.3	54.30	14.062	
9,100.0	8,900.1	8,928.8	8,925.0	36.9	12.1	-5.19	109.7	2,360.7	758.7	703.9	54.75	13.857	
9,200.0	9,000.1	9,031.1	9,027.2	37.2	12.2	-5.33	111.3	2,358.3	755.0	699.9	55.08	13.707	
9,300.0	9,100.1	9,138.3	9,134.3	37.4	12.3	-5.60	114.4	2,354.8	751.4	696.2	55.26	13.598	
9,324.5	9,124.6	9,163.5	9,159.5	37.4	12.3	83.34	115.1	2,353.9	750.6	695.3	55.28	13.577	
9,400.0	9,200.1	9,240.0	9,235.9	37.4	12.3	83.20	116.5	2,350.9	747.8	692.5	55.29	13.525	
9,500.0	9,300.1	9,322.0	9,317.8	37.4	12.4	83.08	117.8	2,348.1	744.8	689.2	55.57	13.402	
9,600.0	9,400.1	9,416.0	9,411.8	37.4	12.5	82.91	119.9	2,347.0	743.9	688.2	55.71	13.353	
9,604.4	9,404.5	9,416.0	9,411.8	37.4	12.5	82.91	119.9	2,347.0	743.9	688.1	55.76	13.340 CC, ES	
9,700.0	9,500.1	9,486.0	9,481.8	37.5	12.6	82.73	122.4	2,348.2	745.9	689.8	56.10	13.296 SF	
9,800.0	9,600.1	9,578.1	9,573.7	37.5	12.7	82.42	126.9	2,351.8	750.3	694.1	56.22	13.347	
9,900.0	9,700.1	9,683.4	9,678.8	37.5	12.9	82.07	132.2	2,355.8	754.8	698.6	56.20	13.430	
10,000.0	9,800.1	9,784.5	9,779.7	37.5	13.0	81.76	136.7	2,359.1	758.6	702.4	56.23	13.492	
10,100.0	9,900.1	9,889.4	9,884.5	37.6	13.2	81.51	140.5	2,362.2	762.1	705.9	56.22	13.556	
10,200.0	10,000.1	9,994.0	9,989.1	37.6	13.3	81.29	143.9	2,364.7	764.9	708.7	56.22	13.605	
10,300.0	10,100.1	10,090.5	10,085.5	37.6	13.4	81.26	144.7	2,367.3	767.7	711.4	56.33	13.629	
10,400.0	10,200.1	10,192.9	10,187.7	37.6	13.5	81.59	140.9	2,371.2	770.9	714.5	56.43	13.663	
10,500.0	10,300.1	10,307.3	10,302.0	37.6	13.5	82.02	135.3	2,373.7	772.3	716.0	56.36	13.704	
10,600.0	10,400.1	10,409.7	10,404.3	37.7	13.4	82.38	130.6	2,375.1	773.1	716.7	56.41	13.706	
10,700.0	10,500.1	10,512.6	10,507.0	37.7	13.4	82.70	126.4	2,376.0	773.5	717.0	56.45	13.703	
10,800.0	10,600.1	10,616.8	10,611.2	37.7	13.4	82.98	122.7	2,376.5	773.5	717.0	56.47	13.698	
10,900.0	10,700.1	10,718.3	10,712.6	37.7	13.4	83.20	119.6	2,376.4	773.0	716.5	56.51	13.679	
11,000.0	10,800.1	10,819.5	10,813.8	37.7	13.4	83.40	116.9	2,376.1	772.5	715.9	56.56	13.658	
11,100.0	10,900.1	10,915.9	10,910.2	37.8	13.4	83.53	115.1	2,375.9	772.0	715.4	56.65	13.627	
11,137.2	10,937.2	10,951.7	10,945.9	37.8	13.4	83.56	114.6	2,375.9	772.0	715.3	56.69	13.618	
11,200.0	11,000.1	11,012.1	11,006.4	37.8	13.4	83.60	114.2	2,376.1	772.1	715.3	56.75	13.605	
11,300.0	11,100.1	11,111.6	11,105.9	37.8	13.5	83.62	113.9	2,376.5	772.4	715.6	56.82	13.594	
11,400.0	11,200.1	11,213.8	11,208.1	37.8	13.5	83.66	113.5	2,376.7	772.7	715.8	56.86	13.589	
11,461.5	11,261.5	11,275.7	11,270.0	37.8	13.5	83.69	113.1	2,376.8	772.7	715.8	56.88	13.584	
11,475.0	11,275.1	11,289.3	11,283.6	37.8	13.5	-95.94	113.0	2,376.8	772.7	716.0	56.76	13.614	
11,500.0	11,300.0	11,314.3	11,308.6	37.9	13.5	-96.01	112.8	2,376.9	772.9	716.1	56.76	13.616	
11,525.0	11,324.9	11,339.3	11,333.5	37.9	13.5	-96.16	112.6	2,376.9	773.1	716.4	56.76	13.621	
11,550.0	11,349.6	11,364.0	11,358.3	37.9	13.5	-96.38	112.3	2,376.9	773.6	716.8	56.76	13.630	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1311-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)			
11,575.0	11,374.0	11,388.6	11,382.9	37.9	13.5	-96.67	112.1	2,376.9	774.2	717.4	56.74	13.643	
11,600.0	11,398.1	11,412.9	11,407.2	37.9	13.6	-97.03	111.9	2,377.0	775.0	718.3	56.73	13.662	
11,625.0	11,421.9	11,436.9	11,431.2	37.9	13.6	-97.44	111.6	2,377.0	776.0	719.3	56.70	13.686	
11,650.0	11,445.2	11,460.5	11,454.7	37.9	13.6	-97.89	111.4	2,377.0	777.3	720.6	56.67	13.716	
11,675.0	11,468.0	11,483.5	11,477.8	37.9	13.6	-98.38	111.1	2,377.0	778.8	722.2	56.62	13.754	
11,700.0	11,490.3	11,506.1	11,500.3	37.9	13.6	-98.88	110.9	2,377.0	780.7	724.1	56.57	13.800	
11,725.0	11,511.9	11,528.0	11,522.2	37.9	13.6	-99.40	110.6	2,377.0	782.9	726.4	56.50	13.856	
11,750.0	11,532.8	11,549.2	11,543.5	37.9	13.6	-99.91	110.4	2,377.0	785.6	729.2	56.42	13.923	
11,775.0	11,553.0	11,569.7	11,564.0	37.9	13.6	-100.40	110.1	2,377.0	788.7	732.4	56.33	14.002	
11,800.0	11,572.4	11,589.3	11,583.6	37.9	13.6	-100.84	109.9	2,377.0	792.3	736.1	56.22	14.094	
11,825.0	11,590.9	11,608.1	11,602.3	37.9	13.6	-101.23	109.6	2,377.0	796.5	740.4	56.09	14.200	
11,850.0	11,608.6	11,625.9	11,620.2	37.9	13.6	-101.56	109.4	2,377.0	801.2	745.3	55.94	14.322	
11,875.0	11,625.3	11,642.9	11,637.1	37.9	13.6	-101.80	109.1	2,377.0	806.6	750.8	55.78	14.461	
11,900.0	11,641.0	11,658.8	11,653.1	37.9	13.6	-101.95	108.9	2,377.0	812.6	757.0	55.60	14.617	
11,925.0	11,655.6	11,673.8	11,668.1	37.9	13.6	-101.98	108.7	2,377.1	819.4	764.0	55.40	14.791	
11,950.0	11,669.2	11,687.8	11,682.0	37.9	13.6	-101.90	108.5	2,377.1	826.8	771.6	55.18	14.984	
11,975.0	11,681.6	11,700.6	11,694.9	37.9	13.6	-101.67	108.3	2,377.1	834.9	780.0	54.94	15.197	
12,000.0	11,692.9	11,712.3	11,706.6	37.9	13.7	-101.30	108.1	2,377.1	843.8	789.1	54.69	15.430	
12,025.0	11,703.0	11,722.8	11,717.1	37.9	13.7	-100.76	108.0	2,377.1	853.4	799.0	54.42	15.682	
12,050.0	11,712.0	11,732.2	11,726.4	38.0	13.7	-100.04	107.8	2,377.1	863.8	809.6	54.14	15.954	
12,075.0	11,719.6	11,740.2	11,734.5	38.0	13.7	-99.14	107.7	2,377.1	874.8	821.0	53.85	16.245	
12,100.0	11,726.0	11,747.1	11,741.3	38.0	13.7	-98.04	107.6	2,377.1	886.6	833.0	53.55	16.554	
12,125.0	11,731.2	11,752.6	11,746.9	38.0	13.7	-96.74	107.5	2,377.1	899.0	845.7	53.25	16.882	
12,150.0	11,735.0	11,756.9	11,751.1	38.0	13.7	-95.23	107.5	2,377.1	912.0	859.0	52.94	17.227	
12,175.0	11,737.6	11,759.8	11,754.1	38.0	13.7	-93.51	107.4	2,377.1	925.6	872.9	52.63	17.588	
12,200.0	11,738.9	11,761.5	11,755.7	38.1	13.7	-91.58	107.4	2,377.1	939.7	887.4	52.31	17.963	
12,211.5	11,739.0	11,761.8	11,756.0	38.1	13.7	-90.62	107.4	2,377.1	946.3	894.2	52.17	18.140	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1143-r.5 MWD+IFR1+MS, 11259-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		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,100.0	6,914.0	6,924.7	6,921.1	29.0	12.4	-4.85	123.7	2,378.3	989.7	945.4	44.21	22.383	
7,200.0	7,012.2	7,023.8	7,020.1	29.5	12.4	-4.92	123.4	2,378.4	971.0	926.1	44.84	21.653	
7,300.0	7,110.6	7,123.3	7,119.7	29.9	12.4	-4.98	123.0	2,378.5	953.1	907.6	45.45	20.969	
7,400.0	7,209.1	7,222.8	7,219.1	30.4	12.4	-5.04	122.5	2,378.4	935.9	889.8	46.05	20.325	
7,500.0	7,307.8	7,321.9	7,318.2	30.8	12.4	-5.08	121.9	2,378.3	919.5	872.9	46.64	19.716	
7,600.0	7,406.6	7,423.1	7,419.5	31.3	12.3	-5.12	121.2	2,378.1	903.8	856.6	47.20	19.150	
7,700.0	7,505.5	7,522.6	7,518.9	31.7	12.3	-5.16	120.6	2,377.6	888.8	841.1	47.76	18.610	
7,800.0	7,604.6	7,624.2	7,620.6	32.1	12.2	-5.19	119.9	2,377.0	874.5	826.2	48.29	18.110	
7,900.0	7,703.7	7,723.2	7,719.5	32.6	12.2	-5.23	119.3	2,376.3	860.9	812.1	48.84	17.627	
8,000.0	7,803.0	7,823.1	7,819.4	33.0	12.2	-5.26	118.6	2,375.5	848.1	798.7	49.37	17.178	
8,100.0	7,902.4	7,922.2	7,918.5	33.4	12.1	-5.29	118.0	2,374.6	836.2	786.3	49.91	16.754	
8,200.0	8,001.9	8,022.7	8,019.0	33.8	12.1	-5.31	117.4	2,373.7	825.0	774.6	50.42	16.362	
8,300.0	8,101.4	8,122.5	8,118.8	34.2	12.1	-5.33	116.7	2,372.8	814.7	763.7	50.94	15.994	
8,400.0	8,201.1	8,222.7	8,219.0	34.6	12.1	-5.34	116.0	2,371.7	805.1	753.7	51.44	15.653	
8,500.0	8,300.8	8,323.1	8,319.4	34.9	12.1	-5.35	115.3	2,370.6	796.3	744.4	51.92	15.337	
8,600.0	8,400.5	8,423.4	8,419.7	35.3	12.0	-5.34	114.5	2,369.4	788.3	735.9	52.40	15.044	
8,700.0	8,500.4	8,523.3	8,519.5	35.7	12.0	-5.32	113.6	2,368.1	781.1	728.3	52.87	14.773	
8,800.0	8,600.2	8,621.9	8,618.2	36.0	12.0	-5.30	112.8	2,366.9	774.8	721.5	53.35	14.524	
8,900.0	8,700.2	8,728.4	8,724.7	36.3	12.0	-5.28	112.0	2,365.5	769.3	715.6	53.70	14.326	
9,000.0	8,800.1	8,833.2	8,829.4	36.6	12.1	-5.23	110.7	2,363.0	763.6	709.5	54.06	14.124	
9,100.0	8,900.1	8,928.8	8,925.0	36.9	12.1	-5.19	109.7	2,360.7	758.7	704.2	54.51	13.918	
9,200.0	9,000.1	9,031.1	9,027.2	37.2	12.2	-5.33	111.3	2,358.3	755.0	700.1	54.84	13.767	
9,300.0	9,100.1	9,138.3	9,134.3	37.4	12.3	-5.60	114.4	2,354.8	751.4	696.4	55.02	13.657	
9,324.5	9,124.6	9,163.5	9,159.5	37.4	12.3	83.34	115.1	2,353.9	750.6	695.5	55.04	13.636	
9,400.0	9,200.1	9,240.0	9,235.9	37.4	12.3	83.20	116.5	2,350.9	747.8	692.8	55.05	13.584	
9,500.0	9,300.1	9,322.0	9,317.8	37.4	12.4	83.08	117.8	2,348.1	744.8	689.5	55.33	13.460	
9,600.0	9,400.1	9,416.0	9,411.8	37.4	12.5	82.91	119.9	2,347.0	743.9	688.4	55.47	13.411	
9,604.4	9,404.5	9,416.0	9,411.8	37.4	12.5	82.91	119.9	2,347.0	743.9	688.3	55.52	13.397 CC	
9,700.0	9,500.1	9,486.0	9,481.8	37.5	12.6	82.73	122.4	2,348.2	745.9	690.0	55.86	13.353	
9,800.0	9,600.1	9,578.1	9,573.7	37.5	12.7	82.42	126.9	2,351.8	750.3	694.4	55.98	13.404	
9,900.0	9,700.1	9,683.4	9,678.8	37.5	12.9	82.07	132.2	2,355.8	754.8	698.8	55.96	13.488	
10,000.0	9,800.1	9,784.5	9,779.7	37.5	13.0	81.76	136.7	2,359.1	758.6	702.6	55.99	13.550	
10,100.0	9,900.1	9,889.4	9,884.5	37.6	13.2	81.51	140.5	2,362.2	762.1	706.2	55.98	13.614	
10,200.0	10,000.1	9,994.0	9,989.1	37.6	13.3	81.29	143.9	2,364.7	764.9	708.9	55.98	13.663	
10,300.0	10,100.1	10,090.5	10,085.5	37.6	13.4	81.26	144.7	2,367.3	767.7	711.6	56.09	13.687	
10,400.0	10,200.1	10,192.9	10,187.7	37.6	13.5	81.59	140.9	2,371.2	770.9	714.7	56.19	13.721	
10,500.0	10,300.1	10,307.3	10,302.0	37.6	13.5	82.02	135.3	2,373.7	772.3	716.2	56.12	13.763	
10,600.0	10,400.1	10,409.7	10,404.3	37.7	13.4	82.38	130.6	2,375.1	773.1	716.9	56.17	13.764	
10,700.0	10,500.1	10,512.6	10,507.0	37.7	13.4	82.70	126.4	2,376.0	773.5	717.3	56.21	13.761	
10,800.0	10,600.1	10,616.8	10,611.2	37.7	13.4	82.98	122.7	2,376.5	773.5	717.3	56.23	13.756	
10,900.0	10,700.1	10,718.3	10,712.6	37.7	13.4	83.20	119.6	2,376.4	773.0	716.8	56.27	13.738	
11,000.0	10,800.1	10,819.5	10,813.8	37.7	13.4	83.40	116.9	2,376.1	772.5	716.1	56.32	13.716	
11,100.0	10,900.1	10,915.9	10,910.2	37.8	13.4	83.53	115.1	2,375.9	772.0	715.6	56.41	13.685	
11,137.2	10,937.2	10,951.7	10,945.9	37.8	13.4	83.56	114.6	2,375.9	772.0	715.5	56.45	13.676	
11,200.0	11,000.1	11,012.1	11,006.4	37.8	13.4	83.60	114.2	2,376.1	772.1	715.6	56.51	13.662	
11,300.0	11,100.1	11,111.6	11,105.9	37.8	13.5	83.62	113.9	2,376.5	772.4	715.9	56.58	13.652	
11,400.0	11,200.1	11,210.1	11,204.4	37.8	13.5	83.66	113.4	2,376.8	772.7	716.0	56.66	13.638	
11,461.5	11,261.5	11,259.0	11,253.2	37.8	13.6	83.87	110.7	2,377.9	773.7	716.9	56.82	13.616	
11,475.0	11,275.1	11,265.1	11,259.2	37.8	13.6	-95.67	110.1	2,378.2	774.1	717.3	56.80	13.629	
11,500.0	11,300.0	11,283.7	11,277.7	37.9	13.6	-95.46	107.9	2,379.1	775.1	718.3	56.88	13.629	
11,525.0	11,324.9	11,307.0	11,300.7	37.9	13.6	-95.23	104.5	2,380.5	776.5	719.6	56.90	13.646	
11,550.0	11,349.6	11,324.3	11,317.7	37.9	13.6	-95.00	101.4	2,381.7	778.1	721.2	56.99	13.655	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1143-r.5 MWD+IFR1+MS, 11259-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)		
11,575.0	11,374.0	11,347.6	11,340.3	37.9	13.7	-94.76	96.3	2,383.4	780.0	723.0	57.01	13.681	
11,600.0	11,398.1	11,374.0	11,365.7	37.9	13.7	-94.51	89.4	2,385.5	781.9	724.9	57.00	13.717	
11,625.0	11,421.9	11,401.7	11,392.1	37.9	13.7	-94.28	81.0	2,387.8	783.9	726.9	56.98	13.756	
11,650.0	11,445.2	11,441.1	11,429.0	37.9	13.8	-94.11	67.7	2,390.6	785.7	728.8	56.86	13.818	
11,675.0	11,468.0	11,466.6	11,452.7	37.9	13.8	-93.98	58.3	2,392.2	787.3	730.4	56.85	13.847	
11,700.0	11,490.3	11,489.2	11,473.2	37.9	13.8	-93.85	49.0	2,393.8	789.0	732.1	56.87	13.873	
11,725.0	11,511.9	11,513.2	11,494.5	37.9	13.9	-93.71	38.3	2,395.6	790.9	734.0	56.88	13.905	
11,750.0	11,532.8	11,537.8	11,515.9	37.9	13.9	-93.57	26.2	2,397.6	792.9	736.0	56.88	13.940	
11,775.0	11,553.0	11,595.0	11,563.3	37.9	14.1	-93.53	-5.6	2,401.1	794.4	737.7	56.64	14.026	
11,800.0	11,572.4	11,621.3	11,584.3	37.9	14.2	-93.46	-21.4	2,402.4	795.5	738.9	56.63	14.046	
11,825.0	11,590.9	11,647.7	11,604.8	37.9	14.2	-93.42	-37.9	2,403.6	796.7	740.1	56.63	14.069	
11,850.0	11,608.6	11,674.0	11,624.8	37.9	14.3	-93.42	-55.1	2,404.9	797.9	741.3	56.62	14.093	
11,875.0	11,625.3	11,712.1	11,652.5	37.9	14.4	-93.52	-81.1	2,406.5	798.9	742.4	56.52	14.135	
11,900.0	11,641.0	11,732.7	11,666.7	37.9	14.4	-93.52	-95.9	2,407.3	800.0	743.4	56.55	14.147	
11,925.0	11,655.6	11,750.6	11,678.7	37.9	14.5	-93.50	-109.2	2,408.2	801.2	744.6	56.59	14.159	
11,950.0	11,669.2	11,772.0	11,692.7	37.9	14.5	-93.52	-125.3	2,409.5	802.9	746.3	56.59	14.186	
11,975.0	11,681.6	11,803.1	11,712.5	37.9	14.5	-93.70	-149.3	2,411.4	804.6	748.0	56.54	14.230	
12,000.0	11,692.9	11,843.9	11,737.9	37.9	14.6	-94.12	-181.1	2,413.1	805.8	749.4	56.43	14.281	
12,025.0	11,703.0	11,870.5	11,754.0	37.9	14.6	-94.40	-202.4	2,414.0	807.0	750.7	56.38	14.313	
12,050.0	11,712.0	11,897.5	11,770.0	38.0	14.6	-94.76	-224.1	2,414.9	808.3	752.0	56.33	14.349	
12,075.0	11,719.6	11,915.9	11,781.0	38.0	14.7	-95.00	-238.8	2,415.5	809.8	753.4	56.31	14.381	
12,100.0	11,726.0	11,935.4	11,792.7	38.0	14.7	-95.30	-254.4	2,416.3	811.6	755.3	56.26	14.425	
12,125.0	11,731.2	11,960.9	11,808.1	38.0	14.7	-95.82	-274.7	2,417.3	813.6	757.4	56.17	14.485	
12,150.0	11,735.0	11,987.9	11,824.2	38.0	14.8	-96.42	-296.3	2,418.2	815.8	759.8	56.06	14.554	
12,175.0	11,737.6	12,014.1	11,839.3	38.0	14.8	-97.02	-317.7	2,419.1	818.3	762.3	55.94	14.627	
12,200.0	11,738.9	12,043.5	11,855.3	38.1	14.8	-97.74	-342.4	2,420.0	820.9	765.1	55.81	14.708	
12,211.5	11,739.0	12,058.2	11,862.9	38.1	14.9	-98.10	-354.9	2,420.4	822.1	766.4	55.75	14.747	
12,300.0	11,739.0	12,120.7	11,893.8	38.2	15.0	-100.21	-409.3	2,423.1	833.6	778.2	55.44	15.035	
12,400.0	11,739.0	12,289.4	11,958.1	38.3	15.2	-104.46	-564.6	2,428.8	845.5	790.4	55.14	15.334	
12,500.0	11,739.0	12,486.2	11,982.1	38.4	15.3	-106.14	-758.7	2,423.8	843.5	788.4	55.14	15.297	
12,600.0	11,739.0	12,563.6	11,983.7	38.5	15.4	-106.29	-836.1	2,422.4	841.8	786.3	55.50	15.166	
12,616.5	11,739.0	12,576.6	11,984.0	38.5	15.4	-106.30	-849.1	2,422.4	841.7	786.2	55.57	15.148	
12,700.0	11,739.0	12,652.1	11,984.6	38.7	15.7	-106.33	-924.5	2,423.5	842.5	786.6	55.91	15.069	
12,800.0	11,739.0	12,767.9	11,985.4	38.8	16.2	-106.40	-1,040.3	2,423.8	842.3	786.0	56.35	14.949	
12,883.6	11,739.0	12,843.8	11,985.3	39.0	16.6	-106.40	-1,116.2	2,423.6	841.6	784.8	56.75	14.829	
12,900.0	11,739.0	12,855.7	11,985.4	39.0	16.6	-106.41	-1,128.1	2,423.7	841.6	784.8	56.83	14.809	
13,000.0	11,739.0	12,945.2	11,987.3	39.2	17.0	-106.51	-1,217.6	2,425.5	843.5	786.2	57.33	14.713	
13,100.0	11,739.0	13,046.9	11,984.9	39.4	17.5	-106.32	-1,319.2	2,427.8	844.3	786.4	57.92	14.576	
13,200.0	11,739.0	13,239.4	11,985.3	39.7	18.8	-106.43	-1,511.6	2,424.4	843.5	784.9	58.59	14.397	
13,300.0	11,739.0	13,329.2	11,985.4	39.9	19.4	-106.63	-1,600.9	2,415.4	833.5	774.3	59.24	14.070	
13,400.0	11,739.0	13,382.0	11,986.4	40.2	19.7	-106.77	-1,653.5	2,412.1	827.7	767.8	59.96	13.804	
13,467.3	11,739.0	13,428.5	11,987.4	40.3	20.0	-106.86	-1,700.0	2,411.1	826.6	766.1	60.46	13.671	
13,500.0	11,739.0	13,447.7	11,987.7	40.4	20.2	-106.88	-1,719.2	2,411.3	826.8	766.1	60.69	13.624	
13,600.0	11,739.0	13,503.3	11,988.1	40.7	20.6	-106.86	-1,774.8	2,414.0	831.0	769.7	61.36	13.543	
13,700.0	11,739.0	13,571.0	11,988.6	41.0	21.2	-106.74	-1,841.9	2,421.7	841.1	779.0	62.08	13.549	
13,800.0	11,739.0	13,717.2	11,988.3	41.3	22.3	-106.51	-1,987.6	2,433.7	847.8	784.6	63.26	13.402	
13,900.0	11,739.0	13,877.8	11,991.1	41.6	23.4	-106.61	-2,148.0	2,439.0	851.6	787.4	64.25	13.254	
14,000.0	11,739.0	13,992.3	11,998.2	41.9	24.0	-107.17	-2,262.2	2,434.5	849.2	784.2	64.98	13.068	
14,100.0	11,739.0	14,090.0	11,999.5	42.3	24.6	-107.34	-2,359.7	2,430.7	845.2	779.4	65.80	12.844	
14,200.0	11,739.0	14,169.5	11,999.4	42.6	25.1	-107.37	-2,439.2	2,429.6	843.2	776.5	66.66	12.649	
14,236.5	11,739.0	14,199.4	11,999.5	42.8	25.3	-107.38	-2,469.1	2,429.7	843.1	776.1	66.98	12.587	
14,300.0	11,739.0	14,254.1	11,999.8	43.0	25.6	-107.39	-2,523.8	2,430.3	843.5	776.0	67.53	12.491	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1143-r.5 MWD+IFR1+MS, 11259-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)			
14,400.0	11,739.0	14,360.1	12,000.5	43.4	26.3	-107.43	-2,629.8	2,431.4	844.0	775.6	68.44	12.333	
14,500.0	11,739.0	14,458.8	12,000.2	43.7	26.9	-107.39	-2,728.6	2,432.7	844.5	775.2	69.37	12.175	
14,600.0	11,739.0	14,561.8	11,999.9	44.1	27.5	-107.37	-2,831.5	2,433.7	844.8	774.4	70.32	12.013	
14,700.0	11,739.0	14,663.6	12,000.5	44.5	28.2	-107.41	-2,933.3	2,434.3	844.9	773.6	71.29	11.852	
14,800.0	11,739.0	14,768.1	12,000.2	44.9	28.8	-107.40	-3,037.9	2,434.6	844.5	772.2	72.28	11.684	
14,900.0	11,739.0	14,873.1	11,999.5	45.3	29.5	-107.37	-3,142.9	2,434.5	843.6	770.3	73.29	11.511	
15,000.0	11,739.0	14,978.1	11,998.8	45.8	30.2	-107.35	-3,247.9	2,433.8	842.1	767.8	74.31	11.332	
15,100.0	11,739.0	15,073.3	11,997.2	46.2	30.8	-107.27	-3,343.0	2,433.2	840.4	765.1	75.36	11.153	
15,167.5	11,739.0	15,130.4	11,996.6	46.5	31.2	-107.23	-3,400.1	2,433.4	839.9	763.9	76.06	11.043	
15,200.0	11,739.0	15,156.5	11,996.4	46.6	31.4	-107.22	-3,426.2	2,433.7	840.1	763.7	76.40	10.996	
15,300.0	11,739.0	15,259.9	11,996.2	47.1	32.1	-107.18	-3,529.6	2,435.6	841.2	763.7	77.48	10.857	
15,400.0	11,739.0	15,369.8	11,995.2	47.6	32.8	-107.12	-3,639.5	2,436.3	840.9	762.3	78.58	10.700	
15,500.0	11,739.0	15,465.0	11,993.7	48.0	33.4	-107.03	-3,734.6	2,436.7	840.3	760.6	79.68	10.545	
15,600.0	11,739.0	15,570.0	11,992.9	48.5	34.2	-106.98	-3,839.6	2,437.1	839.8	759.0	80.81	10.393	
15,700.0	11,739.0	15,670.0	11,992.4	49.0	34.8	-106.96	-3,939.7	2,437.0	838.9	757.0	81.93	10.239	
15,772.7	11,739.0	15,735.7	11,992.3	49.3	35.3	-106.96	-4,005.3	2,437.2	838.6	755.8	82.74	10.135	
15,800.0	11,739.0	15,761.1	11,992.4	49.5	35.5	-106.97	-4,030.8	2,437.4	838.6	755.6	83.05	10.098	
15,900.0	11,739.0	15,869.4	11,992.7	50.0	36.2	-107.00	-4,139.0	2,437.4	838.1	753.9	84.20	9.954	
15,971.1	11,739.0	15,934.1	11,993.1	50.3	36.7	-107.03	-4,203.7	2,437.5	837.9	752.9	85.02	9.856	
16,000.0	11,739.0	15,962.5	11,993.4	50.5	36.9	-107.05	-4,232.2	2,437.6	837.9	752.6	85.35	9.818	
16,100.0	11,739.0	16,064.8	11,993.9	51.0	37.6	-107.09	-4,334.4	2,437.9	837.7	751.2	86.51	9.683	
16,134.0	11,739.0	16,097.0	11,994.0	51.1	37.8	-107.10	-4,366.6	2,438.0	837.7	750.8	86.91	9.638	
16,200.0	11,739.0	16,159.4	11,994.6	51.5	38.2	-107.14	-4,429.1	2,438.4	837.8	750.1	87.68	9.555	
16,300.0	11,739.0	16,254.1	11,995.7	52.0	38.9	-107.20	-4,523.7	2,439.4	838.6	749.7	88.85	9.438	
16,400.0	11,739.0	16,349.1	11,997.1	52.5	39.6	-107.28	-4,618.8	2,440.9	839.9	749.9	90.03	9.329	
16,500.0	11,739.0	16,451.3	11,999.3	53.0	40.3	-107.40	-4,720.9	2,442.9	841.8	750.6	91.23	9.227	
16,600.0	11,739.0	16,560.5	12,001.2	53.6	41.1	-107.52	-4,830.1	2,443.4	842.1	749.6	92.46	9.108	
16,700.0	11,739.0	16,660.1	12,003.3	54.1	41.8	-107.66	-4,929.7	2,444.0	842.7	749.0	93.67	8.996	
16,800.0	11,739.0	16,756.2	12,004.9	54.7	42.4	-107.77	-5,025.7	2,444.4	843.0	748.1	94.89	8.884	
16,900.0	11,739.0	16,857.1	12,007.4	55.2	43.2	-107.92	-5,126.5	2,445.5	844.1	748.0	96.12	8.782	
17,000.0	11,739.0	16,956.8	12,008.6	55.8	43.9	-108.00	-5,226.2	2,446.2	844.6	747.2	97.36	8.675	
17,100.0	11,739.0	17,060.9	12,008.5	56.3	44.6	-107.97	-5,330.4	2,447.7	845.3	746.6	98.63	8.570	
17,200.0	11,739.0	17,163.1	12,007.7	56.9	45.4	-107.91	-5,432.6	2,448.7	845.3	745.4	99.91	8.461	
17,300.0	11,739.0	17,267.5	12,008.5	57.5	46.3	-108.01	-5,556.9	2,447.4	843.9	742.7	101.19	8.340	
17,400.0	11,739.0	17,387.2	12,007.9	58.1	47.0	-108.04	-5,656.6	2,444.8	840.7	738.2	102.46	8.205	
17,500.0	11,739.0	17,464.9	12,008.8	58.6	47.5	-108.12	-5,734.3	2,443.9	839.2	735.5	103.73	8.091	
17,600.0	11,739.0	17,564.1	12,009.9	59.2	48.2	-108.21	-5,833.5	2,444.0	839.1	734.1	105.01	7.990	
17,676.8	11,739.0	17,640.1	12,009.8	59.7	48.8	-108.20	-5,909.4	2,444.5	839.0	733.0	106.00	7.915	
17,700.0	11,739.0	17,662.6	12,009.8	59.8	49.0	-108.20	-5,931.9	2,444.6	839.0	732.7	106.30	7.893	
17,800.0	11,739.0	17,758.8	12,010.9	60.4	49.7	-108.28	-6,028.2	2,445.2	839.4	731.8	107.59	7.802	
17,900.0	11,739.0	17,860.1	12,012.4	61.0	50.4	-108.37	-6,129.4	2,445.9	839.9	731.0	108.89	7.713	
18,000.0	11,739.0	17,962.3	12,012.9	61.6	51.1	-108.41	-6,231.7	2,446.5	840.0	729.7	110.21	7.621	
18,100.0	11,739.0	18,056.6	12,014.1	62.2	51.8	-108.48	-6,325.9	2,447.2	840.4	728.9	111.51	7.537	
18,200.0	11,739.0	18,157.2	12,015.6	62.8	52.6	-108.57	-6,426.5	2,448.4	841.4	728.5	112.83	7.457	
18,300.0	11,739.0	18,257.3	12,016.6	63.4	53.3	-108.63	-6,526.6	2,449.1	841.8	727.6	114.15	7.374	
18,400.0	11,739.0	18,352.1	12,018.8	64.0	54.0	-108.76	-6,621.3	2,450.2	843.0	727.6	115.45	7.302	
18,500.0	11,739.0	18,455.8	12,019.8	64.6	54.7	-108.81	-6,725.0	2,451.7	844.1	727.3	116.80	7.227	
18,600.0	11,739.0	18,566.1	12,020.8	65.3	55.6	-108.87	-6,835.3	2,452.7	844.6	726.5	118.17	7.148	
18,685.5	11,739.0	18,648.9	12,021.2	65.8	56.2	-108.90	-6,918.2	2,452.7	844.2	724.9	119.31	7.076	
18,700.0	11,739.0	18,661.6	12,021.2	65.9	56.3	-108.91	-6,930.8	2,452.8	844.2	724.7	119.50	7.065	
18,800.0	11,739.0	18,769.0	12,021.4	66.5	57.0	-108.91	-7,038.2	2,453.6	844.4	723.5	120.87	6.986	
18,850.4	11,739.0	18,814.0	12,021.1	66.8	57.4	-108.90	-7,083.2	2,453.7	844.1	722.5	121.54	6.945	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #106H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 92-GYRO-NS, 1143-r.5 MWD+IFR1+MS, 11259-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)			
18,900.0	11,739.0	18,852.6	12,021.3	67.1	57.7	-108.91	-7,121.8	2,454.1	844.4	722.2	122.18	6.911	
19,000.0	11,739.0	18,958.9	12,022.6	67.8	58.5	-108.97	-7,228.1	2,456.0	845.9	722.3	123.55	6.846	
19,100.0	11,739.0	19,061.5	12,022.2	68.4	59.2	-108.93	-7,330.7	2,457.0	846.1	721.2	124.92	6.773	
19,200.0	11,739.0	19,153.4	12,022.2	69.0	59.9	-108.91	-7,422.5	2,458.3	846.8	720.5	126.26	6.706	
19,300.0	11,739.0	19,248.2	12,023.7	69.7	60.6	-108.99	-7,517.3	2,459.9	848.3	720.7	127.60	6.648	
19,400.0	11,739.0	19,375.8	12,023.6	70.3	61.5	-108.98	-7,645.0	2,460.8	848.3	719.2	129.05	6.573	
19,500.0	11,739.0	19,471.4	12,020.6	70.9	62.2	-108.80	-7,740.5	2,461.1	846.9	716.5	130.43	6.493	
19,561.7	11,739.0	19,525.2	12,019.3	71.3	62.6	-108.71	-7,794.2	2,461.6	846.7	715.4	131.27	6.450	
19,600.0	11,739.0	19,560.8	12,019.0	71.6	62.9	-108.69	-7,829.9	2,462.0	846.7	714.9	131.79	6.425	
19,700.0	11,739.0	19,661.9	12,019.1	72.2	63.6	-108.69	-7,931.0	2,463.0	847.0	713.9	133.18	6.360	
19,776.6	11,739.0	19,740.1	12,019.4	72.7	64.2	-108.71	-8,009.1	2,463.4	847.0	712.8	134.24	6.310	
19,800.0	11,739.0	19,759.7	12,019.5	72.9	64.4	-108.72	-8,028.7	2,463.5	847.1	712.5	134.55	6.296	
19,900.0	11,739.0	19,846.3	12,020.8	73.5	65.0	-108.78	-8,115.3	2,464.9	848.5	712.6	135.88	6.244	
20,000.0	11,739.0	19,942.4	12,023.3	74.2	65.7	-108.91	-8,211.4	2,466.9	850.6	713.4	137.24	6.198	
20,100.0	11,739.0	20,036.7	12,026.9	74.8	66.4	-109.10	-8,305.6	2,469.3	853.7	715.1	138.58	6.160	
20,200.0	11,739.0	20,154.8	12,030.3	75.5	67.3	-109.28	-8,423.6	2,471.5	855.7	715.7	140.06	6.110	
20,300.0	11,739.0	20,267.4	12,030.2	76.2	68.2	-109.27	-8,536.1	2,472.5	855.9	714.4	141.50	6.049	
20,382.6	11,739.0	20,346.3	12,030.5	76.7	68.7	-109.31	-8,615.1	2,472.5	855.6	712.9	142.64	5.998	
20,400.0	11,739.0	20,361.7	12,030.7	76.8	68.9	-109.31	-8,630.5	2,472.6	855.6	712.7	142.88	5.988	
20,500.0	11,739.0	20,457.8	12,031.6	77.5	69.6	-109.36	-8,726.6	2,473.5	856.2	712.0	144.27	5.935	
20,600.0	11,739.0	20,566.5	12,032.5	78.2	70.4	-109.42	-8,835.3	2,474.3	856.5	710.8	145.69	5.879	
20,654.5	11,739.0	20,618.2	12,032.7	78.5	70.8	-109.44	-8,887.0	2,474.3	856.4	709.9	146.45	5.847	
20,700.0	11,739.0	20,658.2	12,032.9	78.8	71.1	-109.45	-8,927.0	2,474.7	856.5	709.4	147.07	5.824	
20,800.0	11,739.0	20,759.9	12,033.3	79.5	71.8	-109.46	-9,028.6	2,475.9	857.2	708.7	148.48	5.773	
20,900.0	11,739.0	20,861.5	12,033.5	80.2	72.6	-109.47	-9,130.3	2,476.9	857.6	707.7	149.90	5.721	
21,000.0	11,739.0	20,961.5	12,033.9	80.8	73.3	-109.49	-9,230.3	2,477.7	857.8	706.5	151.31	5.669	
21,100.0	11,739.0	21,062.7	12,034.1	81.5	74.1	-109.50	-9,331.4	2,478.5	858.0	705.3	152.72	5.618	
21,200.0	11,739.0	21,171.9	12,035.2	82.2	74.9	-109.59	-9,440.6	2,478.2	857.5	703.3	154.15	5.563	
21,300.0	11,739.0	21,274.7	12,038.4	82.9	75.7	-109.84	-9,543.4	2,476.6	856.5	700.9	155.56	5.506	
21,400.0	11,739.0	21,380.0	12,040.0	83.5	76.5	-110.00	-9,648.7	2,474.8	854.7	697.8	156.97	5.445	
21,500.0	11,739.0	21,477.5	12,041.3	84.2	77.2	-110.14	-9,746.1	2,473.1	853.0	694.6	158.39	5.385	
21,600.0	11,739.0	21,577.3	12,043.3	84.9	77.9	-110.31	-9,845.8	2,471.5	851.5	691.7	159.80	5.328	
21,697.5	11,739.0	21,673.8	12,044.8	85.6	78.7	-110.47	-9,942.4	2,469.9	850.0	688.8	161.18	5.273	
21,700.0	11,739.0	21,676.3	12,044.9	85.6	78.7	-110.47	-9,944.9	2,469.9	849.9	688.7	161.22	5.272	
21,747.5	11,739.0	21,723.8	12,045.5	85.9	79.0	-110.53	-9,992.4	2,469.2	849.2	687.3	161.89	5.246 ES, SF	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 147-NS-GYRO-MS, 1211-MWD+IFR1+MS_CoP												Offset Well Error:	2.0 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)			
7,000.0	6,816.0	6,854.8	6,853.6	28.5	12.3	0.42	34.1	2,360.8	987.4	943.5	43.92	22.480	
7,100.0	6,914.0	6,952.8	6,951.5	29.0	12.5	0.50	32.9	2,357.9	964.8	920.2	44.62	21.623	
7,200.0	7,012.2	7,050.8	7,049.5	29.5	12.7	0.57	31.9	2,355.0	943.0	897.7	45.31	20.813	
7,300.0	7,110.6	7,150.5	7,149.2	29.9	12.9	0.64	31.0	2,351.9	922.0	876.0	45.98	20.052	
7,400.0	7,209.1	7,237.7	7,236.3	30.4	13.1	0.70	30.2	2,349.6	902.2	855.5	46.76	19.293	
7,500.0	7,307.8	7,323.0	7,321.6	30.8	13.3	0.78	29.2	2,348.5	884.7	837.1	47.56	18.601	
7,600.0	7,406.6	7,419.1	7,417.7	31.3	13.5	0.88	27.8	2,348.3	869.0	820.7	48.26	18.007	
7,700.0	7,505.5	7,517.9	7,516.5	31.7	13.7	0.98	26.6	2,348.1	854.2	805.3	48.93	17.459	
7,800.0	7,604.6	7,610.9	7,609.5	32.1	13.8	1.03	26.0	2,348.1	840.6	790.9	49.64	16.932	
7,900.0	7,703.7	7,699.1	7,697.6	32.6	14.0	1.04	26.0	2,349.1	828.9	778.5	50.40	16.447	
8,000.0	7,803.0	7,789.7	7,788.2	33.0	14.2	1.02	26.5	2,351.3	819.3	768.2	51.12	16.027	
8,100.0	7,902.4	7,875.7	7,874.1	33.4	14.4	0.96	27.5	2,354.4	811.8	759.9	51.87	15.651	
8,200.0	8,001.9	7,964.5	7,962.8	33.8	14.6	0.82	29.6	2,359.2	807.0	754.4	52.58	15.346	
8,300.0	8,101.4	8,060.8	8,058.8	34.2	14.8	0.60	32.8	2,365.3	803.9	750.7	53.23	15.102	
8,400.0	8,201.1	8,164.7	8,162.5	34.6	15.0	0.38	36.1	2,371.8	801.7	747.9	53.81	14.898	
8,500.0	8,300.8	8,269.7	8,267.3	34.9	15.2	0.19	38.9	2,377.6	799.6	745.3	54.37	14.707	
8,600.0	8,400.5	8,366.8	8,364.2	35.3	15.4	0.03	41.2	2,382.8	798.3	743.3	54.97	14.522	
8,700.0	8,500.4	8,471.8	8,469.0	35.7	15.6	-0.15	43.8	2,388.5	797.9	742.4	55.50	14.375	
8,800.0	8,600.2	8,582.1	8,579.2	36.0	15.8	-0.34	46.5	2,393.2	797.2	741.2	55.97	14.243	
8,900.0	8,700.2	8,686.0	8,683.0	36.3	16.0	-0.60	50.2	2,396.8	796.6	740.1	56.47	14.107	
9,000.0	8,800.1	8,796.2	8,793.0	36.6	16.3	-0.98	55.6	2,399.8	796.2	739.3	56.89	13.996	
9,100.0	8,900.1	8,913.6	8,910.4	36.9	16.5	-1.26	59.4	2,400.6	794.6	737.4	57.20	13.891	
9,200.0	9,000.1	9,015.3	9,012.0	37.2	16.7	-1.43	61.7	2,400.0	792.6	735.0	57.63	13.753	
9,300.0	9,100.1	9,114.1	9,110.8	37.4	16.9	-1.54	63.2	2,399.7	791.7	733.7	58.02	13.645	
9,324.5	9,124.6	9,139.0	9,135.7	37.4	17.0	87.45	63.3	2,399.7	791.6	733.5	58.07	13.631	
9,400.0	9,200.1	9,218.3	9,215.0	37.4	17.1	87.44	63.4	2,399.2	791.2	733.1	58.14	13.610	
9,500.0	9,300.1	9,319.0	9,315.7	37.4	17.3	87.44	63.4	2,398.3	790.3	732.0	58.28	13.562	
9,556.9	9,356.9	9,369.2	9,365.9	37.4	17.4	87.46	63.2	2,398.1	790.0	731.6	58.43	13.522 CC	
9,600.0	9,400.1	9,412.0	9,408.7	37.4	17.5	87.48	62.8	2,398.3	790.2	731.7	58.49	13.509	
9,700.0	9,500.1	9,488.8	9,485.4	37.5	17.7	87.59	61.3	2,399.8	792.1	733.2	58.85	13.458	
9,800.0	9,600.1	9,587.3	9,583.9	37.5	17.9	87.81	58.5	2,403.2	795.3	736.3	59.01	13.478	
9,900.0	9,700.1	9,697.8	9,694.3	37.5	18.1	87.98	56.1	2,406.1	797.9	738.8	59.07	13.507	
10,000.0	9,800.1	9,809.8	9,806.3	37.5	18.3	88.10	54.6	2,407.3	798.9	739.8	59.12	13.515	
10,100.0	9,900.1	9,914.8	9,911.3	37.6	18.6	88.17	53.6	2,407.4	799.0	739.7	59.22	13.491	
10,200.0	10,000.1	10,018.5	10,014.9	37.6	18.8	88.20	53.2	2,406.8	798.4	739.0	59.34	13.454	
10,300.0	10,100.1	10,119.9	10,116.4	37.6	19.0	88.19	53.3	2,406.0	797.6	738.1	59.48	13.409	
10,400.0	10,200.1	10,221.8	10,218.3	37.6	19.2	88.16	53.6	2,404.9	796.5	736.9	59.62	13.360	
10,500.0	10,300.1	10,323.4	10,319.9	37.6	19.4	88.14	53.8	2,403.6	795.3	735.5	59.77	13.307	
10,600.0	10,400.1	10,425.1	10,421.5	37.7	19.6	88.15	53.7	2,402.1	793.8	733.9	59.91	13.250	
10,700.0	10,500.1	10,520.2	10,516.6	37.7	19.8	88.15	53.6	2,400.8	792.4	732.3	60.12	13.182	
10,800.0	10,600.1	10,614.2	10,610.6	37.7	20.0	88.13	53.9	2,400.3	791.9	731.6	60.33	13.125	
10,861.9	10,661.9	10,674.5	10,670.9	37.7	20.1	88.11	54.3	2,400.2	791.9	731.4	60.45	13.100	
10,900.0	10,700.1	10,712.5	10,708.9	37.7	20.2	88.09	54.4	2,400.2	791.9	731.4	60.51	13.086	
11,000.0	10,800.1	10,813.3	10,809.7	37.7	20.4	88.06	54.9	2,400.2	791.8	731.2	60.67	13.052	
11,040.4	10,840.5	10,853.0	10,849.5	37.8	20.5	88.04	55.1	2,400.2	791.8	731.1	60.74	13.036	
11,100.0	10,900.1	10,911.0	10,907.4	37.8	20.6	88.05	55.0	2,400.2	791.9	731.0	60.85	13.013	
11,200.0	11,000.1	10,994.0	10,990.3	37.8	20.8	88.29	51.8	2,401.3	793.1	731.9	61.16	12.968	
11,300.0	11,100.1	11,081.1	11,076.1	37.8	21.0	89.29	38.0	2,404.3	796.2	734.8	61.42	12.964	
11,400.0	11,200.1	11,164.0	11,154.9	37.8	21.1	91.10	12.8	2,408.7	801.8	740.1	61.69	12.998	
11,461.5	11,261.5	11,229.7	11,214.8	37.8	21.3	93.01	-14.1	2,411.9	806.1	744.4	61.73	13.060	
11,475.0	11,275.1	11,246.2	11,229.5	37.8	21.3	-86.00	-21.6	2,412.5	807.0	745.4	61.63	13.094	
11,500.0	11,300.0	11,276.1	11,255.9	37.9	21.3	-84.92	-35.7	2,413.3	808.6	747.0	61.61	13.123	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 147-NS-GYRO-MS, 1211-MWD+IFR1+MS_CoP												Offset Well Error:	2.0 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)			
11,525.0	11,324.9	11,305.9	11,281.8	37.9	21.4	-83.93	-50.2	2,413.7	809.9	748.4	61.59	13.150	
11,550.0	11,349.6	11,331.1	11,303.6	37.9	21.5	-83.15	-62.9	2,413.9	811.2	749.6	61.61	13.167	
11,575.0	11,374.0	11,356.4	11,325.4	37.9	21.5	-82.45	-75.9	2,414.0	812.3	750.6	61.62	13.181	
11,600.0	11,398.1	11,381.1	11,346.4	37.9	21.6	-81.84	-88.9	2,414.1	813.2	751.6	61.65	13.192	
11,625.0	11,421.9	11,404.8	11,366.3	37.9	21.6	-81.34	-101.5	2,414.1	814.0	752.4	61.68	13.198	
11,650.0	11,445.2	11,424.6	11,383.0	37.9	21.7	-80.96	-112.4	2,414.1	814.8	753.0	61.75	13.195	
11,675.0	11,468.0	11,447.0	11,401.4	37.9	21.7	-80.60	-125.0	2,414.1	815.5	753.7	61.80	13.196	
11,700.0	11,490.3	11,463.8	11,415.2	37.9	21.7	-80.36	-134.8	2,414.3	816.2	754.3	61.89	13.186	
11,725.0	11,511.9	11,483.0	11,430.5	37.9	21.8	-80.13	-146.2	2,414.4	816.8	754.8	61.97	13.180	
11,750.0	11,532.8	11,503.0	11,446.2	37.9	21.8	-79.95	-158.6	2,414.7	817.4	755.3	62.05	13.174	
11,775.0	11,553.0	11,524.3	11,462.8	37.9	21.9	-79.81	-172.1	2,415.0	817.9	755.7	62.11	13.168	
11,800.0	11,572.4	11,545.7	11,479.1	37.9	21.9	-79.74	-185.9	2,415.3	818.2	756.0	62.18	13.160	
11,825.0	11,590.9	11,567.1	11,495.0	37.9	22.0	-79.73	-200.1	2,415.6	818.5	756.2	62.24	13.150	
11,850.0	11,608.6	11,588.6	11,510.7	37.9	22.0	-79.76	-214.9	2,416.0	818.6	756.3	62.31	13.138	
11,875.0	11,625.3	11,613.7	11,528.4	37.9	22.1	-79.86	-232.7	2,416.2	818.5	756.2	62.35	13.128	
11,900.0	11,641.0	11,638.7	11,545.6	37.9	22.1	-80.04	-250.8	2,416.4	818.2	755.8	62.39	13.115	
11,925.0	11,655.6	11,661.6	11,560.9	37.9	22.2	-80.27	-267.8	2,416.5	817.7	755.3	62.45	13.095	
11,950.0	11,669.2	11,683.1	11,575.0	37.9	22.2	-80.54	-284.2	2,416.6	817.1	754.6	62.51	13.071	
11,975.0	11,681.6	11,704.7	11,588.6	37.9	22.3	-80.87	-300.8	2,416.6	816.4	753.8	62.58	13.046	
12,000.0	11,692.9	11,726.2	11,601.9	37.9	22.3	-81.26	-317.7	2,416.7	815.6	752.9	62.64	13.021	
12,025.0	11,703.0	11,745.2	11,613.3	37.9	22.4	-81.65	-333.0	2,416.8	814.7	752.0	62.71	12.992	
12,050.0	11,712.0	11,761.8	11,622.8	38.0	22.4	-82.03	-346.6	2,416.9	813.9	751.1	62.79	12.962	
12,075.0	11,719.6	11,784.7	11,635.4	38.0	22.5	-82.56	-365.7	2,417.2	813.1	750.3	62.83	12.941	
12,100.0	11,726.0	11,809.6	11,648.5	38.0	22.5	-83.17	-386.8	2,417.3	812.2	749.3	62.86	12.921	
12,125.0	11,731.2	11,832.5	11,660.0	38.0	22.6	-83.79	-406.7	2,417.4	811.2	748.3	62.89	12.899	
12,150.0	11,735.0	11,851.4	11,668.9	38.0	22.6	-84.35	-423.3	2,417.4	810.2	747.3	62.93	12.874	
12,175.0	11,737.6	11,872.6	11,678.1	38.0	22.7	-84.97	-442.5	2,417.5	809.3	746.3	62.96	12.853	
12,200.0	11,738.9	11,894.7	11,686.7	38.1	22.8	-85.61	-462.8	2,417.5	808.4	745.4	62.98	12.835	
12,211.5	11,739.0	11,903.1	11,689.7	38.1	22.8	-85.86	-470.7	2,417.5	808.0	745.0	63.00	12.826	
12,300.0	11,739.0	11,984.0	11,712.3	38.2	23.0	-87.46	-548.2	2,417.4	805.8	742.7	63.08	12.773	
12,400.0	11,739.0	12,086.1	11,730.7	38.3	23.3	-88.77	-648.7	2,417.1	804.2	741.0	63.24	12.717	
12,500.0	11,739.0	12,174.5	11,735.4	38.4	23.5	-89.10	-736.9	2,416.7	803.0	739.6	63.38	12.669	
12,526.8	11,739.0	12,197.1	11,735.5	38.4	23.6	-89.11	-759.5	2,416.8	802.9	739.4	63.48	12.647	
12,600.0	11,739.0	12,260.7	11,734.3	38.5	23.8	-89.02	-823.1	2,417.6	803.4	739.6	63.78	12.596	
12,700.0	11,739.0	12,389.0	11,730.3	38.7	24.2	-88.73	-951.3	2,417.2	802.4	738.2	64.21	12.498	
12,800.0	11,739.0	12,482.5	11,728.5	38.8	24.5	-88.61	-1,044.7	2,415.7	800.2	735.6	64.65	12.377	
12,860.0	11,739.0	12,530.4	11,728.2	39.0	24.7	-88.58	-1,092.7	2,415.6	799.8	734.8	64.93	12.317	
12,900.0	11,739.0	12,565.4	11,728.3	39.0	24.8	-88.59	-1,127.6	2,416.0	799.9	734.8	65.12	12.284	
13,000.0	11,739.0	12,663.6	11,728.5	39.2	25.2	-88.60	-1,225.8	2,417.4	800.7	735.1	65.62	12.202	
13,100.0	11,739.0	12,766.9	11,729.5	39.4	25.6	-88.68	-1,329.1	2,419.0	801.5	735.4	66.15	12.117	
13,200.0	11,739.0	12,874.8	11,731.0	39.7	26.0	-88.78	-1,437.0	2,419.4	801.3	734.6	66.71	12.012	
13,300.0	11,739.0	12,976.0	11,733.2	39.9	26.5	-88.94	-1,538.1	2,419.5	800.7	733.4	67.29	11.899	
13,400.0	11,739.0	13,077.8	11,736.4	40.2	26.9	-89.17	-1,640.0	2,419.5	799.9	732.0	67.90	11.780	
13,500.0	11,739.0	13,176.6	11,739.9	40.4	27.4	-89.42	-1,738.7	2,419.3	799.0	730.4	68.54	11.656	
13,573.3	11,739.0	13,244.0	11,742.2	40.6	27.8	-89.59	-1,806.0	2,419.4	798.6	729.6	69.05	11.566	
13,600.0	11,739.0	13,267.5	11,742.4	40.7	27.9	-89.60	-1,829.5	2,419.6	798.7	729.5	69.24	11.535	
13,700.0	11,739.0	13,359.0	11,741.1	41.0	28.4	-89.51	-1,921.0	2,421.1	799.7	729.7	70.00	11.424	
13,800.0	11,739.0	13,458.0	11,739.8	41.3	28.9	-89.41	-2,020.0	2,423.3	801.3	730.5	70.79	11.320	
13,900.0	11,739.0	13,561.7	11,738.4	41.6	29.5	-89.32	-2,123.6	2,425.4	802.7	731.1	71.61	11.209	
14,000.0	11,739.0	13,665.1	11,736.7	41.9	30.1	-89.20	-2,227.0	2,427.0	803.6	731.1	72.47	11.088	
14,100.0	11,739.0	13,752.9	11,735.3	42.3	30.7	-89.10	-2,314.8	2,428.8	805.0	731.7	73.34	10.976	
14,200.0	11,739.0	13,852.8	11,735.0	42.6	31.3	-89.07	-2,414.6	2,431.8	807.4	733.1	74.22	10.877	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 147-NS-GYRO-MS, 1211-MWD+IFR1+MS, CoP												Offset Well Error:	2.0 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)			
14,300.0	11,739.0	13,948.9	11,735.4	43.0	31.8	-89.11	-2,510.7	2,434.7	809.8	734.7	75.12	10.780	
14,400.0	11,739.0	14,076.9	11,735.9	43.4	32.7	-89.15	-2,638.7	2,436.5	810.4	734.3	76.07	10.654	
14,500.0	11,739.0	14,177.6	11,736.3	43.7	33.3	-89.17	-2,739.3	2,436.4	809.7	732.6	77.02	10.512	
14,600.0	11,739.0	14,277.8	11,736.7	44.1	34.0	-89.20	-2,839.5	2,436.1	808.7	730.7	78.00	10.368	
14,700.0	11,739.0	14,384.0	11,737.2	44.5	34.7	-89.23	-2,945.7	2,435.8	807.8	728.8	79.00	10.225	
14,800.0	11,739.0	14,490.7	11,737.6	44.9	35.4	-89.26	-3,052.4	2,434.1	805.5	725.5	80.01	10.067	
14,900.0	11,739.0	14,583.4	11,737.9	45.3	36.0	-89.28	-3,145.1	2,432.7	803.3	722.3	81.06	9.911	
15,000.0	11,739.0	14,680.4	11,738.3	45.8	36.7	-89.31	-3,242.1	2,432.2	802.2	720.1	82.12	9.769	
15,092.8	11,739.0	14,763.7	11,738.6	46.2	37.3	-89.33	-3,325.4	2,432.0	801.4	718.3	83.12	9.642	
15,100.0	11,739.0	14,769.7	11,738.6	46.2	37.3	-89.33	-3,331.5	2,432.0	801.4	718.2	83.20	9.633	
15,200.0	11,739.0	14,854.7	11,738.5	46.6	37.9	-89.32	-3,416.4	2,433.5	802.5	718.2	84.28	9.522	
15,300.0	11,739.0	14,945.4	11,738.9	47.1	38.6	-89.35	-3,507.0	2,436.6	805.3	719.9	85.37	9.433	
15,400.0	11,739.0	15,055.5	11,739.7	47.6	39.4	-89.41	-3,617.1	2,440.6	808.3	721.7	86.52	9.342	
15,500.0	11,739.0	15,191.8	11,740.7	48.0	40.4	-89.48	-3,753.4	2,441.2	808.1	720.4	87.67	9.218	
15,600.0	11,739.0	15,283.0	11,741.1	48.5	41.1	-89.51	-3,844.6	2,440.3	806.4	717.6	88.84	9.077	
15,700.0	11,739.0	15,394.4	11,741.5	49.0	41.9	-89.53	-3,955.9	2,438.4	804.1	714.0	90.01	8.933	
15,800.0	11,739.0	15,487.8	11,741.8	49.5	42.6	-89.55	-4,049.3	2,436.4	801.3	710.1	91.20	8.786	
15,885.9	11,739.0	15,557.0	11,741.9	49.9	43.1	-89.56	-4,118.5	2,436.2	800.4	708.2	92.24	8.677	
15,900.0	11,739.0	15,568.3	11,741.9	50.0	43.2	-89.56	-4,129.8	2,436.3	800.4	708.0	92.41	8.662	
16,000.0	11,739.0	15,651.0	11,742.1	50.5	43.8	-89.58	-4,212.5	2,438.0	801.9	708.3	93.60	8.567	
16,100.0	11,739.0	15,752.5	11,742.6	51.0	44.6	-89.61	-4,313.9	2,441.1	804.3	709.4	94.83	8.481	
16,200.0	11,739.0	15,848.1	11,742.9	51.5	45.3	-89.64	-4,409.5	2,444.2	806.9	710.8	96.07	8.399	
16,300.0	11,739.0	15,946.5	11,743.3	52.0	46.1	-89.67	-4,507.9	2,447.9	810.0	712.7	97.32	8.323	
16,400.0	11,739.0	16,070.5	11,744.1	52.5	47.1	-89.72	-4,631.8	2,450.7	811.5	712.9	98.63	8.228	
16,500.0	11,739.0	16,175.7	11,744.5	53.0	47.9	-89.76	-4,737.0	2,450.7	810.9	711.0	99.90	8.116	
16,600.0	11,739.0	16,275.8	11,745.1	53.6	48.7	-89.79	-4,837.1	2,450.9	810.5	709.3	101.19	8.010	
16,700.0	11,739.0	16,374.5	11,745.6	54.1	49.4	-89.83	-4,935.8	2,451.0	809.9	707.4	102.48	7.903	
16,800.0	11,739.0	16,476.7	11,746.3	54.7	50.2	-89.88	-5,038.0	2,451.2	809.5	705.7	103.79	7.799	
16,900.0	11,739.0	16,582.8	11,746.8	55.2	51.1	-89.91	-5,144.1	2,450.8	808.4	703.3	105.10	7.692	
17,000.0	11,739.0	16,687.3	11,747.4	55.8	51.9	-89.96	-5,248.6	2,449.7	806.7	700.3	106.42	7.581	
17,100.0	11,739.0	16,791.3	11,747.6	56.3	52.8	-89.97	-5,352.6	2,447.9	804.4	696.6	107.74	7.466	
17,200.0	11,739.0	16,882.3	11,747.3	56.9	53.5	-89.95	-5,443.5	2,446.8	802.4	693.4	109.10	7.355	
17,300.0	11,739.0	16,973.6	11,746.7	57.5	54.2	-89.91	-5,534.9	2,446.6	801.6	691.2	110.45	7.258	
17,355.6	11,739.0	17,026.9	11,746.4	57.8	54.6	-89.89	-5,588.2	2,446.9	801.6	690.4	111.20	7.208	
17,400.0	11,739.0	17,071.1	11,746.2	58.1	55.0	-89.87	-5,632.3	2,447.2	801.6	689.8	111.80	7.170	
17,500.0	11,739.0	17,180.7	11,745.6	58.6	55.9	-89.83	-5,741.9	2,447.0	800.8	687.6	113.17	7.076	
17,600.0	11,739.0	17,275.6	11,745.2	59.2	56.7	-89.80	-5,836.8	2,447.0	800.0	685.5	114.54	6.984	
17,700.0	11,739.0	17,377.7	11,744.8	59.8	57.5	-89.77	-5,938.9	2,447.0	799.4	683.4	115.92	6.896	
17,800.0	11,739.0	17,472.1	11,744.5	60.4	58.2	-89.75	-6,033.3	2,446.8	798.6	681.3	117.30	6.808	
17,804.4	11,739.0	17,475.7	11,744.5	60.4	58.3	-89.75	-6,037.0	2,446.9	798.6	681.2	117.36	6.805	
17,900.0	11,739.0	17,557.7	11,744.2	61.0	58.9	-89.73	-6,119.0	2,448.3	799.6	680.9	118.66	6.738	
18,000.0	11,739.0	17,656.6	11,743.8	61.6	59.8	-89.70	-6,217.7	2,450.8	801.5	681.4	120.06	6.675	
18,100.0	11,739.0	17,757.6	11,743.4	62.2	60.6	-89.68	-6,318.8	2,453.1	803.1	681.6	121.47	6.612	
18,200.0	11,739.0	17,857.3	11,743.7	62.8	61.4	-89.69	-6,418.4	2,455.6	805.0	682.1	122.88	6.551	
18,300.0	11,739.0	17,963.5	11,744.6	63.4	62.3	-89.76	-6,524.6	2,457.8	806.4	682.1	124.30	6.487	
18,400.0	11,739.0	18,063.4	11,746.4	64.0	63.1	-89.89	-6,624.5	2,459.3	807.2	681.5	125.71	6.421	
18,500.0	11,739.0	18,160.0	11,748.1	64.6	63.9	-90.01	-6,721.0	2,461.1	808.4	681.3	127.11	6.360	
18,600.0	11,739.0	18,254.1	11,749.1	65.3	64.7	-90.08	-6,815.1	2,463.3	810.2	681.6	128.51	6.304	
18,700.0	11,739.0	18,353.1	11,749.0	65.9	65.5	-90.07	-6,914.1	2,466.2	812.5	682.5	129.95	6.252	
18,800.0	11,739.0	18,459.6	11,748.8	66.5	66.4	-90.05	-7,020.6	2,469.0	814.4	683.0	131.41	6.198	
18,900.0	11,739.0	18,560.2	11,748.8	67.1	67.2	-90.05	-7,121.1	2,471.0	815.8	682.9	132.85	6.140	
19,000.0	11,739.0	18,655.1	11,749.0	67.8	68.0	-90.07	-7,216.0	2,473.2	817.5	683.2	134.28	6.088	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #107H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 147-NS-GYRO-MS, 1211-MWD+IFR1+MS, CoP												Offset Well Error:	2.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,100.0	11,739.0	18,769.6	11,749.3	68.4	69.0	-90.09	-7,330.5	2,475.3	818.6	682.9	135.77	6.030	
19,200.0	11,739.0	18,876.6	11,749.0	69.0	69.9	-90.07	-7,437.4	2,475.6	818.2	681.0	137.23	5.962	
19,300.0	11,739.0	18,972.9	11,748.1	69.7	70.7	-90.00	-7,533.8	2,476.0	818.0	679.3	138.70	5.897	
19,397.1	11,739.0	19,068.7	11,747.5	70.3	71.5	-89.97	-7,629.5	2,476.4	817.7	677.6	140.11	5.836	
19,400.0	11,739.0	19,071.3	11,747.5	70.3	71.5	-89.96	-7,632.2	2,476.4	817.7	677.6	140.16	5.834	
19,500.0	11,739.0	19,168.6	11,747.2	70.9	72.3	-89.94	-7,729.4	2,477.5	818.2	676.6	141.62	5.777	
19,600.0	11,739.0	19,274.8	11,746.8	71.6	73.2	-89.92	-7,835.7	2,478.0	818.0	674.9	143.10	5.717	
19,700.0	11,739.0	19,375.2	11,746.3	72.2	74.1	-89.88	-7,936.1	2,478.2	817.6	673.0	144.58	5.655	
19,800.0	11,739.0	19,478.0	11,745.9	72.9	74.9	-89.86	-8,038.8	2,478.3	817.1	671.0	146.06	5.594	
19,900.0	11,739.0	19,578.8	11,745.6	73.5	75.8	-89.83	-8,139.7	2,478.1	816.1	668.6	147.54	5.532	
20,000.0	11,739.0	19,677.7	11,745.2	74.2	76.6	-89.80	-8,238.5	2,477.9	815.3	666.3	149.02	5.471	
20,088.1	11,739.0	19,759.7	11,744.9	74.8	77.3	-89.78	-8,320.6	2,478.0	814.9	664.6	150.32	5.421	
20,100.0	11,739.0	19,770.6	11,744.9	74.8	77.4	-89.78	-8,331.4	2,478.1	814.9	664.4	150.50	5.415	
20,200.0	11,739.0	19,875.3	11,744.5	75.5	78.3	-89.76	-8,436.1	2,478.8	815.0	663.0	151.99	5.362	
20,300.0	11,739.0	19,972.1	11,744.2	76.2	79.1	-89.73	-8,532.9	2,479.1	814.6	661.2	153.48	5.308	
20,314.4	11,739.0	19,985.9	11,744.1	76.3	79.2	-89.73	-8,546.8	2,479.2	814.6	660.9	153.70	5.300	
20,400.0	11,739.0	20,067.4	11,743.8	76.8	79.9	-89.71	-8,628.3	2,480.0	814.9	659.9	154.97	5.258	
20,500.0	11,739.0	20,177.6	11,744.0	77.5	80.9	-89.72	-8,738.4	2,480.6	814.8	658.3	156.47	5.207	
20,600.0	11,739.0	20,277.9	11,744.7	78.2	81.7	-89.77	-8,838.7	2,480.5	814.0	656.1	157.97	5.153	
20,700.0	11,739.0	20,378.7	11,745.2	78.8	82.6	-89.80	-8,939.5	2,480.2	813.1	653.6	159.47	5.099	
20,800.0	11,739.0	20,472.4	11,745.7	79.5	83.4	-89.84	-9,033.2	2,480.4	812.6	651.7	160.97	5.048	
20,816.3	11,739.0	20,487.9	11,745.8	79.6	83.5	-89.84	-9,048.8	2,480.5	812.6	651.4	161.21	5.041	
20,900.0	11,739.0	20,571.0	11,746.2	80.2	84.2	-89.87	-9,131.8	2,481.2	812.8	650.3	162.47	5.003	
21,000.0	11,739.0	20,674.8	11,746.7	80.8	85.1	-89.91	-9,235.6	2,481.5	812.4	648.5	163.98	4.954	
21,100.0	11,739.0	20,774.8	11,747.3	81.5	85.9	-89.95	-9,335.6	2,481.9	812.2	646.7	165.49	4.908	
21,200.0	11,739.0	20,873.6	11,747.8	82.2	86.8	-89.99	-9,434.4	2,482.0	811.7	644.7	167.00	4.860	
21,227.5	11,739.0	20,899.2	11,748.0	82.4	87.0	-90.00	-9,460.0	2,482.2	811.6	644.2	167.42	4.848	
21,300.0	11,739.0	20,968.1	11,748.4	82.9	87.6	-90.03	-9,528.9	2,482.8	811.8	643.3	168.51	4.818	
21,400.0	11,739.0	21,070.9	11,749.0	83.5	88.5	-90.07	-9,631.7	2,483.9	812.3	642.2	170.03	4.777	
21,500.0	11,739.0	21,176.3	11,749.5	84.2	89.4	-90.10	-9,737.1	2,484.3	812.0	640.4	171.56	4.733	
21,600.0	11,739.0	21,271.7	11,749.8	84.9	90.2	-90.13	-9,832.5	2,484.5	811.6	638.5	173.07	4.689	
21,604.4	11,739.0	21,275.8	11,749.9	84.9	90.2	-90.13	-9,836.6	2,484.5	811.6	638.4	173.14	4.687	
21,697.5	11,739.0	21,365.0	11,750.2	85.6	91.0	-90.15	-9,925.8	2,485.4	811.8	637.3	174.55	4.651	
21,700.0	11,739.0	21,367.4	11,750.2	85.6	91.0	-90.15	-9,928.2	2,485.4	811.9	637.3	174.59	4.650	
21,747.5	11,739.0	21,413.4	11,750.2	85.9	91.4	-90.16	-9,974.2	2,486.0	812.1	636.8	175.31	4.633 ES, SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - ZIA HILLS 20 FEDERAL COM #108H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 47-GOOD GYRO, 1311-MWD+IFR1+MS_CoP												Offset Well Error:	2.0 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)			
8,200.0	8,001.9	7,934.7	7,925.0	33.8	14.3	-4.79	127.8	2,543.8	998.8	946.3	52.53	19.013	
8,300.0	8,101.4	8,042.0	8,031.9	34.2	14.5	-5.00	131.4	2,552.1	997.6	944.5	53.11	18.783	
8,400.0	8,201.1	8,149.1	8,138.7	34.6	14.8	-5.20	135.0	2,559.9	996.7	943.0	53.67	18.569	
8,500.0	8,300.8	8,259.1	8,248.4	34.9	15.0	-5.38	138.1	2,566.8	995.6	941.4	54.21	18.366	
8,600.0	8,400.5	8,367.8	8,357.0	35.3	15.2	-5.53	140.8	2,572.7	994.5	939.8	54.73	18.171	
8,700.0	8,500.4	8,473.2	8,462.2	35.7	15.4	-5.66	143.1	2,577.6	993.6	938.3	55.26	17.980	
8,800.0	8,600.2	8,584.1	8,573.0	36.0	15.7	-5.79	145.2	2,582.0	992.8	937.0	55.74	17.811	
8,900.0	8,700.2	8,690.4	8,679.2	36.3	15.9	-5.89	146.9	2,585.2	991.9	935.7	56.22	17.642	
9,000.0	8,800.1	8,795.4	8,784.2	36.6	16.1	-6.02	149.2	2,587.8	991.4	934.7	56.69	17.487	
9,077.2	8,877.3	8,875.5	8,864.3	36.8	16.3	-6.07	150.1	2,589.5	991.1	934.1	57.04	17.376 CC	
9,100.0	8,900.1	8,897.1	8,885.8	36.9	16.3	-6.09	150.3	2,590.0	991.2	934.0	57.16	17.341 ES	
9,200.0	9,000.1	8,997.6	8,986.3	37.2	16.5	-6.15	151.6	2,592.2	992.1	934.5	57.60	17.225	
9,300.0	9,100.1	9,113.9	9,102.6	37.4	16.8	-6.22	152.9	2,593.9	993.0	935.1	57.85	17.164	
9,324.5	9,124.6	9,143.8	9,132.5	37.4	16.8	82.77	153.1	2,594.0	993.1	935.2	57.87	17.161	
9,400.0	9,200.1	9,224.3	9,213.0	37.4	17.0	82.76	153.3	2,593.8	992.9	935.0	57.93	17.140	
9,437.0	9,237.1	9,256.7	9,245.4	37.4	17.1	82.76	153.2	2,593.7	992.8	934.8	58.02	17.111	
9,500.0	9,300.1	9,310.0	9,298.7	37.4	17.2	82.76	153.2	2,594.0	993.1	934.9	58.19	17.068	
9,600.0	9,400.1	9,395.8	9,384.5	37.4	17.4	82.77	153.3	2,595.4	994.8	936.4	58.43	17.026	
9,700.0	9,500.1	9,496.2	9,484.8	37.5	17.6	82.72	154.4	2,597.9	997.4	938.8	58.57	17.028	
9,800.0	9,600.1	9,594.7	9,583.3	37.5	17.8	82.57	157.3	2,599.9	999.8	941.0	58.72	17.025 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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 - BUCK 20 FEDERAL #2H (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD-CT-CMS, 8166-MWD - OWSG R1, 9092-MWD - OWSG R1												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	
9,300.0	9,100.1	11,531.0	9,227.9	37.4	45.1	3.03	-6.8	2,592.7	992.7	911.5	81.15	12.233	
9,324.5	9,124.6	11,529.8	9,227.9	37.4	45.1	91.96	-5.6	2,592.8	989.8	908.4	81.46	12.150	
9,400.0	9,200.1	11,526.2	9,228.1	37.4	45.1	91.75	-2.1	2,592.9	984.9	902.7	82.18	11.984	
9,427.1	9,227.2	11,525.0	9,228.2	37.4	45.0	91.68	-0.8	2,592.9	984.5	902.1	82.36	11.954 CC, ES	
9,500.0	9,300.1	11,521.6	9,228.3	37.4	45.0	91.48	2.6	2,593.0	987.2	904.6	82.61	11.950 SF	
9,600.0	9,400.1	11,517.0	9,228.5	37.4	44.9	91.21	7.2	2,593.1	999.5	917.1	82.42	12.127	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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:									
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	-8.49	268.1	-40.0	271.1	264.1	6.98	38.833	
100.0	100.0	97.0	97.0	3.1	3.1	-8.49	268.1	-40.0	271.1	263.8	7.22	37.537	
200.0	200.0	197.0	197.0	3.2	3.2	-8.49	268.1	-40.0	271.1	263.6	7.47	36.289	
300.0	300.0	297.0	297.0	3.4	3.4	-8.49	268.1	-40.0	271.1	263.4	7.71	35.142	
400.0	400.0	397.0	397.0	3.5	3.5	-8.49	268.1	-40.0	271.1	263.1	7.96	34.073	
500.0	500.0	497.0	497.0	3.6	3.6	-8.49	268.1	-40.0	271.1	262.9	8.20	33.074	
600.0	600.0	597.0	597.0	3.7	3.7	-8.49	268.1	-40.0	271.1	262.6	8.43	32.137	
700.0	700.0	697.0	697.0	3.9	3.9	-8.49	268.1	-40.0	271.1	262.4	8.67	31.256	
800.0	800.0	797.0	797.0	4.0	4.0	-8.49	268.1	-40.0	271.1	262.2	8.91	30.426	
900.0	900.0	897.0	897.0	4.1	4.1	-8.49	268.1	-40.0	271.1	261.9	9.14	29.643	
1,000.0	1,000.0	997.0	997.0	4.2	4.2	-8.49	268.1	-40.0	271.1	261.7	9.38	28.901	
1,100.0	1,100.0	1,097.0	1,097.0	4.3	4.3	-8.49	268.1	-40.0	271.1	261.5	9.61	28.199	
1,200.0	1,200.0	1,197.0	1,197.0	4.5	4.5	-8.49	268.1	-40.0	271.1	261.2	9.85	27.531	
1,300.0	1,300.0	1,297.0	1,297.0	4.6	4.6	-8.49	268.1	-40.0	271.1	261.0	10.08	26.897	
1,400.0	1,400.0	1,397.0	1,397.0	4.7	4.7	-8.49	268.1	-40.0	271.1	260.8	10.31	26.293	
1,500.0	1,500.0	1,497.0	1,497.0	4.8	4.8	-8.49	268.1	-40.0	271.1	260.5	10.54	25.717 CC, ES	
1,600.0	1,600.0	1,596.0	1,596.0	4.9	4.9	-98.19	268.0	-41.6	271.5	261.1	10.40	26.115	
1,700.0	1,699.8	1,694.3	1,694.2	5.1	5.0	-100.26	267.7	-46.6	273.0	262.3	10.68	25.551	
1,800.0	1,799.5	1,791.2	1,790.7	5.3	5.2	-103.59	267.3	-54.8	276.3	265.3	10.97	25.175	
1,900.0	1,898.7	1,886.1	1,884.9	5.6	5.5	-107.96	266.7	-66.0	282.5	271.2	11.28	25.044 SF	
2,000.0	1,997.5	1,978.3	1,976.0	5.9	5.8	-113.04	266.0	-79.8	293.1	281.5	11.63	25.204	
2,100.0	2,095.6	2,067.3	2,063.6	6.3	6.1	-118.44	265.2	-96.0	309.4	297.3	12.04	25.685	
2,200.0	2,193.1	2,156.3	2,150.7	6.6	6.4	-123.98	264.2	-114.2	332.1	319.6	12.54	26.474	
2,300.0	2,289.6	2,245.4	2,237.8	7.0	6.7	-129.18	263.2	-132.7	360.6	347.5	13.13	27.474	
2,400.0	2,385.8	2,333.7	2,324.2	7.3	7.0	-134.23	262.3	-151.1	393.5	379.7	13.73	28.647	
2,500.0	2,481.9	2,422.0	2,410.6	7.7	7.3	-138.56	261.3	-169.4	428.9	414.6	14.38	29.833	
2,600.0	2,578.0	2,510.3	2,496.9	8.0	7.6	-142.27	260.3	-187.7	466.5	451.4	15.05	30.990	
2,700.0	2,674.1	2,598.6	2,583.3	8.4	7.9	-145.47	259.4	-206.1	505.5	489.8	15.75	32.100	
2,800.0	2,770.3	2,686.9	2,669.7	8.8	8.2	-148.23	258.4	-224.4	545.9	529.4	16.47	33.150	
2,900.0	2,866.4	2,775.2	2,756.0	9.2	8.5	-150.63	257.5	-242.7	587.2	570.0	17.20	34.136	
3,000.0	2,962.5	2,863.5	2,842.4	9.6	8.9	-152.74	256.5	-261.1	629.3	611.3	17.95	35.058	
3,100.0	3,058.7	2,951.8	2,928.8	10.1	9.2	-154.58	255.5	-279.4	672.0	653.3	18.71	35.918	
3,200.0	3,154.8	3,040.1	3,015.1	10.5	9.6	-156.22	254.6	-297.7	715.3	695.8	19.48	36.717	
3,300.0	3,250.9	3,128.4	3,101.5	10.9	9.9	-157.67	253.6	-316.1	759.0	738.7	20.26	37.460	
3,400.0	3,347.0	3,216.7	3,187.9	11.4	10.3	-158.97	252.7	-334.4	803.1	782.0	21.05	38.150	
3,500.0	3,443.2	3,305.0	3,274.2	11.8	10.7	-160.14	251.7	-352.7	847.4	825.6	21.85	38.792	
3,600.0	3,539.3	3,393.3	3,360.6	12.3	11.0	-161.19	250.7	-371.1	892.1	869.4	22.65	39.388	
3,700.0	3,635.4	3,481.5	3,447.0	12.7	11.4	-162.15	249.8	-389.4	936.9	913.5	23.46	39.943	
3,800.0	3,731.5	3,569.8	3,533.4	13.2	11.8	-163.02	248.8	-407.7	982.0	957.7	24.27	40.460	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-3.40	251.4	-14.9	251.8	244.8	6.98	36.075		
