

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. 30-025-54519
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)

Additional Information

Location of Well

0. SHL: NWSW / 2598 FSL / 850 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0279711 / LONG: -103.7030206 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2620 FSL / 1262 FWL / TWSP: 26S / RANGE: 32E / SECTION: 20 / LAT: 32.0287034 / LONG: -103.7016909 (TVD: 11781 feet, MD: 11850 feet)

PPP: NWNW / 1 FNL / 838 FWL / TWSP: 26S / RANGE: 32E / SECTION: 29 / LAT: 32.020832 / LONG: -103.701696 (TVD: 11913 feet, MD: 14471 feet)

BHL: LOT 4 / 50 FSL / 1262 FWL / TWSP: 26S / RANGE: 32E / SECTION: 32 / LAT: 32.0003544 / LONG: -103.7016684 (TVD: 11913 feet, MD: 21829 feet)

Form 3160-3
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

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

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

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

25. Signature 	Name (Printed/Typed)	Date
Title		

Approved by (Signature)	Name (Printed/Typed)	Date
Title Sup PE	Office CFO	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices. As of May 13, 2017, and pursuant to 43 CFR § 3171.5, operators must file this form and associated documents using the Bureau of Land Management's electronic commerce application, the Automated Fluid Minerals Support System (AFMSS). <https://afmss.blm.gov/afmss-gateway-ui/>

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been direction any drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

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

WELL LOCATION INFORMATION

API Number 30-025-54519 30-025	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 334843	Property Name ZIA HILLS 2032 WC	Well Number 754H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,177'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	20	26S	32E		2,530' FSL	949' FWL	32.027785°	-103.702698°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 4	32	26S	32E		50' FSL	1,262' FWL	32.000354°	-103.701668°	LEA

Dedicated Acres 609.10	Infill or Defining Well Defining	Defining Well API Pending 754H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	20	26S	32E		2,530' FSL	949' FWL	32.027785°	-103.702698°	LEA

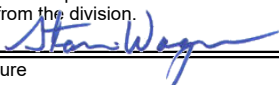
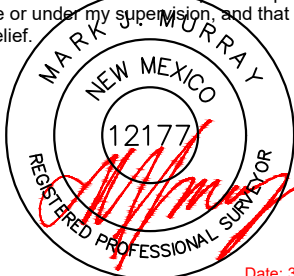
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	20	26S	32E		2,620' FSL	1,262' FWL	32.028034°	-103.701691°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 4	32	26S	32E		100' FSL	1,262' FWL	32.000492°	-103.701667°	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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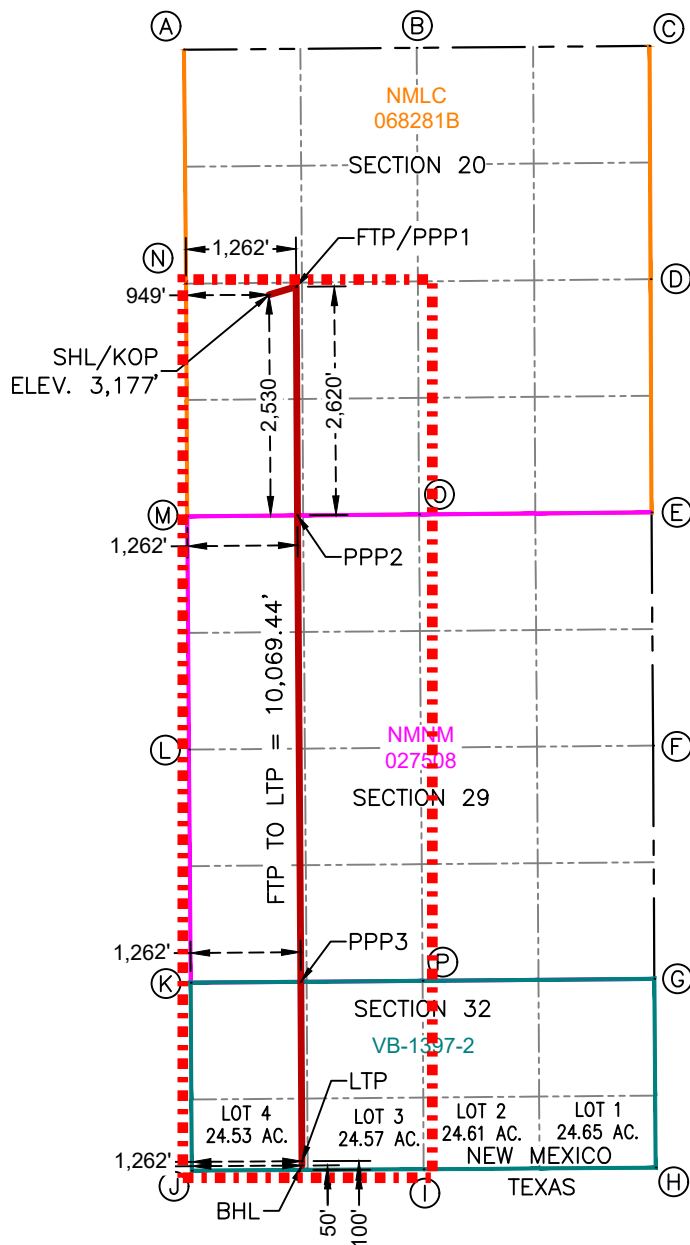
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  Stan Wagner 3/12/2025		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 3/11/2025	
Signature Stan Wagner		Signature and Seal of Professional Surveyor	
Printed Name		Certificate Number 12177	Date of Survey 3/11/2025
Email Address			

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

ACREAGE DEDICATION PLATS

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

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

ZIA HILLS 2032 WC 754H

**SURFACE HOLE LOCATION
& KICK-OFF POINT**
2,530' FSL & 949' FWL
ELEV.=3,177'

NAD 83 X = 736,769.57'
NAD 83 Y = 374,417.12'
NAD 83 LAT = 32.027785°
NAD 83 LONG = -103.702698°

**FIRST TAKE POINT &
PENETRATION POINT 1**
2,620' FSL & 1,262' FWL
NAD 83 X = 737,081.24'
NAD 83 Y = 374,509.68'
NAD 83 LAT = 32.028034°
NAD 83 LONG = -103.701691°

PENETRATION POINT 2
0' FNL & 1,262' FWL
NAD 83 X = 737,094.99'
NAD 83 Y = 371,889.71'
NAD 83 LAT = 32.020832°
NAD 83 LONG = -103.701696°

PENETRATION POINT 3
0' FNL & 1,262' FWL
NAD 83 X = 737,134.92'
NAD 83 Y = 366,546.17'
NAD 83 LAT = 32.006143°
NAD 83 LONG = -103.701668°

LAST TAKE POINT
100' FSL & 1,262' FWL
NAD 83 X = 737,147.09'
NAD 83 Y = 364,490.46'
NAD 83 LAT = 32.000492°
NAD 83 LONG = -103.701667°

BOTTOM HOLE LOCATION
50' FSL & 1,262' FWL

NAD 83 X = 737,147.09'
NAD 83 Y = 364,440.46'
NAD 83 LAT = 32.000354°
NAD 83 LONG = -103.701668°

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

A	IRON PIPE W/BRASS CAP N:377,224.61' E:735,795.66'	G	IRON PIPE W/BRASS CAP N:366,579.65' E:741,183.39'	M	IRON PIPE W/BRASS CAP N:371,879.35' E:735,833.03'
B	IRON PIPE W/BRASS CAP N:377,246.91' E:738,461.95'	H	IRON PIPE W/BRASS CAP N:364,418.30' E:741,198.02'	N	IRON PIPE W/BRASS CAP N:374,544.72' E:735,819.04'
C	IRON PIPE W/BRASS CAP N:377,269.22' E:741,128.24'	I	IRON PIPE W/BRASS CAP N:364,397.74' E:738,540.94'	O	IRON PIPE W/BRASS CAP N:371,901.14' E:738,488.27'
D	IRON PIPE W/BRASS CAP N:374,596.59' E:741,140.55'	J	IRON PIPE W/BRASS CAP N:364,381.83' E:735,885.40'	P	IRON PIPE W/BRASS CAP N:366,557.63' E:738,529.56'
E	IRON PIPE W/BRASS CAP N:371,924.06' E:741,150.79'	K	IRON PIPE W/BRASS CAP N:366,535.81' E:735,872.97'		
F	IRON PIPE W/BRASS CAP N:369,251.80' E:741,169.27'	L	IRON PIPE W/BRASS CAP N:369,206.20' E:735,852.74'		

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 02/21/2023

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2032 WC 751H	30-025-	L-20-26S-32E	2649 FSL & 775 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 752H	30-025-	L-20-26S-32E	2632 FSL & 800 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 753H	30-025-	L-20-26S-32E	2615 FSL & 825 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 754H	30-025-	L-20-26S-32E	2530 FSL & 949 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 755H	30-025-	L-20-26S-32E	2581 FSL & 875 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 756H	30-025-	L-20-26S-32E	2564 FSL & 900 FWL	± 2245	± 6736	± 5165
Zia Hills Unit 2032 WC 757H	30-025-	L-20-26S-32E	2547 FSL & 925 FWL	± 2245	± 6736	± 5165

IV. Central Delivery Point Name: Zia Hills Unit 2032 WC Facility SWNW 20-26S-32E [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2032 WC 751H-757H	Pending	± 4/1/2024	± 25 days from spud	TBD	TBD	TBD

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 02/21/2023
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

ConocoPhillips Company - Zia Hills Unit 2032 WC 754H

1. Geologic Formations

TVD of target	11,916' EOL	Pilot hole depth	NA
MD at TD:	21,701'	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	1.54	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	21,701	5.5"	23	P110-CY	W441	1.74	2.03	2.66	2.42
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 754H

	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 754H

3. Cementing Program

Casing	# Sks	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 754H

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 754H

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	Intermediate shoe to TD
N	Density	Intermediate shoe to TD
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 754H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8370 psi at 11916' 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?
N	Is casing pre-set?

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

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2032 PROJECT (S TO N)

ZIA HILLS UNIT 2032 WC 754H

300255254100

OWB

PWP1

Anticollision Report

07 March, 2025

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. SF of 3	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	3/7/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Con	
1,500.0	11,462.6	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corru	
11,462.6	21,700.7	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corru	

Summary							
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Between Ellipses (usft)	Separation Factor	Warning
Site Name Offset Well - Wellbore - Design							
ZIA HILLS 20 FED COM PROJECT							
RUSSELL FEDERAL #12 - OWB - AWP	1,400.0	1,373.2	619.3	575.9	14.257	CC	
RUSSELL FEDERAL #12 - OWB - AWP	1,600.0	1,573.3	621.1	570.1	12.180	ES	
RUSSELL FEDERAL #12 - OWB - AWP	4,400.0	4,335.0	929.7	759.4	5.459	SF	
RUSSELL FEDERAL #6 (P&A) - OWB - AWP	4,424.9	4,378.0	438.0	255.6	2.401	Caution - Monitor Closely, CC, ES, SF	
ZIA HILLS UNIT 2032 PROJECT (S TO N)							
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	1,668.1	1,634.7	209.4	198.7	19.599	CC	
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	1,800.0	1,763.5	209.6	198.5	18.899	ES	
ZIA HILLS UNIT 2032 WC #706H - OWB - PWP0	4,000.0	3,938.1	373.9	351.6	16.806	SF	
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	1,863.6	1,823.7	201.8	190.6	17.973	CC, ES	
ZIA HILLS UNIT 2032 WC #707H - OWB - PWP0	2,300.0	2,244.9	216.8	204.1	17.093	SF	
ZIA HILLS UNIT 2032 WC 701H - OWB - PWP0	1,500.0	1,468.0	291.5	281.0	27.942	CC, ES	
ZIA HILLS UNIT 2032 WC 701H - OWB - PWP0	1,800.0	1,759.9	298.9	287.8	26.978	SF	
ZIA HILLS UNIT 2032 WC 702H - OWB - PWP0	1,500.0	1,468.0	270.4	260.0	25.885	CC, ES	
ZIA HILLS UNIT 2032 WC 702H - OWB - PWP0	11,475.0	11,463.8	865.2	829.7	24.362	SF	
ZIA HILLS UNIT 2032 WC 703H - OWB - PWP0	1,860.6	1,836.3	247.4	236.3	22.167	CC, ES	
ZIA HILLS UNIT 2032 WC 703H - OWB - PWP0	11,300.0	11,255.6	468.0	438.1	15.637	SF	
ZIA HILLS UNIT 2032 WC 704H - OWB - PWP0	1,500.0	1,469.0	234.2	223.7	22.394	ES	
ZIA HILLS UNIT 2032 WC 704H - OWB - PWP0	1,537.6	1,506.5	234.2	223.8	22.506	CC	
ZIA HILLS UNIT 2032 WC 704H - OWB - PWP0	11,456.4	11,421.9	275.1	245.0	9.146	SF	
ZIA HILLS UNIT 2032 WC 705H - OWB - PWP0	1,574.3	1,543.4	220.1	209.7	21.036	CC	
ZIA HILLS UNIT 2032 WC 705H - OWB - PWP0	1,700.0	1,666.8	220.4	209.6	20.411	ES	
ZIA HILLS UNIT 2032 WC 705H - OWB - PWP0	11,300.0	11,304.8	485.4	446.0	12.343	SF	
ZIA HILLS UNIT 2032 WC 751H - OWB - AWP	1,326.7	1,327.0	204.7	196.2	24.101	CC, ES, SF	
ZIA HILLS UNIT 2032 WC 751H - OWB - PWP1	1,500.0	1,500.0	210.2	200.2	20.943	CC, ES	
ZIA HILLS UNIT 2032 WC 751H - OWB - PWP1	1,700.0	1,695.9	217.9	207.4	20.703	SF	
ZIA HILLS UNIT 2032 WC 752H - OWB - AWP	788.2	788.3	176.2	168.4	22.552	CC	
ZIA HILLS UNIT 2032 WC 752H - OWB - AWP	800.0	800.0	176.2	168.4	22.507	ES	
ZIA HILLS UNIT 2032 WC 752H - OWB - AWP	1,304.4	1,304.6	177.6	169.1	20.973	SF	
ZIA HILLS UNIT 2032 WC 752H - OWB - PWP1	1,500.0	1,500.0	180.2	170.1	17.948	CC, ES	
ZIA HILLS UNIT 2032 WC 752H - OWB - PWP1	21,700.7	21,414.6	848.0	676.0	4.930	SF	
ZIA HILLS UNIT 2032 WC 753H - OWB - AWP	689.8	689.8	146.2	138.5	18.975	CC	
ZIA HILLS UNIT 2032 WC 753H - OWB - AWP	700.0	700.0	146.2	138.5	18.942	ES	
ZIA HILLS UNIT 2032 WC 753H - OWB - AWP	1,358.9	1,359.0	149.6	141.1	17.557	SF	
ZIA HILLS UNIT 2032 WC 753H - OWB - PWP1	1,500.0	1,500.0	150.0	140.0	14.943	CC, ES	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	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 (S TO N)						
ZIA HILLS UNIT 2032 WC 753H - OWB - PWP1	21,700.7	21,589.3	464.6	300.4	2.830	Normal Operations, SF
ZIA HILLS UNIT 2032 WC 754Y - OWB - AWP	1,188.0	1,188.1	109.9	101.4	12.949	CC, ES, SF
ZIA HILLS UNIT 2032 WC 755H - OWB - AWP	1,364.9	1,365.0	83.1	74.5	9.657	CC, ES, SF
ZIA HILLS UNIT 2032 WC 755H - OWB - PWP1	2,674.7	2,686.5	65.9	52.3	4.860	CC
ZIA HILLS UNIT 2032 WC 755H - OWB - PWP1	2,700.0	2,711.7	65.9	52.3	4.837	ES
ZIA HILLS UNIT 2032 WC 755H - OWB - PWP1	21,700.7	21,680.8	464.6	299.9	2.821	Normal Operations, SF
ZIA HILLS UNIT 2032 WC 756H - OWB - AWP	1,344.9	1,345.0	52.3	43.7	6.101	CC, ES, SF
ZIA HILLS UNIT 2032 WC 756H - OWB - PWP1	2,391.4	2,399.9	39.3	26.6	3.086	CC
ZIA HILLS UNIT 2032 WC 756H - OWB - PWP1	2,400.0	2,408.4	39.3	26.5	3.081	ES, SF
ZIA HILLS UNIT 2032 WC 757H - OWB - AWP	1,344.9	1,345.0	22.4	13.9	2.630	Normal Operations, CC, ES, SF
ZIA HILLS UNIT 2032 WC 757H - OWB - PWP1	2,210.4	2,214.4	18.9	6.7	1.550	Caution - Monitor Closely, CC, ES, SF