100.0	100.0	97.0	97.0	3.1	3.1	-3.40	251.4	-14.9	251.8	244.6	7.22	34.869		
200.0	200.0	197.0	197.0	3.2	3.2	-3.40	251.4	-14.9	251.8	244.3	7.47	33.709		
300.0	300.0	297.0	297.0	3.4	3.4	-3.40	251.4	-14.9	251.8	244.1	7.71	32.642		
400.0	400.0	397.0	397.0	3.5	3.5	-3.40	251.4	-14.9	251.8	243.8	7.96	31.648		
500.0	500.0	497.0	497.0	3.6	3.6	-3.40	251.4	-14.9	251.8	243.6	8.20	30.718		
600.0	600.0	597.0	597.0	3.7	3.7	-3.40	251.4	-14.9	251.8	243.4	8.44	29.846		
700.0	700.0	697.0	697.0	3.9	3.9	-3.40	251.4	-14.9	251.8	243.1	8.68	29.026		
800.0	800.0	797.0	797.0	4.0	4.0	-3.40	251.4	-14.9	251.8	242.9	8.91	28.253		
900.0	900.0	897.0	897.0	4.1	4.1	-3.40	251.4	-14.9	251.8	242.7	9.15	27.523		
1,000.0	1,000.0	997.0	997.0	4.2	4.2	-3.40	251.4	-14.9	251.8	242.4	9.38	26.832		
1,100.0	1,100.0	1,097.0	1,097.0	4.3	4.3	-3.40	251.4	-14.9	251.8	242.2	9.62	26.178		
1,200.0	1,200.0	1,197.0	1,197.0	4.5	4.5	-3.40	251.4	-14.9	251.8	242.0	9.85	25.556		
1,300.0	1,300.0	1,297.0	1,297.0	4.6	4.6	-3.40	251.4	-14.9	251.8	241.7	10.09	24.965		
1,400.0	1,400.0	1,397.0	1,397.0	4.7	4.7	-3.40	251.4	-14.9	251.8	241.5	10.32	24.403		
1,500.0	1,500.0	1,497.0	1,497.0	4.8	4.8	-3.40	251.4	-14.9	251.8	241.3	10.55	23.866		
1,600.0	1,600.0	1,597.6	1,597.6	4.9	4.9	-93.18	251.1	-16.6	251.8	241.4	10.41	24.194		
1,617.1	1,617.0	1,614.7	1,614.7	4.9	4.9	-93.47	251.0	-17.2	251.8	241.3	10.45	24.082 CC		
1,700.0	1,699.8	1,697.4	1,697.3	5.1	5.1	-95.52	250.4	-21.7	251.9	241.2	10.69	23.559 ES		
1,800.0	1,799.5	1,795.9	1,795.3	5.3	5.3	-99.33	249.2	-30.0	253.1	242.2	10.98	23.063		
1,900.0	1,898.7	1,892.2	1,891.0	5.6	5.6	-104.40	247.6	-41.5	256.7	245.5	11.27	22.789 SF		
2,000.0	1,997.5	1,985.8	1,983.5	5.9	5.9	-110.36	245.6	-55.6	264.4	252.8	11.59	22.811		
2,100.0	2,095.6	2,078.9	2,075.1	6.3	6.1	-116.78	243.4	-71.6	277.5	265.5	11.99	23.150		
2,200.0	2,193.1	2,170.9	2,165.8	6.6	6.4	-122.98	241.2	-87.4	296.3	283.8	12.47	23.757		
2,300.0	2,289.6	2,261.6	2,255.1	7.0	6.7	-128.72	239.0	-103.0	320.9	307.8	13.05	24.596		
2,400.0	2,385.8	2,351.5	2,343.6	7.3	6.9	-134.20	236.8	-118.5	350.0	336.4	13.66	25.631		
2,500.0	2,481.9	2,441.4	2,432.2	7.7	7.2	-138.90	234.6	-133.9	382.0	367.7	14.30	26.701		
2,600.0	2,578.0	2,531.4	2,520.7	8.0	7.5	-142.91	232.5	-149.4	416.1	401.1	14.99	27.764		
2,700.0	2,674.1	2,621.3	2,609.3	8.4	7.8	-146.35	230.3	-164.9	451.8	436.1	15.69	28.797		
2,800.0	2,770.3	2,711.2	2,697.8	8.8	8.2	-149.30	228.1	-180.3	488.9	472.5	16.41	29.784		
2,900.0	2,866.4	2,801.1	2,786.4	9.2	8.5	-151.86	225.9	-195.8	527.0	509.8	17.15	30.720		
3,000.0	2,962.5	2,891.0	2,874.9	9.6	8.8	-154.09	223.8	-211.2	565.9	548.0	17.91	31.600		
3,100.0	3,058.7	2,980.9	2,963.5	10.1	9.2	-156.04	221.6	-226.7	605.5	586.8	18.67	32.424		
3,200.0	3,154.8	3,070.8	3,052.0	10.5	9.5	-157.75	219.4	-242.2	645.6	626.1	19.45	33.195		
3,300.0	3,250.9	3,160.8	3,140.6	10.9	9.9	-159.28	217.3	-257.6	686.2	665.9	20.23	33.915		
3,400.0	3,347.0	3,250.7	3,229.1	11.4	10.2	-160.63	215.1	-273.1	727.1	706.1	21.02	34.586		
3,500.0	3,443.2	3,340.6	3,317.7	11.8	10.6	-161.85	212.9	-288.6	768.3	746.5	21.82	35.212		
3,600.0	3,539.3	3,430.5	3,406.2	12.3	11.0	-162.94	210.7	-304.0	809.8	787.2	22.62	35.796		
3,700.0	3,635.4	3,520.4	3,494.8	12.7	11.3	-163.93	208.6	-319.5	851.6	828.1	23.43	36.341		
3,800.0	3,731.5	3,610.3	3,583.3	13.2	11.7	-164.83	206.4	-334.9	893.5	869.3	24.25	36.850		
3,900.0	3,827.7	3,700.2	3,671.9	13.6	12.1	-165.65	204.2	-350.4	935.6	910.5	25.07	37.327		
4,000.0	3,923.8	3,790.2	3,760.4	14.1	12.4	-166.40	202.0	-365.9	977.9	952.0	25.89	37.773		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	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	2.51	234.6	10.3	234.8	227.9	6.98	33.641	
100.0	100.0	98.0	98.0	3.1	3.1	2.51	234.6	10.3	234.8	227.6	7.22	32.509	
200.0	200.0	198.0	198.0	3.2	3.2	2.51	234.6	10.3	234.8	227.4	7.47	31.431	
300.0	300.0	298.0	298.0	3.4	3.4	2.51	234.6	10.3	234.8	227.1	7.72	30.437	
400.0	400.0	398.0	398.0	3.5	3.5	2.51	234.6	10.3	234.8	226.9	7.96	29.510	
500.0	500.0	498.0	498.0	3.6	3.6	2.51	234.6	10.3	234.8	226.6	8.20	28.643	
600.0	600.0	598.0	598.0	3.7	3.7	2.51	234.6	10.3	234.8	226.4	8.44	27.830	
700.0	700.0	698.0	698.0	3.9	3.9	2.51	234.6	10.3	234.8	226.2	8.68	27.065	
800.0	800.0	798.0	798.0	4.0	4.0	2.51	234.6	10.3	234.8	225.9	8.91	26.344	
900.0	900.0	898.0	898.0	4.1	4.1	2.51	234.6	10.3	234.8	225.7	9.15	25.664	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	2.51	234.6	10.3	234.8	225.4	9.39	25.020	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	2.51	234.6	10.3	234.8	225.2	9.62	24.409	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	2.51	234.6	10.3	234.8	225.0	9.85	23.830	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	2.51	234.6	10.3	234.8	224.7	10.09	23.279	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	2.51	234.6	10.3	234.8	224.5	10.32	22.754	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	2.51	234.6	10.3	234.8	224.3	10.55	22.253	
1,600.0	1,600.0	1,602.5	1,602.5	4.9	4.9	-87.34	233.7	8.7	233.8	223.3	10.44	22.385	
1,700.0	1,699.8	1,706.4	1,706.2	5.1	5.2	-89.91	230.8	3.9	230.8	220.1	10.76	21.458	
1,800.0	1,799.5	1,806.8	1,806.2	5.3	5.3	-94.01	226.4	-3.3	227.1	216.2	10.96	20.720	
1,900.0	1,898.7	1,904.7	1,903.8	5.6	5.5	-99.02	222.1	-10.6	225.0	213.8	11.24	20.020	
1,934.9	1,933.3	1,938.8	1,937.7	5.7	5.5	-100.97	220.5	-13.2	224.8	213.5	11.34	19.834 CC, ES	
2,000.0	1,997.5	2,001.9	2,000.6	5.9	5.7	-104.81	217.7	-17.9	225.5	214.0	11.52	19.578	
2,100.0	2,095.6	2,098.3	2,096.6	6.3	5.9	-111.16	213.4	-25.1	229.7	217.9	11.83	19.422 SF	
2,200.0	2,193.1	2,193.6	2,191.6	6.6	6.1	-117.78	209.1	-32.2	238.4	226.3	12.19	19.557	
2,300.0	2,289.6	2,287.9	2,285.5	7.0	6.4	-124.34	204.9	-39.3	252.5	239.8	12.64	19.968	
2,400.0	2,385.8	2,381.6	2,378.8	7.3	6.7	-130.64	200.6	-46.3	271.0	257.9	13.15	20.610	
2,500.0	2,481.9	2,475.2	2,472.2	7.7	6.9	-136.15	196.4	-53.3	292.6	278.9	13.71	21.336	
2,600.0	2,578.0	2,568.9	2,565.5	8.0	7.2	-140.92	192.2	-60.3	316.6	302.3	14.33	22.100	
2,700.0	2,674.1	2,662.6	2,658.8	8.4	7.5	-145.03	188.0	-67.3	342.5	327.5	14.95	22.914	
2,800.0	2,770.3	2,759.2	2,755.1	8.8	7.8	-148.58	184.1	-73.8	369.5	353.9	15.61	23.677	
2,900.0	2,866.4	2,857.1	2,852.8	9.2	8.1	-151.48	180.9	-79.1	396.8	380.5	16.31	24.334	
3,000.0	2,962.5	2,956.0	2,951.6	9.6	8.3	-153.84	178.6	-83.0	424.0	407.0	17.01	24.920	
3,100.0	3,058.7	3,055.8	3,051.4	10.1	8.6	-155.74	177.1	-85.4	450.7	433.0	17.72	25.439	
3,200.0	3,154.8	3,156.6	3,152.2	10.5	8.8	-157.27	176.6	-86.3	476.8	458.4	18.38	25.945	
3,300.0	3,250.9	3,253.3	3,248.9	10.9	8.9	-158.48	176.6	-86.3	502.5	483.5	18.96	26.496	
3,400.0	3,347.0	3,349.5	3,345.0	11.4	8.9	-159.58	176.6	-86.3	528.3	508.7	19.57	26.993	
3,500.0	3,443.2	3,445.6	3,441.2	11.8	9.0	-160.57	176.6	-86.3	554.3	534.2	20.19	27.462	
3,600.0	3,539.3	3,541.7	3,537.3	12.3	9.1	-161.47	176.6	-86.3	580.5	559.7	20.80	27.904	
3,700.0	3,635.4	3,637.9	3,633.4	12.7	9.2	-162.29	176.6	-86.3	606.8	585.4	21.43	28.321	
3,800.0	3,731.5	3,734.0	3,729.5	13.2	9.2	-163.05	176.6	-86.3	633.2	611.2	22.05	28.713	
3,900.0	3,827.7	3,830.1	3,825.7	13.6	9.3	-163.74	176.6	-86.3	659.7	637.0	22.68	29.083	
4,000.0	3,923.8	3,926.2	3,921.8	14.1	9.4	-164.39	176.6	-86.3	686.3	663.0	23.32	29.432	
4,100.0	4,019.9	4,022.4	4,017.9	14.6	9.5	-164.98	176.6	-86.3	712.9	689.0	23.96	29.761	
4,200.0	4,116.0	4,118.5	4,114.0	15.0	9.5	-165.53	176.6	-86.3	739.7	715.1	24.60	30.071	
4,300.0	4,212.2	4,214.6	4,210.2	15.5	9.6	-166.05	176.6	-86.3	766.5	741.2	25.24	30.364	
4,400.0	4,308.3	4,310.7	4,306.3	16.0	9.7	-166.53	176.6	-86.3	793.3	767.4	25.89	30.642	
4,500.0	4,404.4	4,406.9	4,402.4	16.4	9.8	-166.97	176.6	-86.3	820.2	793.6	26.54	30.904	
4,600.0	4,500.5	4,503.0	4,498.5	16.9	9.8	-167.39	176.6	-86.3	847.1	819.9	27.19	31.152	
4,700.0	4,596.7	4,599.1	4,594.7	17.4	9.9	-167.79	176.6	-86.3	874.1	846.2	27.85	31.387	
4,800.0	4,692.8	4,695.2	4,690.8	17.9	10.0	-168.16	176.6	-86.3	901.1	872.6	28.51	31.610	
4,900.0	4,788.9	4,791.4	4,786.9	18.4	10.1	-168.51	176.6	-86.3	928.1	898.9	29.17	31.821	
5,000.0	4,885.0	4,887.5	4,883.0	18.8	10.1	-168.83	176.6	-86.3	955.2	925.3	29.83	32.022	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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	4,981.2	4,983.6	4,979.2	19.3	10.2	-169.15	176.6	-86.3	982.3	951.8	30.49	32.212			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	9.24	217.7	35.4	220.6	213.6	6.98	31.604	
100.0	100.0	98.0	98.0	3.1	3.1	9.24	217.7	35.4	220.6	213.4	7.22	30.540	
200.0	200.0	198.0	198.0	3.2	3.2	9.24	217.7	35.4	220.6	213.1	7.47	29.529	
300.0	300.0	298.0	298.0	3.4	3.4	9.24	217.7	35.4	220.6	212.9	7.71	28.597	
400.0	400.0	398.0	398.0	3.5	3.5	9.24	217.7	35.4	220.6	212.7	7.96	27.728	
500.0	500.0	498.0	498.0	3.6	3.6	9.24	217.7	35.4	220.6	212.4	8.20	26.915	
600.0	600.0	598.0	598.0	3.7	3.7	9.24	217.7	35.4	220.6	212.2	8.44	26.153	
700.0	700.0	698.0	698.0	3.9	3.9	9.24	217.7	35.4	220.6	211.9	8.67	25.437	
800.0	800.0	798.0	798.0	4.0	4.0	9.24	217.7	35.4	220.6	211.7	8.91	24.762	
900.0	900.0	898.0	898.0	4.1	4.1	9.24	217.7	35.4	220.6	211.5	9.14	24.125	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	9.24	217.7	35.4	220.6	211.2	9.38	23.522	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	9.24	217.7	35.4	220.6	211.0	9.61	22.950	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	9.24	217.7	35.4	220.6	210.8	9.85	22.408	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	9.24	217.7	35.4	220.6	210.5	10.08	21.892	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	9.24	217.7	35.4	220.6	210.3	10.31	21.401	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	9.24	217.7	35.4	220.6	210.1	10.54	20.933 CC, ES	
1,600.0	1,600.0	1,595.9	1,595.9	4.9	4.9	-79.80	217.9	37.0	220.8	210.4	10.40	21.222	
1,700.0	1,699.8	1,693.8	1,693.7	5.1	5.1	-79.86	218.5	41.9	221.2	210.5	10.70	20.676	
1,800.0	1,799.5	1,791.7	1,791.2	5.3	5.3	-79.96	219.6	50.1	222.1	211.1	11.00	20.191	
1,900.0	1,898.7	1,891.5	1,890.5	5.6	5.5	-80.45	220.8	60.5	222.8	211.5	11.29	19.732	
2,000.0	1,997.5	1,991.4	1,989.8	5.9	5.7	-81.83	222.1	70.8	223.1	211.5	11.58	19.259	
2,100.0	2,095.6	2,091.0	2,088.8	6.3	6.0	-84.09	223.4	81.2	223.1	211.2	11.87	18.796	
2,200.0	2,193.1	2,190.2	2,187.5	6.6	6.2	-87.22	224.6	91.5	223.3	211.1	12.15	18.372	
2,300.0	2,289.6	2,289.0	2,285.7	7.0	6.5	-91.18	225.9	101.7	224.2	211.7	12.44	18.013	
2,400.0	2,385.8	2,387.4	2,383.7	7.3	6.8	-95.52	227.1	111.9	226.3	213.5	12.76	17.734	
2,500.0	2,481.9	2,485.9	2,481.6	7.7	7.1	-99.76	228.4	122.1	229.7	216.6	13.11	17.520	
2,600.0	2,578.0	2,584.4	2,579.5	8.0	7.4	-103.85	229.7	132.4	234.5	220.9	13.51	17.350	
2,700.0	2,674.1	2,682.8	2,677.4	8.4	7.7	-107.77	230.9	142.6	240.3	226.4	13.96	17.211	
2,800.0	2,770.3	2,781.3	2,775.4	8.8	8.0	-111.50	232.2	152.8	247.3	232.8	14.47	17.089	
2,900.0	2,866.4	2,879.8	2,873.3	9.2	8.4	-115.00	233.4	163.0	255.3	240.3	15.03	16.980	
3,000.0	2,962.5	2,978.2	2,971.2	9.6	8.7	-118.29	234.7	173.2	264.2	248.5	15.65	16.880	
3,100.0	3,058.7	3,076.7	3,069.1	10.1	9.1	-121.36	235.9	183.4	273.9	257.6	16.32	16.788	
3,200.0	3,154.8	3,175.2	3,167.1	10.5	9.4	-124.22	237.2	193.7	284.4	267.3	17.02	16.704	
3,300.0	3,250.9	3,273.6	3,265.0	10.9	9.8	-126.87	238.4	203.9	295.5	277.7	17.77	16.629	
3,400.0	3,347.0	3,372.1	3,362.9	11.4	10.1	-129.33	239.7	214.1	307.2	288.6	18.55	16.563	
3,500.0	3,443.2	3,470.5	3,460.8	11.8	10.5	-131.60	240.9	224.3	319.4	300.1	19.35	16.508	
3,600.0	3,539.3	3,569.0	3,558.8	12.3	10.8	-133.71	242.2	234.5	332.1	312.0	20.18	16.462	
3,700.0	3,635.4	3,667.5	3,656.7	12.7	11.2	-135.66	243.5	244.7	345.2	324.2	21.02	16.426	
3,800.0	3,731.5	3,765.9	3,754.6	13.2	11.6	-137.47	244.7	255.0	358.7	336.9	21.88	16.398	
3,900.0	3,827.7	3,864.4	3,852.5	13.6	11.9	-139.15	246.0	265.2	372.6	349.8	22.75	16.379	
4,000.0	3,923.8	3,962.9	3,950.5	14.1	12.3	-140.71	247.2	275.4	386.7	363.0	23.62	16.368	
4,100.0	4,019.9	4,061.3	4,048.4	14.6	12.7	-142.16	248.5	285.6	401.0	376.5	24.51	16.363 SF	
4,200.0	4,116.0	4,157.8	4,144.4	15.0	13.0	-143.49	249.7	295.5	415.7	390.4	25.38	16.384	
4,300.0	4,212.2	4,250.9	4,237.0	15.5	13.4	-144.80	250.7	303.8	431.6	405.4	26.24	16.450	
4,400.0	4,308.3	4,343.3	4,329.2	16.0	13.7	-146.13	251.5	310.6	449.0	421.9	27.11	16.561	
4,500.0	4,404.4	4,435.1	4,420.9	16.4	14.0	-147.48	252.2	315.9	467.9	439.9	27.98	16.721	
4,600.0	4,500.5	4,526.2	4,511.9	16.9	14.3	-148.82	252.7	319.7	488.2	459.4	28.84	16.931	
4,700.0	4,596.7	4,616.7	4,602.3	17.4	14.5	-150.15	252.9	322.0	510.1	480.5	29.67	17.193	
4,800.0	4,692.8	4,706.3	4,692.0	17.9	14.7	-151.45	253.1	323.0	533.6	503.1	30.46	17.516	
4,900.0	4,788.9	4,801.3	4,786.9	18.4	14.8	-152.78	253.1	323.0	558.1	526.9	31.19	17.897	
5,000.0	4,885.0	4,897.4	4,883.0	18.8	14.8	-154.01	253.1	323.0	583.0	551.0	31.91	18.269	
5,100.0	4,981.2	4,993.5	4,979.2	19.3	14.9	-155.14	253.1	323.0	608.0	575.4	32.62	18.637	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Rule Assigned: Distance				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		
5,200.0	5,077.3	5,089.7	5,075.3	19.8	14.9	-156.18	253.1	323.0	633.3	600.0	33.33	19.001		
5,300.0	5,173.4	5,185.8	5,171.4	20.3	15.0	-157.14	253.1	323.0	658.8	624.7	34.03	19.359		
5,400.0	5,269.6	5,281.9	5,267.6	20.8	15.0	-158.04	253.1	323.0	684.4	649.7	34.72	19.711		
5,500.0	5,365.7	5,378.0	5,363.7	21.3	15.1	-158.86	253.1	323.0	710.2	674.8	35.41	20.056		
5,600.0	5,461.8	5,474.2	5,459.8	21.8	15.1	-159.63	253.1	323.0	736.1	700.0	36.09	20.394		
5,700.0	5,557.9	5,570.3	5,555.9	22.3	15.2	-160.35	253.1	323.0	762.1	725.3	36.77	20.724		
5,800.0	5,654.1	5,666.4	5,652.1	22.7	15.2	-161.02	253.1	323.0	788.2	750.7	37.45	21.047		
5,900.0	5,750.2	5,762.5	5,748.2	23.2	15.3	-161.65	253.1	323.0	814.4	776.3	38.13	21.361		
6,000.0	5,846.3	5,858.7	5,844.3	23.7	15.3	-162.24	253.1	323.0	840.7	801.9	38.80	21.668		
6,100.0	5,942.4	5,954.8	5,940.4	24.2	15.4	-162.79	253.1	323.0	867.1	827.6	39.47	21.968		
6,124.5	5,966.0	5,978.4	5,964.0	24.3	15.4	-162.92	253.1	323.0	873.6	833.9	39.63	22.043		
6,200.0	6,038.6	6,051.0	6,036.6	24.7	15.5	-163.34	253.1	323.0	893.3	853.2	40.13	22.261		
6,300.0	6,135.1	6,147.4	6,133.1	25.2	15.5	-163.85	253.1	323.0	918.8	878.0	40.79	22.524		
6,400.0	6,231.7	6,244.1	6,229.7	25.7	15.6	-164.32	253.1	323.0	943.6	902.1	41.45	22.763		
6,500.0	6,328.6	6,340.9	6,326.6	26.2	15.6	-164.75	253.1	323.0	967.5	925.4	42.11	22.979		
6,600.0	6,425.7	6,438.0	6,423.7	26.6	15.7	-165.14	253.1	323.0	990.7	948.0	42.75	23.173		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	
0.0	0.0	0.0	0.0	3.0	3.0	16.76	201.0	60.5	209.9	202.9	6.98	30.070	
100.0	100.0	99.0	99.0	3.1	3.1	16.76	201.0	60.5	209.9	202.7	7.23	29.051	
200.0	200.0	199.0	199.0	3.2	3.2	16.76	201.0	60.5	209.9	202.4	7.47	28.096	
300.0	300.0	299.0	299.0	3.4	3.4	16.76	201.0	60.5	209.9	202.2	7.71	27.212	
400.0	400.0	399.0	399.0	3.5	3.5	16.76	201.0	60.5	209.9	202.0	7.95	26.390	
500.0	500.0	499.0	499.0	3.6	3.6	16.76	201.0	60.5	209.9	201.7	8.19	25.622	
600.0	600.0	599.0	599.0	3.7	3.7	16.76	201.0	60.5	209.9	201.5	8.43	24.902	
700.0	700.0	699.0	699.0	3.9	3.9	16.76	201.0	60.5	209.9	201.3	8.67	24.225	
800.0	800.0	799.0	799.0	4.0	4.0	16.76	201.0	60.5	209.9	201.0	8.90	23.588	
900.0	900.0	899.0	899.0	4.1	4.1	16.76	201.0	60.5	209.9	200.8	9.13	22.987	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	16.76	201.0	60.5	209.9	200.6	9.36	22.419	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	16.76	201.0	60.5	209.9	200.3	9.59	21.880	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	16.76	201.0	60.5	209.9	200.1	9.82	21.369	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	16.76	201.0	60.5	209.9	199.9	10.05	20.883	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	16.76	201.0	60.5	209.9	199.6	10.28	20.420	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	16.76	201.0	60.5	209.9	199.4	10.51	19.979 CC	
1,600.0	1,600.0	1,596.4	1,596.4	4.9	4.9	-72.27	201.1	62.1	210.0	199.6	10.38	20.232	
1,700.0	1,699.8	1,693.7	1,693.6	5.1	5.1	-72.34	201.6	67.1	210.3	199.6	10.69	19.668	
1,800.0	1,799.5	1,791.1	1,790.6	5.3	5.3	-72.45	202.3	75.3	210.8	199.8	11.00	19.152	
1,900.0	1,898.7	1,888.5	1,887.3	5.6	5.5	-72.60	203.3	86.7	211.4	200.1	11.32	18.679	
2,000.0	1,997.5	1,985.9	1,983.5	5.9	5.9	-72.79	204.6	101.5	212.3	200.7	11.64	18.240	
2,100.0	2,095.6	2,085.5	2,081.6	6.3	6.1	-73.34	206.1	118.7	212.9	201.0	11.96	17.797	
2,200.0	2,193.1	2,185.3	2,180.0	6.6	6.4	-74.80	207.6	135.9	212.6	200.4	12.29	17.308	
2,300.0	2,289.6	2,284.9	2,278.0	7.0	6.7	-77.18	209.1	153.2	211.7	199.1	12.60	16.803	
2,400.0	2,385.8	2,384.3	2,376.0	7.3	7.0	-80.02	210.6	170.4	210.8	197.9	12.90	16.337	
2,500.0	2,481.9	2,483.8	2,473.9	7.7	7.4	-82.88	212.1	187.6	210.4	197.2	13.21	15.926	
2,518.9	2,500.0	2,502.5	2,492.4	7.8	7.4	-83.42	212.4	190.8	210.4	197.2	13.27	15.854	
2,600.0	2,578.0	2,583.2	2,571.8	8.0	7.7	-85.73	213.6	204.8	210.6	197.1	13.53	15.563 ES	
2,700.0	2,674.1	2,682.7	2,669.8	8.4	8.1	-88.58	215.1	222.0	211.3	197.4	13.87	15.239	
2,800.0	2,770.3	2,782.1	2,767.7	8.8	8.4	-91.40	216.6	239.2	212.5	198.3	14.22	14.947	
2,900.0	2,866.4	2,881.6	2,865.6	9.2	8.8	-94.19	218.1	256.4	214.2	199.6	14.60	14.678	
3,000.0	2,962.5	2,981.0	2,963.6	9.6	9.2	-96.92	219.6	273.6	216.5	201.5	15.00	14.427	
3,100.0	3,058.7	3,080.4	3,061.5	10.1	9.6	-99.59	221.1	290.8	219.2	203.7	15.45	14.188	
3,200.0	3,154.8	3,179.9	3,159.4	10.5	10.0	-102.19	222.6	308.0	222.4	206.5	15.93	13.956	
3,300.0	3,250.9	3,279.3	3,257.3	10.9	10.3	-104.72	224.2	325.2	226.0	209.6	16.46	13.731	
3,400.0	3,347.0	3,378.8	3,355.3	11.4	10.7	-107.16	225.7	342.4	230.1	213.1	17.03	13.509	
3,500.0	3,443.2	3,478.2	3,453.2	11.8	11.2	-109.51	227.2	359.6	234.6	216.9	17.65	13.292	
3,600.0	3,539.3	3,577.6	3,551.1	12.3	11.6	-111.77	228.7	376.8	239.4	221.1	18.30	13.080	
3,700.0	3,635.4	3,677.1	3,649.1	12.7	12.0	-113.94	230.2	394.0	244.6	225.6	19.00	12.873	
3,800.0	3,731.5	3,776.5	3,747.0	13.2	12.4	-116.02	231.7	411.2	250.2	230.4	19.74	12.674	
3,900.0	3,827.7	3,876.0	3,844.9	13.6	12.8	-118.00	233.2	428.4	256.1	235.5	20.51	12.484	
4,000.0	3,923.8	3,975.4	3,942.9	14.1	13.2	-119.89	234.7	445.6	262.2	240.9	21.31	12.302	
4,100.0	4,019.9	4,074.8	4,040.8	14.6	13.6	-121.70	236.2	462.8	268.7	246.5	22.15	12.131	
4,200.0	4,116.0	4,174.3	4,138.7	15.0	14.1	-123.42	237.7	480.0	275.3	252.3	23.00	11.970	
4,300.0	4,212.2	4,273.7	4,236.6	15.5	14.5	-125.06	239.2	497.2	282.3	258.4	23.88	11.820	
4,400.0	4,308.3	4,373.2	4,334.6	16.0	14.9	-126.61	240.7	514.4	289.4	264.6	24.78	11.680	
4,500.0	4,404.4	4,472.6	4,432.5	16.4	15.4	-128.10	242.2	531.6	296.8	271.1	25.69	11.550	
4,600.0	4,500.5	4,572.0	4,530.4	16.9	15.8	-129.51	243.7	548.8	304.3	277.7	26.62	11.431	
4,700.0	4,596.7	4,670.9	4,627.8	17.4	16.2	-130.85	245.2	565.9	312.1	284.5	27.54	11.331	
4,800.0	4,692.8	4,768.6	4,724.1	17.9	16.6	-132.21	246.6	582.0	320.4	291.9	28.49	11.244	
4,900.0	4,788.9	4,866.1	4,820.4	18.4	17.0	-133.60	248.0	597.4	329.5	300.0	29.48	11.175	
5,000.0	4,885.0	4,963.4	4,916.6	18.8	17.4	-135.03	249.2	611.9	339.3	308.8	30.50	11.125	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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
5,100.0	4,981.2	5,060.5	5,012.7	19.3	17.9	-136.47	250.4	625.5	349.9	318.3	31.53	11.097	
5,200.0	5,077.3	5,157.4	5,108.7	19.8	18.3	-137.93	251.6	638.3	361.2	328.7	32.57	11.090 SF	
5,300.0	5,173.4	5,254.0	5,204.6	20.3	18.6	-139.37	252.6	650.3	373.4	339.8	33.63	11.104	
5,400.0	5,269.6	5,350.3	5,300.3	20.8	19.0	-140.81	253.6	661.4	386.5	351.8	34.69	11.140	
5,500.0	5,365.7	5,446.4	5,395.8	21.3	19.4	-142.23	254.5	671.8	400.4	364.6	35.76	11.197	
5,600.0	5,461.8	5,542.2	5,491.1	21.8	19.8	-143.62	255.3	681.2	415.2	378.4	36.82	11.275	
5,700.0	5,557.9	5,637.7	5,586.2	22.3	20.2	-144.99	256.1	689.9	430.8	393.0	37.88	11.373	
5,800.0	5,654.1	5,732.9	5,681.1	22.7	20.5	-146.31	256.7	697.7	447.4	408.5	38.93	11.492	
5,900.0	5,750.2	5,827.7	5,775.7	23.2	20.9	-147.60	257.4	704.8	464.8	424.9	39.97	11.630	
6,000.0	5,846.3	5,922.3	5,870.0	23.7	21.2	-148.85	257.9	711.0	483.2	442.2	40.99	11.787	
6,100.0	5,942.4	6,016.5	5,964.1	24.2	21.5	-150.06	258.4	716.5	502.4	460.4	41.99	11.963	
6,124.5	5,966.0	6,039.5	5,987.1	24.3	21.6	-150.35	258.5	717.7	507.2	465.0	42.23	12.011	
6,200.0	6,038.6	6,110.4	6,057.9	24.7	21.9	-151.25	258.8	721.1	522.3	479.3	42.96	12.157	
6,300.0	6,135.1	6,204.1	6,151.5	25.2	22.2	-152.36	259.1	725.0	542.4	498.4	43.91	12.351	
6,400.0	6,231.7	6,297.7	6,245.0	25.7	22.5	-153.40	259.4	728.1	562.5	517.7	44.82	12.550	
6,500.0	6,328.6	6,391.1	6,338.4	26.2	22.7	-154.37	259.6	730.5	582.8	537.1	45.70	12.753	
6,600.0	6,425.7	6,484.3	6,431.6	26.6	23.0	-155.28	259.8	732.1	603.1	556.6	46.53	12.960	
6,700.0	6,522.9	6,577.4	6,524.7	27.1	23.2	-156.13	259.8	732.9	623.5	576.2	47.32	13.175	
6,800.0	6,620.4	6,672.1	6,619.4	27.6	23.3	-156.94	259.8	733.1	643.9	595.9	48.02	13.409	
6,900.0	6,718.1	6,769.8	6,717.1	28.1	23.3	-157.70	259.8	733.1	663.7	615.0	48.69	13.631	
7,000.0	6,816.0	6,867.7	6,815.0	28.5	23.3	-158.39	259.8	733.1	682.9	633.5	49.35	13.838	
7,100.0	6,914.0	6,965.7	6,913.0	29.0	23.4	-159.02	259.8	733.1	701.3	651.3	49.99	14.029	
7,200.0	7,012.2	7,063.9	7,011.2	29.5	23.4	-159.58	259.8	733.1	719.0	668.3	50.62	14.204	
7,300.0	7,110.6	7,162.3	7,109.6	29.9	23.4	-160.10	259.8	733.1	735.9	684.7	51.23	14.364	
7,400.0	7,209.1	7,260.8	7,208.1	30.4	23.5	-160.57	259.8	733.1	752.1	700.2	51.83	14.510	
7,500.0	7,307.8	7,359.5	7,306.8	30.8	23.5	-161.00	259.8	733.1	767.5	715.1	52.42	14.640	
7,600.0	7,406.6	7,458.3	7,405.6	31.3	23.5	-161.39	259.8	733.1	782.1	729.1	53.00	14.756	
7,700.0	7,505.5	7,557.2	7,504.5	31.7	23.6	-161.75	259.8	733.1	795.9	742.4	53.57	14.858	
7,800.0	7,604.6	7,656.3	7,603.6	32.1	23.6	-162.07	259.8	733.1	809.0	754.8	54.13	14.946	
7,900.0	7,703.7	7,755.4	7,702.7	32.6	23.6	-162.37	259.8	733.1	821.2	766.5	54.67	15.020	
8,000.0	7,803.0	7,854.7	7,802.0	33.0	23.7	-162.63	259.8	733.1	832.6	777.4	55.21	15.081	
8,100.0	7,902.4	7,954.1	7,901.4	33.4	23.7	-162.87	259.8	733.1	843.2	787.5	55.73	15.129	
8,200.0	8,001.9	8,053.6	8,000.9	33.8	23.8	-163.09	259.8	733.1	853.0	796.7	56.25	15.165	
8,300.0	8,101.4	8,153.1	8,100.4	34.2	23.8	-163.28	259.8	733.1	862.0	805.2	56.75	15.190	
8,400.0	8,201.1	8,252.8	8,200.1	34.6	23.8	-163.46	259.8	733.1	870.1	812.9	57.24	15.202	
8,500.0	8,300.8	8,352.5	8,299.8	34.9	23.9	-163.61	259.8	733.1	877.4	819.7	57.71	15.204	
8,600.0	8,400.5	8,452.2	8,399.5	35.3	23.9	-163.74	259.8	733.1	883.9	825.7	58.17	15.194	
8,700.0	8,500.4	8,552.1	8,499.4	35.7	23.9	-163.86	259.8	733.1	889.5	830.9	58.62	15.175	
8,800.0	8,600.2	8,651.9	8,599.2	36.0	24.0	-163.95	259.8	733.1	894.4	835.3	59.05	15.146	
8,900.0	8,700.2	8,751.9	8,699.2	36.3	24.0	-164.03	259.8	733.1	898.3	838.9	59.46	15.109	
9,000.0	8,800.1	8,851.8	8,799.1	36.6	24.0	-164.09	259.8	733.1	901.5	841.6	59.85	15.064	
9,100.0	8,900.1	8,951.8	8,899.1	36.9	24.1	-164.14	259.8	733.1	903.8	843.6	60.21	15.012	
9,200.0	9,000.1	9,051.8	8,999.1	37.2	24.1	-164.16	259.8	733.1	905.3	844.7	60.53	14.955	
9,300.0	9,100.1	9,151.8	9,099.1	37.4	24.2	-164.18	259.8	733.1	905.9	845.1	60.80	14.900	
9,324.5	9,124.6	9,176.3	9,123.6	37.4	24.2	-75.18	259.8	733.1	905.9	845.1	60.83	14.893	
9,400.0	9,200.1	9,251.8	9,199.1	37.4	24.2	-75.18	259.8	733.1	905.9	845.0	60.86	14.884	
9,500.0	9,300.1	9,351.8	9,299.1	37.4	24.2	-75.18	259.8	733.1	905.9	845.0	60.92	14.871	
9,600.0	9,400.1	9,451.8	9,399.1	37.4	24.3	-75.18	259.8	733.1	905.9	844.9	60.97	14.857	
9,700.0	9,500.1	9,551.8	9,499.1	37.5	24.3	-75.18	259.8	733.1	905.9	844.9	61.03	14.844	
9,800.0	9,600.1	9,651.8	9,599.1	37.5	24.4	-75.18	259.8	733.1	905.9	844.8	61.09	14.830	
9,900.0	9,700.1	9,751.8	9,699.1	37.5	24.4	-75.18	259.8	733.1	905.9	844.8	61.14	14.816	
10,000.0	9,800.1	9,851.8	9,799.1	37.5	24.4	-75.18	259.8	733.1	905.9	844.7	61.20	14.803	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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)			
10,100.0	9,900.1	9,951.8	9,899.1	37.6	24.5	-75.18	259.8	733.1	905.9	844.6	61.26	14.789	
10,200.0	10,000.1	10,051.8	9,999.1	37.6	24.5	-75.18	259.8	733.1	905.9	844.6	61.31	14.775	
10,300.0	10,100.1	10,151.8	10,099.1	37.6	24.6	-75.18	259.8	733.1	905.9	844.5	61.37	14.761	
10,400.0	10,200.1	10,251.8	10,199.1	37.6	24.6	-75.18	259.8	733.1	905.9	844.5	61.43	14.747	
10,500.0	10,300.1	10,351.8	10,299.1	37.6	24.6	-75.18	259.8	733.1	905.9	844.4	61.49	14.733	
10,600.0	10,400.1	10,451.8	10,399.1	37.7	24.7	-75.18	259.8	733.1	905.9	844.4	61.55	14.719	
10,700.0	10,500.1	10,551.8	10,499.1	37.7	24.7	-75.18	259.8	733.1	905.9	844.3	61.61	14.705	
10,800.0	10,600.1	10,651.8	10,599.1	37.7	24.8	-75.18	259.8	733.1	905.9	844.2	61.67	14.691	
10,900.0	10,700.1	10,751.8	10,699.1	37.7	24.8	-75.18	259.8	733.1	905.9	844.2	61.73	14.676	
11,000.0	10,800.1	10,851.8	10,799.1	37.7	24.8	-75.18	259.8	733.1	905.9	844.1	61.79	14.662	
11,100.0	10,900.1	10,951.8	10,899.1	37.8	24.9	-75.18	259.8	733.1	905.9	844.1	61.85	14.648	
11,200.0	11,000.1	11,051.8	10,999.1	37.8	24.9	-75.18	259.8	733.1	905.9	844.0	61.91	14.633	
11,300.0	11,100.1	11,151.8	11,099.1	37.8	25.0	-75.18	259.8	733.1	905.9	843.9	61.97	14.619	
11,400.0	11,200.1	11,251.8	11,199.1	37.8	25.0	-75.18	259.8	733.1	905.9	843.9	62.03	14.604	
11,461.5	11,261.5	11,313.2	11,260.5	37.8	25.0	-75.18	259.8	733.1	905.9	843.8	62.06	14.597	
11,475.0	11,275.1	11,322.6	11,269.9	37.8	25.0	105.20	259.9	733.1	906.0	844.2	61.79	14.662	
11,500.0	11,300.0	11,339.1	11,286.4	37.9	25.0	105.22	260.5	733.1	906.6	844.9	61.68	14.698	
11,525.0	11,324.9	11,355.4	11,302.6	37.9	25.0	105.26	261.6	733.0	907.7	846.2	61.53	14.752	
11,550.0	11,349.6	11,375.0	11,322.1	37.9	25.0	105.37	263.7	733.0	909.5	848.1	61.40	14.814	
11,575.0	11,374.0	11,386.5	11,333.5	37.9	25.0	105.34	265.3	733.0	911.9	850.8	61.16	14.911	
11,600.0	11,398.1	11,400.0	11,346.8	37.9	25.0	105.33	267.5	733.0	914.9	854.0	60.91	15.021	
11,625.0	11,421.9	11,414.8	11,361.4	37.9	25.0	105.34	270.4	733.0	918.6	858.0	60.65	15.145	
11,650.0	11,445.2	11,425.0	11,371.3	37.9	25.0	105.16	272.6	732.9	923.0	862.7	60.34	15.299	
11,675.0	11,468.0	11,439.7	11,385.5	37.9	25.0	105.10	276.2	732.9	928.2	868.1	60.03	15.460	
11,700.0	11,490.3	11,450.0	11,395.5	37.9	25.0	104.83	279.0	732.9	934.0	874.3	59.68	15.651	
11,725.0	11,511.9	11,460.5	11,405.6	37.9	25.0	104.51	282.1	732.9	940.6	881.3	59.31	15.860	
11,750.0	11,532.8	11,469.5	11,414.1	37.9	25.0	104.04	284.9	732.8	948.0	889.1	58.91	16.092	
11,775.0	11,553.0	11,475.0	11,419.3	37.9	25.0	103.32	286.6	732.8	956.1	897.7	58.48	16.350	
11,800.0	11,572.4	11,484.4	11,428.1	37.9	25.0	102.70	289.8	732.8	965.0	907.0	58.06	16.621	
11,825.0	11,590.9	11,490.4	11,433.8	37.9	25.0	101.81	292.0	732.8	974.7	917.0	57.62	16.916	
11,850.0	11,608.6	11,500.0	11,442.7	37.9	25.0	101.03	295.5	732.7	985.0	927.9	57.19	17.225	
11,875.0	11,625.3	11,500.0	11,442.7	37.9	25.0	99.58	295.5	732.7	996.1	939.4	56.70	17.566	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	24.95	184.2	85.7	203.2	196.2	6.98	29.111		
100.0	100.0	99.0	99.0	3.1	3.1	24.95	184.2	85.7	203.2	196.0	7.23	28.125		
200.0	200.0	199.0	199.0	3.2	3.2	24.95	184.2	85.7	203.2	195.7	7.47	27.204		
300.0	300.0	299.0	299.0	3.4	3.4	24.95	184.2	85.7	203.2	195.5	7.71	26.355		
400.0	400.0	399.0	399.0	3.5	3.5	24.95	184.2	85.7	203.2	195.3	7.95	25.565		
500.0	500.0	499.0	499.0	3.6	3.6	24.95	184.2	85.7	203.2	195.0	8.18	24.829		
600.0	600.0	599.0	599.0	3.7	3.7	24.95	184.2	85.7	203.2	194.8	8.42	24.139		
700.0	700.0	699.0	699.0	3.9	3.9	24.95	184.2	85.7	203.2	194.6	8.65	23.493		
800.0	800.0	799.0	799.0	4.0	4.0	24.95	184.2	85.7	203.2	194.3	8.88	22.884		
900.0	900.0	899.0	899.0	4.1	4.1	24.95	184.2	85.7	203.2	194.1	9.11	22.310		
1,000.0	1,000.0	999.0	999.0	4.2	4.2	24.95	184.2	85.7	203.2	193.9	9.34	21.768		
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	24.95	184.2	85.7	203.2	193.7	9.56	21.255		
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	24.95	184.2	85.7	203.2	193.4	9.79	20.767		
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	24.95	184.2	85.7	203.2	193.2	10.01	20.304		
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	24.95	184.2	85.7	203.2	193.0	10.23	19.863		
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	24.95	184.2	85.7	203.2	192.8	10.45	19.443		
1,528.3	1,528.3	1,526.4	1,526.4	4.8	4.8	-64.05	184.3	85.9	203.2	193.0	10.18	19.963		
1,600.0	1,600.0	1,595.8	1,595.8	4.9	4.9	-64.08	184.3	87.3	203.2	192.9	10.34	19.655		
1,700.0	1,699.8	1,692.6	1,692.5	5.1	5.0	-64.15	184.6	92.2	203.3	192.6	10.67	19.051		
1,800.0	1,799.5	1,789.4	1,788.9	5.3	5.2	-64.26	185.0	100.3	203.4	192.4	11.01	18.481		
1,900.0	1,898.7	1,886.2	1,885.0	5.6	5.5	-64.41	185.6	111.7	203.6	192.3	11.35	17.942		
2,000.0	1,997.5	1,983.0	1,980.7	5.9	5.9	-64.60	186.4	126.3	203.8	192.1	11.70	17.426		
2,100.0	2,095.6	2,079.9	2,075.9	6.3	6.2	-64.83	187.3	144.1	204.1	192.1	12.06	16.928		
2,200.0	2,193.1	2,176.7	2,170.4	6.6	6.5	-65.10	188.4	165.2	204.5	192.1	12.44	16.441		
2,300.0	2,289.6	2,275.9	2,266.7	7.0	6.9	-65.67	189.7	189.1	204.5	191.7	12.84	15.933		
2,400.0	2,385.8	2,375.9	2,363.7	7.3	7.2	-66.67	190.9	213.2	203.9	190.6	13.23	15.414		
2,500.0	2,481.9	2,475.8	2,460.7	7.7	7.5	-67.67	192.2	237.3	203.3	189.6	13.63	14.918		
2,600.0	2,578.0	2,575.8	2,557.6	8.0	7.9	-68.67	193.5	261.5	202.8	188.7	14.04	14.446		
2,700.0	2,674.1	2,675.7	2,654.6	8.4	8.3	-69.68	194.7	285.6	202.3	187.8	14.45	13.999		
2,800.0	2,770.3	2,775.6	2,751.6	8.8	8.6	-70.70	196.0	309.8	201.9	187.0	14.87	13.577		
2,900.0	2,866.4	2,875.6	2,848.5	9.2	9.0	-71.72	197.3	333.9	201.6	186.3	15.29	13.180		
3,000.0	2,962.5	2,975.5	2,945.5	9.6	9.4	-72.74	198.5	358.1	201.3	185.6	15.72	12.807		
3,100.0	3,058.7	3,075.4	3,042.5	10.1	9.8	-73.76	199.8	382.2	201.1	185.0	16.14	12.456		
3,200.0	3,154.8	3,175.4	3,139.4	10.5	10.3	-74.79	201.1	406.3	201.0	184.4	16.57	12.127		
3,300.0	3,250.9	3,275.3	3,236.4	10.9	10.7	-75.82	202.3	430.5	200.9	183.9	17.00	11.818		
3,362.0	3,310.5	3,337.3	3,296.5	11.2	11.0	-76.45	203.1	445.5	200.9	183.6	17.26	11.636 CC		
3,400.0	3,347.0	3,375.2	3,333.4	11.4	11.1	-76.84	203.6	454.6	200.9	183.5	17.43	11.528		
3,500.0	3,443.2	3,475.2	3,430.3	11.8	11.5	-77.87	204.8	478.8	200.9	183.1	17.86	11.254		
3,600.0	3,539.3	3,575.1	3,527.3	12.3	12.0	-78.90	206.1	502.9	201.1	182.8	18.28	10.997		
3,700.0	3,635.4	3,675.0	3,624.3	12.7	12.4	-79.92	207.4	527.1	201.3	182.5	18.71	10.754		
3,800.0	3,731.5	3,775.0	3,721.2	13.2	12.9	-80.94	208.6	551.2	201.5	182.4	19.15	10.525		
3,900.0	3,827.7	3,874.9	3,818.2	13.6	13.3	-81.96	209.9	575.4	201.8	182.2	19.58	10.307		
4,000.0	3,923.8	3,974.8	3,915.2	14.1	13.8	-82.98	211.2	599.5	202.2	182.2	20.02	10.101 ES		
4,100.0	4,019.9	4,074.8	4,012.1	14.6	14.2	-83.99	212.4	623.6	202.6	182.2	20.46	9.905		
4,200.0	4,116.0	4,174.7	4,109.1	15.0	14.7	-85.00	213.7	647.8	203.1	182.2	20.91	9.717		
4,300.0	4,212.2	4,274.6	4,206.1	15.5	15.1	-86.00	215.0	671.9	203.7	182.4	21.36	9.539		
4,400.0	4,308.3	4,374.6	4,303.0	16.0	15.6	-87.00	216.2	696.1	204.3	182.5	21.81	9.367		
4,500.0	4,404.4	4,474.5	4,400.0	16.4	16.1	-87.99	217.5	720.2	205.0	182.8	22.28	9.203		
4,600.0	4,500.5	4,574.5	4,497.0	16.9	16.5	-88.97	218.8	744.4	205.8	183.0	22.75	9.044		
4,700.0	4,596.7	4,674.4	4,593.9	17.4	17.0	-89.94	220.0	768.5	206.6	183.4	23.24	8.891		
4,800.0	4,692.8	4,774.3	4,690.9	17.9	17.5	-90.91	221.3	792.6	207.5	183.7	23.73	8.744		
4,900.0	4,788.9	4,874.3	4,787.9	18.4	17.9	-91.87	222.6	816.8	208.4	184.2	24.23	8.601		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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		
5,000.0	4,885.0	4,974.2	4,884.8	18.8	18.4	-92.82	223.8	840.9	209.4	184.6	24.74	8.462		
5,100.0	4,981.2	5,074.1	4,981.8	19.3	18.9	-93.76	225.1	865.1	210.4	185.2	25.27	8.327		
5,200.0	5,077.3	5,174.1	5,078.8	19.8	19.4	-94.69	226.4	889.2	211.5	185.7	25.81	8.196		
5,300.0	5,173.4	5,274.0	5,175.7	20.3	19.8	-95.62	227.6	913.4	212.7	186.3	26.36	8.069		
5,400.0	5,269.6	5,373.9	5,272.7	20.8	20.3	-96.53	228.9	937.5	213.9	187.0	26.92	7.944		
5,500.0	5,365.7	5,473.9	5,369.7	21.3	20.8	-97.43	230.2	961.6	215.2	187.7	27.50	7.823		
5,600.0	5,461.8	5,573.6	5,466.5	21.8	21.2	-98.38	231.4	985.5	216.5	188.4	28.08	7.709		
5,700.0	5,557.9	5,673.0	5,563.3	22.3	21.7	-99.71	232.6	1,007.8	218.1	189.4	28.72	7.594		
5,800.0	5,654.1	5,772.2	5,660.3	22.7	22.2	-101.46	233.7	1,028.4	220.1	190.7	29.43	7.479		
5,900.0	5,750.2	5,871.1	5,757.4	23.2	22.6	-103.61	234.6	1,047.2	222.7	192.4	30.24	7.364		
6,000.0	5,846.3	5,969.6	5,854.5	23.7	23.1	-106.11	235.5	1,064.3	225.9	194.8	31.18	7.247		
6,100.0	5,942.4	6,067.9	5,951.5	24.2	23.5	-108.93	236.3	1,079.7	230.2	197.9	32.27	7.132		
6,124.5	5,966.0	6,091.9	5,975.3	24.3	23.6	-109.66	236.5	1,083.2	231.4	198.8	32.55	7.107		
6,200.0	6,038.6	6,165.6	6,048.3	24.7	23.9	-111.98	237.1	1,093.4	235.4	201.9	33.50	7.028		
6,300.0	6,135.1	6,263.1	6,145.0	25.2	24.3	-115.07	237.7	1,105.4	241.6	206.8	34.85	6.933		
6,400.0	6,231.7	6,360.2	6,241.6	25.7	24.7	-118.17	238.2	1,115.7	248.9	212.6	36.29	6.857		
6,500.0	6,328.6	6,456.9	6,337.9	26.2	25.1	-121.24	238.7	1,124.3	257.2	219.4	37.80	6.804		
6,600.0	6,425.7	6,553.2	6,433.9	26.6	25.4	-124.25	239.0	1,131.3	266.6	227.3	39.33	6.778 SF		
6,700.0	6,522.9	6,649.0	6,529.6	27.1	25.8	-127.19	239.3	1,136.7	277.2	236.3	40.87	6.782		
6,800.0	6,620.4	6,744.5	6,625.0	27.6	26.1	-130.02	239.5	1,140.4	288.9	246.5	42.39	6.816		
6,900.0	6,718.1	6,839.5	6,720.0	28.1	26.3	-132.74	239.6	1,142.6	301.8	258.0	43.85	6.883		
7,000.0	6,816.0	6,934.5	6,815.0	28.5	26.5	-135.34	239.7	1,143.1	315.9	270.6	45.22	6.986		
7,100.0	6,914.0	7,032.5	6,913.0	29.0	26.5	-137.77	239.7	1,143.1	330.3	283.8	46.50	7.104		
7,200.0	7,012.2	7,130.7	7,011.2	29.5	26.5	-139.91	239.7	1,143.1	344.6	297.0	47.67	7.229		
7,300.0	7,110.6	7,229.1	7,109.6	29.9	26.6	-141.80	239.7	1,143.1	358.7	309.9	48.75	7.358		
7,400.0	7,209.1	7,327.6	7,208.1	30.4	26.6	-143.46	239.7	1,143.1	372.4	322.6	49.75	7.486		
7,500.0	7,307.8	7,426.3	7,306.8	30.8	26.6	-144.93	239.7	1,143.1	385.7	335.0	50.67	7.611		
7,600.0	7,406.6	7,525.1	7,405.6	31.3	26.7	-146.24	239.7	1,143.1	398.4	346.9	51.53	7.732		
7,700.0	7,505.5	7,624.0	7,504.5	31.7	26.7	-147.40	239.7	1,143.1	410.7	358.3	52.34	7.846		
7,800.0	7,604.6	7,723.1	7,603.6	32.1	26.7	-148.43	239.7	1,143.1	422.3	369.2	53.10	7.952		
7,900.0	7,703.7	7,822.2	7,702.7	32.6	26.7	-149.34	239.7	1,143.1	433.3	379.5	53.82	8.050		
8,000.0	7,803.0	7,921.5	7,802.0	33.0	26.8	-150.15	239.7	1,143.1	443.7	389.2	54.51	8.140		
8,100.0	7,902.4	8,020.9	7,901.4	33.4	26.8	-150.88	239.7	1,143.1	453.3	398.2	55.15	8.219		
8,200.0	8,001.9	8,120.4	8,000.9	33.8	26.8	-151.51	239.7	1,143.1	462.3	406.5	55.77	8.289		
8,300.0	8,101.4	8,219.9	8,100.4	34.2	26.9	-152.08	239.7	1,143.1	470.6	414.2	56.36	8.350		
8,400.0	8,201.1	8,319.6	8,200.1	34.6	26.9	-152.57	239.7	1,143.1	478.1	421.2	56.92	8.400		
8,500.0	8,300.8	8,419.3	8,299.8	34.9	26.9	-153.00	239.7	1,143.1	484.9	427.4	57.45	8.440		
8,600.0	8,400.5	8,519.0	8,399.5	35.3	27.0	-153.37	239.7	1,143.1	490.9	433.0	57.95	8.471		
8,700.0	8,500.4	8,618.9	8,499.4	35.7	27.0	-153.69	239.7	1,143.1	496.2	437.8	58.43	8.492		
8,800.0	8,600.2	8,718.7	8,599.2	36.0	27.0	-153.95	239.7	1,143.1	500.7	441.8	58.88	8.503		
8,900.0	8,700.2	8,818.7	8,699.2	36.3	27.1	-154.17	239.7	1,143.1	504.4	445.1	59.30	8.506		
9,000.0	8,800.1	8,918.6	8,799.1	36.6	27.1	-154.33	239.7	1,143.1	507.3	447.7	59.69	8.499		
9,100.0	8,900.1	9,018.6	8,899.1	36.9	27.1	-154.45	239.7	1,143.1	509.5	449.5	60.05	8.485		
9,200.0	9,000.1	9,118.6	8,999.1	37.2	27.2	-154.53	239.7	1,143.1	510.9	450.5	60.36	8.463		
9,300.0	9,100.1	9,218.6	9,099.1	37.4	27.2	-154.56	239.7	1,143.1	511.5	450.9	60.61	8.438		
9,324.5	9,124.6	9,243.1	9,123.6	37.4	27.2	-65.57	239.7	1,143.1	511.5	450.9	60.64	8.435		
9,400.0	9,200.1	9,318.6	9,199.1	37.4	27.2	-65.57	239.7	1,143.1	511.5	450.8	60.68	8.430		
9,500.0	9,300.1	9,418.6	9,299.1	37.4	27.3	-65.57	239.7	1,143.1	511.5	450.8	60.73	8.422		
9,600.0	9,400.1	9,518.6	9,399.1	37.4	27.3	-65.57	239.7	1,143.1	511.5	450.7	60.79	8.414		
9,700.0	9,500.1	9,618.6	9,499.1	37.5	27.3	-65.57	239.7	1,143.1	511.5	450.6	60.84	8.407		
9,800.0	9,600.1	9,718.6	9,599.1	37.5	27.4	-65.57	239.7	1,143.1	511.5	450.6	60.90	8.399		
9,900.0	9,700.1	9,818.6	9,699.1	37.5	27.4	-65.57	239.7	1,143.1	511.5	450.5	60.96	8.391		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.0	9,800.1	9,918.6	9,799.1	37.5	27.4	-65.57	239.7	1,143.1	511.5	450.5	61.01	8.383	
10,100.0	9,900.1	10,018.6	9,899.1	37.6	27.5	-65.57	239.7	1,143.1	511.5	450.4	61.07	8.375	
10,200.0	10,000.1	10,118.6	9,999.1	37.6	27.5	-65.57	239.7	1,143.1	511.5	450.4	61.13	8.367	
10,300.0	10,100.1	10,218.6	10,099.1	37.6	27.5	-65.57	239.7	1,143.1	511.5	450.3	61.19	8.359	
10,400.0	10,200.1	10,318.6	10,199.1	37.6	27.6	-65.57	239.7	1,143.1	511.5	450.2	61.25	8.351	
10,500.0	10,300.1	10,418.6	10,299.1	37.6	27.6	-65.57	239.7	1,143.1	511.5	450.2	61.31	8.343	
10,600.0	10,400.1	10,518.6	10,399.1	37.7	27.6	-65.57	239.7	1,143.1	511.5	450.1	61.37	8.335	
10,700.0	10,500.1	10,618.6	10,499.1	37.7	27.7	-65.57	239.7	1,143.1	511.5	450.1	61.42	8.327	
10,800.0	10,600.1	10,718.6	10,599.1	37.7	27.7	-65.57	239.7	1,143.1	511.5	450.0	61.48	8.319	
10,900.0	10,700.1	10,818.6	10,699.1	37.7	27.7	-65.57	239.7	1,143.1	511.5	449.9	61.55	8.311	
11,000.0	10,800.1	10,918.6	10,799.1	37.7	27.8	-65.57	239.7	1,143.1	511.5	449.9	61.61	8.303	
11,100.0	10,900.1	11,018.6	10,899.1	37.8	27.8	-65.57	239.7	1,143.1	511.5	449.8	61.67	8.294	
11,200.0	11,000.1	11,118.6	10,999.1	37.8	27.9	-65.57	239.7	1,143.1	511.5	449.8	61.73	8.286	
11,300.0	11,100.1	11,218.6	11,099.1	37.8	27.9	-65.57	239.7	1,143.1	511.5	449.7	61.79	8.278	
11,400.0	11,200.1	11,318.6	11,199.1	37.8	27.9	-65.57	239.7	1,143.1	511.5	449.6	61.85	8.269	
11,461.5	11,261.5	11,380.0	11,260.5	37.8	28.0	-65.57	239.7	1,143.1	511.5	449.6	61.88	8.265	
11,475.0	11,275.1	11,393.6	11,274.1	37.8	28.0	114.82	239.7	1,143.1	511.6	449.8	61.75	8.285	
11,500.0	11,300.0	11,418.5	11,299.0	37.9	28.0	114.89	239.7	1,143.1	512.1	450.4	61.72	8.298	
11,525.0	11,324.9	11,443.4	11,323.9	37.9	28.0	115.04	239.7	1,143.1	513.3	451.6	61.64	8.327	
11,550.0	11,349.6	11,468.1	11,348.6	37.9	28.0	115.25	239.7	1,143.1	515.0	453.5	61.52	8.371	
11,575.0	11,374.0	11,492.5	11,373.0	37.9	28.0	115.52	239.7	1,143.1	517.3	455.9	61.35	8.431	
11,600.0	11,398.1	11,516.6	11,397.1	37.9	28.0	115.83	239.7	1,143.1	520.2	459.0	61.14	8.507	
11,625.0	11,421.9	11,540.4	11,420.9	37.9	28.0	116.18	239.7	1,143.1	523.7	462.8	60.89	8.601	
11,650.0	11,445.2	11,561.4	11,441.9	37.9	28.0	116.47	239.7	1,143.1	528.0	467.5	60.46	8.733	
11,675.0	11,468.0	11,575.0	11,455.5	37.9	28.0	116.47	240.0	1,143.1	533.2	473.3	59.92	8.899	
11,700.0	11,490.3	11,589.8	11,470.3	37.9	28.0	116.50	240.8	1,143.1	539.5	480.1	59.36	9.088	
11,725.0	11,511.9	11,600.0	11,480.4	37.9	28.0	116.23	241.6	1,143.1	546.9	488.2	58.69	9.319	
11,750.0	11,532.8	11,614.6	11,495.0	37.9	28.0	116.16	243.1	1,143.1	555.4	497.4	58.07	9.566	
11,775.0	11,553.0	11,625.0	11,505.3	37.9	28.0	115.75	244.5	1,143.1	565.1	507.8	57.36	9.853	
11,800.0	11,572.4	11,635.4	11,515.5	37.9	28.0	115.22	246.1	1,143.1	575.9	519.3	56.63	10.169	
11,825.0	11,590.9	11,644.2	11,524.3	37.9	28.0	114.46	247.6	1,143.1	587.8	531.9	55.89	10.516	
11,850.0	11,608.6	11,650.0	11,529.9	37.9	28.0	113.29	248.7	1,143.1	600.7	545.6	55.12	10.899	
11,875.0	11,625.3	11,659.0	11,538.7	37.9	28.0	112.23	250.5	1,143.0	614.7	560.3	54.40	11.299	
11,900.0	11,641.0	11,664.9	11,544.5	37.9	28.0	110.72	251.8	1,143.0	629.6	575.9	53.68	11.730	
11,925.0	11,655.6	11,675.0	11,554.3	37.9	28.0	109.45	254.2	1,143.0	645.5	592.4	53.02	12.175	
11,950.0	11,669.2	11,675.0	11,554.3	37.9	28.0	106.92	254.2	1,143.0	662.0	609.8	52.29	12.660	
11,975.0	11,681.6	11,675.0	11,554.3	37.9	28.0	104.12	254.2	1,143.0	679.4	627.8	51.62	13.163	
12,000.0	11,692.9	11,675.0	11,554.3	37.9	28.0	101.06	254.2	1,143.0	697.5	646.5	50.98	13.682	
12,025.0	11,703.0	11,681.8	11,560.9	37.9	28.0	98.56	255.9	1,143.0	716.1	665.6	50.43	14.199	
12,050.0	11,712.0	11,683.0	11,562.0	38.0	28.0	95.17	256.2	1,143.0	735.2	685.3	49.88	14.739	
12,075.0	11,719.6	11,683.5	11,562.5	38.0	28.0	91.50	256.3	1,143.0	754.7	705.3	49.36	15.288	
12,100.0	11,726.0	11,683.5	11,562.5	38.0	28.0	87.57	256.3	1,143.0	774.6	725.7	48.88	15.845	
12,125.0	11,731.2	11,682.9	11,561.9	38.0	28.0	83.44	256.1	1,143.0	794.7	746.2	48.43	16.407	
12,150.0	11,735.0	11,675.0	11,554.3	38.0	28.0	78.39	254.2	1,143.0	815.0	767.0	47.99	16.983	
12,175.0	11,737.6	11,675.0	11,554.3	38.0	28.0	74.29	254.2	1,143.0	835.4	787.8	47.61	17.547	
12,200.0	11,738.9	11,675.0	11,554.3	38.1	28.0	70.24	254.2	1,143.0	855.8	808.6	47.26	18.110	
12,211.5	11,739.0	11,675.0	11,554.3	38.1	28.0	68.42	254.2	1,143.0	865.2	818.1	47.10	18.368	
12,300.0	11,739.0	11,675.0	11,554.3	38.2	28.0	68.42	254.2	1,143.0	938.9	892.8	46.06	20.385	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	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	
0.0	0.0	0.0	0.0	3.0	3.0	33.51	167.3	110.8	200.7	193.7	6.98	28.747	
100.0	100.0	99.0	99.0	3.1	3.1	33.51	167.3	110.8	200.7	193.5	7.22	27.776	
200.0	200.0	199.0	199.0	3.2	3.2	33.51	167.3	110.8	200.7	193.2	7.47	26.871	
300.0	300.0	299.0	299.0	3.4	3.4	33.51	167.3	110.8	200.7	193.0	7.71	26.039	
400.0	400.0	399.0	399.0	3.5	3.5	33.51	167.3	110.8	200.7	192.7	7.94	25.268	
500.0	500.0	499.0	499.0	3.6	3.6	33.51	167.3	110.8	200.7	192.5	8.17	24.551	
600.0	600.0	599.0	599.0	3.7	3.7	33.51	167.3	110.8	200.7	192.3	8.40	23.880	
700.0	700.0	699.0	699.0	3.9	3.9	33.51	167.3	110.8	200.7	192.0	8.63	23.253	
800.0	800.0	799.0	799.0	4.0	4.0	33.51	167.3	110.8	200.7	191.8	8.85	22.663	
900.0	900.0	899.0	899.0	4.1	4.1	33.51	167.3	110.8	200.7	191.6	9.08	22.107	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	33.51	167.3	110.8	200.7	191.4	9.30	21.582	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	33.51	167.3	110.8	200.7	191.2	9.52	21.086	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	33.51	167.3	110.8	200.7	190.9	9.73	20.615	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	33.51	167.3	110.8	200.7	190.7	9.95	20.168	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	33.51	167.3	110.8	200.7	190.5	10.16	19.743	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	33.51	167.3	110.8	200.7	190.3	10.38	19.337	
1,600.0	1,600.0	1,595.2	1,595.2	4.9	4.9	-55.52	167.4	112.4	200.6	190.3	10.28	19.506	
1,700.0	1,699.8	1,691.4	1,691.3	5.1	5.0	-55.57	167.4	117.2	200.5	189.8	10.64	18.838	
1,800.0	1,799.5	1,787.6	1,787.1	5.3	5.2	-55.66	167.6	125.2	200.3	189.3	11.01	18.194	
1,900.0	1,898.7	1,883.8	1,882.7	5.6	5.5	-55.78	167.8	136.4	200.0	188.6	11.38	17.570	
2,000.0	1,997.5	1,980.1	1,977.8	5.9	5.8	-55.93	168.0	150.9	199.6	187.9	11.77	16.961	
2,100.0	2,095.6	2,076.3	2,072.4	6.3	6.2	-56.11	168.3	168.5	199.2	187.0	12.18	16.362	
2,200.0	2,193.1	2,172.6	2,166.4	6.6	6.5	-56.32	168.7	189.4	198.7	186.1	12.60	15.770	
2,300.0	2,289.6	2,268.9	2,259.7	7.0	6.9	-56.57	169.1	213.3	198.2	185.1	13.05	15.183	
2,380.0	2,366.5	2,347.7	2,335.5	7.3	7.2	-56.61	169.5	234.9	198.1	184.6	13.42	14.756	
2,400.0	2,385.8	2,367.7	2,354.7	7.3	7.2	-56.61	169.6	240.4	198.1	184.5	13.52	14.652	
2,500.0	2,481.9	2,467.7	2,450.8	7.7	7.6	-56.61	170.1	268.0	198.1	184.0	14.02	14.132	
2,600.0	2,578.0	2,567.7	2,547.0	8.0	7.9	-56.61	170.6	295.5	198.1	183.5	14.54	13.625	
2,700.0	2,674.1	2,667.7	2,643.1	8.4	8.3	-56.61	171.0	323.1	198.1	183.0	15.08	13.134	
2,800.0	2,770.3	2,767.7	2,739.2	8.8	8.7	-56.61	171.5	350.6	198.1	182.4	15.64	12.662	
2,900.0	2,866.4	2,867.7	2,835.4	9.2	9.1	-56.61	172.0	378.2	198.1	181.8	16.22	12.210	
3,000.0	2,962.5	2,967.7	2,931.5	9.6	9.5	-56.61	172.5	405.8	198.1	181.2	16.82	11.778	
3,100.0	3,058.7	3,067.7	3,027.6	10.1	9.9	-56.61	173.0	433.3	198.1	180.6	17.42	11.367	
3,200.0	3,154.8	3,167.7	3,123.7	10.5	10.3	-56.61	173.4	460.9	198.1	180.0	18.05	10.976	
3,300.0	3,250.9	3,267.7	3,219.9	10.9	10.8	-56.61	173.9	488.4	198.1	179.4	18.68	10.605	
3,400.0	3,347.0	3,367.7	3,316.0	11.4	11.2	-56.61	174.4	516.0	198.1	178.7	19.32	10.253	
3,500.0	3,443.2	3,467.7	3,412.1	11.8	11.7	-56.61	174.9	543.6	198.1	178.1	19.97	9.919	
3,600.0	3,539.3	3,567.7	3,508.2	12.3	12.1	-56.61	175.4	571.1	198.1	177.4	20.63	9.603	
3,700.0	3,635.4	3,667.7	3,604.4	12.7	12.6	-56.61	175.8	598.7	198.1	176.8	21.29	9.303	
3,739.0	3,672.9	3,706.7	3,641.9	12.9	12.7	-56.61	176.0	609.4	198.1	176.5	21.55	9.190	
3,800.0	3,731.5	3,767.7	3,700.5	13.2	13.0	-56.61	176.3	626.2	198.1	176.1	21.96	9.018	
3,900.0	3,827.7	3,867.7	3,796.6	13.6	13.5	-56.61	176.8	653.8	198.1	175.4	22.64	8.748	
4,000.0	3,923.8	3,967.7	3,892.7	14.1	13.9	-56.61	177.3	681.4	198.1	174.7	23.32	8.492	
4,019.1	3,942.2	3,986.8	3,911.1	14.2	14.0	-56.61	177.4	686.6	198.1	174.6	23.45	8.445	
4,100.0	4,019.9	4,067.7	3,988.9	14.6	14.4	-56.61	177.8	708.9	198.1	174.1	24.01	8.249	
4,200.0	4,116.0	4,167.7	4,085.0	15.0	14.9	-56.61	178.3	736.5	198.1	173.4	24.70	8.018	
4,300.0	4,212.2	4,267.7	4,181.1	15.5	15.3	-56.61	178.7	764.0	198.1	172.7	25.40	7.798	
4,400.0	4,308.3	4,367.7	4,277.2	16.0	15.8	-56.61	179.2	791.6	198.1	172.0	26.10	7.589	
4,500.0	4,404.4	4,467.7	4,373.4	16.4	16.3	-56.61	179.7	819.1	198.1	171.3	26.80	7.390	
4,600.0	4,500.5	4,567.7	4,469.5	16.9	16.8	-56.61	180.2	846.7	198.1	170.6	27.51	7.200	
4,629.1	4,528.6	4,596.8	4,497.5	17.1	16.9	-56.61	180.3	854.7	198.1	170.3	27.72	7.146	
4,700.0	4,596.7	4,667.7	4,565.6	17.4	17.2	-56.61	180.7	874.3	198.1	169.8	28.22	7.019	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
Warning													
4,800.0	4,692.8	4,767.7	4,661.8	17.9	17.7	-56.61		181.1	901.8	198.1	169.1	28.93	6.846
4,900.0	4,788.9	4,867.7	4,757.9	18.4	18.2	-56.61		181.6	929.4	198.1	168.4	29.65	6.681
5,000.0	4,885.0	4,967.7	4,854.0	18.8	18.7	-56.61		182.1	956.9	198.1	167.7	30.36	6.523
5,100.0	4,981.2	5,067.7	4,950.1	19.3	19.2	-56.61		182.6	984.5	198.1	167.0	31.08	6.372
5,200.0	5,077.3	5,167.7	5,046.3	19.8	19.7	-56.61		183.1	1,012.1	198.1	166.3	31.81	6.227
5,300.0	5,173.4	5,267.7	5,142.4	20.3	20.1	-56.61		183.5	1,039.6	198.1	165.5	32.53	6.089
5,400.0	5,269.6	5,367.7	5,238.5	20.8	20.6	-56.61		184.0	1,067.2	198.1	164.8	33.25	5.956
5,500.0	5,365.7	5,467.7	5,334.6	21.3	21.1	-56.61		184.5	1,094.7	198.1	164.1	33.98	5.829
5,600.0	5,461.8	5,567.7	5,430.8	21.8	21.6	-56.61		185.0	1,122.3	198.1	163.4	34.71	5.706
5,700.0	5,557.9	5,667.7	5,526.9	22.3	22.1	-56.61		185.5	1,149.9	198.1	162.6	35.44	5.589
5,800.0	5,654.1	5,767.7	5,623.0	22.7	22.6	-56.61		185.9	1,177.4	198.1	161.9	36.17	5.476
5,900.0	5,750.2	5,867.7	5,719.1	23.2	23.1	-56.61		186.4	1,205.0	198.1	161.2	36.90	5.367
6,000.0	5,846.3	5,967.7	5,815.3	23.7	23.6	-56.61		186.9	1,232.5	198.1	160.4	37.64	5.262
6,100.0	5,942.4	6,067.7	5,911.4	24.2	24.1	-56.61		187.4	1,260.1	198.1	159.7	38.37	5.162
6,124.5	5,966.0	6,092.2	5,935.0	24.3	24.2	-56.61		187.5	1,266.9	198.1	159.5	38.55	5.139
6,200.0	6,038.6	6,167.7	6,007.5	24.7	24.6	-56.55		187.9	1,287.7	198.2	159.1	39.11	5.068
6,300.0	6,135.1	6,267.7	6,103.6	25.2	25.0	-56.29		188.4	1,315.2	198.8	158.9	39.93	4.979
6,400.0	6,231.7	6,367.7	6,199.7	25.7	25.5	-55.82		188.8	1,342.8	199.9	159.1	40.81	4.898
6,500.0	6,328.6	6,467.6	6,295.8	26.2	26.0	-55.16		189.3	1,370.3	201.5	159.7	41.77	4.825
6,600.0	6,425.7	6,567.6	6,391.9	26.6	26.5	-54.32		189.8	1,397.9	203.7	160.9	42.79	4.759
6,700.0	6,522.9	6,667.5	6,487.9	27.1	27.0	-53.29		190.3	1,425.4	206.4	162.5	43.89	4.701
6,800.0	6,620.4	6,769.1	6,585.7	27.6	27.5	-52.15		190.8	1,453.1	209.5	164.5	45.04	4.652
6,900.0	6,718.1	6,873.8	6,687.2	28.1	28.0	-51.45		191.2	1,478.8	211.5	165.4	46.02	4.595
7,000.0	6,816.0	6,978.6	6,789.7	28.5	28.5	-51.37		191.6	1,500.7	211.7	165.0	46.71	4.532
7,100.0	6,914.0	7,083.4	6,892.9	29.0	29.0	-51.91		191.9	1,518.8	210.2	163.1	47.10	4.462
7,200.0	7,012.2	7,187.9	6,996.4	29.5	29.5	-53.08		192.2	1,533.2	207.0	159.8	47.17	4.389
7,300.0	7,110.6	7,292.0	7,099.9	29.9	29.9	-54.95		192.3	1,543.7	202.3	155.4	46.88	4.315
7,400.0	7,209.1	7,395.4	7,203.1	30.4	30.3	-57.58		192.5	1,550.4	196.3	150.1	46.21	4.249
7,500.0	7,307.8	7,498.1	7,305.7	30.8	30.6	-61.07		192.5	1,553.4	189.4	144.3	45.12	4.199
7,600.0	7,406.6	7,597.9	7,405.6	31.3	30.7	-65.24		192.5	1,553.6	182.5	138.7	43.75	4.171
7,700.0	7,505.5	7,696.8	7,504.5	31.7	30.7	-69.46		192.5	1,553.6	176.8	134.3	42.48	4.163
7,800.0	7,604.6	7,795.9	7,603.6	32.1	30.7	-73.67		192.5	1,553.6	172.4	131.1	41.35	4.170
7,900.0	7,703.7	7,895.0	7,702.7	32.6	30.8	-77.79		192.5	1,553.6	169.3	128.8	40.44	4.185
8,000.0	7,803.0	7,994.3	7,802.0	33.0	30.8	-81.76		192.5	1,553.6	167.1	127.3	39.80	4.199
8,100.0	7,902.4	8,093.7	7,901.4	33.4	30.8	-85.53		192.5	1,553.6	165.9	126.4	39.44	4.206
8,200.0	8,001.9	8,193.2	8,000.9	33.8	30.8	-89.05		192.5	1,553.6	165.4	126.0	39.35	4.203
8,228.6	8,030.4	8,221.7	8,029.4	33.9	30.8	-90.00		192.5	1,553.6	165.4	126.0	39.37	4.200 CC, ES
8,300.0	8,101.4	8,292.7	8,100.4	34.2	30.9	-92.27		192.5	1,553.6	165.5	126.0	39.50	4.190
8,400.0	8,201.1	8,392.4	8,200.1	34.6	30.9	-95.20		192.5	1,553.6	166.1	126.2	39.83	4.169
8,500.0	8,300.8	8,492.1	8,299.8	34.9	30.9	-97.80		192.5	1,553.6	166.9	126.6	40.29	4.143
8,600.0	8,400.5	8,591.9	8,399.5	35.3	30.9	-100.08		192.5	1,553.6	168.0	127.2	40.82	4.115
8,700.0	8,500.4	8,691.7	8,499.4	35.7	31.0	-102.05		192.5	1,553.6	169.1	127.7	41.39	4.086
8,800.0	8,600.2	8,791.6	8,599.2	36.0	31.0	-103.70		192.5	1,553.6	170.2	128.3	41.94	4.059
8,900.0	8,700.2	8,891.5	8,699.2	36.3	31.0	-105.05		192.5	1,553.6	171.3	128.8	42.46	4.033
9,000.0	8,800.1	8,991.4	8,799.1	36.6	31.0	-106.11		192.5	1,553.6	172.1	129.2	42.92	4.011
9,100.0	8,900.1	9,091.4	8,899.1	36.9	31.1	-106.87		192.5	1,553.6	172.8	129.5	43.30	3.991
9,200.0	9,000.1	9,191.4	8,999.1	37.2	31.1	-107.36		192.5	1,553.6	173.3	129.7	43.59	3.975
9,300.0	9,100.1	9,291.4	9,099.1	37.4	31.1	-107.56		192.5	1,553.6	173.5	129.7	43.79	3.961
9,324.5	9,124.6	9,315.9	9,123.6	37.4	31.1	-18.57		192.5	1,553.6	173.5	129.7	43.81	3.960
9,400.0	9,200.1	9,391.4	9,199.1	37.4	31.1	-18.57		192.5	1,553.6	173.5	129.6	43.87	3.954
9,500.0	9,300.1	9,491.4	9,299.1	37.4	31.2	-18.57		192.5	1,553.6	173.5	129.5	43.95	3.947
9,600.0	9,400.1	9,591.4	9,399.1	37.4	31.2	-18.57		192.5	1,553.6	173.5	129.4	44.04	3.939

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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			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	
9,700.0	9,500.1	9,691.4	9,499.1	37.5	31.2	-18.57	192.5	1,553.6	173.5	129.3	44.12	3.931	
9,800.0	9,600.1	9,791.4	9,599.1	37.5	31.3	-18.57	192.5	1,553.6	173.5	129.3	44.21	3.923	
9,900.0	9,700.1	9,891.4	9,699.1	37.5	31.3	-18.57	192.5	1,553.6	173.5	129.2	44.30	3.916	
10,000.0	9,800.1	9,991.4	9,799.1	37.5	31.3	-18.57	192.5	1,553.6	173.5	129.1	44.39	3.908	
10,100.0	9,900.1	10,091.4	9,899.1	37.6	31.3	-18.57	192.5	1,553.6	173.5	129.0	44.48	3.900	
10,200.0	10,000.1	10,191.4	9,999.1	37.6	31.4	-18.57	192.5	1,553.6	173.5	128.9	44.56	3.892	
10,300.0	10,100.1	10,291.4	10,099.1	37.6	31.4	-18.57	192.5	1,553.6	173.5	128.8	44.65	3.885	
10,400.0	10,200.1	10,391.4	10,199.1	37.6	31.4	-18.57	192.5	1,553.6	173.5	128.7	44.74	3.877	
10,500.0	10,300.1	10,491.4	10,299.1	37.6	31.5	-18.57	192.5	1,553.6	173.5	128.6	44.83	3.869	
10,600.0	10,400.1	10,591.4	10,399.1	37.7	31.5	-18.57	192.5	1,553.6	173.5	128.5	44.92	3.861	
10,700.0	10,500.1	10,691.4	10,499.1	37.7	31.5	-18.57	192.5	1,553.6	173.5	128.4	45.01	3.853	
10,800.0	10,600.1	10,791.4	10,599.1	37.7	31.5	-18.57	192.5	1,553.6	173.5	128.4	45.11	3.846	
10,900.0	10,700.1	10,891.4	10,699.1	37.7	31.6	-18.57	192.5	1,553.6	173.5	128.3	45.20	3.838	
11,000.0	10,800.1	10,991.4	10,799.1	37.7	31.6	-18.57	192.5	1,553.6	173.5	128.2	45.29	3.830	
11,100.0	10,900.1	11,091.4	10,899.1	37.8	31.6	-18.57	192.5	1,553.6	173.5	128.1	45.38	3.822	
11,200.0	11,000.1	11,191.4	10,999.1	37.8	31.7	-18.57	192.5	1,553.6	173.5	128.0	45.47	3.815	
11,300.0	11,100.1	11,291.4	11,099.1	37.8	31.7	-18.57	192.5	1,553.6	173.5	127.9	45.54	3.809	
11,400.0	11,200.1	11,391.4	11,199.1	37.8	31.7	-18.57	192.5	1,553.6	173.5	127.8	45.62	3.802	
11,461.5	11,261.5	11,452.9	11,260.5	37.8	31.7	-18.57	192.5	1,553.6	173.5	127.8	45.65	3.800 SF	
11,475.0	11,275.1	11,463.4	11,271.1	37.8	31.7	161.82	192.6	1,553.6	173.7	128.4	45.33	3.833	
11,500.0	11,300.0	11,481.9	11,289.5	37.9	31.7	161.91	193.3	1,553.6	175.9	130.8	45.09	3.901	
11,525.0	11,324.9	11,500.0	11,307.6	37.9	31.7	162.07	194.6	1,553.6	180.2	135.4	44.82	4.021	
11,550.0	11,349.6	11,517.6	11,325.1	37.9	31.7	162.30	196.6	1,553.5	186.7	142.1	44.55	4.190	
11,575.0	11,374.0	11,534.5	11,341.8	37.9	31.7	162.54	199.1	1,553.5	195.1	150.8	44.29	4.406	
11,600.0	11,398.1	11,550.0	11,357.0	37.9	31.7	162.76	202.0	1,553.5	205.6	161.5	44.06	4.665	
11,625.0	11,421.9	11,565.6	11,372.3	37.9	31.7	162.98	205.3	1,553.5	217.8	173.9	43.89	4.963	
11,650.0	11,445.2	11,579.7	11,385.9	37.9	31.7	163.11	208.7	1,553.4	231.8	188.1	43.76	5.297	
11,675.0	11,468.0	11,592.5	11,398.3	37.9	31.7	163.15	212.2	1,553.4	247.4	203.8	43.69	5.664	
11,700.0	11,490.3	11,600.0	11,405.5	37.9	31.7	162.78	214.4	1,553.4	264.6	220.9	43.68	6.057	
11,725.0	11,511.9	11,614.8	11,419.5	37.9	31.7	162.82	219.1	1,553.3	282.9	239.3	43.67	6.479	
11,750.0	11,532.8	11,625.0	11,429.1	37.9	31.7	162.45	222.5	1,553.3	302.5	258.8	43.70	6.923	
11,775.0	11,553.0	11,632.5	11,436.1	37.9	31.7	161.73	225.2	1,553.3	323.2	279.4	43.77	7.383	
11,800.0	11,572.4	11,639.7	11,442.8	37.9	31.7	160.77	227.9	1,553.3	344.7	300.9	43.85	7.861	
11,825.0	11,590.9	11,650.0	11,452.3	37.9	31.7	159.89	231.8	1,553.2	367.1	323.2	43.89	8.363	
11,850.0	11,608.6	11,650.0	11,452.3	37.9	31.7	157.34	231.8	1,553.2	390.0	346.0	44.04	8.857	
11,875.0	11,625.3	11,650.0	11,452.3	37.9	31.7	153.77	231.8	1,553.2	413.6	369.5	44.18	9.363	
11,900.0	11,641.0	11,658.6	11,460.2	37.9	31.7	150.78	235.3	1,553.2	437.6	393.4	44.21	9.899	
11,925.0	11,655.6	11,661.2	11,462.5	37.9	31.7	144.68	236.4	1,553.2	461.9	417.6	44.29	10.430	
11,950.0	11,669.2	11,662.9	11,464.1	37.9	31.7	134.81	237.1	1,553.2	486.5	442.1	44.36	10.967	
11,975.0	11,681.6	11,663.9	11,465.0	37.9	31.7	118.18	237.6	1,553.2	511.3	466.8	44.43	11.508	
12,000.0	11,692.9	11,664.3	11,465.3	37.9	31.7	92.32	237.7	1,553.2	536.1	491.6	44.48	12.052	
12,025.0	11,703.0	11,664.1	11,465.1	37.9	31.7	63.88	237.6	1,553.2	561.0	516.5	44.53	12.598	
12,050.0	11,712.0	11,663.2	11,464.4	38.0	31.7	43.48	237.3	1,553.2	585.8	541.2	44.57	13.145	
12,075.0	11,719.6	11,661.9	11,463.1	38.0	31.7	31.22	236.7	1,553.2	610.5	565.9	44.59	13.691	
12,100.0	11,726.0	11,660.0	11,461.4	38.0	31.7	23.75	235.9	1,553.2	635.0	590.4	44.61	14.236	
12,125.0	11,731.2	11,657.7	11,459.3	38.0	31.7	18.89	234.9	1,553.2	659.4	614.7	44.62	14.778	
12,150.0	11,735.0	11,650.0	11,452.3	38.0	31.7	15.20	231.8	1,553.2	683.4	638.8	44.66	15.304	
12,175.0	11,737.6	11,650.0	11,452.3	38.0	31.7	13.04	231.8	1,553.2	707.1	662.5	44.62	15.847	
12,200.0	11,738.9	11,650.0	11,452.3	38.1	31.7	11.39	231.8	1,553.2	730.4	685.9	44.57	16.388	
12,211.5	11,739.0	11,650.0	11,452.3	38.1	31.7	10.76	231.8	1,553.2	741.0	696.5	44.55	16.635	
12,300.0	11,739.0	11,633.8	11,437.4	38.2	31.7	10.23	225.7	1,553.3	822.8	778.3	44.50	18.488	
12,400.0	11,739.0	11,625.0	11,429.1	38.3	31.7	9.96	222.5	1,553.3	916.1	871.7	44.42	20.626	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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		
0.0	0.0	0.0	0.0	0.0	3.0	3.0	-56.22	100.7	-150.5	181.1	174.1	6.98	25.944	
100.0	100.0	97.0	97.0	3.1	3.1	-56.22	100.7	-150.5	181.1	173.8	7.22	25.083		
200.0	200.0	197.0	197.0	3.2	3.2	-56.22	100.7	-150.5	181.1	173.6	7.46	24.273		
300.0	300.0	297.0	297.0	3.4	3.4	-56.22	100.7	-150.5	181.1	173.4	7.69	23.541		
400.0	400.0	397.0	397.0	3.5	3.5	-56.22	100.7	-150.5	181.1	173.1	7.92	22.869		
500.0	500.0	497.0	497.0	3.6	3.6	-56.22	100.7	-150.5	181.1	172.9	8.14	22.248		
600.0	600.0	597.0	597.0	3.7	3.7	-56.22	100.7	-150.5	181.1	172.7	8.36	21.671		
700.0	700.0	697.0	697.0	3.9	3.9	-56.22	100.7	-150.5	181.1	172.5	8.57	21.135		
800.0	800.0	797.0	797.0	4.0	4.0	-56.22	100.7	-150.5	181.1	172.3	8.78	20.633		
900.0	900.0	897.0	897.0	4.1	4.1	-56.22	100.7	-150.5	181.1	172.1	8.98	20.163		
1,000.0	1,000.0	997.0	997.0	4.2	4.2	-56.22	100.7	-150.5	181.1	171.9	9.18	19.721		
1,100.0	1,100.0	1,097.0	1,097.0	4.3	4.3	-56.22	100.7	-150.5	181.1	171.7	9.38	19.304		
1,200.0	1,200.0	1,197.0	1,197.0	4.5	4.5	-56.22	100.7	-150.5	181.1	171.5	9.58	18.910		
1,300.0	1,300.0	1,297.0	1,297.0	4.6	4.6	-56.22	100.7	-150.5	181.1	171.3	9.77	18.537		
1,400.0	1,400.0	1,397.0	1,397.0	4.7	4.7	-56.22	100.7	-150.5	181.1	171.1	9.96	18.183		
1,500.0	1,500.0	1,497.0	1,497.0	4.8	4.8	-56.22	100.7	-150.5	181.1	170.9	10.15	17.846	CC, ES, SF	
1,600.0	1,600.0	1,595.5	1,595.5	4.9	5.0	-145.99	99.6	-151.7	182.9	172.8	10.05	18.190		
1,700.0	1,699.8	1,693.4	1,693.2	5.1	5.2	-148.26	96.2	-155.3	188.6	178.2	10.43	18.084		
1,800.0	1,799.5	1,790.1	1,789.6	5.3	5.4	-151.71	90.7	-161.2	198.8	188.0	10.83	18.348		
1,900.0	1,898.7	1,885.0	1,883.8	5.6	5.7	-155.90	83.1	-169.4	214.2	202.9	11.28	18.980		
2,000.0	1,997.5	1,977.6	1,975.4	5.9	6.0	-160.37	73.6	-179.5	235.4	223.6	11.79	19.970		
2,100.0	2,095.6	2,067.4	2,063.7	6.3	6.3	-164.75	62.5	-191.5	263.0	250.6	12.34	21.304		
2,200.0	2,193.1	2,154.1	2,148.5	6.6	6.6	-168.80	50.0	-204.9	296.9	284.0	12.93	22.960		
2,300.0	2,289.6	2,240.3	2,232.1	7.0	6.9	-172.50	36.0	-219.9	337.0	323.5	13.55	24.874		
2,400.0	2,385.8	2,328.6	2,317.8	7.3	7.1	-175.72	21.4	-235.5	380.1	365.9	14.13	26.894		
2,500.0	2,481.9	2,416.9	2,403.5	7.7	7.4	-178.31	6.9	-251.1	424.0	409.2	14.74	28.770		
2,600.0	2,578.0	2,505.2	2,489.2	8.0	7.7	179.58	-7.7	-266.7	468.4	453.1	15.36	30.492		
2,700.0	2,674.1	2,593.5	2,574.9	8.4	8.0	177.83	-22.3	-282.4	513.3	497.3	16.01	32.062		
2,800.0	2,770.3	2,681.8	2,660.6	8.8	8.4	176.35	-36.9	-298.0	558.6	541.9	16.68	33.493		
2,900.0	2,866.4	2,770.1	2,746.3	9.2	8.7	175.10	-51.4	-313.6	604.1	586.7	17.36	34.794		
3,000.0	2,962.5	2,858.5	2,832.0	9.6	9.0	174.01	-66.0	-329.2	649.8	631.7	18.06	35.979		
3,100.0	3,058.7	2,946.8	2,917.6	10.1	9.4	173.07	-80.6	-344.9	695.6	676.8	18.77	37.057		
3,200.0	3,154.8	3,035.1	3,003.3	10.5	9.7	172.24	-95.1	-360.5	741.6	722.1	19.50	38.041		
3,300.0	3,250.9	3,123.4	3,089.0	10.9	10.1	171.51	-109.7	-376.1	787.7	767.5	20.23	38.938		
3,400.0	3,347.0	3,211.7	3,174.7	11.4	10.5	170.86	-124.3	-391.7	833.9	812.9	20.97	39.759		
3,500.0	3,443.2	3,300.0	3,260.4	11.8	10.9	170.28	-138.9	-407.4	880.1	858.4	21.73	40.511		
3,600.0	3,539.3	3,388.3	3,346.1	12.3	11.2	169.75	-153.4	-423.0	926.5	904.0	22.49	41.200		
3,700.0	3,635.4	3,476.7	3,431.8	12.7	11.6	169.28	-168.0	-438.6	972.9	949.6	23.26	41.834		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-56.24	83.9	-125.5	151.0	144.0	6.98	21.633	
100.0	100.0	98.0	98.0	3.1	3.1	-56.24	83.9	-125.5	151.0	143.8	7.22	20.911	
200.0	200.0	198.0	198.0	3.2	3.2	-56.24	83.9	-125.5	151.0	143.5	7.46	20.238	
300.0	300.0	298.0	298.0	3.4	3.4	-56.24	83.9	-125.5	151.0	143.3	7.69	19.629	
400.0	400.0	398.0	398.0	3.5	3.5	-56.24	83.9	-125.5	151.0	143.1	7.92	19.068	
500.0	500.0	498.0	498.0	3.6	3.6	-56.24	83.9	-125.5	151.0	142.9	8.14	18.551	
600.0	600.0	598.0	598.0	3.7	3.7	-56.24	83.9	-125.5	151.0	142.6	8.36	18.070	
700.0	700.0	698.0	698.0	3.9	3.9	-56.24	83.9	-125.5	151.0	142.4	8.57	17.623	
800.0	800.0	798.0	798.0	4.0	4.0	-56.24	83.9	-125.5	151.0	142.2	8.78	17.205	
900.0	900.0	898.0	898.0	4.1	4.1	-56.24	83.9	-125.5	151.0	142.0	8.98	16.813	
1,000.0	1,000.0	998.0	998.0	4.2	4.2	-56.24	83.9	-125.5	151.0	141.8	9.18	16.444	
1,100.0	1,100.0	1,098.0	1,098.0	4.3	4.3	-56.24	83.9	-125.5	151.0	141.6	9.38	16.097	
1,200.0	1,200.0	1,198.0	1,198.0	4.5	4.5	-56.24	83.9	-125.5	151.0	141.4	9.58	15.768	
1,300.0	1,300.0	1,298.0	1,298.0	4.6	4.6	-56.24	83.9	-125.5	151.0	141.2	9.77	15.457	
1,400.0	1,400.0	1,398.0	1,398.0	4.7	4.7	-56.24	83.9	-125.5	151.0	141.0	9.96	15.162	
1,500.0	1,500.0	1,498.0	1,498.0	4.8	4.8	-56.24	83.9	-125.5	151.0	140.9	10.15	14.881	CC, ES, SF
1,600.0	1,600.0	1,597.2	1,597.1	4.9	5.0	-146.20	82.7	-126.6	152.7	142.6	10.05	15.194	
1,700.0	1,699.8	1,695.7	1,695.6	5.1	5.2	-148.99	79.0	-130.0	158.1	147.6	10.42	15.166	
1,800.0	1,799.5	1,793.1	1,792.6	5.3	5.5	-153.18	72.8	-135.6	167.8	157.0	10.82	15.503	
1,900.0	1,898.7	1,888.7	1,887.6	5.6	5.7	-158.18	64.3	-143.2	182.8	171.5	11.28	16.211	
2,000.0	1,997.5	1,982.1	1,979.9	5.9	6.0	-163.40	53.8	-152.6	203.8	192.0	11.79	17.289	
2,100.0	2,095.6	2,076.0	2,072.3	6.3	6.3	-168.33	41.8	-163.5	230.7	218.3	12.35	18.685	
2,200.0	2,193.1	2,169.3	2,164.2	6.6	6.5	-172.37	29.7	-174.3	262.3	249.4	12.94	20.271	
2,300.0	2,289.6	2,261.3	2,254.8	7.0	6.8	-175.62	17.9	-185.0	298.2	284.7	13.56	21.995	
2,400.0	2,385.8	2,352.7	2,344.8	7.3	7.1	-178.25	6.1	-195.6	336.4	322.3	14.13	23.808	
2,500.0	2,481.9	2,444.1	2,434.8	7.7	7.4	179.65	-5.7	-206.3	375.2	360.4	14.72	25.478	
2,600.0	2,578.0	2,535.5	2,524.8	8.0	7.7	177.93	-17.5	-216.9	414.2	398.9	15.34	27.003	
2,700.0	2,674.1	2,626.9	2,614.9	8.4	8.0	176.51	-29.3	-227.5	453.6	437.6	15.98	28.391	
2,800.0	2,770.3	2,718.3	2,704.9	8.8	8.3	175.32	-41.1	-238.1	493.1	476.5	16.63	29.653	
2,900.0	2,866.4	2,809.7	2,794.9	9.2	8.6	174.30	-52.9	-248.7	532.8	515.5	17.30	30.800	
3,000.0	2,962.5	2,901.1	2,884.9	9.6	9.0	173.42	-64.7	-259.4	572.6	554.6	17.98	31.843	
3,100.0	3,058.7	2,992.5	2,974.9	10.1	9.3	172.66	-76.5	-270.0	612.5	593.8	18.68	32.791	
3,200.0	3,154.8	3,083.9	3,064.9	10.5	9.7	171.98	-88.3	-280.6	652.5	633.1	19.39	33.656	
3,300.0	3,250.9	3,175.3	3,154.9	10.9	10.0	171.39	-100.1	-291.2	692.5	672.4	20.11	34.446	
3,400.0	3,347.0	3,266.7	3,244.9	11.4	10.4	170.86	-111.9	-301.8	732.7	711.8	20.83	35.168	
3,500.0	3,443.2	3,358.1	3,335.0	11.8	10.7	170.38	-123.7	-312.5	772.8	751.3	21.57	35.830	
3,600.0	3,539.3	3,449.5	3,425.0	12.3	11.1	169.96	-135.5	-323.1	813.0	790.7	22.31	36.438	
3,700.0	3,635.4	3,540.9	3,515.0	12.7	11.5	169.57	-147.3	-333.7	853.3	830.2	23.06	36.997	
3,800.0	3,731.5	3,632.3	3,605.0	13.2	11.9	169.22	-159.1	-344.3	893.5	869.7	23.82	37.513	
3,900.0	3,827.7	3,723.7	3,695.0	13.6	12.2	168.89	-170.9	-354.9	933.8	909.2	24.58	37.990	
4,000.0	3,923.8	3,815.1	3,785.0	14.1	12.6	168.60	-182.7	-365.6	974.1	948.8	25.35	38.431	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 #753H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11260-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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	3.0	3.0	-56.28	67.1	-100.5	120.8	113.8	6.98	17.309
100.0	100.0	99.0	99.0	3.1	3.1	-56.28	67.1	-100.5	120.8	113.6	7.22	16.727	
200.0	200.0	199.0	199.0	3.2	3.2	-56.28	67.1	-100.5	120.8	113.4	7.46	16.191	
300.0	300.0	299.0	299.0	3.4	3.4	-56.28	67.1	-100.5	120.8	113.1	7.69	15.704	
400.0	400.0	399.0	399.0	3.5	3.5	-56.28	67.1	-100.5	120.8	112.9	7.92	15.256	
500.0	500.0	499.0	499.0	3.6	3.6	-56.28	67.1	-100.5	120.8	112.7	8.14	14.842	
600.0	600.0	599.0	599.0	3.7	3.7	-56.28	67.1	-100.5	120.8	112.5	8.36	14.458	
700.0	700.0	699.0	699.0	3.9	3.9	-56.28	67.1	-100.5	120.8	112.3	8.57	14.100	
800.0	800.0	799.0	799.0	4.0	4.0	-56.28	67.1	-100.5	120.8	112.0	8.78	13.766	
900.0	900.0	899.0	899.0	4.1	4.1	-56.28	67.1	-100.5	120.8	111.8	8.98	13.452	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.28	67.1	-100.5	120.8	111.6	9.18	13.157	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.28	67.1	-100.5	120.8	111.4	9.38	12.879	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.28	67.1	-100.5	120.8	111.2	9.58	12.617	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.28	67.1	-100.5	120.8	111.1	9.77	12.368	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.28	67.1	-100.5	120.8	110.9	9.96	12.132	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.28	67.1	-100.5	120.8	110.7	10.15	11.907 CC, ES, SF	
1,600.0	1,600.0	1,599.0	1,599.0	4.9	5.0	-145.73	67.1	-100.5	122.3	112.1	10.14	12.062	
1,700.0	1,699.8	1,698.8	1,698.8	5.1	5.1	-147.02	67.1	-100.5	126.6	116.1	10.51	12.046	
1,800.0	1,799.5	1,798.5	1,798.5	5.3	5.3	-148.97	67.1	-100.5	134.0	123.1	10.90	12.298	
1,900.0	1,898.7	1,897.7	1,897.7	5.6	5.4	-151.35	67.1	-100.5	144.6	133.3	11.31	12.791	
2,000.0	1,997.5	1,996.5	1,996.5	5.9	5.6	-153.93	67.1	-100.5	158.5	146.8	11.74	13.503	
2,100.0	2,095.6	2,094.6	2,094.6	6.3	5.7	-156.52	67.1	-100.5	175.9	163.7	12.21	14.410	
2,200.0	2,193.1	2,192.1	2,192.1	6.6	5.8	-158.96	67.1	-100.5	196.8	184.1	12.71	15.492	
2,300.0	2,289.6	2,288.6	2,288.6	7.0	5.9	-161.20	67.1	-100.5	221.3	208.0	13.23	16.726	
2,400.0	2,385.8	2,384.8	2,384.8	7.3	6.1	-163.25	67.1	-100.5	247.6	233.9	13.71	18.063	
2,500.0	2,481.9	2,480.9	2,480.9	7.7	6.2	-164.91	67.1	-100.5	274.2	260.0	14.20	19.304	
2,600.0	2,578.0	2,577.0	2,577.0	8.0	6.3	-166.27	67.1	-100.5	301.0	286.2	14.72	20.447	
2,700.0	2,674.1	2,673.1	2,673.1	8.4	6.4	-167.41	67.1	-100.5	327.8	312.6	15.25	21.499	
2,800.0	2,770.3	2,769.3	2,769.3	8.8	6.6	-168.38	67.1	-100.5	354.8	339.1	15.80	22.465	
2,900.0	2,866.4	2,865.4	2,865.4	9.2	6.7	-169.21	67.1	-100.5	381.9	365.6	16.35	23.353	
3,000.0	2,962.5	2,961.5	2,961.5	9.6	6.8	-169.93	67.1	-100.5	409.1	392.1	16.93	24.169	
3,100.0	3,058.7	3,057.7	3,057.7	10.1	6.9	-170.57	67.1	-100.5	436.3	418.8	17.51	24.919	
3,200.0	3,154.8	3,153.8	3,153.8	10.5	7.0	-171.12	67.1	-100.5	463.5	445.4	18.10	25.610	
3,300.0	3,250.9	3,249.9	3,249.9	10.9	7.1	-171.62	67.1	-100.5	490.8	472.1	18.70	26.247	
3,400.0	3,347.0	3,346.0	3,346.0	11.4	7.3	-172.06	67.1	-100.5	518.1	498.8	19.31	26.834	
3,500.0	3,443.2	3,442.2	3,442.2	11.8	7.4	-172.46	67.1	-100.5	545.4	525.5	19.92	27.378	
3,600.0	3,539.3	3,538.3	3,538.3	12.3	7.5	-172.82	67.1	-100.5	572.8	552.2	20.54	27.881	
3,700.0	3,635.4	3,634.4	3,634.4	12.7	7.6	-173.15	67.1	-100.5	600.1	579.0	21.17	28.348	
3,800.0	3,731.5	3,730.5	3,730.5	13.2	7.7	-173.45	67.1	-100.5	627.5	605.7	21.80	28.781	
3,900.0	3,827.7	3,826.7	3,826.7	13.6	7.8	-173.73	67.1	-100.5	654.9	632.5	22.44	29.184	
4,000.0	3,923.8	3,922.8	3,922.8	14.1	7.9	-173.98	67.1	-100.5	682.4	659.3	23.08	29.560	
4,100.0	4,019.9	4,018.9	4,018.9	14.6	8.0	-174.21	67.1	-100.5	709.8	686.1	23.73	29.911	
4,200.0	4,116.0	4,115.0	4,115.0	15.0	8.1	-174.43	67.1	-100.5	737.2	712.8	24.38	30.238	
4,300.0	4,212.2	4,211.2	4,211.2	15.5	8.2	-174.63	67.1	-100.5	764.7	739.6	25.03	30.545	
4,400.0	4,308.3	4,307.3	4,307.3	16.0	8.3	-174.82	67.1	-100.5	792.1	766.4	25.69	30.833	
4,500.0	4,404.4	4,403.4	4,403.4	16.4	8.4	-174.99	67.1	-100.5	819.6	793.2	26.35	31.103	
4,600.0	4,500.5	4,499.5	4,499.5	16.9	8.6	-175.15	67.1	-100.5	847.1	820.0	27.01	31.357	
4,700.0	4,596.7	4,595.7	4,595.7	17.4	8.7	-175.31	67.1	-100.5	874.5	846.9	27.68	31.596	
4,800.0	4,692.8	4,691.8	4,691.8	17.9	8.8	-175.45	67.1	-100.5	902.0	873.7	28.35	31.821	
4,900.0	4,788.9	4,787.9	4,787.9	18.4	8.9	-175.58	67.1	-100.5	929.5	900.5	29.02	32.033	
5,000.0	4,885.0	4,884.0	4,884.0	18.8	9.0	-175.71	67.1	-100.5	957.0	927.3	29.69	32.234	
5,100.0	4,981.2	4,980.2	4,980.2	19.3	9.1	-175.83	67.1	-100.5	984.5	954.1	30.36	32.424	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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	0.0	0.0	3.0	3.0	-56.25	50.4	-75.4	90.7	83.8	6.98	12.999	
100.0	100.0	99.0	99.0	3.1	3.1	-56.25	50.4	-75.4	90.7	83.5	7.22	12.561	
200.0	200.0	199.0	199.0	3.2	3.2	-56.25	50.4	-75.4	90.7	83.3	7.46	12.159	
300.0	300.0	299.0	299.0	3.4	3.4	-56.25	50.4	-75.4	90.7	83.0	7.69	11.793	
400.0	400.0	399.0	399.0	3.5	3.5	-56.25	50.4	-75.4	90.7	82.8	7.92	11.456	
500.0	500.0	499.0	499.0	3.6	3.6	-56.25	50.4	-75.4	90.7	82.6	8.14	11.145	
600.0	600.0	599.0	599.0	3.7	3.7	-56.25	50.4	-75.4	90.7	82.4	8.36	10.857	
700.0	700.0	699.0	699.0	3.9	3.9	-56.25	50.4	-75.4	90.7	82.2	8.57	10.588	
800.0	800.0	799.0	799.0	4.0	4.0	-56.25	50.4	-75.4	90.7	82.0	8.78	10.337	
900.0	900.0	899.0	899.0	4.1	4.1	-56.25	50.4	-75.4	90.7	81.8	8.98	10.102	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.25	50.4	-75.4	90.7	81.5	9.18	9.880	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.25	50.4	-75.4	90.7	81.4	9.38	9.671	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.25	50.4	-75.4	90.7	81.2	9.58	9.474	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.25	50.4	-75.4	90.7	81.0	9.77	9.287	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.25	50.4	-75.4	90.7	80.8	9.96	9.110	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.25	50.4	-75.4	90.7	80.6	10.15	8.941 CC	
1,600.0	1,600.0	1,601.4	1,601.4	4.9	4.9	-145.15	50.6	-73.7	90.8	80.7	10.12	8.978	
1,700.0	1,699.8	1,703.9	1,703.7	5.1	5.1	-144.83	51.3	-68.2	91.1	80.5	10.57	8.622	
1,800.0	1,799.5	1,806.3	1,805.7	5.3	5.3	-144.29	52.4	-59.2	91.5	80.5	11.03	8.302 ES	
1,900.0	1,898.7	1,908.6	1,907.2	5.6	5.6	-143.54	54.0	-46.6	92.2	80.7	11.50	8.017	
2,000.0	1,997.5	2,008.5	2,006.2	5.9	5.8	-143.46	55.6	-32.8	94.5	82.5	11.96	7.901 SF	
2,100.0	2,095.6	2,108.4	2,105.0	6.3	6.1	-144.55	57.3	-19.0	99.6	87.2	12.47	7.990	
2,200.0	2,193.1	2,208.0	2,203.7	6.6	6.4	-146.54	59.0	-5.2	107.7	94.7	13.05	8.257	
2,300.0	2,289.6	2,307.2	2,301.9	7.0	6.7	-149.10	60.7	8.5	118.9	105.2	13.69	8.686	
2,400.0	2,385.8	2,406.2	2,400.0	7.3	7.0	-151.68	62.4	22.2	131.8	117.5	14.32	9.200	
2,500.0	2,481.9	2,505.2	2,498.0	7.7	7.3	-153.79	64.1	35.8	144.9	129.9	14.99	9.666	
2,600.0	2,578.0	2,604.2	2,596.1	8.0	7.6	-155.56	65.8	49.5	158.2	142.5	15.69	10.084	
2,700.0	2,674.1	2,703.2	2,694.1	8.4	8.0	-157.05	67.4	63.2	171.6	155.2	16.41	10.459	
2,800.0	2,770.3	2,802.2	2,792.1	8.8	8.3	-158.32	69.1	76.9	185.1	168.0	17.15	10.795	
2,900.0	2,866.4	2,901.2	2,890.2	9.2	8.7	-159.42	70.8	90.5	198.7	180.8	17.91	11.096	
3,000.0	2,962.5	3,000.2	2,988.2	9.6	9.0	-160.38	72.5	104.2	212.3	193.7	18.68	11.366	
3,100.0	3,058.7	3,099.2	3,086.3	10.1	9.4	-161.22	74.1	117.9	226.0	206.6	19.47	11.608	
3,200.0	3,154.8	3,198.2	3,184.3	10.5	9.8	-161.97	75.8	131.6	239.8	219.5	20.27	11.827	
3,300.0	3,250.9	3,297.3	3,282.4	10.9	10.2	-162.63	77.5	145.2	253.6	232.5	21.09	12.024	
3,400.0	3,347.0	3,396.3	3,380.4	11.4	10.5	-163.23	79.2	158.9	267.4	245.5	21.91	12.203	
3,500.0	3,443.2	3,495.3	3,478.4	11.8	10.9	-163.77	80.9	172.6	281.2	258.5	22.74	12.365	
3,600.0	3,539.3	3,594.3	3,576.5	12.3	11.3	-164.26	82.5	186.3	295.1	271.5	23.58	12.512	
3,700.0	3,635.4	3,693.3	3,674.5	12.7	11.7	-164.70	84.2	199.9	308.9	284.5	24.43	12.647	
3,800.0	3,731.5	3,792.3	3,772.6	13.2	12.1	-165.11	85.9	213.6	322.8	297.5	25.28	12.770	
3,900.0	3,827.7	3,891.3	3,870.6	13.6	12.5	-165.48	87.6	227.3	336.7	310.6	26.14	12.883	
4,000.0	3,923.8	3,990.3	3,968.7	14.1	12.9	-165.82	89.3	241.0	350.6	323.6	27.00	12.987	
4,100.0	4,019.9	4,089.3	4,066.7	14.6	13.3	-166.14	90.9	254.7	364.6	336.7	27.87	13.083	
4,200.0	4,116.0	4,188.3	4,164.7	15.0	13.7	-166.43	92.6	268.3	378.5	349.8	28.74	13.171	
4,300.0	4,212.2	4,287.0	4,262.4	15.5	14.1	-166.71	94.3	282.0	392.5	362.9	29.60	13.260	
4,400.0	4,308.3	4,379.7	4,354.4	16.0	14.5	-166.98	95.8	293.9	407.3	376.8	30.43	13.383	
4,500.0	4,404.4	4,472.0	4,446.1	16.4	14.8	-167.30	97.0	304.4	423.6	392.3	31.25	13.553	
4,600.0	4,500.5	4,563.8	4,537.4	16.9	15.2	-167.66	98.1	313.3	441.4	409.4	32.06	13.769	
4,700.0	4,596.7	4,655.0	4,628.3	17.4	15.5	-168.05	99.1	320.8	460.8	427.9	32.85	14.026	
4,800.0	4,692.8	4,745.6	4,718.7	17.9	15.8	-168.46	99.8	326.8	481.6	448.0	33.62	14.325	
4,900.0	4,788.9	4,835.6	4,808.6	18.4	16.1	-168.88	100.4	331.3	504.0	469.6	34.37	14.664	
5,000.0	4,885.0	4,924.9	4,897.9	18.8	16.4	-169.31	100.7	334.4	527.9	492.8	35.09	15.043	
5,100.0	4,981.2	5,013.6	4,986.5	19.3	16.6	-169.75	100.9	336.1	553.2	517.4	35.76	15.468	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 UNIT 2032 PROJECT - ZIA HILLS UNIT 2032 WC #754H - OWB - PWPO												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		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
5,200.0	5,077.3	5,103.4	5,076.3	19.8	16.7	-170.19	101.0	336.5	579.9	543.6		36.34	15.960
5,300.0	5,173.4	5,199.5	5,172.4	20.3	16.8	-170.63	101.0	336.5	607.1	570.2		36.94	16.437
5,400.0	5,269.6	5,295.6	5,268.6	20.8	16.8	-171.04	101.0	336.5	634.4	596.8		37.53	16.902
5,500.0	5,365.7	5,391.8	5,364.7	21.3	16.9	-171.41	101.0	336.5	661.6	623.5		38.13	17.353
5,600.0	5,461.8	5,487.9	5,460.8	21.8	16.9	-171.75	101.0	336.5	688.9	650.2		38.73	17.789
5,700.0	5,557.9	5,584.0	5,556.9	22.3	17.0	-172.07	101.0	336.5	716.2	676.9		39.33	18.212
5,800.0	5,654.1	5,680.1	5,653.1	22.7	17.0	-172.36	101.0	336.5	743.6	703.6		39.93	18.621
5,900.0	5,750.2	5,776.3	5,749.2	23.2	17.1	-172.63	101.0	336.5	770.9	730.4		40.54	19.017
6,000.0	5,846.3	5,872.4	5,845.3	23.7	17.1	-172.88	101.0	336.5	798.3	757.1		41.15	19.401
6,100.0	5,942.4	5,968.5	5,941.4	24.2	17.2	-173.12	101.0	336.5	825.6	783.9		41.76	19.773
6,124.5	5,966.0	5,992.1	5,965.0	24.3	17.2	-173.18	101.0	336.5	832.4	790.5		41.90	19.865
6,200.0	6,038.6	6,064.7	6,037.6	24.7	17.2	-173.35	101.0	336.5	852.8	810.4		42.36	20.133
6,300.0	6,135.1	6,161.1	6,134.1	25.2	17.2	-173.57	101.0	336.5	879.1	836.2		42.97	20.460
6,400.0	6,231.7	6,257.8	6,230.7	25.7	17.3	-173.76	101.0	336.5	904.7	861.1		43.58	20.759
6,500.0	6,328.6	6,354.6	6,327.6	26.2	17.3	-173.94	101.0	336.5	929.3	885.2		44.19	21.032
6,600.0	6,425.7	6,451.7	6,424.7	26.6	17.4	-174.11	101.0	336.5	953.2	908.4		44.80	21.279
6,700.0	6,522.9	6,549.0	6,521.9	27.1	17.4	-174.26	101.0	336.5	976.2	930.8		45.40	21.502
6,800.0	6,620.4	6,646.5	6,619.4	27.6	17.5	-174.40	101.0	336.5	998.4	952.4		46.00	21.702