Offset Design: ZIA HILLS 20 FED COM PROJECT - RUSSELL FEDERAL #12 - OWB - AWP

Survey Program: 296-r.5 INC-ONLY												Offset Site Error:	0.0 usft
Rule Assigned:												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-89.61	4.3	-619.3	619.9				
100.0	100.0	73.1	73.1	3.0	3.5	-89.61	4.3	-619.3	619.3	611.9	7.46	82.967	
200.0	200.0	173.1	173.1	3.2	5.3	-89.61	4.3	-619.3	619.3	609.8	9.57	64.747	
300.0	300.0	273.1	273.1	3.3	7.5	-89.61	4.3	-619.3	619.3	607.0	12.38	50.038	
400.0	400.0	373.1	373.1	3.4	9.4	-89.61	4.3	-619.3	619.3	604.5	14.87	41.654	
500.0	500.0	473.1	473.1	3.5	11.1	-89.59	4.4	-619.3	619.3	602.1	17.27	35.861	
600.0	600.0	573.1	573.1	3.7	12.9	-89.60	4.3	-619.3	619.3	599.6	19.73	31.399	
653.5	653.5	626.6	626.6	3.7	13.9	-89.61	4.3	-619.3	619.3	598.3	21.07	29.397	
700.0	700.0	673.1	673.1	3.8	14.8	-89.61	4.3	-619.3	619.3	597.1	22.25	27.837	
800.0	800.0	773.1	773.1	3.9	16.7	-89.58	4.5	-619.3	619.3	594.5	24.81	24.967	
900.0	900.0	873.1	873.1	4.0	18.5	-89.61	4.3	-619.3	619.3	592.0	27.38	22.619	
934.3	934.3	907.5	907.4	4.1	19.2	-89.61	4.3	-619.3	619.3	591.0	28.35	21.844	
1,000.0	1,000.0	973.1	973.1	4.2	20.6	-89.61	4.3	-619.3	619.3	589.1	30.23	20.491	
1,100.0	1,100.0	1,073.2	1,073.1	4.3	22.7	-89.56	4.8	-619.3	619.3	586.3	33.09	18.719	
1,200.0	1,200.0	1,173.2	1,173.1	4.4	24.8	-89.61	4.3	-619.3	619.3	583.4	35.94	17.232	
1,300.0	1,300.0	1,273.2	1,273.1	4.5	27.5	-89.61	4.3	-619.3	619.3	579.7	39.69	15.606	
1,400.0	1,400.0	1,373.2	1,373.1	4.6	30.2	-89.61	4.3	-619.3	619.3	575.9	43.44	14.257	CC
1,500.0	1,500.0	1,473.2	1,473.1	4.8	32.9	-89.49	5.5	-619.3	619.4	572.1	47.21	13.120	
1,504.4	1,504.4	1,477.7	1,477.6	4.8	33.1	179.51	5.5	-619.3	619.4	572.0	47.37	13.074	
1,600.0	1,600.0	1,573.3	1,573.1	4.8	35.6	179.47	5.0	-619.3	621.1	570.1	50.99	12.180	ES
1,700.0	1,699.8	1,673.1	1,672.9	5.0	38.3	179.40	4.3	-619.3	626.3	571.6	54.74	11.442	
1,800.0	1,799.5	1,772.8	1,772.6	5.2	40.7	179.46	4.8	-619.3	635.0	576.9	58.13	10.925	
1,850.0	1,849.1	1,822.5	1,822.3	5.2	41.9	179.45	4.7	-619.3	640.7	580.9	59.80	10.714	
1,900.0	1,898.8	1,872.2	1,871.9	5.2	43.1	179.41	4.3	-619.3	646.8	585.3	61.48	10.521	
2,000.0	1,998.0	1,971.5	1,971.1	5.4	45.9	179.50	5.1	-619.3	659.0	593.7	65.28	10.095	
2,100.0	2,097.3	2,070.8	2,070.4	5.6	48.7	179.44	4.3	-619.3	671.2	602.0	69.17	9.703	
2,200.0	2,196.5	2,170.1	2,169.6	5.7	51.6	179.45	4.3	-619.3	683.3	610.1	73.22	9.333	
2,300.0	2,295.8	2,269.5	2,269.0	5.9	54.5	179.51	5.0	-619.3	695.5	618.3	77.28	9.001	
2,400.0	2,395.0	2,368.8	2,368.1	6.1	57.5	179.47	4.3	-619.3	707.7	626.2	81.56	8.677	
2,500.0	2,494.3	2,468.1	2,467.4	6.2	60.8	179.47	4.3	-619.3	719.9	633.8	86.06	8.365	
2,600.0	2,593.5	2,567.3	2,566.6	6.4	64.0	179.69	6.8	-619.3	732.1	641.6	90.56	8.085	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	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-r.5 INC-ONLY													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
2,700.0	2,692.8	2,666.8	2,666.0	6.6	67.2	179.65	6.3	-619.3	744.3	649.2	95.07	7.829		
2,800.0	2,792.0	2,766.3	2,765.5	6.7	70.5	179.54	4.8	-619.3	756.5	656.9	99.58	7.597		
2,900.0	2,891.3	2,865.4	2,864.4	6.9	73.6	179.51	4.3	-619.3	768.7	664.7	103.92	7.397		
3,000.0	2,990.6	2,964.7	2,963.6	7.1	76.6	179.62	5.7	-619.3	780.9	672.7	108.20	7.217		
3,100.0	3,089.8	3,064.1	3,063.0	7.2	79.7	179.58	5.1	-619.3	793.0	680.6	112.48	7.050		
3,200.0	3,189.1	3,163.5	3,162.2	7.4	82.9	179.53	4.3	-619.3	805.2	688.3	116.95	6.885		
3,300.0	3,288.3	3,262.8	3,261.4	7.6	86.3	179.63	5.6	-619.3	817.4	695.7	121.67	6.718		
3,400.0	3,387.6	3,362.3	3,360.9	7.8	89.7	179.56	4.5	-619.3	829.6	703.2	126.40	6.563		
3,500.0	3,486.8	3,461.5	3,459.9	7.9	93.0	179.55	4.3	-619.3	841.8	710.7	131.10	6.421		
3,600.0	3,586.1	3,560.8	3,559.2	8.1	96.4	179.70	6.4	-619.3	854.0	718.2	135.80	6.289		
3,700.0	3,685.3	3,660.3	3,658.7	8.3	99.8	179.65	5.5	-619.3	866.2	725.6	140.51	6.164		
3,800.0	3,784.6	3,759.6	3,757.7	8.5	103.1	179.57	4.3	-619.3	878.3	733.2	145.13	6.052		
3,896.1	3,880.0	3,855.0	3,853.1	8.6	106.1	179.57	4.3	-619.3	890.0	740.6	149.40	5.957		
3,900.0	3,883.8	3,858.8	3,856.9	8.6	106.3	179.57	4.3	-619.3	890.5	740.9	149.58	5.954		
4,000.0	3,983.2	3,958.3	3,956.3	9.0	109.5	179.69	6.0	-619.3	901.8	747.7	154.05	5.854		
4,100.0	4,082.8	4,058.1	4,056.1	9.1	112.7	179.64	5.1	-619.3	911.3	752.8	158.52	5.749		
4,200.0	4,182.5	4,157.7	4,155.6	9.3	115.8	179.59	4.3	-619.3	919.1	756.2	162.86	5.643		
4,300.0	4,282.3	4,257.7	4,255.5	9.5	118.8	179.65	5.1	-619.3	925.1	758.0	167.10	5.536		
4,400.0	4,382.2	4,335.0	4,332.7	9.6	121.1	179.60	4.3	-619.3	929.7	759.4	170.31	5.459 SF		
4,500.0	4,482.1	4,335.0	4,332.7	9.8	121.1	179.60	4.3	-619.3	940.0	771.0	168.94	5.564		
4,596.1	4,578.3	4,335.0	4,332.7	9.9	121.1	-89.40	4.3	-619.3	958.0	792.1	165.96	5.773		
4,600.0	4,582.1	4,335.0	4,332.7	9.9	121.1	-89.40	4.3	-619.3	958.9	793.1	165.81	5.783		
4,700.0	4,682.1	4,335.0	4,332.7	10.1	121.1	-89.40	4.3	-619.3	987.0	825.7	161.23	6.122		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	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-r.5 INC-ONLY													Offset Well Error: 3.0 usft
Reference	Offset	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)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	104.50	-183.8	710.7	734.3				
100.0	100.0	80.0	80.0	3.0	4.1	104.50	-183.8	710.7	734.0	726.0	8.05	91.144	
200.0	200.0	180.0	180.0	3.2	7.0	104.50	-183.8	710.7	734.0	722.4	11.66	62.972	
300.0	300.0	280.0	280.0	3.3	10.3	104.50	-183.8	710.7	734.0	718.0	16.02	45.811	
400.0	400.0	380.0	380.0	3.4	13.7	104.50	-183.8	710.7	734.0	713.4	20.65	35.541	
500.0	500.0	480.0	480.0	3.5	17.2	104.50	-183.8	710.7	734.0	708.7	25.40	28.902	
600.0	600.0	580.0	580.0	3.7	19.6	104.50	-183.8	710.7	734.0	705.4	28.69	25.583	
700.0	700.0	680.0	680.0	3.8	21.7	104.50	-183.8	710.7	734.0	702.4	31.63	23.210	
772.9	772.9	752.9	752.9	3.9	23.3	104.46	-183.3	710.7	733.9	700.1	33.77	21.733	
800.0	800.0	779.9	779.9	3.9	23.8	104.46	-183.3	710.7	733.9	699.3	34.57	21.232	
900.0	900.0	879.6	879.6	4.0	25.9	104.47	-183.4	710.7	733.9	696.4	37.51	19.569	
1,000.0	1,000.0	979.3	979.3	4.2	28.1	104.50	-183.7	710.7	734.0	693.6	40.45	18.146	
1,100.0	1,100.0	1,080.0	1,080.0	4.3	30.3	104.50	-183.8	710.7	734.0	690.6	43.40	16.913	
1,200.0	1,200.0	1,180.0	1,180.0	4.4	32.5	104.50	-183.8	710.7	734.0	687.6	46.46	15.800	
1,272.9	1,272.9	1,252.9	1,252.8	4.5	34.1	104.44	-183.0	710.7	733.8	685.2	48.69	15.073	
1,300.0	1,300.0	1,279.9	1,279.9	4.5	34.7	104.44	-183.0	710.7	733.8	684.3	49.51	14.821	
1,400.0	1,400.0	1,379.4	1,379.4	4.6	36.8	104.46	-183.2	710.7	733.9	681.3	52.56	13.963	
1,500.0	1,500.0	1,479.0	1,478.9	4.8	39.0	104.49	-183.7	710.7	734.0	678.4	55.61	13.200	
1,600.0	1,600.0	1,580.1	1,580.0	4.8	41.2	13.54	-183.8	710.7	732.4	673.7	58.63	12.490	
1,700.0	1,699.8	1,679.4	1,679.3	5.0	43.3	13.59	-182.9	710.7	727.0	665.4	61.59	11.804	
1,800.0	1,799.5	1,777.5	1,777.3	5.2	45.4	13.85	-183.7	710.7	718.8	654.2	64.52	11.141	
1,850.0	1,849.1	1,829.4	1,829.1	5.2	46.6	14.00	-183.8	710.7	713.3	647.0	66.26	10.766	
1,900.0	1,898.8	1,879.0	1,878.8	5.2	47.9	14.12	-183.8	710.7	707.4	639.4	67.98	10.405	
2,000.0	1,998.0	1,978.3	1,978.0	5.4	50.4	14.37	-183.8	710.7	695.6	624.1	71.45	9.735	
2,100.0	2,097.3	2,076.5	2,076.2	5.6	52.8	14.48	-182.1	710.7	683.3	608.4	74.88	9.126	