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	-56.30	33.5	-50.3	60.4	53.5	6.98	8.659	
100.0	100.0	99.0	99.0	3.1	3.1	-56.30	33.5	-50.3	60.4	53.2	7.22	8.366	
200.0	200.0	199.0	199.0	3.2	3.2	-56.30	33.5	-50.3	60.4	53.0	7.46	8.099	
300.0	300.0	299.0	299.0	3.4	3.4	-56.30	33.5	-50.3	60.4	52.7	7.69	7.855	
400.0	400.0	399.0	399.0	3.5	3.5	-56.30	33.5	-50.3	60.4	52.5	7.92	7.631	
500.0	500.0	499.0	499.0	3.6	3.6	-56.30	33.5	-50.3	60.4	52.3	8.14	7.424	
600.0	600.0	599.0	599.0	3.7	3.7	-56.30	33.5	-50.3	60.4	52.1	8.36	7.232	
700.0	700.0	699.0	699.0	3.9	3.9	-56.30	33.5	-50.3	60.4	51.9	8.57	7.053	
800.0	800.0	799.0	799.0	4.0	4.0	-56.30	33.5	-50.3	60.4	51.7	8.78	6.885	
900.0	900.0	899.0	899.0	4.1	4.1	-56.30	33.5	-50.3	60.4	51.5	8.98	6.729	
1,000.0	1,000.0	999.0	999.0	4.2	4.2	-56.30	33.5	-50.3	60.4	51.3	9.18	6.581	
1,100.0	1,100.0	1,099.0	1,099.0	4.3	4.3	-56.30	33.5	-50.3	60.4	51.1	9.38	6.442	
1,200.0	1,200.0	1,199.0	1,199.0	4.5	4.5	-56.30	33.5	-50.3	60.4	50.9	9.58	6.311	
1,300.0	1,300.0	1,299.0	1,299.0	4.6	4.6	-56.30	33.5	-50.3	60.4	50.7	9.77	6.186	
1,400.0	1,400.0	1,399.0	1,399.0	4.7	4.7	-56.30	33.5	-50.3	60.4	50.5	9.96	6.068	
1,500.0	1,500.0	1,499.0	1,499.0	4.8	4.8	-56.30	33.5	-50.3	60.4	50.3	10.15	5.956 CC	
1,600.0	1,600.0	1,600.7	1,600.7	4.9	4.9	-145.23	33.7	-48.5	60.5	50.4	10.12	5.977	
1,700.0	1,699.8	1,702.4	1,702.2	5.1	5.1	-144.99	34.0	-43.2	60.6	50.0	10.57	5.732	
1,800.0	1,799.5	1,804.1	1,803.5	5.3	5.3	-144.57	34.7	-34.2	60.8	49.8	11.04	5.508	
1,900.0	1,898.7	1,905.8	1,904.4	5.6	5.6	-143.98	35.5	-21.7	61.0	49.5	11.52	5.301	
2,000.0	1,997.5	2,007.4	2,004.8	5.9	5.9	-143.22	36.7	-5.6	61.4	49.4	12.01	5.109	
2,100.0	2,095.6	2,108.9	2,104.4	6.3	6.3	-142.31	38.0	14.0	61.8	49.3	12.52	4.934 ES	
2,200.0	2,193.1	2,208.9	2,202.2	6.6	6.6	-142.49	39.5	34.8	63.9	50.8	13.06	4.889 SF	
2,300.0	2,289.6	2,308.8	2,299.8	7.0	6.9	-144.38	40.9	55.5	68.7	55.0	13.69	5.021	
2,400.0	2,385.8	2,408.5	2,397.4	7.3	7.2	-146.82	42.4	76.2	75.1	60.8	14.34	5.240	
2,500.0	2,481.9	2,508.3	2,495.0	7.7	7.6	-148.87	43.8	96.8	81.6	66.6	15.02	5.434	
2,600.0	2,578.0	2,608.0	2,592.5	8.0	7.9	-150.61	45.3	117.5	88.2	72.5	15.74	5.606	
2,700.0	2,674.1	2,707.8	2,690.1	8.4	8.3	-152.11	46.7	138.2	94.9	78.4	16.49	5.756	
2,800.0	2,770.3	2,807.5	2,787.7	8.8	8.7	-153.42	48.2	158.9	101.6	84.4	17.26	5.889	
2,900.0	2,866.4	2,907.3	2,885.2	9.2	9.0	-154.56	49.6	179.6	108.4	90.4	18.05	6.006	
3,000.0	2,962.5	3,007.0	2,982.8	9.6	9.4	-155.57	51.1	200.3	115.2	96.4	18.86	6.109	
3,100.0	3,058.7	3,106.8	3,080.4	10.1	9.8	-156.46	52.5	221.0	122.1	102.4	19.69	6.200	
3,200.0	3,154.8	3,206.5	3,178.0	10.5	10.2	-157.26	53.9	241.7	128.9	108.4	20.53	6.281	
3,300.0	3,250.9	3,306.3	3,275.5	10.9	10.7	-157.98	55.4	262.4	135.8	114.4	21.38	6.353	
3,400.0	3,347.0	3,406.0	3,373.1	11.4	11.1	-158.63	56.8	283.0	142.7	120.5	22.24	6.417	
3,500.0	3,443.2	3,505.8	3,470.7	11.8	11.5	-159.22	58.3	303.7	149.7	126.5	23.12	6.474	
3,600.0	3,539.3	3,605.5	3,568.2	12.3	11.9	-159.75	59.7	324.4	156.6	132.6	24.00	6.526	
3,700.0	3,635.4	3,705.2	3,665.8	12.7	12.4	-160.25	61.2	345.1	163.6	138.7	24.89	6.572	
3,800.0	3,731.5	3,805.0	3,763.4	13.2	12.8	-160.70	62.6	365.8	170.5	144.7	25.78	6.614	
3,900.0	3,827.7	3,904.7	3,860.9	13.6	13.2	-161.11	64.1	386.5	177.5	150.8	26.68	6.652	
4,000.0	3,923.8	4,004.5	3,958.5	14.1	13.7	-161.50	65.5	407.2	184.5	156.9	27.59	6.686	
4,100.0	4,019.9	4,104.2	4,056.1	14.6	14.1	-161.85	67.0	427.9	191.5	163.0	28.50	6.718	
4,200.0	4,116.0	4,204.0	4,153.6	15.0	14.5	-162.18	68.4	448.5	198.5	169.0	29.42	6.746	
4,300.0	4,212.2	4,303.7	4,251.2	15.5	15.0	-162.49	69.9	469.2	205.5	175.1	30.34	6.773	
4,400.0	4,308.3	4,403.5	4,348.8	16.0	15.4	-162.78	71.3	489.9	212.5	181.2	31.26	6.797	
4,500.0	4,404.4	4,503.2	4,446.3	16.4	15.9	-163.05	72.8	510.6	219.5	187.3	32.19	6.819	
4,600.0	4,500.5	4,603.0	4,543.9	16.9	16.3	-163.30	74.2	531.3	226.5	193.4	33.12	6.839	
4,700.0	4,596.7	4,702.7	4,641.5	17.4	16.8	-163.54	75.6	552.0	233.5	199.5	34.05	6.858	
4,800.0	4,692.8	4,802.5	4,739.1	17.9	17.2	-163.77	77.1	572.7	240.6	205.6	34.99	6.876	
4,900.0	4,788.9	4,902.2	4,836.6	18.4	17.7	-163.98	78.5	593.4	247.6	211.7	35.93	6.892	
5,000.0	4,885.0	5,002.0	4,934.2	18.8	18.1	-164.18	80.0	614.1	254.6	217.8	36.87	6.907	
5,100.0	4,981.2	5,101.7	5,031.8	19.3	18.6	-164.37	81.4	634.7	261.7	223.8	37.81	6.920	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,077.3	5,197.4	5,125.4	19.8	19.0	-164.59	82.8	653.9	269.4	230.7	38.73	6.957	
5,300.0	5,173.4	5,292.6	5,219.0	20.3	19.5	-164.90	84.0	671.3	278.8	239.2	39.64	7.033	
5,400.0	5,269.6	5,387.5	5,312.6	20.8	19.9	-165.28	85.1	687.2	289.7	249.2	40.54	7.146	
5,500.0	5,365.7	5,482.0	5,406.0	21.3	20.3	-165.73	86.1	701.5	302.2	260.8	41.44	7.294	
5,600.0	5,461.8	5,576.1	5,499.3	21.8	20.7	-166.22	87.0	714.1	316.3	274.0	42.32	7.476	
5,700.0	5,557.9	5,669.7	5,592.2	22.3	21.1	-166.75	87.8	725.2	332.0	288.8	43.18	7.690	
5,800.0	5,654.1	5,762.9	5,684.9	22.7	21.4	-167.29	88.4	734.8	349.3	305.3	44.02	7.935	
5,900.0	5,750.2	5,855.4	5,777.1	23.2	21.8	-167.84	89.0	742.7	368.1	323.3	44.83	8.210	
6,000.0	5,846.3	5,947.4	5,868.8	23.7	22.1	-168.40	89.4	749.2	388.5	342.9	45.62	8.515	
6,100.0	5,942.4	6,038.7	5,960.0	24.2	22.4	-168.95	89.8	754.2	410.4	364.1	46.38	8.850	
6,124.5	5,966.0	6,060.9	5,982.2	24.3	22.5	-169.08	89.9	755.1	416.0	369.5	46.55	8.937	
6,200.0	6,038.6	6,129.3	6,050.6	24.7	22.7	-169.50	90.0	757.6	433.7	386.6	47.09	9.210	
6,300.0	6,135.1	6,219.5	6,140.7	25.2	23.0	-170.02	90.2	759.7	457.6	409.9	47.74	9.586	
6,400.0	6,231.7	6,309.5	6,230.7	25.7	23.1	-170.52	90.2	760.3	482.3	434.0	48.29	9.988	
6,500.0	6,328.6	6,406.4	6,327.6	26.2	23.1	-171.00	90.2	760.3	506.8	457.9	48.86	10.372	
6,600.0	6,425.7	6,503.5	6,424.7	26.6	23.2	-171.42	90.2	760.3	530.5	481.1	49.43	10.732	
6,700.0	6,522.9	6,600.7	6,521.9	27.1	23.2	-171.80	90.2	760.3	553.4	503.4	50.00	11.068	
6,800.0	6,620.4	6,698.2	6,619.4	27.6	23.2	-172.13	90.2	760.3	575.5	524.9	50.56	11.382	
6,900.0	6,718.1	6,795.9	6,717.1	28.1	23.3	-172.43	90.2	760.3	596.7	545.6	51.12	11.673	
7,000.0	6,816.0	6,893.8	6,815.0	28.5	23.3	-172.69	90.2	760.3	617.1	565.5	51.67	11.943	
7,100.0	6,914.0	6,991.8	6,913.0	29.0	23.3	-172.93	90.2	760.3	636.7	584.5	52.23	12.191	
7,200.0	7,012.2	7,090.0	7,011.2	29.5	23.4	-173.14	90.2	760.3	655.4	602.7	52.77	12.420	
7,300.0	7,110.6	7,188.4	7,109.6	29.9	23.4	-173.34	90.2	760.3	673.3	620.0	53.32	12.629	
7,400.0	7,209.1	7,286.9	7,208.1	30.4	23.4	-173.51	90.2	760.3	690.3	636.5	53.86	12.818	
7,500.0	7,307.8	7,385.6	7,306.8	30.8	23.5	-173.67	90.2	760.3	706.5	652.1	54.39	12.990	
7,600.0	7,406.6	7,484.4	7,405.6	31.3	23.5	-173.81	90.2	760.3	721.9	666.9	54.92	13.144	
7,700.0	7,505.5	7,583.3	7,504.5	31.7	23.5	-173.94	90.2	760.3	736.3	680.9	55.44	13.281	
7,800.0	7,604.6	7,682.4	7,603.6	32.1	23.6	-174.06	90.2	760.3	750.0	694.0	55.96	13.401	
7,900.0	7,703.7	7,781.5	7,702.7	32.6	23.6	-174.17	90.2	760.3	762.7	706.3	56.48	13.505	
8,000.0	7,803.0	7,880.8	7,802.0	33.0	23.6	-174.26	90.2	760.3	774.6	717.7	56.98	13.594	
8,100.0	7,902.4	7,980.2	7,901.4	33.4	23.7	-174.35	90.2	760.3	785.7	728.2	57.48	13.668	
8,200.0	8,001.9	8,079.7	8,000.9	33.8	23.7	-174.43	90.2	760.3	795.9	737.9	57.98	13.727	
8,300.0	8,101.4	8,179.2	8,100.4	34.2	23.7	-174.50	90.2	760.3	805.2	746.7	58.46	13.773	
8,400.0	8,201.1	8,278.9	8,200.1	34.6	23.8	-174.56	90.2	760.3	813.6	754.7	58.93	13.806	
8,500.0	8,300.8	8,378.6	8,299.8	34.9	23.8	-174.61	90.2	760.3	821.2	761.8	59.40	13.826	
8,600.0	8,400.5	8,478.3	8,399.5	35.3	23.9	-174.66	90.2	760.3	828.0	768.1	59.85	13.834	
8,700.0	8,500.4	8,578.2	8,499.4	35.7	23.9	-174.70	90.2	760.3	833.8	773.5	60.29	13.830	
8,800.0	8,600.2	8,678.0	8,599.2	36.0	23.9	-174.73	90.2	760.3	838.8	778.1	60.72	13.815	
8,900.0	8,700.2	8,778.0	8,699.2	36.3	24.0	-174.76	90.2	760.3	842.9	781.8	61.13	13.790	
9,000.0	8,800.1	8,877.9	8,799.1	36.6	24.0	-174.78	90.2	760.3	846.2	784.7	61.52	13.756	
9,100.0	8,900.1	8,977.9	8,899.1	36.9	24.0	-174.80	90.2	760.3	848.6	786.7	61.88	13.713	
9,200.0	9,000.1	9,077.9	8,999.1	37.2	24.1	-174.81	90.2	760.3	850.1	787.9	62.21	13.665	
9,300.0	9,100.1	9,177.9	9,099.1	37.4	24.1	-174.81	90.2	760.3	850.7	788.3	62.48	13.616	
9,324.5	9,124.6	9,202.4	9,123.6	37.4	24.1	-85.81	90.2	760.3	850.8	788.2	62.51	13.610	
9,400.0	9,200.1	9,277.9	9,199.1	37.4	24.2	-85.81	90.2	760.3	850.8	788.2	62.55	13.602	
9,500.0	9,300.1	9,377.9	9,299.1	37.4	24.2	-85.81	90.2	760.3	850.8	788.2	62.60	13.590	
9,600.0	9,400.1	9,477.9	9,399.1	37.4	24.2	-85.81	90.2	760.3	850.8	788.1	62.65	13.579	
9,700.0	9,500.1	9,577.9	9,499.1	37.5	24.3	-85.81	90.2	760.3	850.8	788.0	62.71	13.567	
9,800.0	9,600.1	9,677.9	9,599.1	37.5	24.3	-85.81	90.2	760.3	850.8	788.0	62.76	13.555	
9,900.0	9,700.1	9,777.9	9,699.1	37.5	24.4	-85.81	90.2	760.3	850.8	787.9	62.82	13.543	
10,000.0	9,800.1	9,877.9	9,799.1	37.5	24.4	-85.81	90.2	760.3	850.8	787.9	62.87	13.531	
10,100.0	9,900.1	9,977.9	9,899.1	37.6	24.4	-85.81	90.2	760.3	850.8	787.8	62.93	13.519	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.0	10,000.1	10,077.9	9,999.1	37.6	24.5	-85.81	90.2	760.3	850.8	787.8	62.99	13.507	
10,300.0	10,100.1	10,177.9	10,099.1	37.6	24.5	-85.81	90.2	760.3	850.8	787.7	63.04	13.495	
10,400.0	10,200.1	10,277.9	10,199.1	37.6	24.6	-85.81	90.2	760.3	850.8	787.7	63.10	13.483	
10,500.0	10,300.1	10,377.9	10,299.1	37.6	24.6	-85.81	90.2	760.3	850.8	787.6	63.16	13.471	
10,600.0	10,400.1	10,477.9	10,399.1	37.7	24.7	-85.81	90.2	760.3	850.8	787.5	63.21	13.458	
10,700.0	10,500.1	10,577.9	10,499.1	37.7	24.7	-85.81	90.2	760.3	850.8	787.5	63.27	13.446	
10,800.0	10,600.1	10,677.9	10,599.1	37.7	24.7	-85.81	90.2	760.3	850.8	787.4	63.33	13.434	
10,900.0	10,700.1	10,777.9	10,699.1	37.7	24.8	-85.81	90.2	760.3	850.8	787.4	63.39	13.421	
11,000.0	10,800.1	10,877.9	10,799.1	37.7	24.8	-85.81	90.2	760.3	850.8	787.3	63.45	13.409	
11,100.0	10,900.1	10,977.9	10,899.1	37.8	24.9	-85.81	90.2	760.3	850.8	787.3	63.51	13.396	
11,200.0	11,000.1	11,077.9	10,999.1	37.8	24.9	-85.81	90.2	760.3	850.8	787.2	63.57	13.384	
11,300.0	11,100.1	11,177.9	11,099.1	37.8	25.0	-85.81	90.2	760.3	850.8	787.1	63.63	13.371	
11,400.0	11,200.1	11,277.9	11,199.1	37.8	25.0	-85.81	90.2	760.3	850.8	787.1	63.69	13.358	
11,461.5	11,261.5	11,339.3	11,260.5	37.8	25.0	-85.81	90.2	760.3	850.8	787.0	63.71	13.354	
11,475.0	11,275.1	11,355.1	11,276.3	37.8	25.0	94.56	90.0	760.3	850.8	787.2	63.52	13.394	
11,500.0	11,300.0	11,384.2	11,305.3	37.9	25.0	94.54	88.1	760.3	850.7	787.2	63.57	13.382	
11,525.0	11,324.9	11,413.3	11,334.2	37.9	25.0	94.51	84.5	760.4	850.7	787.1	63.63	13.370	
11,550.0	11,349.6	11,442.3	11,362.7	37.9	25.0	94.47	79.1	760.4	850.7	787.0	63.68	13.357	
11,575.0	11,374.0	11,471.3	11,390.9	37.9	25.0	94.41	72.1	760.4	850.6	786.8	63.74	13.345	
11,600.0	11,398.1	11,500.2	11,418.4	37.9	25.0	94.34	63.4	760.5	850.5	786.7	63.79	13.333	
11,625.0	11,421.9	11,529.1	11,445.3	37.9	25.0	94.25	53.0	760.6	850.4	786.6	63.84	13.321	
11,650.0	11,445.2	11,557.8	11,471.4	37.9	25.0	94.15	41.1	760.7	850.3	786.4	63.89	13.309	
11,675.0	11,468.0	11,586.3	11,496.7	37.9	25.0	94.03	27.7	760.7	850.2	786.2	63.94	13.298	
11,700.0	11,490.3	11,614.8	11,521.0	37.9	25.0	93.91	12.9	760.8	850.1	786.1	63.98	13.287	
11,725.0	11,511.9	11,643.1	11,544.2	37.9	25.0	93.77	-3.2	760.9	849.9	785.9	64.02	13.277	
11,750.0	11,532.8	11,671.2	11,566.4	37.9	25.0	93.62	-20.6	761.1	849.8	785.7	64.05	13.267	
11,775.0	11,553.0	11,699.2	11,587.3	37.9	25.1	93.46	-39.1	761.2	849.6	785.5	64.08	13.258	
11,800.0	11,572.4	11,727.0	11,607.0	37.9	25.1	93.29	-58.7	761.3	849.5	785.4	64.11	13.251	
11,825.0	11,590.9	11,754.7	11,625.4	37.9	25.1	93.12	-79.3	761.4	849.3	785.2	64.13	13.243	
11,850.0	11,608.6	11,782.1	11,642.5	37.9	25.1	92.93	-100.8	761.6	849.2	785.0	64.15	13.237	
11,875.0	11,625.3	11,809.3	11,658.2	37.9	25.1	92.73	-123.0	761.7	849.0	784.9	64.17	13.231	
11,900.0	11,641.0	11,836.4	11,672.5	37.9	25.1	92.53	-146.0	761.9	848.9	784.7	64.18	13.227	
11,925.0	11,655.6	11,863.2	11,685.5	37.9	25.1	92.32	-169.5	762.0	848.8	784.6	64.19	13.223	
11,950.0	11,669.2	11,889.9	11,696.9	37.9	25.1	92.11	-193.5	762.2	848.6	784.4	64.20	13.219	
11,975.0	11,681.6	11,916.3	11,707.0	37.9	25.2	91.89	-218.0	762.3	848.5	784.3	64.20	13.217	
12,000.0	11,692.9	11,942.5	11,715.6	37.9	25.2	91.66	-242.7	762.5	848.4	784.2	64.20	13.214	
12,025.0	11,703.0	11,968.6	11,722.8	37.9	25.2	91.43	-267.8	762.7	848.3	784.1	64.20	13.213	
12,050.0	11,712.0	11,994.4	11,728.6	38.0	25.2	91.20	-292.9	762.8	848.3	784.0	64.20	13.212	
12,075.0	11,719.6	12,020.0	11,733.0	38.0	25.3	90.97	-318.2	763.0	848.2	784.0	64.20	13.211	
12,100.0	11,726.0	12,045.5	11,736.0	38.0	25.3	90.73	-343.4	763.2	848.1	783.9	64.20	13.211	
12,125.0	11,731.2	12,070.7	11,737.6	38.0	25.3	90.50	-368.6	763.3	848.1	783.9	64.20	13.211	
12,150.0	11,735.0	12,095.7	11,738.0	38.0	25.3	90.26	-393.6	763.5	848.1	783.9	64.20	13.211	
12,175.0	11,737.6	12,120.5	11,738.0	38.0	25.4	90.09	-418.5	763.6	848.1	783.9	64.21	13.208	
12,200.0	11,738.9	12,145.5	11,738.0	38.1	25.4	90.01	-443.4	763.8	848.1	783.8	64.24	13.201	
12,211.5	11,739.0	12,157.0	11,738.0	38.1	25.4	90.00	-454.9	763.9	848.1	783.8	64.26	13.197	
12,300.0	11,739.0	12,245.5	11,738.0	38.2	25.6	90.00	-543.4	764.5	848.1	783.6	64.45	13.159	
12,400.0	11,739.0	12,345.5	11,738.0	38.3	25.7	90.00	-643.4	765.1	848.1	783.4	64.69	13.109	
12,500.0	11,739.0	12,445.5	11,738.0	38.4	25.9	90.00	-743.4	765.8	848.1	783.1	64.97	13.052	
12,600.0	11,739.0	12,545.5	11,738.0	38.5	26.1	90.00	-843.4	766.4	848.1	782.8	65.29	12.989	
12,700.0	11,739.0	12,645.5	11,738.0	38.7	26.4	90.00	-943.4	767.1	848.1	782.4	65.64	12.920	
12,800.0	11,739.0	12,745.5	11,738.0	38.8	26.6	90.00	-1,043.4	767.7	848.1	782.0	66.02	12.846	
12,900.0	11,739.0	12,845.5	11,738.0	39.0	26.9	90.00	-1,143.4	768.4	848.1	781.6	66.43	12.766	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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)			
13,000.0	11,739.0	12,945.5	11,738.0	39.2	27.2	90.00	-1,243.4	769.0	848.1	781.2	66.88	12.681	
13,100.0	11,739.0	13,045.5	11,738.0	39.4	27.5	90.00	-1,343.4	769.7	848.1	780.7	67.35	12.591	
13,200.0	11,739.0	13,145.5	11,738.0	39.7	27.8	90.00	-1,443.4	770.3	848.1	780.2	67.86	12.498	
13,300.0	11,739.0	13,245.5	11,738.0	39.9	28.2	90.00	-1,543.4	771.0	848.1	779.7	68.39	12.400	
13,400.0	11,739.0	13,345.5	11,738.0	40.2	28.5	90.00	-1,643.4	771.6	848.1	779.1	68.96	12.298	
13,500.0	11,739.0	13,445.5	11,738.0	40.4	28.9	90.00	-1,743.4	772.3	848.1	778.5	69.55	12.193	
13,600.0	11,739.0	13,545.5	11,738.0	40.7	29.3	90.00	-1,843.4	772.9	848.0	777.9	70.17	12.085	
13,700.0	11,739.0	13,645.5	11,738.0	41.0	29.7	90.00	-1,943.4	773.6	848.0	777.2	70.82	11.975	
13,800.0	11,739.0	13,745.5	11,738.0	41.3	30.1	90.00	-2,043.4	774.2	848.0	776.6	71.49	11.862	
13,900.0	11,739.0	13,845.5	11,738.0	41.6	30.5	90.00	-2,143.4	774.9	848.0	775.9	72.19	11.747	
14,000.0	11,739.0	13,945.5	11,738.0	41.9	31.0	90.00	-2,243.4	775.5	848.0	775.1	72.91	11.631	
14,100.0	11,739.0	14,045.5	11,738.0	42.3	31.4	90.00	-2,343.4	776.2	848.0	774.4	73.66	11.513	
14,200.0	11,739.0	14,145.5	11,738.0	42.6	31.9	90.00	-2,443.4	776.8	848.0	773.6	74.43	11.394	
14,300.0	11,739.0	14,245.5	11,738.0	43.0	32.4	90.00	-2,543.4	777.5	848.0	772.8	75.22	11.274	
14,400.0	11,739.0	14,345.5	11,738.0	43.4	32.9	90.00	-2,643.4	778.1	848.0	772.0	76.04	11.153	
14,500.0	11,739.0	14,445.5	11,738.0	43.7	33.4	90.00	-2,743.4	778.8	848.0	771.2	76.87	11.032	
14,600.0	11,739.0	14,545.5	11,738.0	44.1	33.9	90.00	-2,843.4	779.4	848.0	770.3	77.73	10.910	
14,700.0	11,739.0	14,645.5	11,738.0	44.5	34.4	90.00	-2,943.4	780.1	848.0	769.4	78.60	10.789	
14,800.0	11,739.0	14,745.5	11,738.0	44.9	34.9	90.00	-3,043.4	780.7	848.0	768.5	79.50	10.668	
14,900.0	11,739.0	14,845.5	11,738.0	45.3	35.5	90.00	-3,143.4	781.4	848.0	767.6	80.41	10.546	
15,000.0	11,739.0	14,945.5	11,738.0	45.8	36.0	90.00	-3,243.4	782.0	848.0	766.7	81.34	10.426	
15,100.0	11,739.0	15,045.5	11,738.0	46.2	36.6	90.00	-3,343.4	782.7	848.0	765.7	82.29	10.306	
15,200.0	11,739.0	15,145.5	11,738.0	46.6	37.1	90.00	-3,443.4	783.3	848.0	764.8	83.25	10.186	
15,300.0	11,739.0	15,245.5	11,738.0	47.1	37.7	90.00	-3,543.4	784.0	848.0	763.8	84.23	10.068	
15,400.0	11,739.0	15,345.5	11,738.0	47.6	38.3	90.00	-3,643.3	784.6	848.0	762.8	85.23	9.950	
15,500.0	11,739.0	15,445.5	11,738.0	48.0	38.8	90.00	-3,743.3	785.3	848.0	761.8	86.24	9.834	
15,600.0	11,739.0	15,545.5	11,738.0	48.5	39.4	90.00	-3,843.3	785.9	848.0	760.8	87.26	9.718	
15,700.0	11,739.0	15,645.5	11,738.0	49.0	40.0	90.00	-3,943.3	786.6	848.0	759.7	88.30	9.604	
15,800.0	11,739.0	15,745.5	11,738.0	49.5	40.6	90.00	-4,043.3	787.2	848.0	758.7	89.35	9.491	
15,900.0	11,739.0	15,845.5	11,738.0	50.0	41.2	90.00	-4,143.3	787.9	848.0	757.6	90.42	9.379	
16,000.0	11,739.0	15,945.5	11,738.0	50.5	41.8	90.00	-4,243.3	788.5	848.0	756.5	91.50	9.268	
16,100.0	11,739.0	16,045.5	11,738.0	51.0	42.4	90.00	-4,343.3	789.2	848.0	755.4	92.59	9.159	
16,200.0	11,739.0	16,145.5	11,738.0	51.5	43.0	90.00	-4,443.3	789.8	848.0	754.3	93.69	9.052	
16,300.0	11,739.0	16,245.5	11,738.0	52.0	43.7	90.00	-4,543.3	790.5	848.0	753.2	94.80	8.945	
16,400.0	11,739.0	16,345.5	11,738.0	52.5	44.3	90.00	-4,643.3	791.1	848.0	752.1	95.92	8.841	
16,500.0	11,739.0	16,445.5	11,738.0	53.0	44.9	90.00	-4,743.3	791.8	848.0	751.0	97.06	8.737	
16,600.0	11,739.0	16,545.5	11,738.0	53.6	45.6	90.00	-4,843.3	792.4	848.0	749.8	98.20	8.636	
16,700.0	11,739.0	16,645.5	11,738.0	54.1	46.2	90.00	-4,943.3	793.1	848.0	748.7	99.35	8.535	
16,800.0	11,739.0	16,745.5	11,738.0	54.7	46.8	90.00	-5,043.3	793.8	848.0	747.5	100.52	8.437	
16,900.0	11,739.0	16,845.5	11,738.0	55.2	47.5	90.00	-5,143.3	794.4	848.0	746.3	101.69	8.339	
17,000.0	11,739.0	16,945.5	11,738.0	55.8	48.1	90.00	-5,243.3	795.1	848.0	745.2	102.87	8.244	
17,100.0	11,739.0	17,045.5	11,738.0	56.3	48.8	90.00	-5,343.3	795.7	848.0	744.0	104.06	8.150	
17,200.0	11,739.0	17,145.5	11,738.0	56.9	49.4	90.00	-5,443.3	796.4	848.0	742.8	105.26	8.057	
17,300.0	11,739.0	17,245.5	11,738.0	57.5	50.1	90.00	-5,543.3	797.0	848.0	741.6	106.46	7.966	
17,400.0	11,739.0	17,345.5	11,738.0	58.1	50.8	90.00	-5,643.3	797.7	848.0	740.3	107.67	7.876	
17,500.0	11,739.0	17,445.5	11,738.0	58.6	51.4	90.00	-5,743.3	798.3	848.0	739.1	108.89	7.788	
17,600.0	11,739.0	17,545.5	11,738.0	59.2	52.1	90.00	-5,843.3	799.0	848.0	737.9	110.12	7.701	
17,700.0	11,739.0	17,645.5	11,738.0	59.8	52.8	90.00	-5,943.3	799.6	848.0	736.7	111.35	7.616	
17,800.0	11,739.0	17,745.5	11,738.0	60.4	53.4	90.00	-6,043.3	800.3	848.0	735.4	112.59	7.532	
17,900.0	11,739.0	17,845.5	11,738.0	61.0	54.1	90.00	-6,143.3	800.9	848.0	734.2	113.84	7.449	
18,000.0	11,739.0	17,945.5	11,738.0	61.6	54.8	90.00	-6,243.3	801.6	848.0	732.9	115.10	7.368	
18,100.0	11,739.0	18,045.5	11,738.0	62.2	55.5	90.00	-6,343.3	802.2	848.0	731.7	116.35	7.288	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	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	
18,200.0	11,739.0	18,145.5	11,738.0	62.8	56.1	90.00	-6,443.3	802.9	848.0	730.4	117.62	7.210	
18,300.0	11,739.0	18,245.5	11,738.0	63.4	56.8	90.00	-6,543.3	803.5	848.0	729.1	118.89	7.133	
18,400.0	11,739.0	18,345.5	11,738.0	64.0	57.5	90.00	-6,643.3	804.2	848.0	727.8	120.17	7.057	
18,500.0	11,739.0	18,445.5	11,738.0	64.6	58.2	90.00	-6,743.3	804.8	848.0	726.6	121.45	6.982	
18,600.0	11,739.0	18,545.5	11,738.0	65.3	58.9	90.00	-6,843.3	805.5	848.0	725.3	122.74	6.909	
18,700.0	11,739.0	18,645.5	11,738.0	65.9	59.6	90.00	-6,943.3	806.1	848.0	724.0	124.03	6.837	
18,800.0	11,739.0	18,745.5	11,738.0	66.5	60.3	90.00	-7,043.3	806.8	848.0	722.7	125.32	6.767	
18,900.0	11,739.0	18,845.5	11,738.0	67.1	61.0	90.00	-7,143.3	807.4	848.0	721.4	126.62	6.697	
19,000.0	11,739.0	18,945.5	11,738.0	67.8	61.7	90.00	-7,243.3	808.1	848.0	720.1	127.93	6.629	
19,100.0	11,739.0	19,045.5	11,738.0	68.4	62.4	90.00	-7,343.3	808.7	848.0	718.8	129.24	6.561	
19,200.0	11,739.0	19,145.5	11,738.0	69.0	63.0	90.00	-7,443.3	809.4	848.0	717.5	130.55	6.495	
19,300.0	11,739.0	19,245.5	11,738.0	69.7	63.8	90.00	-7,543.3	810.0	848.0	716.1	131.87	6.430	
19,400.0	11,739.0	19,345.5	11,738.0	70.3	64.5	90.00	-7,643.3	810.7	848.0	714.8	133.19	6.367	
19,500.0	11,739.0	19,445.5	11,738.0	70.9	65.2	90.00	-7,743.3	811.3	848.0	713.5	134.52	6.304	
19,600.0	11,739.0	19,545.5	11,738.0	71.6	65.9	90.00	-7,843.3	812.0	848.0	712.2	135.85	6.242	
19,700.0	11,739.0	19,645.5	11,738.0	72.2	66.6	90.00	-7,943.3	812.6	848.0	710.8	137.18	6.181	
19,800.0	11,739.0	19,745.5	11,738.0	72.9	67.3	90.00	-8,043.3	813.3	848.0	709.5	138.52	6.122	
19,900.0	11,739.0	19,845.5	11,738.0	73.5	68.0	90.00	-8,143.3	813.9	848.0	708.1	139.86	6.063	
20,000.0	11,739.0	19,945.5	11,738.0	74.2	68.7	90.00	-8,243.3	814.6	848.0	706.8	141.21	6.005	
20,100.0	11,739.0	20,045.5	11,738.0	74.8	69.4	90.00	-8,343.3	815.2	848.0	705.4	142.55	5.949	
20,200.0	11,739.0	20,145.5	11,738.0	75.5	70.1	90.00	-8,443.2	815.9	848.0	704.1	143.90	5.893	
20,300.0	11,739.0	20,245.5	11,738.0	76.2	70.8	90.00	-8,543.2	816.5	848.0	702.7	145.26	5.838	
20,400.0	11,739.0	20,345.5	11,738.0	76.8	71.5	90.00	-8,643.2	817.2	848.0	701.4	146.61	5.784	
20,500.0	11,739.0	20,445.5	11,738.0	77.5	72.3	90.00	-8,743.2	817.8	848.0	700.0	147.97	5.731	
20,600.0	11,739.0	20,545.5	11,738.0	78.2	73.0	90.00	-8,843.2	818.5	848.0	698.7	149.34	5.678	
20,700.0	11,739.0	20,645.5	11,738.0	78.8	73.7	90.00	-8,943.2	819.1	848.0	697.3	150.70	5.627	
20,800.0	11,739.0	20,745.5	11,738.0	79.5	74.4	90.00	-9,043.2	819.8	848.0	695.9	152.07	5.576	
20,900.0	11,739.0	20,845.5	11,738.0	80.2	75.1	90.00	-9,143.2	820.4	848.0	694.6	153.44	5.527	
21,000.0	11,739.0	20,945.5	11,738.0	80.8	75.8	90.00	-9,243.2	821.1	848.0	693.2	154.81	5.478	
21,100.0	11,739.0	21,045.5	11,738.0	81.5	76.6	90.00	-9,343.2	821.7	848.0	691.8	156.19	5.429	
21,200.0	11,739.0	21,145.5	11,738.0	82.2	77.3	90.00	-9,443.2	822.4	848.0	690.4	157.56	5.382	
21,300.0	11,739.0	21,245.5	11,738.0	82.9	78.0	90.00	-9,543.2	823.0	848.0	689.0	158.94	5.335	
21,400.0	11,739.0	21,345.5	11,738.0	83.5	78.7	90.00	-9,643.2	823.7	848.0	687.7	160.33	5.289	
21,500.0	11,739.0	21,445.5	11,738.0	84.2	79.5	90.00	-9,743.2	824.3	848.0	686.3	161.71	5.244	
21,600.0	11,739.0	21,545.5	11,738.0	84.9	80.2	90.00	-9,843.2	825.0	848.0	684.9	163.10	5.199	
21,697.5	11,739.0	21,643.0	11,738.0	85.6	80.9	90.00	-9,940.7	825.6	848.0	683.5	164.45	5.157	
21,700.0	11,739.0	21,645.5	11,738.0	85.6	80.9	90.00	-9,943.2	825.6	848.0	683.5	164.48	5.155	
21,747.0	11,739.0	21,692.5	11,738.0	85.9	81.2	90.00	-9,990.2	826.0	848.0	682.9	165.13	5.135	
21,747.5	11,739.0	21,692.9	11,738.0	85.9	81.2	90.00	-9,990.6	826.0	848.0	682.8	165.14	5.135	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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	0.0	0.0	3.0	3.0	-56.28	16.8	-25.1	30.2	23.2	6.98	4.328		
100.0	100.0	100.0	100.0	3.1	3.1	-56.28	16.8	-25.1	30.2	23.0	7.23	4.181		
200.0	200.0	200.0	200.0	3.2	3.2	-56.28	16.8	-25.1	30.2	22.7	7.46	4.048		
300.0	300.0	300.0	300.0	3.4	3.4	-56.28	16.8	-25.1	30.2	22.5	7.70	3.926		
400.0	400.0	400.0	400.0	3.5	3.5	-56.28	16.8	-25.1	30.2	22.3	7.92	3.814		
500.0	500.0	500.0	500.0	3.6	3.6	-56.28	16.8	-25.1	30.2	22.1	8.14	3.711		
600.0	600.0	600.0	600.0	3.7	3.7	-56.28	16.8	-25.1	30.2	21.9	8.36	3.615		
700.0	700.0	700.0	700.0	3.9	3.9	-56.28	16.8	-25.1	30.2	21.6	8.57	3.525		
800.0	800.0	800.0	800.0	4.0	4.0	-56.28	16.8	-25.1	30.2	21.4	8.78	3.442		
900.0	900.0	900.0	900.0	4.1	4.1	-56.28	16.8	-25.1	30.2	21.2	8.98	3.363		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.28	16.8	-25.1	30.2	21.0	9.18	3.290		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.28	16.8	-25.1	30.2	20.8	9.38	3.220		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	-56.28	16.8	-25.1	30.2	20.6	9.58	3.154		
1,300.0	1,300.0	1,300.0	1,300.0	4.6	4.6	-56.28	16.8	-25.1	30.2	20.4	9.77	3.092		
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-56.28	16.8	-25.1	30.2	20.3	9.96	3.033		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.28	16.8	-25.1	30.2	20.1	10.15	2.977 CC		
1,600.0	1,600.0	1,600.9	1,600.8	4.9	4.9	-145.22	16.8	-23.4	30.2	20.1	10.13	2.984		
1,700.0	1,699.8	1,701.7	1,701.6	5.1	5.1	-145.03	17.0	-18.0	30.2	19.7	10.58	2.858		
1,800.0	1,799.5	1,802.6	1,802.0	5.3	5.3	-144.70	17.3	-9.2	30.3	19.2	11.05	2.740		
1,900.0	1,898.7	1,903.4	1,902.1	5.6	5.6	-144.26	17.8	3.2	30.3	18.8	11.53	2.628		
2,000.0	1,997.5	2,004.3	2,001.7	5.9	5.9	-143.68	18.3	19.1	30.4	18.3	12.03	2.523		
2,100.0	2,095.6	2,105.1	2,100.7	6.3	6.3	-142.99	19.0	38.5	30.4	17.9	12.55	2.424		
2,200.0	2,193.1	2,205.9	2,198.8	6.6	6.6	-142.18	19.8	61.3	30.5	17.4	13.09	2.332 ES, SF		
2,300.0	2,289.6	2,305.9	2,295.8	7.0	7.0	-143.47	20.6	85.5	32.2	18.5	13.71	2.347		
2,400.0	2,385.8	2,405.8	2,392.8	7.3	7.3	-146.30	21.5	109.7	35.3	20.9	14.38	2.453		
2,500.0	2,481.9	2,505.8	2,489.8	7.7	7.6	-148.67	22.3	133.8	38.4	23.4	15.09	2.548		
2,600.0	2,578.0	2,605.7	2,586.7	8.0	8.0	-150.67	23.2	158.0	41.7	25.8	15.84	2.632		
2,700.0	2,674.1	2,705.7	2,683.7	8.4	8.4	-152.38	24.0	182.2	44.9	28.3	16.61	2.706		
2,800.0	2,770.3	2,805.6	2,780.7	8.8	8.8	-153.86	24.9	206.3	48.3	30.8	17.41	2.772		
2,900.0	2,866.4	2,905.5	2,877.6	9.2	9.1	-155.15	25.7	230.5	51.6	33.4	18.23	2.830		
3,000.0	2,962.5	3,005.5	2,974.6	9.6	9.6	-156.28	26.5	254.7	54.9	35.9	19.07	2.881		
3,100.0	3,058.7	3,105.4	3,071.6	10.1	10.0	-157.28	27.4	278.8	58.3	38.4	19.93	2.927		
3,200.0	3,154.8	3,205.4	3,168.5	10.5	10.4	-158.17	28.2	303.0	61.7	40.9	20.80	2.968		
3,300.0	3,250.9	3,305.3	3,265.5	10.9	10.8	-158.97	29.1	327.1	65.1	43.4	21.68	3.004		
3,400.0	3,347.0	3,405.2	3,362.5	11.4	11.2	-159.69	29.9	351.3	68.5	46.0	22.57	3.037		
3,500.0	3,443.2	3,505.2	3,459.5	11.8	11.7	-160.34	30.8	375.5	72.0	48.5	23.47	3.066		
3,600.0	3,539.3	3,605.1	3,556.4	12.3	12.1	-160.93	31.6	399.6	75.4	51.0	24.38	3.092		
3,700.0	3,635.4	3,705.0	3,653.4	12.7	12.6	-161.47	32.4	423.8	78.9	53.5	25.30	3.116		
3,800.0	3,731.5	3,805.0	3,750.4	13.2	13.0	-161.96	33.3	448.0	82.3	56.1	26.23	3.138		
3,900.0	3,827.7	3,904.9	3,847.3	13.6	13.5	-162.42	34.1	472.1	85.8	58.6	27.16	3.158		
4,000.0	3,923.8	4,004.9	3,944.3	14.1	13.9	-162.84	35.0	496.3	89.2	61.1	28.09	3.176		
4,100.0	4,019.9	4,104.8	4,041.3	14.6	14.4	-163.22	35.8	520.4	92.7	63.6	29.04	3.192		
4,200.0	4,116.0	4,204.7	4,138.2	15.0	14.8	-163.58	36.7	544.6	96.1	66.2	29.98	3.207		
4,300.0	4,212.2	4,304.7	4,235.2	15.5	15.3	-163.92	37.5	568.8	99.6	68.7	30.93	3.221		
4,400.0	4,308.3	4,404.6	4,332.2	16.0	15.7	-164.23	38.4	592.9	103.1	71.2	31.88	3.234		
4,500.0	4,404.4	4,504.5	4,429.1	16.4	16.2	-164.52	39.2	617.1	106.6	73.7	32.84	3.245		
4,600.0	4,500.5	4,604.5	4,526.1	16.9	16.7	-164.80	40.0	641.3	110.1	76.3	33.80	3.256		
4,700.0	4,596.7	4,704.4	4,623.1	17.4	17.1	-165.05	40.9	665.4	113.5	78.8	34.76	3.266		
4,800.0	4,692.8	4,804.4	4,720.1	17.9	17.6	-165.30	41.7	689.6	117.0	81.3	35.72	3.276		
4,900.0	4,788.9	4,904.3	4,817.0	18.4	18.1	-165.52	42.6	713.7	120.5	83.8	36.69	3.285		
5,000.0	4,885.0	5,004.2	4,914.0	18.8	18.6	-165.74	43.4	737.9	124.0	86.3	37.66	3.293		
5,100.0	4,981.2	5,104.2	5,011.0	19.3	19.0	-165.94	44.3	762.1	127.5	88.9	38.63	3.300		

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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
5,200.0	5,077.3	5,204.1	5,107.9	19.8	19.5	-166.13	45.1	786.2	131.0	91.4	39.60	3.308	
5,300.0	5,173.4	5,304.1	5,204.9	20.3	20.0	-166.31	45.9	810.4	134.5	93.9	40.57	3.314	
5,400.0	5,269.6	5,404.0	5,301.9	20.8	20.4	-166.49	46.8	834.6	138.0	96.4	41.55	3.321	
5,500.0	5,365.7	5,503.9	5,398.8	21.3	20.9	-166.65	47.6	858.7	141.5	98.9	42.53	3.327	
5,600.0	5,461.8	5,603.9	5,495.8	21.8	21.4	-166.81	48.5	882.9	145.0	101.5	43.50	3.332	
5,700.0	5,557.9	5,703.8	5,592.8	22.3	21.9	-166.96	49.3	907.0	148.5	104.0	44.48	3.338	
5,800.0	5,654.1	5,803.7	5,689.8	22.7	22.3	-167.10	50.2	931.2	152.0	106.5	45.46	3.343	
5,900.0	5,750.2	5,903.7	5,786.7	23.2	22.8	-167.24	51.0	955.4	155.5	109.0	46.44	3.347	
6,000.0	5,846.3	6,003.6	5,883.7	23.7	23.3	-167.36	51.9	979.5	159.0	111.5	47.43	3.352	
6,100.0	5,942.4	6,103.6	5,980.7	24.2	23.8	-167.49	52.7	1,003.7	162.5	114.1	48.41	3.356	
6,124.5	5,966.0	6,128.1	6,004.4	24.3	23.9	-167.52	52.9	1,009.6	163.3	114.7	48.64	3.358	
6,200.0	6,038.6	6,202.0	6,076.2	24.7	24.2	-167.61	53.5	1,027.2	166.0	116.6	49.36	3.363	
6,300.0	6,135.1	6,300.0	6,171.7	25.2	24.7	-167.79	54.3	1,049.2	170.1	119.8	50.32	3.381	
6,400.0	6,231.7	6,396.2	6,265.8	25.7	25.2	-168.01	55.0	1,069.2	175.1	123.9	51.25	3.417	
6,500.0	6,328.6	6,493.0	6,360.9	26.2	25.6	-168.29	55.6	1,087.8	180.9	128.7	52.17	3.467	
6,600.0	6,425.7	6,589.8	6,456.1	26.6	26.0	-168.61	56.2	1,104.7	187.4	134.4	53.06	3.533	
6,700.0	6,522.9	6,686.4	6,551.5	27.1	26.5	-168.96	56.8	1,119.9	194.8	140.9	53.94	3.612	
6,800.0	6,620.4	6,782.8	6,646.9	27.6	26.9	-169.33	57.2	1,133.6	203.0	148.2	54.78	3.705	
6,900.0	6,718.1	6,878.9	6,742.3	28.1	27.3	-169.72	57.7	1,145.6	211.9	156.3	55.60	3.811	
7,000.0	6,816.0	6,974.9	6,837.7	28.5	27.7	-170.12	58.0	1,155.9	221.7	165.3	56.39	3.931	
7,100.0	6,914.0	7,070.6	6,933.0	29.0	28.0	-170.53	58.3	1,164.7	232.2	175.1	57.14	4.063	
7,200.0	7,012.2	7,166.0	7,028.2	29.5	28.4	-170.93	58.6	1,171.8	243.5	185.7	57.86	4.209	
7,300.0	7,110.6	7,261.2	7,123.2	29.9	28.7	-171.34	58.8	1,177.4	255.6	197.1	58.54	4.367	
7,400.0	7,209.1	7,356.1	7,218.0	30.4	29.0	-171.73	58.9	1,181.4	268.5	209.3	59.17	4.538	
7,500.0	7,307.8	7,450.6	7,312.5	30.8	29.3	-172.12	59.0	1,183.8	282.2	222.4	59.74	4.723	
7,600.0	7,406.6	7,544.8	7,406.7	31.3	29.5	-172.49	59.0	1,184.6	296.6	236.4	60.21	4.926	
7,700.0	7,505.5	7,643.6	7,505.5	31.7	29.5	-172.85	59.0	1,184.6	311.0	250.3	60.70	5.124	
7,800.0	7,604.6	7,742.7	7,604.6	32.1	29.5	-173.16	59.0	1,184.6	324.6	263.4	61.19	5.305	
7,900.0	7,703.7	7,841.8	7,703.7	32.6	29.6	-173.43	59.0	1,184.6	337.4	275.7	61.68	5.470	
8,000.0	7,803.0	7,941.1	7,803.0	33.0	29.6	-173.66	59.0	1,184.6	349.3	287.1	62.15	5.620	
8,100.0	7,902.4	8,040.5	7,902.4	33.4	29.6	-173.86	59.0	1,184.6	360.3	297.7	62.62	5.754	
8,200.0	8,001.9	8,140.0	8,001.9	33.8	29.6	-174.03	59.0	1,184.6	370.5	307.4	63.08	5.874	
8,300.0	8,101.4	8,239.5	8,101.4	34.2	29.7	-174.18	59.0	1,184.6	379.8	316.3	63.52	5.979	
8,400.0	8,201.1	8,339.2	8,201.1	34.6	29.7	-174.32	59.0	1,184.6	388.3	324.3	63.97	6.070	
8,500.0	8,300.8	8,438.9	8,300.8	34.9	29.7	-174.43	59.0	1,184.6	395.8	331.4	64.40	6.147	
8,600.0	8,400.5	8,538.7	8,400.5	35.3	29.7	-174.53	59.0	1,184.6	402.6	337.7	64.82	6.211	
8,700.0	8,500.4	8,638.5	8,500.4	35.7	29.8	-174.61	59.0	1,184.6	408.4	343.2	65.22	6.262	
8,800.0	8,600.2	8,738.4	8,600.2	36.0	29.8	-174.67	59.0	1,184.6	413.4	347.8	65.62	6.300	
8,900.0	8,700.2	8,838.3	8,700.2	36.3	29.8	-174.73	59.0	1,184.6	417.5	351.5	65.99	6.327	
9,000.0	8,800.1	8,938.2	8,800.1	36.6	29.8	-174.77	59.0	1,184.6	420.8	354.4	66.35	6.342	
9,100.0	8,900.1	9,038.2	8,900.1	36.9	29.9	-174.80	59.0	1,184.6	423.2	356.5	66.69	6.345	
9,200.0	9,000.1	9,138.2	9,000.1	37.2	29.9	-174.82	59.0	1,184.6	424.7	357.7	67.00	6.339	
9,300.0	9,100.1	9,238.2	9,100.1	37.4	29.9	-174.83	59.0	1,184.6	425.3	358.1	67.24	6.325	
9,324.5	9,124.6	9,262.7	9,124.6	37.4	29.9	-85.83	59.0	1,184.6	425.4	358.1	67.27	6.323	
9,400.0	9,200.1	9,338.2	9,200.1	37.4	30.0	-85.83	59.0	1,184.6	425.4	358.1	67.30	6.320	
9,500.0	9,300.1	9,438.2	9,300.1	37.4	30.0	-85.83	59.0	1,184.6	425.4	358.0	67.35	6.316	
9,600.0	9,400.1	9,538.2	9,400.1	37.4	30.0	-85.83	59.0	1,184.6	425.4	358.0	67.40	6.311	
9,700.0	9,500.1	9,638.2	9,500.1	37.5	30.1	-85.83	59.0	1,184.6	425.4	357.9	67.45	6.307	
9,800.0	9,600.1	9,738.2	9,600.1	37.5	30.1	-85.83	59.0	1,184.6	425.4	357.9	67.49	6.302	
9,900.0	9,700.1	9,838.2	9,700.1	37.5	30.1	-85.83	59.0	1,184.6	425.4	357.8	67.54	6.298	
10,000.0	9,800.1	9,938.2	9,800.1	37.5	30.1	-85.83	59.0	1,184.6	425.4	357.8	67.59	6.293	
10,100.0	9,900.1	10,038.2	9,900.1	37.6	30.2	-85.83	59.0	1,184.6	425.4	357.7	67.64	6.289	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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	
10,200.0	10,000.1	10,138.2	10,000.1	37.6	30.2	-85.83	59.0	1,184.6	425.4	357.7	67.69	6.284	
10,300.0	10,100.1	10,238.2	10,100.1	37.6	30.2	-85.83	59.0	1,184.6	425.4	357.6	67.74	6.279	
10,400.0	10,200.1	10,338.2	10,200.1	37.6	30.3	-85.83	59.0	1,184.6	425.4	357.6	67.79	6.275	
10,500.0	10,300.1	10,438.2	10,300.1	37.6	30.3	-85.83	59.0	1,184.6	425.4	357.5	67.84	6.270	
10,600.0	10,400.1	10,538.2	10,400.1	37.7	30.3	-85.83	59.0	1,184.6	425.4	357.5	67.89	6.265	
10,700.0	10,500.1	10,638.2	10,500.1	37.7	30.4	-85.83	59.0	1,184.6	425.4	357.4	67.94	6.260	
10,800.0	10,600.1	10,738.2	10,600.1	37.7	30.4	-85.83	59.0	1,184.6	425.4	357.4	68.00	6.256	
10,900.0	10,700.1	10,838.2	10,700.1	37.7	30.4	-85.83	59.0	1,184.6	425.4	357.3	68.05	6.251	
11,000.0	10,800.1	10,938.2	10,800.1	37.7	30.4	-85.83	59.0	1,184.6	425.4	357.3	68.10	6.246	
11,100.0	10,900.1	11,038.2	10,900.1	37.8	30.5	-85.83	59.0	1,184.6	425.4	357.2	68.15	6.241	
11,200.0	11,000.1	11,138.2	11,000.1	37.8	30.5	-85.83	59.0	1,184.6	425.4	357.2	68.21	6.236	
11,300.0	11,100.1	11,238.2	11,100.1	37.8	30.5	-85.83	59.0	1,184.6	425.4	357.1	68.26	6.232	
11,400.0	11,200.1	11,338.2	11,200.1	37.8	30.6	-85.83	59.0	1,184.6	425.4	357.0	68.31	6.227	
11,461.5	11,261.5	11,399.6	11,261.5	37.8	30.6	-85.83	59.0	1,184.6	425.4	357.0	68.34	6.224	
11,475.0	11,275.1	11,413.2	11,275.1	37.8	30.6	94.57	59.0	1,184.6	425.4	357.2	68.21	6.236	
11,500.0	11,300.0	11,438.1	11,300.0	37.9	30.6	94.74	59.0	1,184.6	425.5	357.3	68.20	6.238	
11,525.0	11,324.9	11,463.0	11,324.9	37.9	30.6	95.06	59.0	1,184.6	425.7	357.5	68.18	6.244	
11,550.0	11,349.6	11,487.7	11,349.6	37.9	30.6	95.54	59.0	1,184.6	426.1	358.0	68.14	6.254	
11,575.0	11,374.0	11,512.1	11,374.0	37.9	30.6	96.16	59.0	1,184.6	426.6	358.6	68.07	6.268	
11,600.0	11,398.1	11,536.2	11,398.1	37.9	30.6	96.91	59.0	1,184.6	427.4	359.4	67.97	6.288	
11,625.0	11,421.9	11,560.0	11,421.9	37.9	30.6	97.77	59.0	1,184.6	428.4	360.6	67.85	6.315	
11,650.0	11,445.2	11,584.8	11,446.7	37.9	30.7	98.78	58.9	1,184.6	429.8	362.2	67.63	6.355	
11,675.0	11,468.0	11,612.4	11,474.3	37.9	30.7	99.91	57.5	1,184.6	431.4	363.8	67.58	6.384	
11,700.0	11,490.3	11,640.8	11,502.5	37.9	30.7	101.03	54.4	1,184.6	433.1	365.6	67.54	6.413	
11,725.0	11,511.9	11,669.8	11,531.1	37.9	30.7	102.12	49.6	1,184.6	435.0	367.5	67.52	6.442	
11,750.0	11,532.8	11,699.7	11,560.1	37.9	30.7	103.20	42.7	1,184.7	437.0	369.4	67.53	6.471	
11,775.0	11,553.0	11,730.3	11,589.5	37.9	30.7	104.25	33.9	1,184.7	439.0	371.5	67.56	6.499	
11,800.0	11,572.4	11,761.8	11,618.9	37.9	30.7	105.26	22.8	1,184.8	441.2	373.6	67.62	6.525	
11,825.0	11,590.9	11,794.1	11,648.3	37.9	30.7	106.24	9.5	1,184.9	443.3	375.6	67.70	6.548	
11,850.0	11,608.6	11,827.3	11,677.5	37.9	30.7	107.18	-6.3	1,185.0	445.5	377.7	67.82	6.568	
11,875.0	11,625.3	11,861.3	11,706.3	37.9	30.7	108.08	-24.5	1,185.1	447.6	379.6	67.97	6.585	
11,900.0	11,641.0	11,896.2	11,734.4	37.9	30.7	108.91	-45.3	1,185.3	449.7	381.5	68.15	6.598	
11,925.0	11,655.6	11,932.0	11,761.4	37.9	30.7	109.69	-68.6	1,185.4	451.6	383.3	68.36	6.607	
11,950.0	11,669.2	11,968.6	11,787.3	37.9	30.7	110.39	-94.5	1,185.6	453.5	384.9	68.59	6.611	
11,975.0	11,681.6	12,005.9	11,811.5	37.9	30.7	111.02	-122.8	1,185.8	455.1	386.3	68.85	6.611	
12,000.0	11,692.9	12,043.9	11,833.8	37.9	30.7	111.56	-153.6	1,186.0	456.6	387.5	69.11	6.606	
12,025.0	11,703.0	12,082.5	11,853.9	37.9	30.7	112.01	-186.5	1,186.2	457.8	388.4	69.39	6.597	
12,050.0	11,712.0	12,121.6	11,871.5	38.0	30.8	112.36	-221.5	1,186.4	458.8	389.1	69.67	6.585	
12,075.0	11,719.6	12,161.1	11,886.3	38.0	30.8	112.61	-258.1	1,186.6	459.5	389.5	69.94	6.570	
12,100.0	11,726.0	12,200.9	11,898.0	38.0	30.8	112.76	-296.1	1,186.9	459.8	389.7	70.19	6.552	
12,125.0	11,731.2	12,240.8	11,906.6	38.0	30.8	112.79	-335.0	1,187.1	459.9	389.5	70.42	6.531	
12,150.0	11,735.0	12,280.6	11,912.0	38.0	30.9	112.72	-374.5	1,187.4	459.7	389.1	70.63	6.510	
12,175.0	11,737.6	12,320.3	11,914.0	38.0	30.9	112.54	-414.1	1,187.7	459.2	388.4	70.80	6.487	
12,200.0	11,738.9	12,346.9	11,914.0	38.1	30.9	112.44	-440.7	1,187.8	458.8	387.9	70.86	6.475	
12,211.5	11,739.0	12,358.3	11,914.0	38.1	31.0	112.43	-452.1	1,187.9	458.7	387.8	70.87	6.472	
12,300.0	11,739.0	12,446.9	11,914.0	38.2	31.1	112.43	-540.7	1,188.5	458.7	387.7	71.04	6.457	
12,400.0	11,739.0	12,546.9	11,914.0	38.3	31.2	112.43	-640.7	1,189.1	458.7	387.5	71.26	6.437	
12,500.0	11,739.0	12,646.9	11,914.0	38.4	31.4	112.43	-740.6	1,189.8	458.7	387.2	71.51	6.415	
12,600.0	11,739.0	12,746.9	11,914.0	38.5	31.5	112.43	-840.6	1,190.4	458.7	386.9	71.79	6.390	
12,700.0	11,739.0	12,846.9	11,914.0	38.7	31.7	112.43	-940.6	1,191.1	458.7	386.6	72.10	6.362	
12,800.0	11,739.0	12,946.9	11,914.0	38.8	31.9	112.43	-1,040.6	1,191.7	458.7	386.3	72.44	6.332	
12,900.0	11,739.0	13,046.9	11,914.0	39.0	32.2	112.43	-1,140.6	1,192.4	458.7	385.9	72.82	6.300	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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)			
13,000.0	11,739.0	13,146.9	11,914.0	39.2	32.4	112.43	-1,240.6	1,193.0	458.7	385.5	73.22	6.265	
13,100.0	11,739.0	13,246.9	11,914.0	39.4	32.7	112.43	-1,340.6	1,193.7	458.7	385.1	73.65	6.228	
13,200.0	11,739.0	13,346.9	11,914.0	39.7	32.9	112.43	-1,440.6	1,194.3	458.7	384.6	74.11	6.190	
13,300.0	11,739.0	13,446.9	11,914.0	39.9	33.2	112.43	-1,540.6	1,195.0	458.7	384.1	74.60	6.149	
13,400.0	11,739.0	13,546.9	11,914.0	40.2	33.5	112.43	-1,640.6	1,195.6	458.7	383.6	75.11	6.107	
13,500.0	11,739.0	13,646.9	11,914.0	40.4	33.9	112.43	-1,740.6	1,196.3	458.7	383.1	75.66	6.063	
13,600.0	11,739.0	13,746.9	11,914.0	40.7	34.2	112.43	-1,840.6	1,196.9	458.7	382.5	76.23	6.018	
13,700.0	11,739.0	13,846.9	11,914.0	41.0	34.5	112.43	-1,940.6	1,197.6	458.7	381.9	76.82	5.971	
13,800.0	11,739.0	13,946.9	11,914.0	41.3	34.9	112.43	-2,040.6	1,198.2	458.7	381.3	77.44	5.923	
13,900.0	11,739.0	14,046.9	11,914.0	41.6	35.3	112.43	-2,140.6	1,198.9	458.7	380.6	78.08	5.875	
14,000.0	11,739.0	14,146.9	11,914.0	41.9	35.7	112.43	-2,240.6	1,199.5	458.7	380.0	78.75	5.825	
14,100.0	11,739.0	14,246.9	11,914.0	42.3	36.1	112.43	-2,340.6	1,200.2	458.7	379.3	79.45	5.774	
14,200.0	11,739.0	14,346.9	11,914.0	42.6	36.5	112.43	-2,440.6	1,200.8	458.7	378.6	80.16	5.722	
14,300.0	11,739.0	14,446.9	11,914.0	43.0	36.9	112.43	-2,540.6	1,201.5	458.7	377.8	80.90	5.670	
14,400.0	11,739.0	14,546.9	11,914.0	43.4	37.3	112.43	-2,640.6	1,202.1	458.7	377.1	81.65	5.618	
14,500.0	11,739.0	14,646.9	11,914.0	43.7	37.7	112.43	-2,740.6	1,202.8	458.7	376.3	82.43	5.565	
14,600.0	11,739.0	14,746.9	11,914.0	44.1	38.2	112.43	-2,840.6	1,203.4	458.7	375.5	83.23	5.511	
14,700.0	11,739.0	14,846.9	11,914.0	44.5	38.7	112.43	-2,940.6	1,204.1	458.7	374.7	84.05	5.457	
14,800.0	11,739.0	14,946.9	11,914.0	44.9	39.1	112.43	-3,040.6	1,204.7	458.7	373.8	84.89	5.403	
14,900.0	11,739.0	15,046.9	11,914.0	45.3	39.6	112.43	-3,140.6	1,205.4	458.7	373.0	85.75	5.349	
15,000.0	11,739.0	15,146.9	11,914.0	45.8	40.1	112.43	-3,240.6	1,206.0	458.7	372.1	86.62	5.295	
15,100.0	11,739.0	15,246.9	11,914.0	46.2	40.6	112.43	-3,340.6	1,206.7	458.7	371.2	87.52	5.241	
15,200.0	11,739.0	15,346.9	11,914.0	46.6	41.1	112.43	-3,440.6	1,207.3	458.7	370.3	88.43	5.187	
15,300.0	11,739.0	15,446.9	11,914.0	47.1	41.6	112.43	-3,540.6	1,208.0	458.7	369.4	89.35	5.134	
15,400.0	11,739.0	15,546.9	11,914.0	47.6	42.1	112.43	-3,640.6	1,208.6	458.7	368.4	90.29	5.080	
15,500.0	11,739.0	15,646.9	11,914.0	48.0	42.6	112.43	-3,740.6	1,209.3	458.7	367.5	91.25	5.027	
15,600.0	11,739.0	15,746.9	11,914.0	48.5	43.2	112.43	-3,840.6	1,209.9	458.7	366.5	92.22	4.974	
15,700.0	11,739.0	15,846.9	11,914.0	49.0	43.7	112.43	-3,940.6	1,210.6	458.7	365.5	93.21	4.921	
15,800.0	11,739.0	15,946.9	11,914.0	49.5	44.3	112.43	-4,040.6	1,211.3	458.7	364.5	94.21	4.869	
15,900.0	11,739.0	16,046.9	11,914.0	50.0	44.8	112.43	-4,140.6	1,211.9	458.7	363.5	95.23	4.817	
16,000.0	11,739.0	16,146.9	11,914.0	50.5	45.4	112.43	-4,240.6	1,212.6	458.7	362.5	96.26	4.766	
16,100.0	11,739.0	16,246.9	11,914.0	51.0	45.9	112.43	-4,340.6	1,213.2	458.7	361.4	97.30	4.715	
16,200.0	11,739.0	16,346.9	11,914.0	51.5	46.5	112.43	-4,440.6	1,213.9	458.7	360.4	98.35	4.664	
16,300.0	11,739.0	16,446.9	11,914.0	52.0	47.1	112.43	-4,540.6	1,214.5	458.7	359.3	99.41	4.614	
16,400.0	11,739.0	16,546.9	11,914.0	52.5	47.7	112.43	-4,640.6	1,215.2	458.7	358.2	100.49	4.565	
16,500.0	11,739.0	16,646.9	11,914.0	53.0	48.2	112.43	-4,740.6	1,215.8	458.7	357.1	101.58	4.516	
16,600.0	11,739.0	16,746.9	11,914.0	53.6	48.8	112.43	-4,840.6	1,216.5	458.7	356.0	102.68	4.467	
16,700.0	11,739.0	16,846.9	11,914.0	54.1	49.4	112.43	-4,940.6	1,217.1	458.7	354.9	103.79	4.420	
16,800.0	11,739.0	16,946.9	11,914.0	54.7	50.0	112.43	-5,040.6	1,217.8	458.7	353.8	104.91	4.373	
16,900.0	11,739.0	17,046.9	11,914.0	55.2	50.6	112.43	-5,140.6	1,218.4	458.7	352.7	106.03	4.326	
17,000.0	11,739.0	17,146.9	11,914.0	55.8	51.2	112.43	-5,240.6	1,219.1	458.7	351.5	107.17	4.280	
17,100.0	11,739.0	17,246.9	11,914.0	56.3	51.8	112.43	-5,340.6	1,219.7	458.7	350.4	108.32	4.235	
17,200.0	11,739.0	17,346.9	11,914.0	56.9	52.5	112.43	-5,440.5	1,220.4	458.7	349.2	109.48	4.190	
17,300.0	11,739.0	17,446.9	11,914.0	57.5	53.1	112.43	-5,540.5	1,221.0	458.7	348.1	110.64	4.146	
17,400.0	11,739.0	17,546.9	11,914.0	58.1	53.7	112.43	-5,640.5	1,221.7	458.7	346.9	111.82	4.102	
17,500.0	11,739.0	17,646.9	11,914.0	58.6	54.3	112.43	-5,740.5	1,222.3	458.7	345.7	113.00	4.059	
17,600.0	11,739.0	17,746.9	11,914.0	59.2	55.0	112.43	-5,840.5	1,223.0	458.7	344.5	114.19	4.017	
17,700.0	11,739.0	17,846.9	11,914.0	59.8	55.6	112.43	-5,940.5	1,223.6	458.7	343.3	115.39	3.975	
17,800.0	11,739.0	17,946.9	11,914.0	60.4	56.2	112.43	-6,040.5	1,224.3	458.7	342.1	116.59	3.934	
17,900.0	11,739.0	18,046.9	11,914.0	61.0	56.9	112.43	-6,140.5	1,224.9	458.7	340.9	117.80	3.894	
18,000.0	11,739.0	18,146.9	11,914.0	61.6	57.5	112.43	-6,240.5	1,225.6	458.7	339.7	119.02	3.854	
18,100.0	11,739.0	18,246.9	11,914.0	62.2	58.2	112.43	-6,340.5	1,226.2	458.7	338.5	120.25	3.815	