2,200.0	2,196.5	2,174.4	2,174.1	5.7	55.3	14.82	-183.1	710.7	671.8	593.5	78.30	8.580	
2,300.0	2,295.8	2,276.3	2,275.8	5.9	57.7	15.15	-183.8	710.7	660.2	578.6	81.64	8.086	
2,400.0	2,395.0	2,375.1	2,374.6	6.1	59.9	15.36	-183.0	710.7	648.2	563.5	84.72	7.651	
2,500.0	2,494.3	2,472.6	2,472.1	6.2	62.0	15.71	-183.7	710.7	636.7	548.9	87.76	7.254	
2,600.0	2,593.5	2,574.1	2,573.5	6.4	64.6	16.03	-183.8	710.7	625.0	533.5	91.42	6.836	
2,700.0	2,692.8	2,671.6	2,671.1	6.6	67.2	16.31	-183.5	710.7	613.2	518.2	94.97	6.456	
2,800.0	2,792.0	2,772.7	2,772.0	6.7	70.0	16.67	-183.8	710.7	601.6	502.7	98.90	6.083	
2,900.0	2,891.3	2,869.4	2,868.6	6.9	72.8	16.95	-183.3	710.7	589.7	487.0	102.74	5.740	
3,000.0	2,990.6	2,971.4	2,970.6	7.1	75.7	17.36	-183.8	710.7	578.2	471.4	106.84	5.412	
3,100.0	3,089.8	3,070.7	3,069.8	7.2	78.6	17.73	-183.8	710.7	566.6	455.8	110.84	5.112	
3,200.0	3,189.1	3,169.7	3,168.8	7.4	81.4	17.90	-181.6	710.7	554.3	439.5	114.84	4.827	
3,300.0	3,288.3	3,267.8	3,266.9	7.6	84.2	18.34	-182.1	710.7	542.9	424.1	118.79	4.570	
3,400.0	3,387.6	3,365.9	3,365.0	7.8	87.1	18.86	-183.3	710.7	531.7	408.9	122.75	4.331	
3,500.0	3,486.8	3,468.0	3,466.8	7.9	90.4	19.36	-183.8	710.7	520.4	393.0	127.33	4.087	
3,600.0	3,586.1	3,567.2	3,566.1	8.1	93.7	19.82	-183.8	710.7	508.9	376.9	132.01	3.855	
3,700.0	3,685.3	3,665.6	3,664.4	8.3	97.0	20.15	-182.5	710.7	496.9	360.3	136.65	3.637	
3,800.0	3,784.6	3,763.5	3,762.4	8.5	100.3	20.73	-183.4	710.7	485.8	344.6	141.27	3.439	
3,896.1	3,880.0	3,861.6	3,860.0	8.6	104.6	21.29	-183.8	710.7	475.0	327.9	147.16	3.228	
3,900.0	3,883.8	3,865.4	3,863.8	8.6	104.8	21.31	-183.8	710.7	474.6	327.2	147.42	3.219	
4,000.0	3,983.2	3,964.8	3,963.2	9.0	109.5	21.78	-183.8	710.7	464.1	310.1	154.02	3.013	
4,100.0	4,082.8	4,062.4	4,060.8	9.1	114.1	21.88	-181.3	710.7	454.3	293.8	160.49	2.831 Normal Operations	
4,200.0	4,182.5	4,159.8	4,158.0	9.3	118.7	22.44	-183.1	710.7	447.8	280.9	166.93	2.683 Normal Operations	
4,300.0	4,282.3	4,264.8	4,262.3	9.5	124.1	22.81	-183.8	710.7	442.5	268.2	174.35	2.538 Normal Operations	
4,400.0	4,382.2	4,358.9	4,356.2	9.6	128.9	22.94	-183.3	710.7	438.4	257.3	181.09	2.421 Caution - Monitor Closely	
4,424.9	4,407.1	4,378.0	4,374.8	9.7	129.9	23.03	-183.8	710.7	438.0	255.6	182.40	2.401 Caution - Monitor Closely, CC, ES, SF	
4,500.0	4,482.1	4,378.0	4,374.8	9.8	129.9	23.06	-183.8	710.7	444.9	265.9	179.00	2.485 Caution - Monitor Closely	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	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-r.5 INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,596.1	4,578.3	4,378.0	4,374.8	9.9	129.9	114.18	-183.8	710.7	472.5	304.1	168.46	2.805	Normal Operations
4,600.0	4,582.1	4,378.0	4,374.8	9.9	129.9	114.18	-183.8	710.7	474.1	306.1	167.93	2.823	Normal Operations
4,700.0	4,682.1	4,378.0	4,374.8	10.1	129.9	114.18	-183.8	710.7	521.7	368.8	152.95	3.411	
4,800.0	4,782.1	4,378.0	4,374.8	10.2	129.9	114.18	-183.8	710.7	582.8	445.4	137.36	4.243	
4,900.0	4,882.1	4,378.0	4,374.8	10.2	129.9	114.18	-183.8	710.7	653.5	530.6	122.98	5.314	
5,000.0	4,982.1	4,378.0	4,374.8	10.3	129.9	114.18	-183.8	710.7	731.1	620.7	110.45	6.619	
5,100.0	5,082.1	4,378.0	4,374.8	10.4	129.9	114.18	-183.8	710.7	813.7	713.8	99.81	8.152	
5,200.0	5,182.1	4,378.0	4,374.8	10.5	129.9	114.18	-183.8	710.7	899.7	808.9	90.84	9.904	
5,300.0	5,282.1	4,378.0	4,374.8	10.5	129.9	114.18	-183.8	710.7	988.4	905.1	83.29	11.867	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	17.04	200.4	61.4	211.8				
100.0	100.0	70.0	70.0	3.0	3.1	17.04	200.4	61.4	209.6	202.6	7.09	29.574	
200.0	200.0	170.0	170.0	3.2	3.2	17.04	200.4	61.4	209.6	202.3	7.36	28.495	
300.0	300.0	270.0	270.0	3.3	3.3	17.04	200.4	61.4	209.6	202.0	7.60	27.572	
400.0	400.0	370.0	370.0	3.4	3.5	17.04	200.4	61.4	209.6	201.8	7.85	26.719	
500.0	500.0	470.0	470.0	3.5	3.6	17.04	200.4	61.4	209.6	201.6	8.09	25.924	
600.0	600.0	570.0	570.0	3.7	3.7	17.04	200.4	61.4	209.6	201.3	8.33	25.181	
700.0	700.0	670.0	670.0	3.8	3.8	17.04	200.4	61.4	209.6	201.1	8.56	24.484	
800.0	800.0	770.0	770.0	3.9	3.9	17.04	200.4	61.4	209.6	200.8	8.80	23.829	
900.0	900.0	870.0	870.0	4.0	4.1	17.04	200.4	61.4	209.6	200.6	9.03	23.212	
1,000.0	1,000.0	970.0	970.0	4.2	4.2	17.04	200.4	61.4	209.6	200.4	9.26	22.629	
1,100.0	1,100.0	1,070.0	1,070.0	4.3	4.3	17.04	200.4	61.4	209.6	200.1	9.50	22.077	
1,200.0	1,200.0	1,170.0	1,170.0	4.4	4.4	17.04	200.4	61.4	209.6	199.9	9.73	21.554	
1,300.0	1,300.0	1,270.0	1,270.0	4.5	4.5	17.04	200.4	61.4	209.6	199.7	9.96	21.057	
1,400.0	1,400.0	1,370.0	1,370.0	4.6	4.7	17.04	200.4	61.4	209.6	199.5	10.18	20.584	
1,500.0	1,500.0	1,470.0	1,470.0	4.8	4.8	17.04	200.4	61.4	209.6	199.2	10.41	20.134	
1,600.0	1,600.0	1,568.3	1,568.3	4.8	4.9	-74.20	200.5	62.3	209.5	199.0	10.49	19.967	
1,668.1	1,668.0	1,634.7	1,634.7	4.9	5.0	-74.41	200.6	64.6	209.4	198.7	10.68	19.599 CC	
1,700.0	1,699.8	1,665.9	1,665.8	5.0	5.0	-74.52	200.7	66.2	209.4	198.6	10.78	19.420	
1,800.0	1,799.5	1,763.5	1,763.2	5.2	5.2	-74.87	201.1	73.5	209.6	198.5	11.09	18.899 ES	
1,850.0	1,849.1	1,812.4	1,811.7	5.2	5.3	-75.06	201.3	78.4	209.8	198.6	11.20	18.730	
1,900.0	1,898.8	1,861.2	1,860.2	5.2	5.5	-75.16	201.6	84.2	210.1	198.8	11.31	18.579	
2,000.0	1,998.0	1,958.8	1,956.9	5.4	5.8	-74.70	202.4	98.1	211.6	200.0	11.61	18.222	
2,100.0	2,097.3	2,056.2	2,052.7	5.6	6.1	-73.41	203.3	115.2	214.3	202.3	11.93	17.968	
2,200.0	2,196.5	2,153.1	2,147.5	5.7	6.4	-71.36	204.3	135.5	218.3	206.1	12.26	17.813	
2,300.0	2,295.8	2,251.0	2,242.5	5.9	6.8	-68.70	205.5	158.7	223.9	211.3	12.62	17.747	
2,400.0	2,395.0	2,350.2	2,338.8	6.1	7.1	-66.06	206.8	182.7	230.2	217.2	13.01	17.698	
2,500.0	2,494.3	2,449.5	2,435.1	6.2	7.4	-63.55	208.0	206.7	236.9	223.5	13.42	17.652	
2,600.0	2,593.5	2,548.7	2,531.4	6.4	7.8	-61.19	209.3	230.7	244.1	230.2	13.86	17.606	
2,700.0	2,692.8	2,648.0	2,627.7	6.6	8.2	-58.97	210.6	254.7	251.6	237.3	14.33	17.559	
2,800.0	2,792.0	2,747.2	2,724.0	6.7	8.5	-56.87	211.8	278.6	259.5	244.7	14.82	17.509	
2,900.0	2,891.3	2,846.5	2,820.3	6.9	8.9	-54.91	213.1	302.6	267.8	252.4	15.34	17.456	
3,000.0	2,990.6	2,945.7	2,916.6	7.1	9.3	-53.06	214.3	326.6	276.3	260.4	15.88	17.402	
3,100.0	3,089.8	3,045.0	3,012.9	7.2	9.7	-51.32	215.6	350.6	285.1	268.7	16.44	17.346	
3,200.0	3,189.1	3,144.2	3,109.2	7.4	10.1	-49.68	216.8	374.5	294.2	277.1	17.01	17.289	
3,300.0	3,288.3	3,243.5	3,205.5	7.6	10.5	-48.15	218.1	398.5	303.4	285.8	17.61	17.232	
3,400.0	3,387.6	3,342.7	3,301.8	7.8	11.0	-46.70	219.4	422.5	312.9	294.7	18.22	17.175	
3,500.0	3,486.8	3,441.9	3,398.1	7.9	11.4	-45.35	220.6	446.5	322.6	303.7	18.84	17.120	
3,600.0	3,586.1	3,541.2	3,494.4	8.1	11.8	-44.07	221.9	470.4	332.4	312.9	19.48	17.066	
3,700.0	3,685.3	3,640.4	3,590.7	8.3	12.3	-42.86	223.1	494.4	342.4	322.3	20.13	17.013	
3,800.0	3,784.6	3,739.7	3,687.0	8.5	12.7	-41.72	224.4	518.4	352.5	331.7	20.78	16.963	
3,896.1	3,880.0	3,835.1	3,779.6	8.6	13.1	-40.69	225.6	541.5	362.4	341.0	21.42	16.920	
3,900.0	3,883.8	3,838.9	3,783.3	8.6	13.2	-40.65	225.6	542.4	362.8	341.4	21.44	16.920	
4,000.0	3,983.2	3,938.1	3,879.5	9.0	13.6	-39.62	226.9	566.3	373.9	351.6	22.25	16.806 SF	
4,100.0	4,082.8	4,036.9	3,975.4	9.1	14.1	-38.50	228.1	590.2	386.5	363.5	22.94	16.848	
4,200.0	4,182.5	4,135.6	4,071.1	9.3	14.5	-37.31	229.4	614.0	400.6	377.0	23.65	16.941	
4,300.0	4,282.3	4,233.9	4,166.5	9.5	15.0	-36.07	230.6	637.8	416.3	391.9	24.37	17.086	
4,400.0	4,382.2	4,331.8	4,261.6	9.6	15.4	-34.80	231.9	661.5	433.6	408.5	25.09	17.282	
4,500.0	4,482.1	4,429.5	4,356.3	9.8	15.9	-33.53	233.1	685.0	452.6	426.8	25.82	17.528	
4,596.1	4,578.3	4,522.9	4,447.0	9.9	16.3	-58.69	234.3	707.6	472.4	445.9	26.50	17.825	
4,600.0	4,582.1	4,526.7	4,450.6	9.9	16.3	58.75	234.3	708.5	473.3	446.7	26.53	17.839	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,700.0	4,682.1	4,623.7	4,544.8	10.1	16.8	60.06	235.6	732.0	494.8	467.5	27.32	18.113	
4,800.0	4,782.1	4,720.7	4,638.9	10.2	17.2	61.27	236.8	755.4	516.6	488.6	28.00	18.449	
4,900.0	4,882.1	4,817.8	4,733.1	10.2	17.7	62.38	238.0	778.9	538.7	510.0	28.69	18.777	
5,000.0	4,982.1	4,914.8	4,827.2	10.3	18.1	63.41	239.3	802.3	560.8	531.5	29.37	19.097	
5,100.0	5,082.1	5,011.8	4,921.4	10.4	18.6	64.36	240.5	825.7	583.2	553.2	30.05	19.409	
5,200.0	5,182.1	5,108.9	5,015.5	10.5	19.0	65.23	241.7	849.2	605.7	575.0	30.73	19.713	
5,300.0	5,282.1	5,205.9	5,109.7	10.5	19.5	66.05	242.9	872.6	628.3	596.9	31.40	20.008	
5,400.0	5,382.1	5,302.9	5,203.8	10.6	20.0	66.81	244.2	896.1	651.0	619.0	32.08	20.295	
5,500.0	5,482.1	5,399.9	5,297.9	10.7	20.4	67.52	245.4	919.5	673.9	641.1	32.75	20.574	
5,600.0	5,582.1	5,497.0	5,392.1	10.7	20.9	68.18	246.6	942.9	696.8	663.4	33.43	20.844	
5,700.0	5,682.1	5,603.8	5,495.9	10.8	21.4	68.84	248.0	968.2	719.3	685.2	34.15	21.062	
5,800.0	5,782.1	5,714.9	5,604.3	10.9	21.9	69.44	249.2	992.4	740.2	705.3	34.89	21.212	
5,900.0	5,882.1	5,826.9	5,714.1	11.0	22.4	69.96	250.4	1,014.7	759.2	723.6	35.61	21.321	
6,000.0	5,982.1	5,939.8	5,825.1	11.0	22.9	70.40	251.5	1,035.1	776.5	740.2	36.30	21.390	
6,100.0	6,082.1	6,053.4	5,937.2	11.1	23.4	70.78	252.4	1,053.3	792.0	755.0	36.97	21.422	
6,200.0	6,182.1	6,167.8	6,050.4	11.2	23.9	71.11	253.3	1,069.4	805.5	767.9	37.61	21.420	
6,300.0	6,282.1	6,282.7	6,164.5	11.3	24.4	71.38	254.0	1,083.3	817.2	779.0	38.21	21.387	
6,400.0	6,382.1	6,398.2	6,279.4	11.3	24.8	71.60	254.6	1,095.0	827.0	788.2	38.78	21.325	
6,500.0	6,482.1	6,514.0	6,394.9	11.4	25.3	71.77	255.1	1,104.4	834.8	795.5	39.30	21.240	
6,600.0	6,582.1	6,630.3	6,510.9	11.5	25.7	71.89	255.5	1,111.5	840.7	800.9	39.78	21.135	
6,700.0	6,682.1	6,746.7	6,627.2	11.6	26.1	71.98	255.7	1,116.2	844.6	804.4	40.19	21.014	
6,800.0	6,782.1	6,863.3	6,743.8	11.6	26.4	72.02	255.8	1,118.6	846.6	806.1	40.52	20.895	
6,900.0	6,882.1	6,971.6	6,852.1	11.7	26.5	72.03	255.9	1,118.9	846.8	806.2	40.65	20.833	
7,000.0	6,982.1	7,071.6	6,952.1	11.8	26.5	72.03	255.9	1,118.9	846.8	806.1	40.73	20.792	
7,100.0	7,082.1	7,171.6	7,052.1	11.9	26.6	72.03	255.9	1,118.9	846.8	806.0	40.81	20.751	
7,200.0	7,182.1	7,271.6	7,152.1	11.9	26.6	72.03	255.9	1,118.9	846.8	805.9	40.89	20.709	
7,300.0	7,282.1	7,371.6	7,252.1	12.0	26.6	72.03	255.9	1,118.9	846.8	805.8	40.97	20.667	
7,400.0	7,382.1	7,471.6	7,352.1	12.1	26.6	72.03	255.9	1,118.9	846.8	805.8	41.06	20.626	
7,500.0	7,482.1	7,571.6	7,452.1	12.2	26.7	72.03	255.9	1,118.9	846.8	805.7	41.14	20.584	
7,600.0	7,582.1	7,671.6	7,552.1	12.2	26.7	72.03	255.9	1,118.9	846.8	805.6	41.22	20.542	
7,700.0	7,682.1	7,771.6	7,652.1	12.3	26.7	72.03	255.9	1,118.9	846.8	805.5	41.31	20.500	
7,800.0	7,782.1	7,871.6	7,752.1	12.4	26.8	72.03	255.9	1,118.9	846.8	805.4	41.39	20.458	
7,900.0	7,882.1	7,971.6	7,852.1	12.5	26.8	72.03	255.9	1,118.9	846.8	805.3	41.48	20.416	
8,000.0	7,982.1	8,071.6	7,952.1	12.6	26.8	72.03	255.9	1,118.9	846.8	805.3	41.56	20.374	
8,100.0	8,082.1	8,171.6	8,052.1	12.6	26.9	72.03	255.9	1,118.9	846.8	805.2	41.65	20.332	
8,200.0	8,182.1	8,271.6	8,152.1	12.7	26.9	72.03	255.9	1,118.9	846.8	805.1	41.74	20.289	
8,300.0	8,282.1	8,371.6	8,252.1	12.8	26.9	72.03	255.9	1,118.9	846.8	805.0	41.82	20.247	
8,400.0	8,382.1	8,471.6	8,352.1	12.9	27.0	72.03	255.9	1,118.9	846.8	804.9	41.91	20.205	
8,500.0	8,482.1	8,571.6	8,452.1	12.9	27.0	72.03	255.9	1,118.9	846.8	804.8	42.00	20.162	
8,600.0	8,582.1	8,671.6	8,552.1	13.0	27.0	72.03	255.9	1,118.9	846.8	804.7	42.09	20.120	
8,700.0	8,682.1	8,771.6	8,652.1	13.1	27.0	72.03	255.9	1,118.9	846.8	804.6	42.18	20.078	
8,800.0	8,782.1	8,871.6	8,752.1	13.2	27.1	72.03	255.9	1,118.9	846.8	804.5	42.27	20.035	
8,900.0	8,882.1	8,971.6	8,852.1	13.2	27.1	72.03	255.9	1,118.9	846.8	804.5	42.36	19.993	
9,000.0	8,982.1	9,071.6	8,952.1	13.3	27.1	72.03	255.9	1,118.9	846.8	804.4	42.45	19.950	
9,100.0	9,082.1	9,171.6	9,052.1	13.4	27.2	72.03	255.9	1,118.9	846.8	804.3	42.54	19.908	
9,200.0	9,182.1	9,271.6	9,152.1	13.5	27.2	72.03	255.9	1,118.9	846.8	804.2	42.63	19.865	
9,300.0	9,282.1	9,371.6	9,252.1	13.5	27.2	72.03	255.9	1,118.9	846.8	804.1	42.72	19.823	
9,400.0	9,382.1	9,471.6	9,352.1	13.6	27.3	72.03	255.9	1,118.9	846.8	804.0	42.81	19.780	
9,500.0	9,482.1	9,571.6	9,452.1	13.7	27.3	72.03	255.9	1,118.9	846.8	803.9	42.90	19.738	
9,600.0	9,582.1	9,671.6	9,552.1	13.8	27.3	72.03	255.9	1,118.9	846.8	803.8	43.00	19.695	
9,700.0	9,682.1	9,771.6	9,652.1	13.9	27.4	72.03	255.9	1,118.9	846.8	803.7	43.09	19.653	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
9,800.0	9,782.1	9,871.6	9,752.1	13.9	27.4	72.03	255.9	1,118.9	846.8	803.6	43.18	19.610	
9,900.0	9,882.1	9,971.6	9,852.1	14.0	27.4	72.03	255.9	1,118.9	846.8	803.5	43.28	19.567	
10,000.0	9,982.1	10,071.6	9,952.1	14.1	27.5	72.03	255.9	1,118.9	846.8	803.4	43.37	19.525	
10,100.0	10,082.1	10,171.6	10,052.1	14.2	27.5	72.03	255.9	1,118.9	846.8	803.4	43.47	19.482	
10,200.0	10,182.1	10,271.6	10,152.1	14.2	27.6	72.03	255.9	1,118.9	846.8	803.3	43.56	19.440	
10,300.0	10,282.1	10,371.6	10,252.1	14.3	27.6	72.03	255.9	1,118.9	846.8	803.2	43.66	19.397	
10,400.0	10,382.1	10,471.6	10,352.1	14.4	27.6	72.03	255.9	1,118.9	846.8	803.1	43.75	19.355	
10,500.0	10,482.1	10,571.6	10,452.1	14.5	27.7	72.03	255.9	1,118.9	846.8	803.0	43.85	19.312	
10,600.0	10,582.1	10,671.6	10,552.1	14.6	27.7	72.03	255.9	1,118.9	846.8	802.9	43.95	19.270	
10,700.0	10,682.1	10,771.6	10,652.1	14.6	27.7	72.03	255.9	1,118.9	846.8	802.8	44.04	19.227	
10,800.0	10,782.1	10,871.6	10,752.1	14.7	27.8	72.03	255.9	1,118.9	846.8	802.7	44.14	19.185	
10,900.0	10,882.1	10,971.6	10,852.1	14.8	27.8	72.03	255.9	1,118.9	846.8	802.6	44.24	19.142	
11,000.0	10,982.1	11,071.6	10,952.1	14.9	27.8	72.03	255.9	1,118.9	846.8	802.5	44.34	19.100	
11,100.0	11,082.1	11,171.6	11,052.1	14.9	27.9	72.03	255.9	1,118.9	846.8	802.4	44.43	19.058	
11,200.0	11,182.1	11,271.6	11,152.1	15.0	27.9	72.03	255.9	1,118.9	846.8	802.3	44.53	19.015	
11,300.0	11,282.1	11,371.6	11,252.1	15.1	28.0	72.03	255.9	1,118.9	846.8	802.2	44.63	18.973	
11,400.0	11,382.1	11,471.6	11,352.1	15.2	28.0	72.03	255.9	1,118.9	846.8	802.1	44.73	18.931	
11,456.4	11,438.5	11,528.0	11,408.5	15.2	28.0	72.03	255.9	1,118.9	846.8	802.0	44.77	18.914	
11,475.0	11,457.1	11,546.6	11,427.1	15.2	28.0	-107.62	255.9	1,118.9	846.9	802.1	44.78	18.913	
11,500.0	11,482.1	11,566.5	11,447.0	15.2	28.0	-107.64	255.9	1,118.9	847.5	802.7	44.72	18.951	
11,525.0	11,506.9	11,582.5	11,463.0	15.2	28.0	-107.66	256.5	1,118.9	848.6	803.9	44.76	18.961	
11,550.0	11,531.5	11,600.0	11,480.4	15.2	28.0	-107.72	257.8	1,118.8	850.5	805.7	44.78	18.994	
11,575.0	11,555.9	11,613.3	11,493.7	15.2	28.0	-107.71	259.2	1,118.8	853.0	808.2	44.81	19.035	
11,600.0	11,580.0	11,625.0	11,505.3	15.2	28.0	-107.63	260.7	1,118.8	856.3	811.4	44.85	19.092	
11,625.0	11,603.7	11,641.6	11,521.6	15.2	28.0	-107.66	263.3	1,118.8	860.3	815.4	44.84	19.186	