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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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		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)			
18,200.0	11,739.0	18,346.9	11,914.0	62.8	58.8	112.43	-6,440.5	1,226.9	458.7	337.2	121.48	3.776	
18,300.0	11,739.0	18,446.9	11,914.0	63.4	59.5	112.43	-6,540.5	1,227.5	458.7	336.0	122.72	3.738	
18,400.0	11,739.0	18,546.9	11,914.0	64.0	60.1	112.43	-6,640.5	1,228.2	458.7	334.7	123.96	3.700	
18,500.0	11,739.0	18,646.9	11,914.0	64.6	60.8	112.43	-6,740.5	1,228.8	458.7	333.5	125.21	3.663	
18,600.0	11,739.0	18,746.9	11,914.0	65.3	61.4	112.43	-6,840.5	1,229.5	458.7	332.2	126.47	3.627	
18,700.0	11,739.0	18,846.9	11,914.0	65.9	62.1	112.43	-6,940.5	1,230.1	458.7	331.0	127.73	3.591	
18,800.0	11,739.0	18,946.9	11,914.0	66.5	62.7	112.43	-7,040.5	1,230.8	458.7	329.7	129.00	3.556	
18,900.0	11,739.0	19,046.9	11,914.0	67.1	63.4	112.43	-7,140.5	1,231.4	458.7	328.4	130.27	3.521	
19,000.0	11,739.0	19,146.9	11,914.0	67.8	64.1	112.43	-7,240.5	1,232.1	458.7	327.2	131.55	3.487	
19,100.0	11,739.0	19,246.9	11,914.0	68.4	64.8	112.43	-7,340.5	1,232.7	458.7	325.9	132.83	3.453	
19,200.0	11,739.0	19,346.9	11,914.0	69.0	65.4	112.43	-7,440.5	1,233.4	458.7	324.6	134.12	3.420	
19,300.0	11,739.0	19,446.9	11,914.0	69.7	66.1	112.43	-7,540.5	1,234.0	458.7	323.3	135.41	3.387	
19,400.0	11,739.0	19,546.9	11,914.0	70.3	66.8	112.43	-7,640.5	1,234.7	458.7	322.0	136.71	3.355	
19,500.0	11,739.0	19,646.9	11,914.0	70.9	67.4	112.43	-7,740.5	1,235.3	458.7	320.7	138.01	3.324	
19,600.0	11,739.0	19,746.9	11,914.0	71.6	68.1	112.43	-7,840.5	1,236.0	458.7	319.4	139.31	3.293	
19,700.0	11,739.0	19,846.9	11,914.0	72.2	68.8	112.43	-7,940.5	1,236.6	458.7	318.1	140.62	3.262	
19,800.0	11,739.0	19,946.9	11,914.0	72.9	69.5	112.43	-8,040.5	1,237.3	458.7	316.8	141.94	3.232	
19,900.0	11,739.0	20,046.9	11,914.0	73.5	70.2	112.43	-8,140.5	1,237.9	458.7	315.4	143.25	3.202	
20,000.0	11,739.0	20,146.9	11,914.0	74.2	70.9	112.43	-8,240.5	1,238.6	458.7	314.1	144.58	3.173	
20,100.0	11,739.0	20,246.9	11,914.0	74.8	71.5	112.43	-8,340.5	1,239.2	458.7	312.8	145.90	3.144	
20,200.0	11,739.0	20,346.9	11,914.0	75.5	72.2	112.43	-8,440.5	1,239.9	458.7	311.5	147.23	3.116	
20,300.0	11,739.0	20,446.9	11,914.0	76.2	72.9	112.43	-8,540.5	1,240.5	458.7	310.1	148.56	3.088	
20,400.0	11,739.0	20,546.9	11,914.0	76.8	73.6	112.43	-8,640.5	1,241.2	458.7	308.8	149.90	3.060	
20,500.0	11,739.0	20,646.9	11,914.0	77.5	74.3	112.43	-8,740.5	1,241.8	458.7	307.5	151.24	3.033	
20,600.0	11,739.0	20,746.9	11,914.0	78.2	75.0	112.43	-8,840.5	1,242.5	458.7	306.1	152.58	3.006	
20,700.0	11,739.0	20,846.9	11,914.0	78.8	75.7	112.43	-8,940.5	1,243.1	458.7	304.8	153.93	2.980	
20,800.0	11,739.0	20,946.9	11,914.0	79.5	76.4	112.43	-9,040.5	1,243.8	458.7	303.4	155.27	2.954	
20,900.0	11,739.0	21,046.9	11,914.0	80.2	77.1	112.43	-9,140.5	1,244.4	458.7	302.1	156.63	2.929	
21,000.0	11,739.0	21,146.9	11,914.0	80.8	77.8	112.43	-9,240.5	1,245.1	458.7	300.7	157.98	2.903	
21,100.0	11,739.0	21,246.9	11,914.0	81.5	78.5	112.43	-9,340.5	1,245.7	458.7	299.4	159.34	2.879	
21,200.0	11,739.0	21,346.9	11,914.0	82.2	79.2	112.43	-9,440.5	1,246.4	458.7	298.0	160.70	2.854	
21,300.0	11,739.0	21,446.9	11,914.0	82.9	79.9	112.43	-9,540.5	1,247.0	458.7	296.6	162.06	2.830	
21,400.0	11,739.0	21,546.9	11,914.0	83.5	80.6	112.43	-9,640.5	1,247.7	458.7	295.3	163.43	2.807	
21,500.0	11,739.0	21,646.9	11,914.0	84.2	81.3	112.43	-9,740.5	1,248.3	458.7	293.9	164.80	2.783	
21,600.0	11,739.0	21,746.9	11,914.0	84.9	82.0	112.43	-9,840.5	1,249.0	458.7	292.5	166.17	2.760	
21,697.5	11,739.0	21,844.4	11,914.0	85.6	82.7	112.43	-9,937.9	1,249.6	458.7	291.2	167.50	2.738	
21,700.0	11,739.0	21,846.9	11,914.0	85.6	82.7	112.43	-9,940.5	1,249.6	458.7	291.2	167.54	2.738	
21,746.3	11,739.0	21,893.1	11,914.0	85.9	83.1	112.43	-9,986.7	1,249.9	458.7	290.5	168.17	2.728	
21,747.5	11,739.0	21,894.3	11,914.0	85.9	83.1	112.43	-9,987.9	1,249.9	458.7	290.5	168.19	2.727	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 @ 3176.0usft