11,650.0	11,626.9	11,650.0	11,529.9	15.2	28.0	-107.39	264.9	1,118.8	865.0	820.2	44.88	19.276	
11,675.0	11,649.6	11,666.4	11,546.0	15.2	28.0	-107.37	268.3	1,118.7	870.5	825.7	44.84	19.416	
11,700.0	11,671.7	11,675.0	11,554.3	15.2	28.0	-106.99	270.4	1,118.7	876.9	832.0	44.85	19.552	
11,725.0	11,693.2	11,687.5	11,566.4	15.3	28.0	-106.71	273.6	1,118.7	884.0	839.2	44.81	19.728	
11,750.0	11,714.0	11,700.0	11,578.4	15.3	28.0	-106.37	277.1	1,118.7	892.0	847.2	44.76	19.930	
11,775.0	11,734.0	11,700.0	11,578.4	15.3	28.0	-105.28	277.1	1,118.7	900.8	856.0	44.80	20.105	
11,800.0	11,753.2	11,711.9	11,589.7	15.3	28.0	-104.74	280.7	1,118.6	910.4	865.6	44.73	20.354	
11,825.0	11,771.6	11,718.1	11,595.6	15.3	28.0	-103.78	282.8	1,118.6	920.7	876.1	44.69	20.605	
11,850.0	11,789.0	11,725.0	11,602.1	15.3	28.0	-102.75	285.1	1,118.6	931.9	887.3	44.62	20.884	
11,875.0	11,805.5	11,725.0	11,602.1	15.3	28.0	-101.16	285.1	1,118.6	943.8	899.2	44.61	21.154	
11,900.0	11,821.0	11,731.6	11,608.3	15.4	28.0	-99.88	287.4	1,118.6	956.3	911.8	44.52	21.479	
11,925.0	11,835.4	11,734.6	11,611.0	15.4	28.0	-98.23	288.5	1,118.6	969.5	925.1	44.46	21.808	
11,950.0	11,848.8	11,736.7	11,613.0	15.4	28.0	-96.41	289.3	1,118.6	983.4	939.0	44.39	22.155	
11,975.0	11,861.0	11,738.2	11,614.4	15.5	28.0	-94.41	289.8	1,118.5	997.7	953.4	44.31	22.519	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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					Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	25.24	183.5	86.5	205.1					
100.0	100.0	70.0	70.0	3.0	3.1	25.24	183.5	86.5	202.9	195.8	7.09	28.621		
200.0	200.0	170.0	170.0	3.2	3.2	25.24	183.5	86.5	202.9	195.5	7.36	27.580		
300.0	300.0	270.0	270.0	3.3	3.3	25.24	183.5	86.5	202.9	195.3	7.60	26.692		
400.0	400.0	370.0	370.0	3.4	3.5	25.24	183.5	86.5	202.9	195.0	7.84	25.872		
500.0	500.0	470.0	470.0	3.5	3.6	25.24	183.5	86.5	202.9	194.8	8.08	25.110		
600.0	600.0	570.0	570.0	3.7	3.7	25.24	183.5	86.5	202.9	194.6	8.32	24.399		
700.0	700.0	670.0	670.0	3.8	3.8	25.24	183.5	86.5	202.9	194.3	8.55	23.733		
800.0	800.0	770.0	770.0	3.9	3.9	25.24	183.5	86.5	202.9	194.1	8.78	23.107		
900.0	900.0	870.0	870.0	4.0	4.1	25.24	183.5	86.5	202.9	193.9	9.01	22.518		
1,000.0	1,000.0	970.0	970.0	4.2	4.2	25.24	183.5	86.5	202.9	193.6	9.24	21.962		
1,100.0	1,100.0	1,070.0	1,070.0	4.3	4.3	25.24	183.5	86.5	202.9	193.4	9.46	21.436		
1,200.0	1,200.0	1,170.0	1,170.0	4.4	4.4	25.24	183.5	86.5	202.9	193.2	9.69	20.938		
1,300.0	1,300.0	1,270.0	1,270.0	4.5	4.5	25.24	183.5	86.5	202.9	193.0	9.91	20.465		
1,400.0	1,400.0	1,370.0	1,370.0	4.6	4.7	25.24	183.5	86.5	202.9	192.7	10.14	20.015		
1,500.0	1,500.0	1,470.0	1,470.0	4.8	4.8	25.24	183.5	86.5	202.9	192.5	10.36	19.586		
1,600.0	1,600.0	1,567.9	1,567.9	4.8	4.9	-66.00	183.5	87.3	202.5	192.1	10.45	19.386		
1,700.0	1,699.8	1,664.9	1,664.8	5.0	5.0	-66.32	183.6	91.2	202.2	191.4	10.76	18.794		
1,800.0	1,799.5	1,761.9	1,761.6	5.2	5.2	-66.68	183.7	98.5	201.9	190.8	11.08	18.220		
1,850.0	1,849.1	1,810.5	1,809.9	5.2	5.3	-66.87	183.8	103.3	201.8	190.6	11.20	18.024		
1,863.6	1,862.7	1,823.7	1,823.0	5.2	5.3	-66.92	183.8	104.8	201.8	190.6	11.23	17.973 CC, ES		
1,900.0	1,898.8	1,859.0	1,858.1	5.2	5.5	-66.96	183.9	109.0	201.9	190.6	11.31	17.849		
2,000.0	1,998.0	1,956.1	1,954.2	5.4	5.8	-66.51	184.1	122.7	203.1	191.5	11.63	17.473		
2,100.0	2,097.3	2,052.9	2,049.5	5.6	6.1	-65.25	184.4	139.7	205.9	193.9	11.95	17.224		
2,200.0	2,196.5	2,149.2	2,143.7	5.7	6.4	-63.24	184.8	159.7	210.4	198.1	12.30	17.097		
2,300.0	2,295.8	2,244.9	2,236.6	5.9	6.8	-60.60	185.2	182.8	216.8	204.1	12.69	17.093 SF		
2,400.0	2,395.0	2,341.5	2,329.5	6.1	7.1	-57.47	185.7	208.9	225.5	212.3	13.11	17.200		
2,500.0	2,494.3	2,440.3	2,424.5	6.2	7.5	-54.41	186.1	236.1	235.1	221.5	13.57	17.322		
2,600.0	2,593.5	2,539.0	2,519.4	6.4	7.8	-51.59	186.6	263.3	245.3	231.3	14.07	17.441		
2,700.0	2,692.8	2,637.8	2,614.4	6.6	8.2	-49.00	187.1	290.6	256.1	241.5	14.59	17.552		
2,800.0	2,792.0	2,736.6	2,709.3	6.7	8.6	-46.62	187.6	317.8	267.4	252.3	15.14	17.656		
2,900.0	2,891.3	2,835.3	2,804.2	6.9	9.0	-44.44	188.0	345.0	279.1	263.4	15.72	17.752		
3,000.0	2,990.6	2,934.1	2,899.2	7.1	9.4	-42.43	188.5	372.2	291.2	274.9	16.32	17.841		
3,100.0	3,089.8	3,032.9	2,994.1	7.2	9.8	-40.58	189.0	399.4	303.6	286.6	16.94	17.923		
3,200.0	3,189.1	3,131.6	3,089.1	7.4	10.2	-38.88	189.5	426.7	316.3	298.7	17.57	17.998		
3,300.0	3,288.3	3,230.4	3,184.0	7.6	10.6	-37.31	189.9	453.9	329.2	311.0	18.22	18.068		
3,400.0	3,387.6	3,329.2	3,278.9	7.8	11.0	-35.86	190.4	481.1	342.4	323.5	18.88	18.133		
3,500.0	3,486.8	3,427.9	3,373.9	7.9	11.5	-34.51	190.9	508.3	355.7	336.2	19.55	18.194		
3,600.0	3,586.1	3,526.7	3,468.8	8.1	11.9	-33.26	191.4	535.5	369.3	349.1	20.23	18.251		
3,700.0	3,685.3	3,625.5	3,563.8	8.3	12.4	-32.11	191.8	562.8	383.0	362.1	20.92	18.304		
3,800.0	3,784.6	3,724.2	3,658.7	8.5	12.8	-31.03	192.3	590.0	396.9	375.2	21.62	18.355		
3,896.1	3,880.0	3,819.2	3,750.0	8.6	13.3	-30.06	192.8	616.1	410.3	388.0	22.29	18.404		
3,900.0	3,883.8	3,823.0	3,753.6	8.6	13.3	-30.02	192.8	617.2	410.9	388.5	22.32	18.407		
4,000.0	3,983.2	3,921.6	3,848.4	9.0	13.7	-29.10	193.3	644.4	425.8	402.6	23.15	18.391		
4,100.0	4,082.8	4,019.9	3,942.9	9.1	14.2	-28.14	193.7	671.5	442.3	418.5	23.87	18.533		
4,200.0	4,182.5	4,117.9	4,037.1	9.3	14.6	-27.16	194.2	698.5	460.5	436.0	24.59	18.731		
4,300.0	4,282.3	4,215.5	4,131.0	9.5	15.1	-26.17	194.7	725.4	480.4	455.1	25.31	18.981		
4,400.0	4,382.2	4,312.7	4,224.4	9.6	15.6	-25.19	195.1	752.2	502.0	476.0	26.03	19.283		
4,500.0	4,482.1	4,409.5	4,317.5	9.8	16.0	-24.22	195.6	778.8	525.3	498.6	26.75	19.635		
4,596.1	4,578.3	4,502.1	4,406.5	9.9	16.5	67.69	196.0	804.4	549.3	521.9	27.42	20.033		
4,600.0	4,582.1	4,505.9	4,410.1	9.9	16.5	67.73	196.1	805.4	550.3	522.9	27.45	20.051		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,700.0	4,682.1	4,602.0	4,502.5	10.1	16.9	68.72	196.5	831.9	576.2	548.0	28.21	20.423	
4,800.0	4,782.1	4,698.1	4,594.9	10.2	17.4	69.62	197.0	858.4	602.3	573.4	28.89	20.850	
4,900.0	4,882.1	4,794.3	4,687.3	10.2	17.9	70.45	197.5	884.9	628.5	598.9	29.56	21.263	
5,000.0	4,982.1	4,890.4	4,779.7	10.3	18.3	71.22	197.9	911.4	654.7	624.5	30.23	21.660	
5,100.0	5,082.1	4,986.5	4,872.1	10.4	18.8	71.92	198.4	937.8	681.1	650.2	30.90	22.043	
5,200.0	5,182.1	5,082.6	4,964.5	10.5	19.2	72.58	198.8	964.3	707.6	676.0	31.57	22.412	
5,300.0	5,282.1	5,178.8	5,056.9	10.5	19.7	73.18	199.3	990.8	734.2	701.9	32.25	22.768	
5,400.0	5,382.1	5,274.9	5,149.3	10.6	20.2	73.75	199.8	1,017.3	760.8	727.9	32.92	23.111	
5,500.0	5,482.1	5,371.0	5,241.7	10.7	20.6	74.27	200.2	1,043.8	787.5	753.9	33.59	23.441	
5,600.0	5,582.1	5,467.1	5,334.1	10.7	21.1	74.76	200.7	1,070.3	814.2	780.0	34.27	23.760	
5,700.0	5,682.1	5,563.3	5,426.5	10.8	21.6	75.23	201.2	1,096.8	841.1	806.1	34.95	24.067	
5,800.0	5,782.1	5,659.4	5,518.9	10.9	22.1	75.66	201.6	1,123.3	867.9	832.3	35.62	24.363	
5,900.0	5,882.1	5,755.5	5,611.3	11.0	22.5	76.06	202.1	1,149.8	894.8	858.5	36.30	24.648	
6,000.0	5,982.1	5,851.6	5,703.7	11.0	23.0	76.45	202.5	1,176.3	921.7	884.8	36.98	24.924	
6,100.0	6,082.1	5,947.8	5,796.1	11.1	23.5	76.81	203.0	1,202.8	948.7	911.0	37.66	25.190	
6,200.0	6,182.1	6,043.9	5,888.5	11.2	23.9	77.15	203.5	1,229.3	975.7	937.4	38.34	25.446	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-12.75	284.3	-64.3	293.2				