Offset Depths are relative to Offset Datum

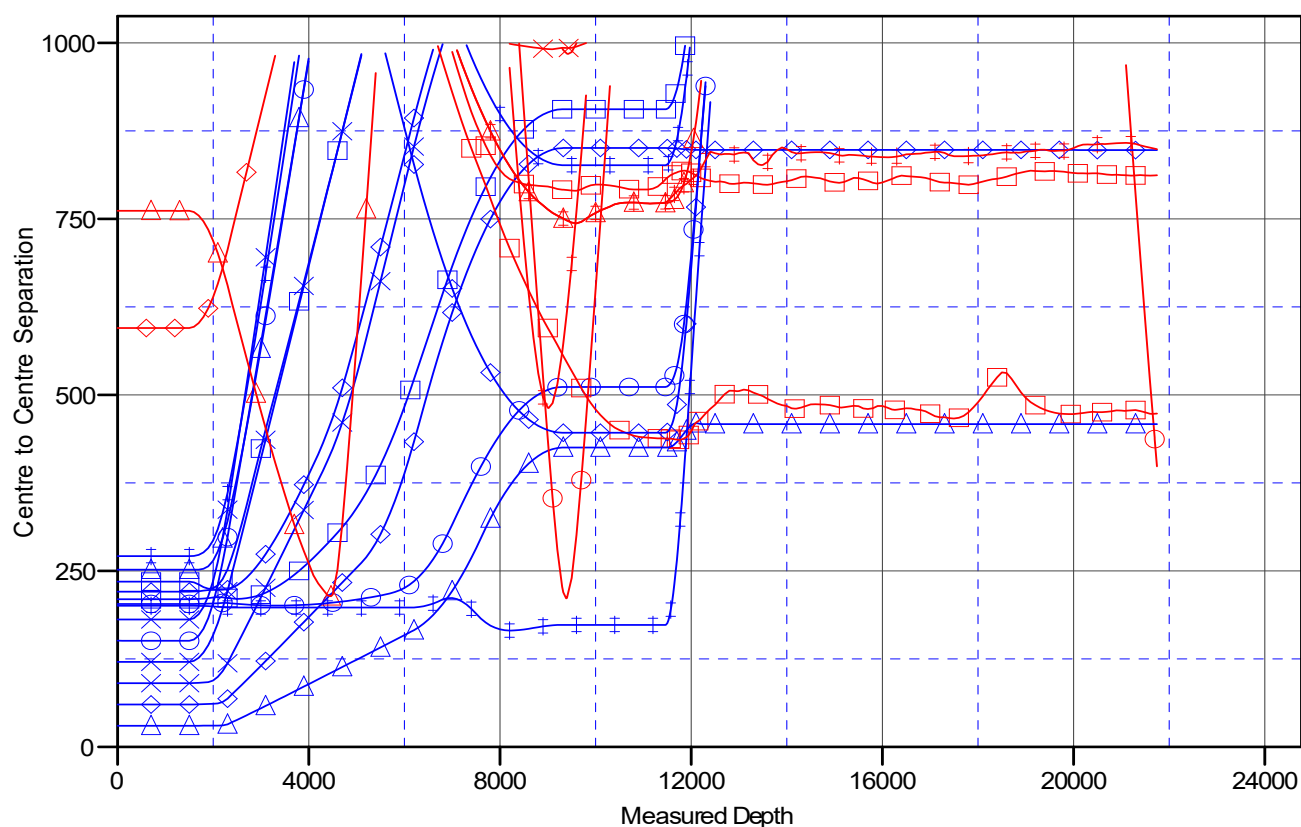
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #757H

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

Grid Convergence at Surface is: 0.33°

Ladder Plot



LEGEND

ODELL STATE 54-1-6 LOV #2H, OWB, AWP V0	BUCK 20 FEDERAL #2H (P&A), OWB, AWP V0	ZIA HILLS 20 FEDERAL COM#105H, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #759H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #708H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#106H, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #753H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #702H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#106H, ST01, AWP V0
ZIA HILLS UNIT 2032 WC #754H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	BUCK 20 FEDERAL #6H (P&A), OWB, AWP V0
ZIA HILLS UNIT 2032 WC #758H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#108H, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #703H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC #751H, OWB, PWP0 V0	RUSSELL FEDERAL #6 (P&A), OWB, AWP V0
ZIA HILLS UNIT 2032 WC #705H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#102H, OWB, PWP2 V0	RUSSELL FEDERAL #12, OWB, AWP V0
ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0	ZIA HILLS 20 FEDERAL COM#107H, OWB, AWP V0	ZIA HILLS 20 FEDERAL COM#101H, OWB, PWP2 V0
ZIA HILLS UNIT 2032 WC #752H, OWB, PWP0 V0	BUCK 20 FEDERAL #3H (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 #757H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	GL @ 3176.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT	MD Reference:	GL @ 3176.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC #757H	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 @ 3176.0usft

Offset Depths are relative to Offset Datum

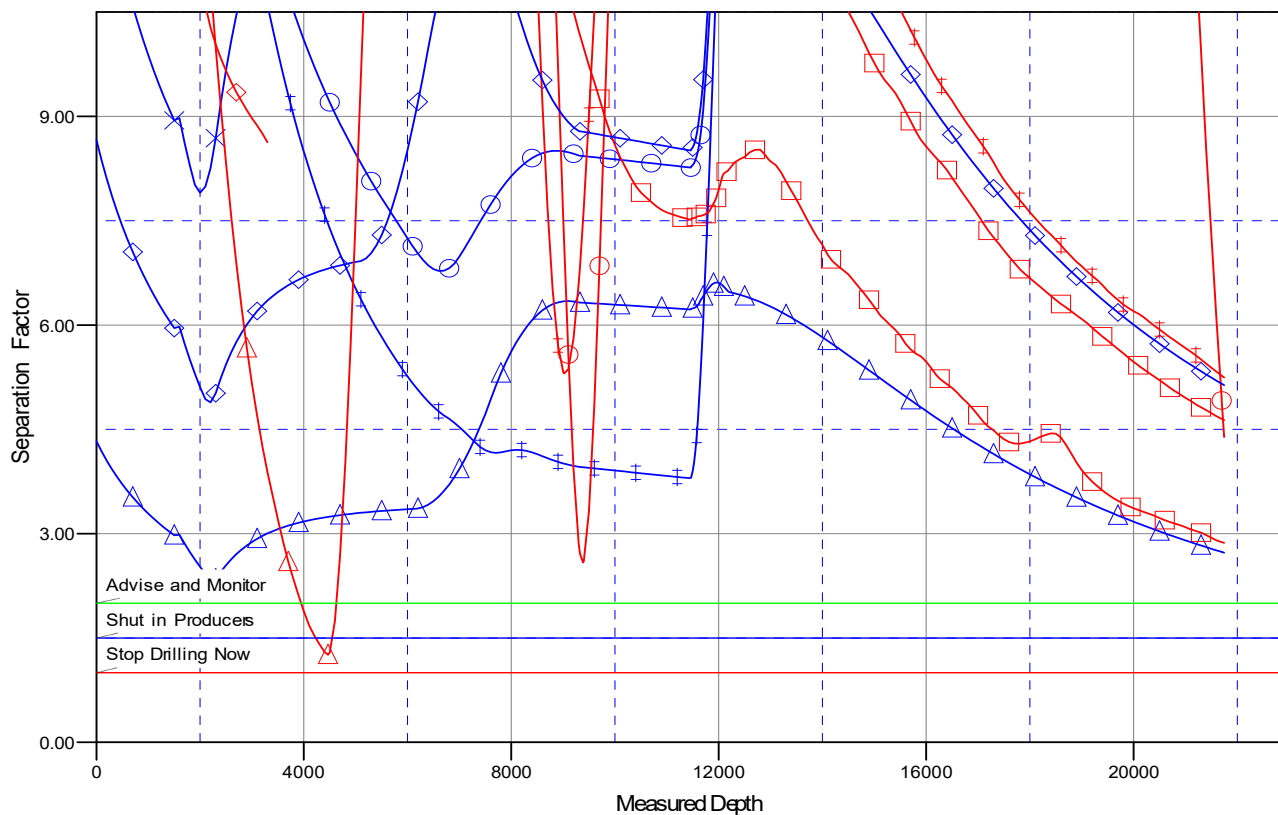
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC #757H

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

Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND

- ODELL STATE 54-14 LOV #2H, OWB, AWP V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #75H, OWB, PWP0 V0	- BUCK 20 FEDERAL #2H (P&A), OWB, AWP V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0 - ZIA HILLS UNIT 2032 WC #70H, OWB, PWP0 V0	- ZIA HILLS 20 FEDERAL COM#105H, OWB, AWP V0 - ZIA HILLS 20 FEDERAL COM#106H, OWB, AWP V0 - ZIA HILLS 20 FEDERAL COM#106H, ST01, AWP V0 - BUCK 20 FEDERAL #6H (P&A), OWB, AWP V0 - ZIA HILLS 20 FEDERAL COM#108H, OWB, AWP V0 - RUSSELL FEDERAL #6 (P&A), OWB, AWP V0 - RUSSELL FEDERAL #12, OWB, AWP V0 - ZIA HILLS 20 FEDERAL COM#101H, OWB, PWP2 V0
---	---	---

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

ConocoPhillips Company - Zia Hills Unit 2032 WC 757H

1. Geologic Formations

TVD of target	11,739' EOL	Pilot hole depth	NA
MD at TD:	21,748'	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	1.30	5.53	5.72
8.75"	3940	11325	7.625"	29.7	P110-ICY	W513	1.25	1.57	3.18	1.91
6.75"	0	11125	5.5"	23	P110-CY	BTC	1.86	2.17	2.85	2.85
6.75"	11125	21,748	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 757H

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

ConocoPhillips Company - Zia Hills Unit 2032 WC 757H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ 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	10,825'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2032 WC 757H

4. Pressure Control Equipment

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

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

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

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

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

ConocoPhillips Company - Zia Hills Unit 2032 WC 757H

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 757H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8245 psi at 11739' 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)

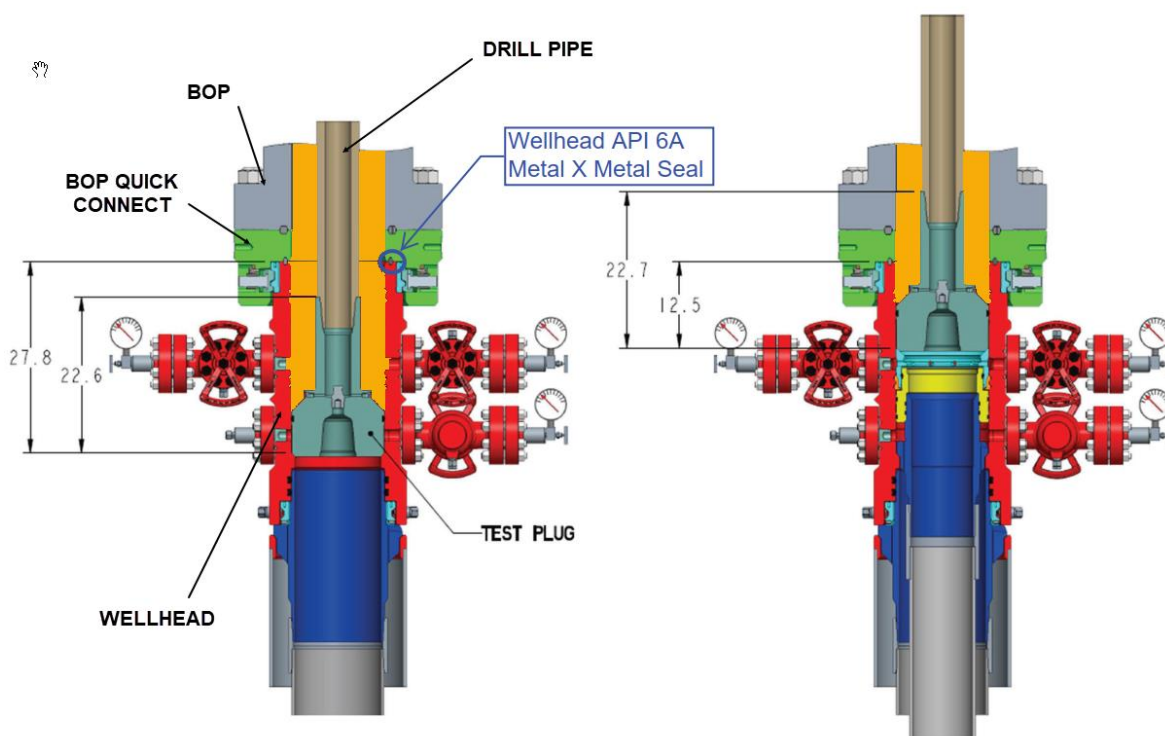


Figure 1: Test plug installed (The orange sections above indicate the areas exposed to the pressure test)

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

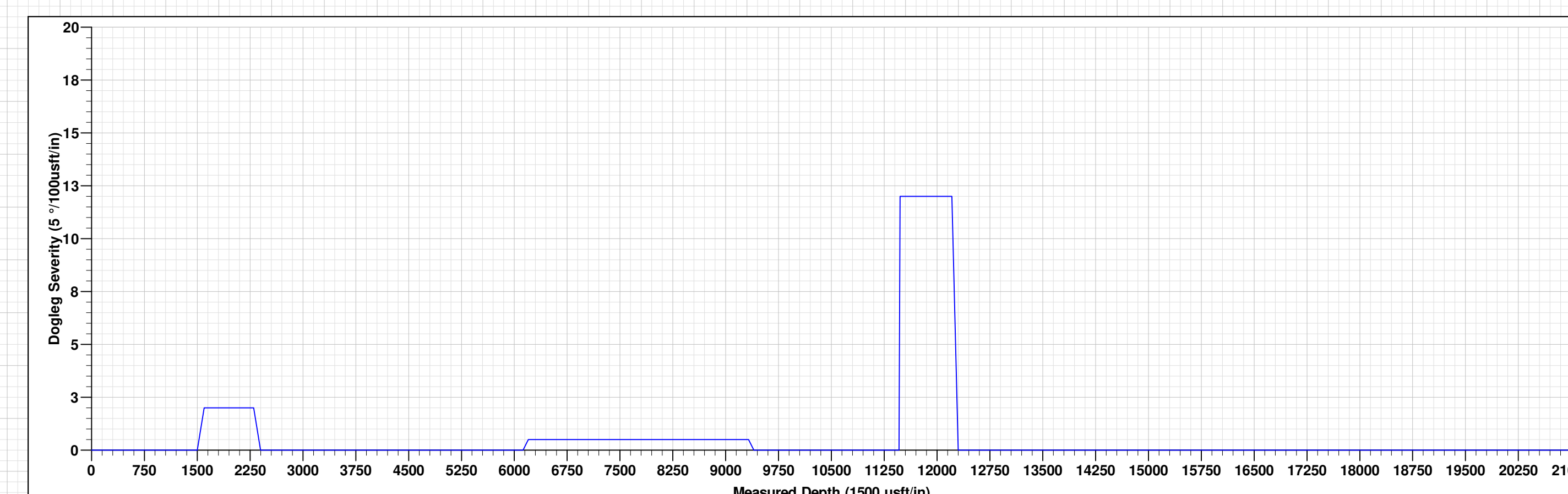
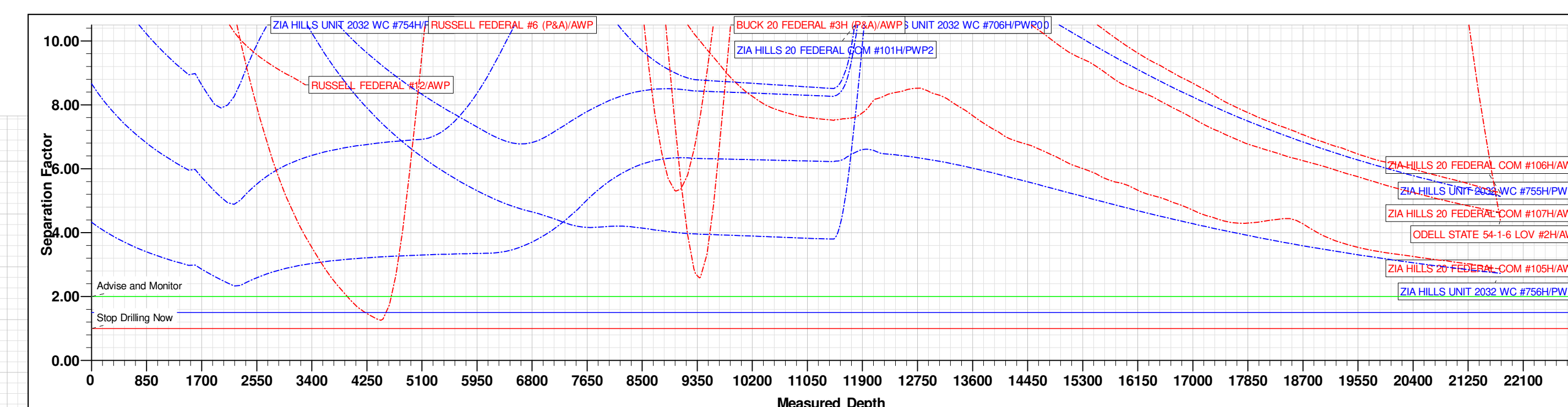
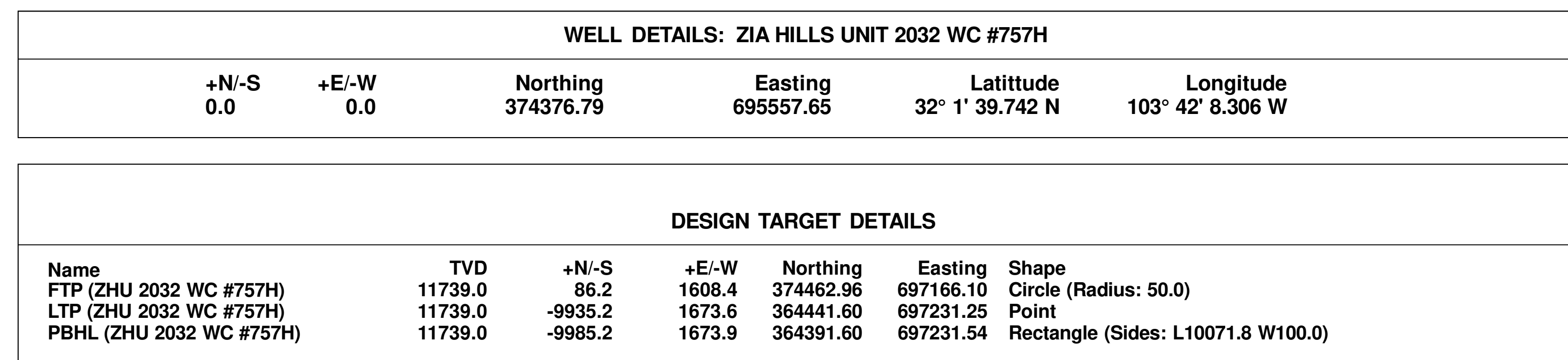
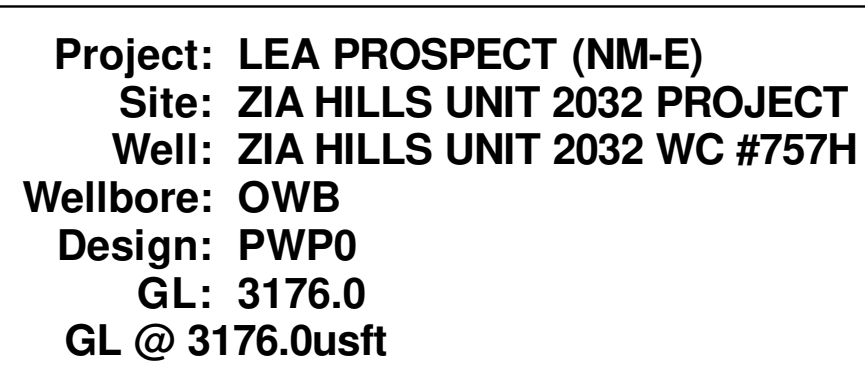
Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