100.0	100.0	68.0	68.0	3.0	3.1	-12.75	284.3	-64.3	291.5	284.4	7.09	41.135	
200.0	200.0	168.0	168.0	3.2	3.2	-12.75	284.3	-64.3	291.5	284.1	7.36	39.628	
300.0	300.0	268.0	268.0	3.3	3.3	-12.75	284.3	-64.3	291.5	283.9	7.60	38.340	
400.0	400.0	368.0	368.0	3.4	3.5	-12.75	284.3	-64.3	291.5	283.6	7.85	37.149	
500.0	500.0	468.0	468.0	3.5	3.6	-12.75	284.3	-64.3	291.5	283.4	8.09	36.039	
600.0	600.0	568.0	568.0	3.7	3.7	-12.75	284.3	-64.3	291.5	283.1	8.33	35.001	
700.0	700.0	668.0	668.0	3.8	3.8	-12.75	284.3	-64.3	291.5	282.9	8.57	34.027	
800.0	800.0	768.0	768.0	3.9	3.9	-12.75	284.3	-64.3	291.5	282.7	8.80	33.112	
900.0	900.0	868.0	868.0	4.0	4.1	-12.75	284.3	-64.3	291.5	282.4	9.04	32.248	
1,000.0	1,000.0	968.0	968.0	4.2	4.2	-12.75	284.3	-64.3	291.5	282.2	9.27	31.433	
1,100.0	1,100.0	1,068.0	1,068.0	4.3	4.3	-12.75	284.3	-64.3	291.5	282.0	9.51	30.661	
1,200.0	1,200.0	1,168.0	1,168.0	4.4	4.4	-12.75	284.3	-64.3	291.5	281.7	9.74	29.929	
1,300.0	1,300.0	1,268.0	1,268.0	4.5	4.5	-12.75	284.3	-64.3	291.5	281.5	9.97	29.234	
1,400.0	1,400.0	1,368.0	1,368.0	4.6	4.7	-12.75	284.3	-64.3	291.5	281.3	10.20	28.572	
1,500.0	1,500.0	1,468.0	1,468.0	4.8	4.8	-12.75	284.3	-64.3	291.5	281.0	10.43	27.942 CC, ES	
1,600.0	1,600.0	1,566.5	1,566.5	4.8	4.9	-104.21	284.3	-65.1	292.0	281.5	10.50	27.811	
1,700.0	1,699.8	1,663.9	1,663.8	5.0	5.0	-105.87	284.2	-69.0	294.3	283.5	10.78	27.301	
1,800.0	1,799.5	1,759.9	1,759.6	5.2	5.2	-108.64	284.1	-76.1	298.9	287.8	11.08	26.978 SF	
1,850.0	1,849.1	1,807.3	1,806.7	5.2	5.3	-110.39	284.0	-80.8	302.3	291.1	11.19	27.025	
1,900.0	1,898.8	1,854.2	1,853.3	5.2	5.4	-112.34	283.9	-86.2	306.5	295.2	11.30	27.134	
2,000.0	1,998.0	1,946.8	1,945.0	5.4	5.7	-116.41	283.7	-99.1	317.1	305.5	11.61	27.313	
2,100.0	2,097.3	2,037.7	2,034.6	5.6	6.0	-120.60	283.4	-114.6	330.9	318.9	11.94	27.703	
2,200.0	2,196.5	2,128.7	2,123.7	5.7	6.3	-124.83	283.1	-132.9	348.1	335.8	12.31	28.292	
2,300.0	2,295.8	2,223.3	2,216.2	5.9	6.6	-128.92	282.7	-152.5	367.8	355.1	12.70	28.965	
2,400.0	2,395.0	2,317.8	2,308.7	6.1	6.9	-132.60	282.4	-172.2	389.2	376.1	13.12	29.664	
2,500.0	2,494.3	2,412.4	2,401.2	6.2	7.2	-135.91	282.1	-191.9	412.0	398.5	13.57	30.365	
2,600.0	2,593.5	2,507.0	2,493.7	6.4	7.5	-138.88	281.7	-211.5	436.1	422.1	14.04	31.054	
2,700.0	2,692.8	2,601.5	2,586.2	6.6	7.9	-141.55	281.4	-231.2	461.3	446.7	14.54	31.719	
2,800.0	2,792.0	2,696.1	2,678.7	6.7	8.2	-143.95	281.0	-250.8	487.3	472.2	15.06	32.355	
2,900.0	2,891.3	2,790.6	2,771.1	6.9	8.6	-146.11	280.7	-270.5	514.0	498.4	15.60	32.958	
3,000.0	2,990.6	2,885.2	2,863.6	7.1	9.0	-148.06	280.3	-290.1	541.4	525.3	16.15	33.528	
3,100.0	3,089.8	2,979.7	2,956.1	7.2	9.3	-149.83	280.0	-309.8	569.4	552.6	16.71	34.066	
3,200.0	3,189.1	3,074.3	3,048.6	7.4	9.7	-151.44	279.6	-329.4	597.8	580.5	17.29	34.571	
3,300.0	3,288.3	3,168.8	3,141.1	7.6	10.1	-152.90	279.3	-349.1	626.6	608.7	17.88	35.046	
3,400.0	3,387.6	3,263.4	3,233.6	7.8	10.5	-154.24	279.0	-368.8	655.7	637.3	18.48	35.492	
3,500.0	3,486.8	3,357.9	3,326.1	7.9	10.9	-155.46	278.6	-388.4	685.2	666.1	19.08	35.911	
3,600.0	3,586.1	3,452.5	3,418.6	8.1	11.3	-156.59	278.3	-408.1	714.9	695.2	19.69	36.304	
3,700.0	3,685.3	3,547.0	3,511.0	8.3	11.7	-157.62	277.9	-427.7	744.9	724.6	20.31	36.674	
3,800.0	3,784.6	3,641.6	3,603.5	8.5	12.1	-158.58	277.6	-447.4	775.1	754.1	20.93	37.022	
3,896.1	3,880.0	3,732.5	3,692.4	8.6	12.5	-159.44	277.3	-466.3	804.2	782.7	21.54	37.344	
3,900.0	3,883.8	3,736.1	3,696.0	8.6	12.5	-159.47	277.2	-467.0	805.4	783.9	21.56	37.360	
4,000.0	3,983.2	3,831.0	3,788.8	9.0	12.9	-160.38	276.9	-486.8	835.1	812.8	22.31	37.438	
4,100.0	4,082.8	3,926.4	3,882.1	9.1	13.3	-161.19	276.6	-506.6	863.3	840.4	22.94	37.639	
4,200.0	4,182.5	4,022.3	3,975.9	9.3	13.7	-161.90	276.2	-526.5	890.1	866.5	23.57	37.763	
4,300.0	4,282.3	4,118.7	4,070.2	9.5	14.2	-162.54	275.9	-546.6	915.4	891.2	24.21	37.814	
4,400.0	4,382.2	4,215.5	4,164.9	9.6	14.6	-163.11	275.5	-566.7	939.1	914.2	24.84	37.800	
4,500.0	4,482.1	4,312.8	4,260.0	9.8	15.0	-163.62	275.2	-586.9	961.2	935.7	25.48	37.727	
4,596.1	4,578.3	4,406.6	4,351.8	9.9	15.5	-73.05	274.8	-606.4	981.0	954.9	26.06	37.638	
4,600.0	4,582.1	4,410.4	4,355.5	9.9	15.5	-73.07	274.8	-607.2	981.8	955.7	26.08	37.638	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-8.34	267.5	-39.2	272.3					
100.0	100.0	68.0	68.0	3.0	3.1	-8.34	267.5	-39.2	270.4	263.3	7.09	38.163		
200.0	200.0	168.0	168.0	3.2	3.2	-8.34	267.5	-39.2	270.4	263.0	7.36	36.763		
300.0	300.0	268.0	268.0	3.3	3.3	-8.34	267.5	-39.2	270.4	262.8	7.60	35.567		
400.0	400.0	368.0	368.0	3.4	3.5	-8.34	267.5	-39.2	270.4	262.6	7.85	34.459		
500.0	500.0	468.0	468.0	3.5	3.6	-8.34	267.5	-39.2	270.4	262.3	8.09	33.427		
600.0	600.0	568.0	568.0	3.7	3.7	-8.34	267.5	-39.2	270.4	262.1	8.33	32.461		
700.0	700.0	668.0	668.0	3.8	3.8	-8.34	267.5	-39.2	270.4	261.8	8.57	31.554		
800.0	800.0	768.0	768.0	3.9	3.9	-8.34	267.5	-39.2	270.4	261.6	8.81	30.701		
900.0	900.0	868.0	868.0	4.0	4.1	-8.34	267.5	-39.2	270.4	261.4	9.04	29.897		
1,000.0	1,000.0	968.0	968.0	4.2	4.2	-8.34	267.5	-39.2	270.4	261.1	9.28	29.138		
1,100.0	1,100.0	1,068.0	1,068.0	4.3	4.3	-8.34	267.5	-39.2	270.4	260.9	9.52	28.418		
1,200.0	1,200.0	1,168.0	1,168.0	4.4	4.4	-8.34	267.5	-39.2	270.4	260.7	9.75	27.736		
1,300.0	1,300.0	1,268.0	1,268.0	4.5	4.5	-8.34	267.5	-39.2	270.4	260.4	9.98	27.088		
1,400.0	1,400.0	1,368.0	1,368.0	4.6	4.7	-8.34	267.5	-39.2	270.4	260.2	10.21	26.472		
1,500.0	1,500.0	1,468.0	1,468.0	4.8	4.8	-8.34	267.5	-39.2	270.4	260.0	10.45	25.885 CC, ES		
1,600.0	1,600.0	1,567.7	1,567.7	4.8	4.9	-99.86	267.5	-40.0	270.7	260.2	10.51	25.751		
1,700.0	1,699.8	1,666.6	1,666.5	5.0	5.0	-101.76	267.0	-44.0	272.0	261.2	10.79	25.213		
1,800.0	1,799.5	1,764.2	1,763.9	5.2	5.2	-104.96	266.3	-51.3	274.9	263.8	11.08	24.814		
1,850.0	1,849.1	1,812.4	1,811.7	5.2	5.3	-106.98	265.8	-56.1	277.2	266.1	11.18	24.800		
1,900.0	1,898.8	1,860.0	1,859.1	5.2	5.5	-109.23	265.2	-61.7	280.3	269.0	11.28	24.844		
2,000.0	1,998.0	1,954.1	1,952.2	5.4	5.8	-113.95	263.8	-74.9	288.6	277.0	11.58	24.913		
2,100.0	2,097.3	2,048.4	2,045.1	5.6	6.0	-118.88	262.1	-90.8	299.9	288.0	11.90	25.197		
2,200.0	2,196.5	2,144.0	2,139.3	5.7	6.3	-123.57	260.4	-107.4	313.7	301.4	12.25	25.611		
2,300.0	2,295.8	2,239.7	2,233.5	5.9	6.6	-127.86	258.6	-123.9	329.4	316.8	12.62	26.104		
2,400.0	2,395.0	2,335.3	2,327.7	6.1	6.9	-131.76	256.9	-140.4	347.0	333.9	13.02	26.646		
2,500.0	2,494.3	2,431.0	2,421.9	6.2	7.2	-135.30	255.2	-156.9	366.0	352.5	13.45	27.209		
2,600.0	2,593.5	2,526.6	2,516.1	6.4	7.5	-138.49	253.4	-173.4	386.3	372.4	13.91	27.778		
2,700.0	2,692.8	2,622.2	2,610.3	6.6	7.8	-141.37	251.7	-190.0	407.6	393.2	14.38	28.339		
2,800.0	2,792.0	2,717.9	2,704.4	6.7	8.2	-143.96	250.0	-206.5	429.9	415.0	14.88	28.885		
2,900.0	2,891.3	2,813.5	2,798.6	6.9	8.5	-146.31	248.2	-223.0	453.0	437.6	15.40	29.411		
3,000.0	2,990.6	2,909.2	2,892.8	7.1	8.9	-148.43	246.5	-239.5	476.7	460.8	15.94	29.914		
3,100.0	3,089.8	3,004.8	2,987.0	7.2	9.3	-150.35	244.8	-256.0	501.0	484.6	16.49	30.394		
3,200.0	3,189.1	3,100.5	3,081.2	7.4	9.6	-152.10	243.0	-272.5	525.9	508.8	17.05	30.849		
3,300.0	3,288.3	3,196.1	3,175.4	7.6	10.0	-153.69	241.3	-289.1	551.1	533.5	17.62	31.281		
3,400.0	3,387.6	3,291.8	3,269.6	7.8	10.4	-155.15	239.6	-305.6	576.7	558.5	18.20	31.690		