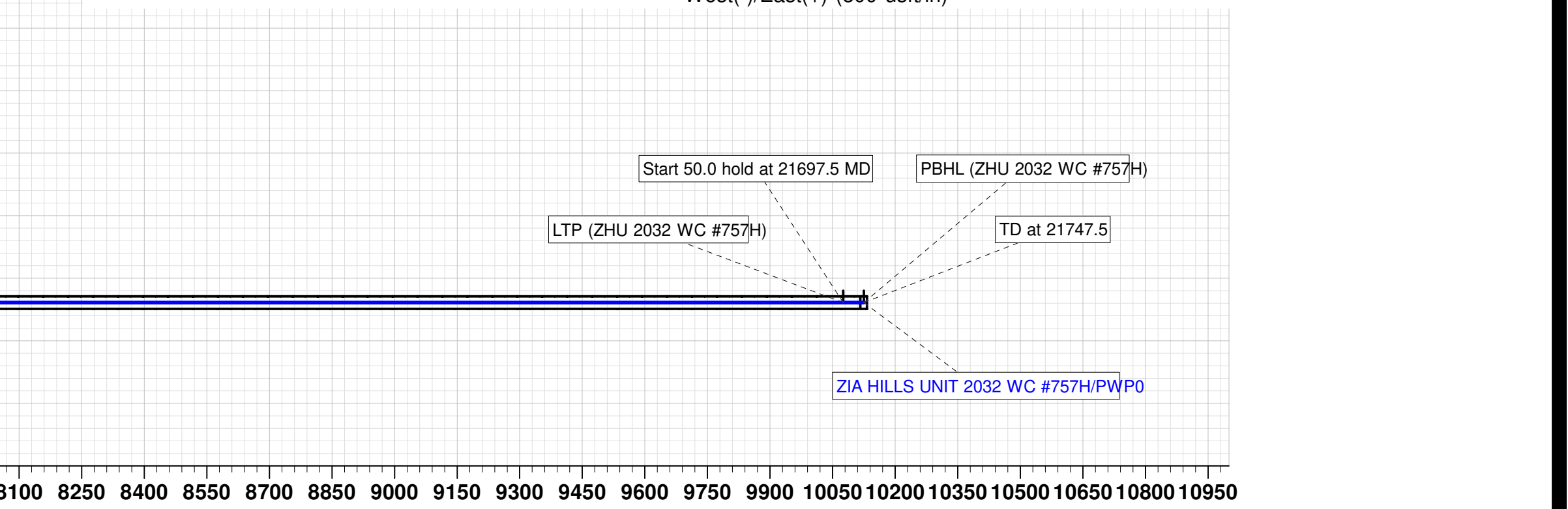
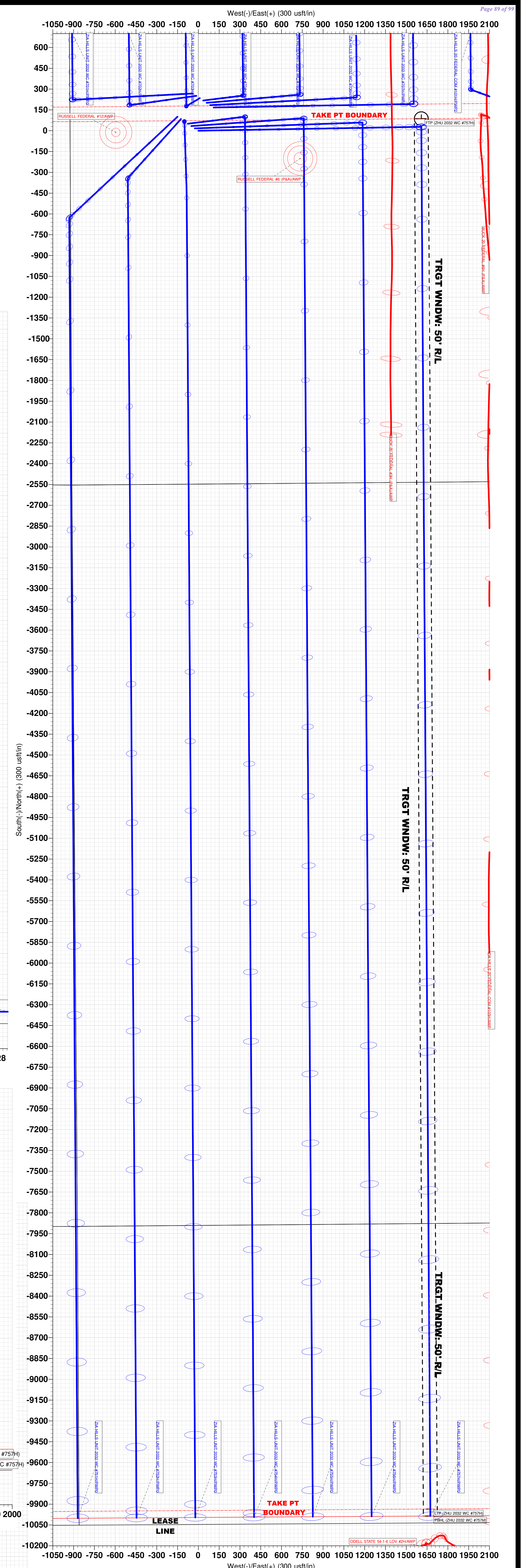
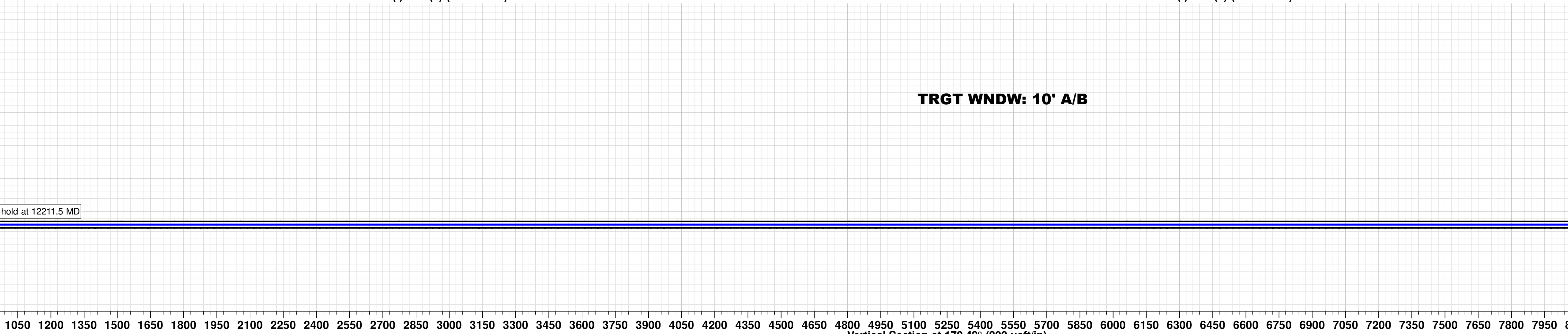
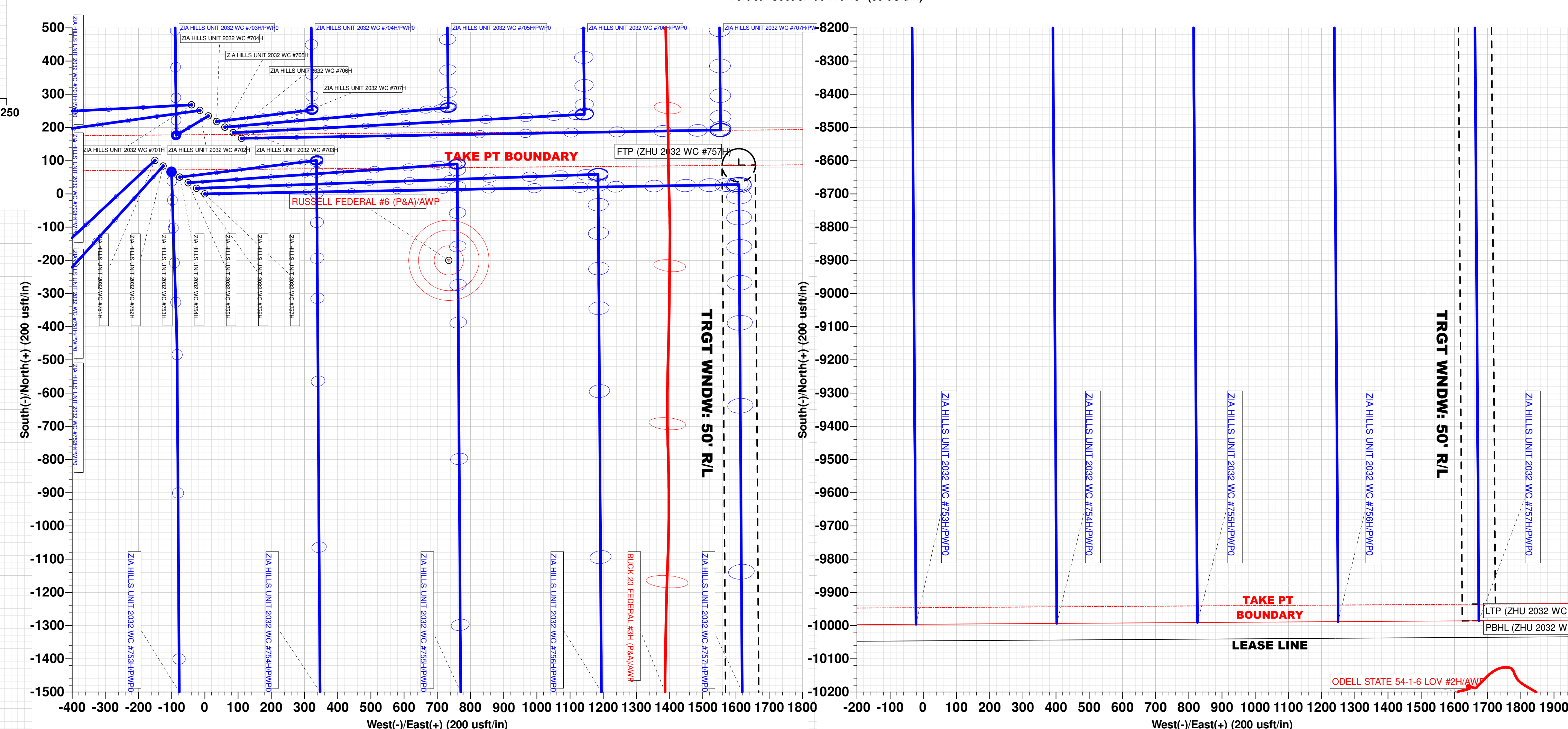
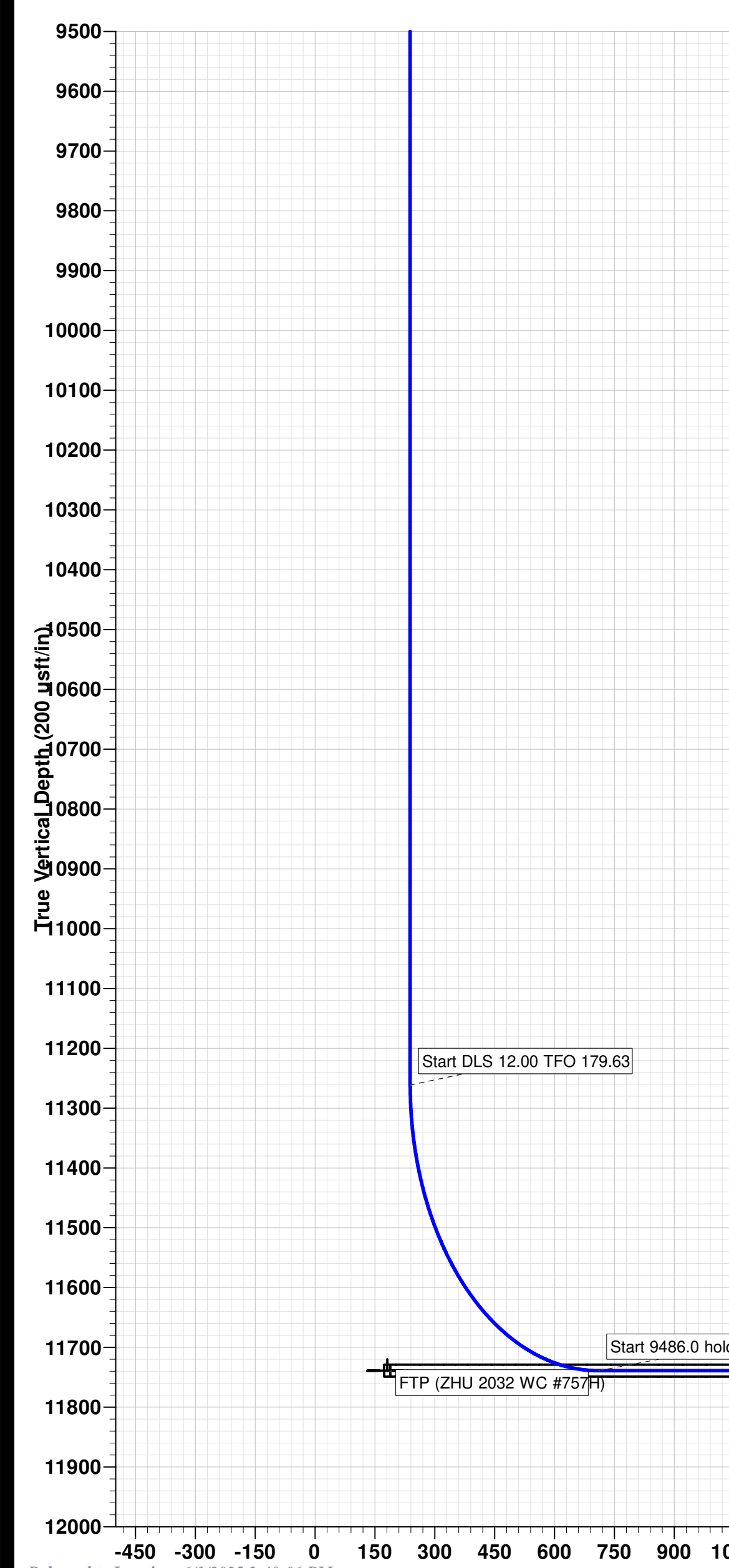
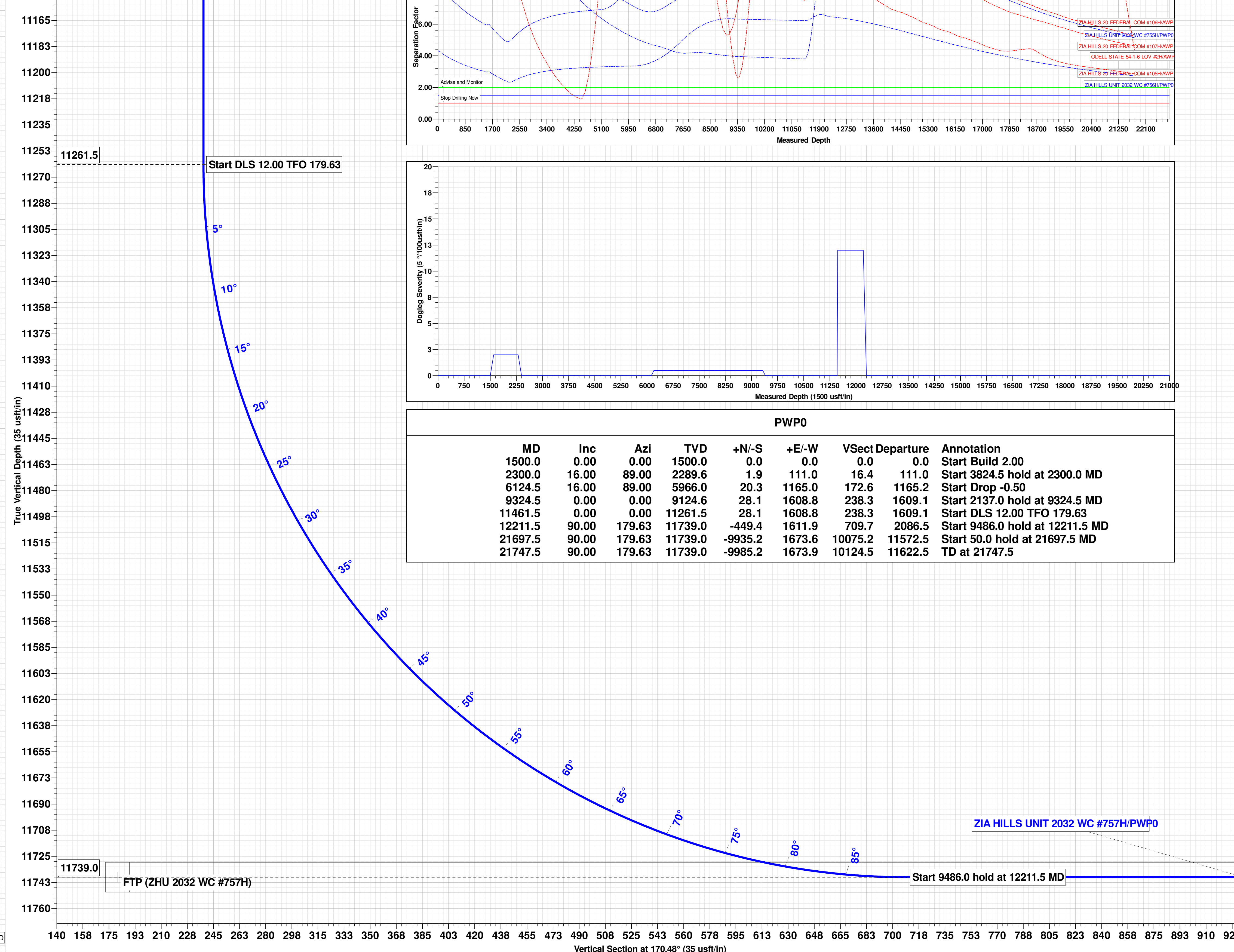
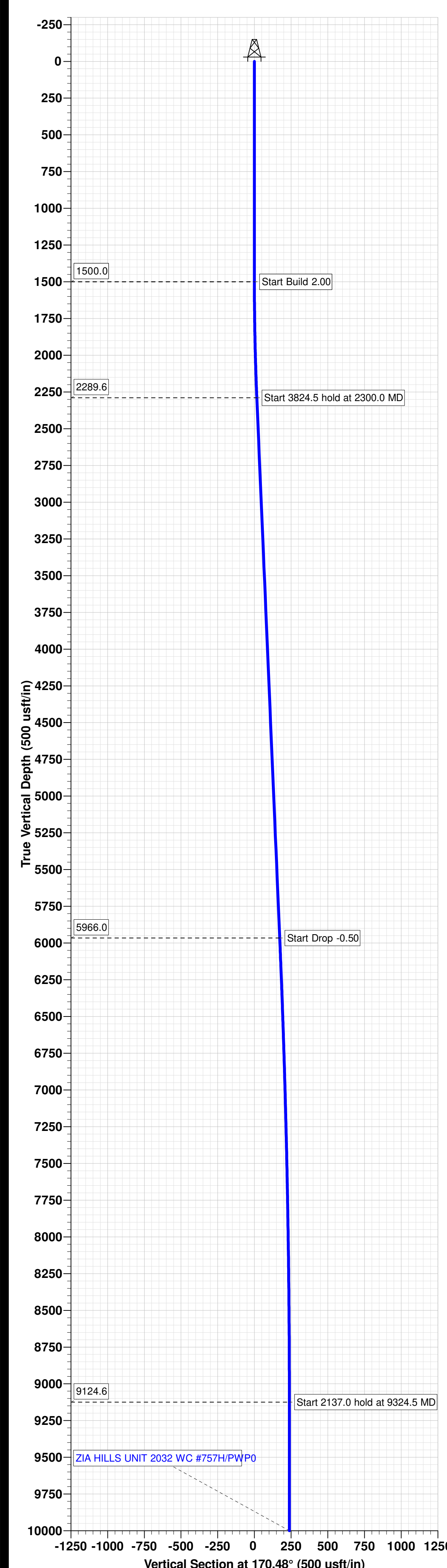
Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating.

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.



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 Build 2.00
2300.0	16.00	89.00	2289.6	1.9	111.0	16.4	111.0	Start 3824.5 hold at 2300.0 MD
6124.5	16.00	89.00	5966.0	20.3	1165.0	172.6	1165.2	Start Drop -0.50
9324.5	0.00	0.00	9124.6	28.1	1608.8	238.3	1609.1	Start 2137.0 hold at 9324.5 MD
11461.5	0.00	0.00	11261.5	28.1	1608.8	238.3	1609.1	Start DLS 12.00 TPO 179.63
12211.5	90.00	179.63	11739.0	-449.4	1611.9	709.7	2086.5	Start 9486.0 hold at 12211.5 MD
21697.5	90.00	179.63	11739.0	-9935.2	1673.6	10075.2	11572.5	Start 50.0 hold at 21697.5 MD
21747.5	90.00	179.63	11739.0	-9985.2	1673.9	10124.5	11622.5	TD at 21747.5



DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 2032 PROJECT

ZIA HILLS UNIT 2032 WC #757H

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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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 #757H		
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' 39.742 N
		Longitude:	103° 42' 8.306 W
		Ground Level:	3,176.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.33	59.53	47,264.71230328

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	170.48	

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	11,461.5 PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1 rev.5		
3	11,461.5	21,747.5 PWP0 (OWB)	r.5 MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-St		

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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	
2,300.0	16.00	89.00	2,289.6	1.9	111.0	2.00	2.00	0.00	89.00	
6,124.5	16.00	89.00	5,966.0	20.3	1,165.0	0.00	0.00	0.00	0.00	
9,324.5	0.00	0.00	9,124.6	28.1	1,608.8	0.50	-0.50	0.00	180.00	
11,461.5	0.00	0.00	11,261.5	28.1	1,608.8	0.00	0.00	0.00	0.00	
12,211.5	90.00	179.63	11,739.0	-449.4	1,611.9	12.00	12.00	23.95	179.63	
21,697.5	90.00	179.63	11,739.0	-9,935.2	1,673.6	0.00	0.00	0.00	0.00	
21,747.5	90.00	179.63	11,739.0	-9,985.2	1,673.9	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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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 Build 2.00									
1,600.0	2.00	89.00	1,600.0	0.0	1.7	0.3	2.00	2.00	0.00
1,700.0	4.00	89.00	1,699.8	0.1	7.0	1.0	2.00	2.00	0.00
1,800.0	6.00	89.00	1,799.5	0.3	15.7	2.3	2.00	2.00	0.00
1,900.0	8.00	89.00	1,898.7	0.5	27.9	4.1	2.00	2.00	0.00
2,000.0	10.00	89.00	1,997.5	0.8	43.5	6.4	2.00	2.00	0.00
2,100.0	12.00	89.00	2,095.6	1.1	62.6	9.3	2.00	2.00	0.00
2,200.0	14.00	89.00	2,193.1	1.5	85.1	12.6	2.00	2.00	0.00
2,300.0	16.00	89.00	2,289.6	1.9	111.0	16.4	2.00	2.00	0.00
Start 3824.5 hold at 2300.0 MD									
2,400.0	16.00	89.00	2,385.8	2.4	138.5	20.5	0.00	0.00	0.00
2,500.0	16.00	89.00	2,481.9	2.9	166.1	24.6	0.00	0.00	0.00
2,600.0	16.00	89.00	2,578.0	3.4	193.6	28.7	0.00	0.00	0.00
2,700.0	16.00	89.00	2,674.1	3.9	221.2	32.8	0.00	0.00	0.00
2,800.0	16.00	89.00	2,770.3	4.3	248.8	36.8	0.00	0.00	0.00
2,900.0	16.00	89.00	2,866.4	4.8	276.3	40.9	0.00	0.00	0.00
3,000.0	16.00	89.00	2,962.5	5.3	303.9	45.0	0.00	0.00	0.00
3,100.0	16.00	89.00	3,058.7	5.8	331.4	49.1	0.00	0.00	0.00
3,200.0	16.00	89.00	3,154.8	6.3	359.0	53.2	0.00	0.00	0.00
3,300.0	16.00	89.00	3,250.9	6.7	386.6	57.3	0.00	0.00	0.00
3,400.0	16.00	89.00	3,347.0	7.2	414.1	61.3	0.00	0.00	0.00
3,500.0	16.00	89.00	3,443.2	7.7	441.7	65.4	0.00	0.00	0.00
3,600.0	16.00	89.00	3,539.3	8.2	469.2	69.5	0.00	0.00	0.00
3,700.0	16.00	89.00	3,635.4	8.7	496.8	73.6	0.00	0.00	0.00
3,800.0	16.00	89.00	3,731.5	9.2	524.4	77.7	0.00	0.00	0.00
3,900.0	16.00	89.00	3,827.7	9.6	551.9	81.7	0.00	0.00	0.00
4,000.0	16.00	89.00	3,923.8	10.1	579.5	85.8	0.00	0.00	0.00
4,100.0	16.00	89.00	4,019.9	10.6	607.0	89.9	0.00	0.00	0.00
4,200.0	16.00	89.00	4,116.0	11.1	634.6	94.0	0.00	0.00	0.00
4,300.0	16.00	89.00	4,212.2	11.6	662.2	98.1	0.00	0.00	0.00
4,400.0	16.00	89.00	4,308.3	12.0	689.7	102.2	0.00	0.00	0.00
4,500.0	16.00	89.00	4,404.4	12.5	717.3	106.2	0.00	0.00	0.00
4,600.0	16.00	89.00	4,500.5	13.0	744.8	110.3	0.00	0.00	0.00
4,700.0	16.00	89.00	4,596.7	13.5	772.4	114.4	0.00	0.00	0.00
4,800.0	16.00	89.00	4,692.8	14.0	799.9	118.5	0.00	0.00	0.00
4,900.0	16.00	89.00	4,788.9	14.4	827.5	122.6	0.00	0.00	0.00
5,000.0	16.00	89.00	4,885.0	14.9	855.1	126.6	0.00	0.00	0.00
5,100.0	16.00	89.00	4,981.2	15.4	882.6	130.7	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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	16.00	89.00	5,077.3	15.9	910.2	134.8	0.00	0.00	0.00	
5,300.0	16.00	89.00	5,173.4	16.4	937.7	138.9	0.00	0.00	0.00	
5,400.0	16.00	89.00	5,269.6	16.8	965.3	143.0	0.00	0.00	0.00	
5,500.0	16.00	89.00	5,365.7	17.3	992.9	147.1	0.00	0.00	0.00	
5,600.0	16.00	89.00	5,461.8	17.8	1,020.4	151.1	0.00	0.00	0.00	
5,700.0	16.00	89.00	5,557.9	18.3	1,048.0	155.2	0.00	0.00	0.00	
5,800.0	16.00	89.00	5,654.1	18.8	1,075.5	159.3	0.00	0.00	0.00	
5,900.0	16.00	89.00	5,750.2	19.3	1,103.1	163.4	0.00	0.00	0.00	
6,000.0	16.00	89.00	5,846.3	19.7	1,130.7	167.5	0.00	0.00	0.00	
6,100.0	16.00	89.00	5,942.4	20.2	1,158.2	171.6	0.00	0.00	0.00	
6,124.5	16.00	89.00	5,966.0	20.3	1,165.0	172.6	0.00	0.00	0.00	
Start Drop -0.50										
6,200.0	15.62	89.00	6,038.6	20.7	1,185.5	175.6	0.50	-0.50	0.00	
6,300.0	15.12	89.00	6,135.1	21.2	1,212.0	179.5	0.50	-0.50	0.00	
6,400.0	14.62	89.00	6,231.7	21.6	1,237.7	183.3	0.50	-0.50	0.00	
6,500.0	14.12	89.00	6,328.6	22.0	1,262.5	187.0	0.50	-0.50	0.00	
6,600.0	13.62	89.00	6,425.7	22.5	1,286.5	190.6	0.50	-0.50	0.00	
6,700.0	13.12	89.00	6,522.9	22.9	1,309.6	194.0	0.50	-0.50	0.00	
6,800.0	12.62	89.00	6,620.4	23.2	1,331.9	197.3	0.50	-0.50	0.00	
6,900.0	12.12	89.00	6,718.1	23.6	1,353.3	200.4	0.50	-0.50	0.00	
7,000.0	11.62	89.00	6,816.0	24.0	1,373.9	203.5	0.50	-0.50	0.00	
7,100.0	11.12	89.00	6,914.0	24.3	1,393.6	206.4	0.50	-0.50	0.00	
7,200.0	10.62	89.00	7,012.2	24.7	1,412.5	209.2	0.50	-0.50	0.00	
7,300.0	10.12	89.00	7,110.6	25.0	1,430.5	211.9	0.50	-0.50	0.00	
7,400.0	9.62	89.00	7,209.1	25.3	1,447.6	214.4	0.50	-0.50	0.00	
7,500.0	9.12	89.00	7,307.8	25.6	1,463.9	216.8	0.50	-0.50	0.00	
7,600.0	8.62	89.00	7,406.6	25.8	1,479.3	219.1	0.50	-0.50	0.00	
7,700.0	8.12	89.00	7,505.5	26.1	1,493.9	221.3	0.50	-0.50	0.00	
7,800.0	7.62	89.00	7,604.6	26.3	1,507.6	223.3	0.50	-0.50	0.00	
7,900.0	7.12	89.00	7,703.7	26.5	1,520.4	225.2	0.50	-0.50	0.00	
8,000.0	6.62	89.00	7,803.0	26.7	1,532.4	227.0	0.50	-0.50	0.00	
8,100.0	6.12	89.00	7,902.4	26.9	1,543.5	228.6	0.50	-0.50	0.00	
8,200.0	5.62	89.00	8,001.9	27.1	1,553.7	230.1	0.50	-0.50	0.00	
8,300.0	5.12	89.00	8,101.4	27.3	1,563.1	231.5	0.50	-0.50	0.00	
8,400.0	4.62	89.00	8,201.1	27.4	1,571.6	232.8	0.50	-0.50	0.00	
8,500.0	4.12	89.00	8,300.8	27.6	1,579.2	233.9	0.50	-0.50	0.00	
8,600.0	3.62	89.00	8,400.5	27.7	1,585.9	234.9	0.50	-0.50	0.00	
8,700.0	3.12	89.00	8,500.4	27.8	1,591.8	235.8	0.50	-0.50	0.00	
8,800.0	2.62	89.00	8,600.2	27.9	1,596.8	236.5	0.50	-0.50	0.00	
8,900.0	2.12	89.00	8,700.2	27.9	1,601.0	237.1	0.50	-0.50	0.00	
9,000.0	1.62	89.00	8,800.1	28.0	1,604.2	237.6	0.50	-0.50	0.00	
9,100.0	1.12	89.00	8,900.1	28.0	1,606.6	238.0	0.50	-0.50	0.00	
9,200.0	0.62	89.00	9,000.1	28.1	1,608.1	238.2	0.50	-0.50	0.00	
9,300.0	0.12	89.00	9,100.1	28.1	1,608.8	238.3	0.50	-0.50	0.00	
9,324.5	0.00	0.00	9,124.6	28.1	1,608.8	238.3	0.50	-0.50	0.00	
Start 2137.0 hold at 9324.5 MD										
9,400.0	0.00	0.00	9,200.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,300.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,400.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,500.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,600.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,700.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,800.1	28.1	1,608.8	238.3	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,900.1	28.1	1,608.8	238.3	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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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)
10,200.0	0.00	0.00	10,000.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,100.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,200.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,300.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,400.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,500.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,600.1	28.1	1,608.8	238.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,700.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,800.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,100.0	0.00	0.00	10,900.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,000.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,100.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,200.1	28.1	1,608.8	238.3	0.00	0.00	0.00
11,461.5	0.00	0.00	11,261.5	28.1	1,608.8	238.3	0.00	0.00	0.00
Start DLS 12.00 TFO 179.63									
11,475.0	1.62	179.63	11,275.1	27.9	1,608.8	238.5	12.00	12.00	0.00
11,500.0	4.62	179.63	11,300.0	26.5	1,608.8	239.8	12.00	12.00	0.00
11,525.0	7.62	179.63	11,324.9	23.9	1,608.8	242.5	12.00	12.00	0.00
11,550.0	10.62	179.63	11,349.6	19.9	1,608.9	246.4	12.00	12.00	0.00
11,575.0	13.62	179.63	11,374.0	14.6	1,608.9	251.6	12.00	12.00	0.00
11,600.0	16.62	179.63	11,398.1	8.1	1,608.9	258.0	12.00	12.00	0.00
11,625.0	19.62	179.63	11,421.9	0.4	1,609.0	265.7	12.00	12.00	0.00
11,650.0	22.62	179.63	11,445.2	-8.7	1,609.1	274.6	12.00	12.00	0.00
11,675.0	25.62	179.63	11,468.0	-18.9	1,609.1	284.6	12.00	12.00	0.00
11,700.0	28.62	179.63	11,490.3	-30.3	1,609.2	295.9	12.00	12.00	0.00
11,725.0	31.62	179.63	11,511.9	-42.8	1,609.3	308.3	12.00	12.00	0.00
11,750.0	34.62	179.63	11,532.8	-56.5	1,609.4	321.8	12.00	12.00	0.00
11,775.0	37.62	179.63	11,553.0	-71.2	1,609.5	336.3	12.00	12.00	0.00
11,800.0	40.62	179.63	11,572.4	-87.0	1,609.6	351.9	12.00	12.00	0.00
11,825.0	43.62	179.63	11,590.9	-103.7	1,609.7	368.4	12.00	12.00	0.00
11,850.0	46.62	179.63	11,608.6	-121.5	1,609.8	385.9	12.00	12.00	0.00
11,875.0	49.62	179.63	11,625.3	-140.1	1,609.9	404.3	12.00	12.00	0.00
11,900.0	52.62	179.63	11,641.0	-159.5	1,610.0	423.5	12.00	12.00	0.00
11,925.0	55.62	179.63	11,655.6	-179.8	1,610.2	443.5	12.00	12.00	0.00
11,950.0	58.62	179.63	11,669.2	-200.8	1,610.3	464.2	12.00	12.00	0.00
11,975.0	61.62	179.63	11,681.6	-222.5	1,610.4	485.6	12.00	12.00	0.00
12,000.0	64.62	179.63	11,692.9	-244.7	1,610.6	507.7	12.00	12.00	0.00
12,025.0	67.62	179.63	11,703.0	-267.6	1,610.7	530.2	12.00	12.00	0.00
12,050.0	70.62	179.63	11,712.0	-291.0	1,610.9	553.3	12.00	12.00	0.00
12,075.0	73.62	179.63	11,719.6	-314.8	1,611.0	576.8	12.00	12.00	0.00
12,100.0	76.62	179.63	11,726.0	-338.9	1,611.2	600.6	12.00	12.00	0.00
12,125.0	79.62	179.63	11,731.2	-363.4	1,611.4	624.8	12.00	12.00	0.00
12,150.0	82.62	179.63	11,735.0	-388.1	1,611.5	649.2	12.00	12.00	0.00
12,175.0	85.62	179.63	11,737.6	-412.9	1,611.7	673.7	12.00	12.00	0.00
12,200.0	88.62	179.63	11,738.9	-437.9	1,611.8	698.4	12.00	12.00	0.00
12,211.5	90.00	179.63	11,739.0	-449.4	1,611.9	709.7	12.00	12.00	0.00
Start 9486.0 hold at 12211.5 MD									
12,300.0	90.00	179.63	11,739.0	-537.9	1,612.5	797.1	0.00	0.00	0.00
12,400.0	90.00	179.63	11,739.0	-637.9	1,613.1	895.8	0.00	0.00	0.00
12,500.0	90.00	179.63	11,739.0	-737.9	1,613.8	994.5	0.00	0.00	0.00
12,600.0	90.00	179.63	11,739.0	-837.9	1,614.4	1,093.3	0.00	0.00	0.00
12,700.0	90.00	179.63	11,739.0	-937.9	1,615.1	1,192.0	0.00	0.00	0.00
12,800.0	90.00	179.63	11,739.0	-1,037.9	1,615.7	1,290.7	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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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)
12,900.0	90.00	179.63	11,739.0	-1,137.9	1,616.4	1,389.5	0.00	0.00	0.00
13,000.0	90.00	179.63	11,739.0	-1,237.9	1,617.0	1,488.2	0.00	0.00	0.00
13,100.0	90.00	179.63	11,739.0	-1,337.9	1,617.7	1,586.9	0.00	0.00	0.00
13,200.0	90.00	179.63	11,739.0	-1,437.9	1,618.4	1,685.7	0.00	0.00	0.00
13,300.0	90.00	179.63	11,739.0	-1,537.9	1,619.0	1,784.4	0.00	0.00	0.00
13,400.0	90.00	179.63	11,739.0	-1,637.9	1,619.7	1,883.1	0.00	0.00	0.00
13,500.0	90.00	179.63	11,739.0	-1,737.9	1,620.3	1,981.8	0.00	0.00	0.00
13,600.0	90.00	179.63	11,739.0	-1,837.9	1,621.0	2,080.6	0.00	0.00	0.00
13,700.0	90.00	179.63	11,739.0	-1,937.9	1,621.6	2,179.3	0.00	0.00	0.00
13,800.0	90.00	179.63	11,739.0	-2,037.9	1,622.3	2,278.0	0.00	0.00	0.00
13,900.0	90.00	179.63	11,739.0	-2,137.9	1,622.9	2,376.8	0.00	0.00	0.00
14,000.0	90.00	179.63	11,739.0	-2,237.9	1,623.6	2,475.5	0.00	0.00	0.00
14,100.0	90.00	179.63	11,739.0	-2,337.9	1,624.2	2,574.2	0.00	0.00	0.00
14,200.0	90.00	179.63	11,739.0	-2,437.9	1,624.9	2,672.9	0.00	0.00	0.00
14,300.0	90.00	179.63	11,739.0	-2,537.9	1,625.5	2,771.7	0.00	0.00	0.00
14,400.0	90.00	179.63	11,739.0	-2,637.9	1,626.2	2,870.4	0.00	0.00	0.00
14,500.0	90.00	179.63	11,739.0	-2,737.8	1,626.8	2,969.1	0.00	0.00	0.00
14,600.0	90.00	179.63	11,739.0	-2,837.8	1,627.5	3,067.9	0.00	0.00	0.00
14,700.0	90.00	179.63	11,739.0	-2,937.8	1,628.1	3,166.6	0.00	0.00	0.00
14,800.0	90.00	179.63	11,739.0	-3,037.8	1,628.8	3,265.3	0.00	0.00	0.00
14,900.0	90.00	179.63	11,739.0	-3,137.8	1,629.4	3,364.0	0.00	0.00	0.00
15,000.0	90.00	179.63	11,739.0	-3,237.8	1,630.1	3,462.8	0.00	0.00	0.00
15,100.0	90.00	179.63	11,739.0	-3,337.8	1,630.7	3,561.5	0.00	0.00	0.00
15,200.0	90.00	179.63	11,739.0	-3,437.8	1,631.4	3,660.2	0.00	0.00	0.00
15,300.0	90.00	179.63	11,739.0	-3,537.8	1,632.0	3,759.0	0.00	0.00	0.00
15,400.0	90.00	179.63	11,739.0	-3,637.8	1,632.7	3,857.7	0.00	0.00	0.00
15,500.0	90.00	179.63	11,739.0	-3,737.8	1,633.3	3,956.4	0.00	0.00	0.00
15,600.0	90.00	179.63	11,739.0	-3,837.8	1,634.0	4,055.2	0.00	0.00	0.00
15,700.0	90.00	179.63	11,739.0	-3,937.8	1,634.6	4,153.9	0.00	0.00	0.00
15,800.0	90.00	179.63	11,739.0	-4,037.8	1,635.3	4,252.6	0.00	0.00	0.00
15,900.0	90.00	179.63	11,739.0	-4,137.8	1,635.9	4,351.3	0.00	0.00	0.00
16,000.0	90.00	179.63	11,739.0	-4,237.8	1,636.6	4,450.1	0.00	0.00	0.00
16,100.0	90.00	179.63	11,739.0	-4,337.8	1,637.2	4,548.8	0.00	0.00	0.00
16,200.0	90.00	179.63	11,739.0	-4,437.8	1,637.9	4,647.5	0.00	0.00	0.00
16,300.0	90.00	179.63	11,739.0	-4,537.8	1,638.5	4,746.3	0.00	0.00	0.00
16,400.0	90.00	179.63	11,739.0	-4,637.8	1,639.2	4,845.0	0.00	0.00	0.00
16,500.0	90.00	179.63	11,739.0	-4,737.8	1,639.8	4,943.7	0.00	0.00	0.00
16,600.0	90.00	179.63	11,739.0	-4,837.8	1,640.5	5,042.4	0.00	0.00	0.00
16,700.0	90.00	179.63	11,739.0	-4,937.8	1,641.1	5,141.2	0.00	0.00	0.00
16,800.0	90.00	179.63	11,739.0	-5,037.8	1,641.8	5,239.9	0.00	0.00	0.00
16,900.0	90.00	179.63	11,739.0	-5,137.8	1,642.4	5,338.6	0.00	0.00	0.00
17,000.0	90.00	179.63	11,739.0	-5,237.8	1,643.1	5,437.4	0.00	0.00	0.00
17,100.0	90.00	179.63	11,739.0	-5,337.8	1,643.7	5,536.1	0.00	0.00	0.00
17,200.0	90.00	179.63	11,739.0	-5,437.8	1,644.4	5,634.8	0.00	0.00	0.00
17,300.0	90.00	179.63	11,739.0	-5,537.8	1,645.0	5,733.5	0.00	0.00	0.00
17,400.0	90.00	179.63	11,739.0	-5,637.8	1,645.7	5,832.3	0.00	0.00	0.00
17,500.0	90.00	179.63	11,739.0	-5,737.8	1,646.3	5,931.0	0.00	0.00	0.00
17,600.0	90.00	179.63	11,739.0	-5,837.8	1,647.0	6,029.7	0.00	0.00	0.00
17,700.0	90.00	179.63	11,739.0	-5,937.8	1,647.6	6,128.5	0.00	0.00	0.00
17,800.0	90.00	179.63	11,739.0	-6,037.8	1,648.3	6,227.2	0.00	0.00	0.00
17,900.0	90.00	179.63	11,739.0	-6,137.8	1,648.9	6,325.9	0.00	0.00	0.00
18,000.0	90.00	179.63	11,739.0	-6,237.8	1,649.6	6,424.7	0.00	0.00	0.00
18,100.0	90.00	179.63	11,739.0	-6,337.8	1,650.2	6,523.4	0.00	0.00	0.00
18,200.0	90.00	179.63	11,739.0	-6,437.8	1,650.9	6,622.1	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 #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	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)
18,300.0	90.00	179.63	11,739.0	-6,537.8	1,651.5	6,720.8	0.00	0.00	0.00
18,400.0	90.00	179.63	11,739.0	-6,637.8	1,652.2	6,819.6	0.00	0.00	0.00
18,500.0	90.00	179.63	11,739.0	-6,737.8	1,652.8	6,918.3	0.00	0.00	0.00
18,600.0	90.00	179.63	11,739.0	-6,837.8	1,653.5	7,017.0	0.00	0.00	0.00
18,700.0	90.00	179.63	11,739.0	-6,937.8	1,654.1	7,115.8	0.00	0.00	0.00
18,800.0	90.00	179.63	11,739.0	-7,037.8	1,654.8	7,214.5	0.00	0.00	0.00
18,900.0	90.00	179.63	11,739.0	-7,137.8	1,655.4	7,313.2	0.00	0.00	0.00
19,000.0	90.00	179.63	11,739.0	-7,237.8	1,656.1	7,411.9	0.00	0.00	0.00
19,100.0	90.00	179.63	11,739.0	-7,337.8	1,656.7	7,510.7	0.00	0.00	0.00
19,200.0	90.00	179.63	11,739.0	-7,437.7	1,657.4	7,609.4	0.00	0.00	0.00
19,300.0	90.00	179.63	11,739.0	-7,537.7	1,658.0	7,708.1	0.00	0.00	0.00
19,400.0	90.00	179.63	11,739.0	-7,637.7	1,658.7	7,806.9	0.00	0.00	0.00
19,500.0	90.00	179.63	11,739.0	-7,737.7	1,659.3	7,905.6	0.00	0.00	0.00
19,600.0	90.00	179.63	11,739.0	-7,837.7	1,660.0	8,004.3	0.00	0.00	0.00
19,700.0	90.00	179.63	11,739.0	-7,937.7	1,660.6	8,103.1	0.00	0.00	0.00
19,800.0	90.00	179.63	11,739.0	-8,037.7	1,661.3	8,201.8	0.00	0.00	0.00
19,900.0	90.00	179.63	11,739.0	-8,137.7	1,661.9	8,300.5	0.00	0.00	0.00
20,000.0	90.00	179.63	11,739.0	-8,237.7	1,662.6	8,399.2	0.00	0.00	0.00
20,100.0	90.00	179.63	11,739.0	-8,337.7	1,663.2	8,498.0	0.00	0.00	0.00
20,200.0	90.00	179.63	11,739.0	-8,437.7	1,663.9	8,596.7	0.00	0.00	0.00
20,300.0	90.00	179.63	11,739.0	-8,537.7	1,664.5	8,695.4	0.00	0.00	0.00
20,400.0	90.00	179.63	11,739.0	-8,637.7	1,665.2	8,794.2	0.00	0.00	0.00
20,500.0	90.00	179.63	11,739.0	-8,737.7	1,665.8	8,892.9	0.00	0.00	0.00
20,600.0	90.00	179.63	11,739.0	-8,837.7	1,666.5	8,991.6	0.00	0.00	0.00
20,700.0	90.00	179.63	11,739.0	-8,937.7	1,667.1	9,090.3	0.00	0.00	0.00
20,800.0	90.00	179.63	11,739.0	-9,037.7	1,667.8	9,189.1	0.00	0.00	0.00
20,900.0	90.00	179.63	11,739.0	-9,137.7	1,668.4	9,287.8	0.00	0.00	0.00
21,000.0	90.00	179.63	11,739.0	-9,237.7	1,669.1	9,386.5	0.00	0.00	0.00
21,100.0	90.00	179.63	11,739.0	-9,337.7	1,669.7	9,485.3	0.00	0.00	0.00
21,200.0	90.00	179.63	11,739.0	-9,437.7	1,670.4	9,584.0	0.00	0.00	0.00
21,300.0	90.00	179.63	11,739.0	-9,537.7	1,671.0	9,682.7	0.00	0.00	0.00
21,400.0	90.00	179.63	11,739.0	-9,637.7	1,671.7	9,781.4	0.00	0.00	0.00
21,500.0	90.00	179.63	11,739.0	-9,737.7	1,672.3	9,880.2	0.00	0.00	0.00
21,600.0	90.00	179.63	11,739.0	-9,837.7	1,673.0	9,978.9	0.00	0.00	0.00
21,697.5	90.00	179.63	11,739.0	-9,935.2	1,673.6	10,075.2	0.00	0.00	0.00
Start 50.0 hold at 21697.5 MD									
21,700.0	90.00	179.63	11,739.0	-9,937.7	1,673.6	10,077.6	0.00	0.00	0.00
21,747.5	90.00	179.63	11,739.0	-9,985.2	1,673.9	10,124.5	0.00	0.00	0.00
TD at 21747.5									

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC #757H
Company:	DELAWARE BASIN EAST	TVD Reference:	GL @ 3176.0usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	GL @ 3176.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC #757H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL (ZHU 2032 WC #757H) - plan hits target center - Rectangle (sides W100.0 H10,071.8 D20.0)	0.00	359.63	11,739.0	-9,985.2	1,673.9	364,391.60	697,231.54	32° 0' 0.830 N	103° 41' 49.545 W
FTP (ZHU 2032 WC #757H) - plan misses target center by 240.0usft at 11807.4usft MD (11578.0 TVD, -91.9 N, 1609.6 E) - Circle (radius 50.0)	0.00	0.00	11,739.0	86.2	1,608.4	374,462.96	697,166.10	32° 1' 40.501 N	103° 41' 49.616 W
LTP (ZHU 2032 WC #757H) - plan hits target center - Point	0.00	0.00	11,739.0	-9,935.2	1,673.6	364,441.60	697,231.25	32° 0' 1.325 N	103° 41' 49.545 W

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
	11,461.5	11,261.5	DB INT 7-5/8"	7-5/8	9-7/8
	21,747.5	11,739.0	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 Build 2.00
	2,300.0	2,289.6	1.9	111.0	Start 3824.5 hold at 2300.0 MD
	6,124.5	5,966.0	20.3	1,165.0	Start Drop -0.50
	9,324.5	9,124.6	28.1	1,608.8	Start 2137.0 hold at 9324.5 MD
	11,461.5	11,261.5	28.1	1,608.8	Start DLS 12.00 TFO 179.63
	12,211.5	11,739.0	-449.4	1,611.9	Start 9486.0 hold at 12211.5 MD
	21,697.5	11,739.0	-9,935.2	1,673.6	Start 50.0 hold at 21697.5 MD
	21,747.5	11,739.0	-9,985.2	1,673.9	TD at 21747.5

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 394920

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 394920
	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.	6/3/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	6/3/2025