3,500.0	3,486.8	3,387.4	3,363.8	7.9	10.8	-156.48	237.8	-322.1	602.6	583.9	18.79	32.077		
3,600.0	3,586.1	3,483.1	3,458.0	8.1	11.2	-157.71	236.1	-338.6	628.9	609.5	19.38	32.443		
3,700.0	3,685.3	3,578.7	3,552.2	8.3	11.6	-158.83	234.3	-355.1	655.3	635.4	19.99	32.790		
3,800.0	3,784.6	3,674.4	3,646.4	8.5	12.0	-159.88	232.6	-371.6	682.0	661.4	20.59	33.119		
3,896.1	3,880.0	3,766.3	3,736.9	8.6	12.3	-160.80	230.9	-387.5	707.9	686.7	21.18	33.423		
3,900.0	3,883.8	3,770.0	3,740.6	8.6	12.4	-160.84	230.9	-388.2	708.9	687.7	21.20	33.439		
4,000.0	3,983.2	3,865.9	3,835.0	9.0	12.8	-161.80	229.1	-404.7	735.1	713.2	21.94	33.512		
4,100.0	4,082.8	3,962.3	3,930.0	9.1	13.2	-162.65	227.4	-421.4	759.9	737.3	22.55	33.699		
4,200.0	4,182.5	4,060.8	4,027.0	9.3	13.6	-163.42	225.6	-438.4	783.1	760.0	23.15	33.826		
4,300.0	4,282.3	4,172.6	4,137.3	9.5	14.0	-164.14	223.7	-456.4	803.7	779.9	23.83	33.726		
4,400.0	4,382.2	4,285.7	4,249.3	9.6	14.5	-164.72	222.0	-472.4	821.0	796.5	24.51	33.499		
4,500.0	4,482.1	4,400.0	4,362.6	9.8	15.0	-165.18	220.6	-486.3	834.8	809.7	25.16	33.183		
4,596.1	4,578.3	4,510.6	4,472.6	9.9	15.4	-74.51	219.4	-497.7	844.8	819.1	25.73	32.837		
4,600.0	4,582.1	4,515.0	4,477.1	9.9	15.4	-74.52	219.3	-498.1	845.2	819.4	25.75	32.826		
4,700.0	4,682.1	4,630.7	4,592.3	10.1	15.8	-74.75	218.3	-507.6	852.9	826.5	26.40	32.312		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11473-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,800.0	4,782.1	4,746.6	4,708.1	10.2	16.2	-74.93	217.6	-514.8	858.7	831.8	26.90	31.925	
4,900.0	4,882.1	4,862.8	4,824.2	10.2	16.6	-75.05	217.0	-519.7	862.7	835.3	27.36	31.536	
5,000.0	4,982.1	4,979.2	4,940.5	10.3	16.9	-75.11	216.8	-522.3	864.8	837.0	27.75	31.167	
5,100.0	5,082.1	5,088.9	5,050.1	10.4	17.0	-75.12	216.7	-522.7	865.1	837.2	27.91	30.996	
5,200.0	5,182.1	5,188.9	5,150.1	10.5	17.1	-75.12	216.7	-522.7	865.1	837.1	28.01	30.881	
5,300.0	5,282.1	5,288.9	5,250.1	10.5	17.1	-75.12	216.7	-522.7	865.1	837.0	28.12	30.764	
5,400.0	5,382.1	5,388.9	5,350.1	10.6	17.2	-75.12	216.7	-522.7	865.1	836.9	28.23	30.646	
5,500.0	5,482.1	5,488.9	5,450.1	10.7	17.2	-75.12	216.7	-522.7	865.1	836.7	28.34	30.529	
5,600.0	5,582.1	5,588.9	5,550.1	10.7	17.3	-75.12	216.7	-522.7	865.1	836.6	28.44	30.413	
5,700.0	5,682.1	5,688.9	5,650.1	10.8	17.3	-75.12	216.7	-522.7	865.1	836.5	28.55	30.296	
5,800.0	5,782.1	5,788.9	5,750.1	10.9	17.3	-75.12	216.7	-522.7	865.1	836.4	28.66	30.180	
5,900.0	5,882.1	5,888.9	5,850.1	11.0	17.4	-75.12	216.7	-522.7	865.1	836.3	28.77	30.065	
6,000.0	5,982.1	5,988.9	5,950.1	11.0	17.4	-75.12	216.7	-522.7	865.1	836.2	28.88	29.950	
6,100.0	6,082.1	6,088.9	6,050.1	11.1	17.5	-75.12	216.7	-522.7	865.1	836.1	29.00	29.835	
6,200.0	6,182.1	6,188.9	6,150.1	11.2	17.5	-75.12	216.7	-522.7	865.1	836.0	29.11	29.720	
6,300.0	6,282.1	6,288.9	6,250.1	11.3	17.6	-75.12	216.7	-522.7	865.1	835.9	29.22	29.606	
6,400.0	6,382.1	6,388.9	6,350.1	11.3	17.6	-75.12	216.7	-522.7	865.1	835.7	29.33	29.492	
6,500.0	6,482.1	6,488.9	6,450.1	11.4	17.7	-75.12	216.7	-522.7	865.1	835.6	29.45	29.379	
6,600.0	6,582.1	6,588.9	6,550.1	11.5	17.7	-75.12	216.7	-522.7	865.1	835.5	29.56	29.266	
6,700.0	6,682.1	6,688.9	6,650.1	11.6	17.7	-75.12	216.7	-522.7	865.1	835.4	29.67	29.154	
6,800.0	6,782.1	6,788.9	6,750.1	11.6	17.8	-75.12	216.7	-522.7	865.1	835.3	29.79	29.042	
6,900.0	6,882.1	6,888.9	6,850.1	11.7	17.8	-75.12	216.7	-522.7	865.1	835.2	29.90	28.930	
7,000.0	6,982.1	6,988.9	6,950.1	11.8	17.9	-75.12	216.7	-522.7	865.1	835.1	30.02	28.819	
7,100.0	7,082.1	7,088.9	7,050.1	11.9	17.9	-75.12	216.7	-522.7	865.1	834.9	30.13	28.709	
7,200.0	7,182.1	7,188.9	7,150.1	11.9	18.0	-75.12	216.7	-522.7	865.1	834.8	30.25	28.598	
7,300.0	7,282.1	7,288.9	7,250.1	12.0	18.0	-75.12	216.7	-522.7	865.1	834.7	30.37	28.488	
7,400.0	7,382.1	7,388.9	7,350.1	12.1	18.1	-75.12	216.7	-522.7	865.1	834.6	30.48	28.379	
7,500.0	7,482.1	7,488.9	7,450.1	12.2	18.1	-75.12	216.7	-522.7	865.1	834.5	30.60	28.270	
7,600.0	7,582.1	7,588.9	7,550.1	12.2	18.2	-75.12	216.7	-522.7	865.1	834.4	30.72	28.162	
7,700.0	7,682.1	7,688.9	7,650.1	12.3	18.2	-75.12	216.7	-522.7	865.1	834.2	30.84	28.054	
7,800.0	7,782.1	7,788.9	7,750.1	12.4	18.3	-75.12	216.7	-522.7	865.1	834.1	30.96	27.946	
7,900.0	7,882.1	7,888.9	7,850.1	12.5	18.3	-75.12	216.7	-522.7	865.1	834.0	31.07	27.839	
8,000.0	7,982.1	7,988.9	7,950.1	12.6	18.4	-75.12	216.7	-522.7	865.1	833.9	31.19	27.733	
8,100.0	8,082.1	8,088.9	8,050.1	12.6	18.4	-75.12	216.7	-522.7	865.1	833.8	31.31	27.627	
8,200.0	8,182.1	8,188.9	8,150.1	12.7	18.5	-75.12	216.7	-522.7	865.1	833.6	31.43	27.521	
8,300.0	8,282.1	8,288.9	8,250.1	12.8	18.5	-75.12	216.7	-522.7	865.1	833.5	31.55	27.416	
8,400.0	8,382.1	8,388.9	8,350.1	12.9	18.6	-75.12	216.7	-522.7	865.1	833.4	31.67	27.311	
8,500.0	8,482.1	8,488.9	8,450.1	12.9	18.6	-75.12	216.7	-522.7	865.1	833.3	31.80	27.207	
8,600.0	8,582.1	8,588.9	8,550.1	13.0	18.7	-75.12	216.7	-522.7	865.1	833.2	31.92	27.103	
8,700.0	8,682.1	8,688.9	8,650.1	13.1	18.7	-75.12	216.7	-522.7	865.1	833.0	32.04	27.000	
8,800.0	8,782.1	8,788.9	8,750.1	13.2	18.8	-75.12	216.7	-522.7	865.1	832.9	32.16	26.897	
8,900.0	8,882.1	8,888.9	8,850.1	13.2	18.8	-75.12	216.7	-522.7	865.1	832.8	32.28	26.795	
9,000.0	8,982.1	8,988.9	8,950.1	13.3	18.9	-75.12	216.7	-522.7	865.1	832.7	32.41	26.693	
9,100.0	9,082.1	9,088.9	9,050.1	13.4	18.9	-75.12	216.7	-522.7	865.1	832.5	32.53	26.592	
9,200.0	9,182.1	9,188.9	9,150.1	13.5	19.0	-75.12	216.7	-522.7	865.1	832.4	32.66	26.491	
9,300.0	9,282.1	9,288.9	9,250.1	13.5	19.0	-75.12	216.7	-522.7	865.1	832.3	32.78	26.391	
9,400.0	9,382.1	9,388.9	9,350.1	13.6	19.1	-75.12	216.7	-522.7	865.1	832.2	32.90	26.291	
9,500.0	9,482.1	9,488.9	9,450.1	13.7	19.1	-75.12	216.7	-522.7	865.1	832.1	33.03	26.192	
9,600.0	9,582.1	9,588.9	9,550.1	13.8	19.2	-75.12	216.7	-522.7	865.1	831.9	33.15	26.093	
9,700.0	9,682.1	9,688.9	9,650.1	13.9	19.2	-75.12	216.7	-522.7	865.1	831.8	33.28	25.995	
9,800.0	9,782.1	9,788.9	9,750.1	13.9	19.3	-75.12	216.7	-522.7	865.1	831.7	33.40	25.897	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		No-Go		Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,900.0	9,882.1	9,888.9	9,850.1	14.0	19.3	-75.12	216.7	-522.7	865.1	831.6	33.53	25.800		
10,000.0	9,982.1	9,988.9	9,950.1	14.1	19.4	-75.12	216.7	-522.7	865.1	831.4	33.66	25.703		
10,100.0	10,082.1	10,088.9	10,050.1	14.2	19.4	-75.12	216.7	-522.7	865.1	831.3	33.78	25.607		
10,200.0	10,182.1	10,188.9	10,150.1	14.2	19.5	-75.12	216.7	-522.7	865.1	831.2	33.91	25.511		
10,300.0	10,282.1	10,288.9	10,250.1	14.3	19.5	-75.12	216.7	-522.7	865.1	831.0	34.04	25.416		
10,400.0	10,382.1	10,388.9	10,350.1	14.4	19.6	-75.12	216.7	-522.7	865.1	830.9	34.16	25.321		
10,500.0	10,482.1	10,488.9	10,450.1	14.5	19.7	-75.12	216.7	-522.7	865.1	830.8	34.29	25.227		
10,600.0	10,582.1	10,588.9	10,550.1	14.6	19.7	-75.12	216.7	-522.7	865.1	830.7	34.42	25.133		
10,700.0	10,682.1	10,688.9	10,650.1	14.6	19.8	-75.12	216.7	-522.7	865.1	830.5	34.55	25.039		
10,800.0	10,782.1	10,788.9	10,750.1	14.7	19.8	-75.12	216.7	-522.7	865.1	830.4	34.68	24.947		
10,900.0	10,882.1	10,888.9	10,850.1	14.8	19.9	-75.12	216.7	-522.7	865.1	830.3	34.81	24.854		
11,000.0	10,982.1	10,988.9	10,950.1	14.9	19.9	-75.12	216.7	-522.7	865.1	830.1	34.94	24.762		
11,100.0	11,082.1	11,088.9	11,050.1	14.9	20.0	-75.12	216.7	-522.7	865.1	830.0	35.06	24.671		
11,200.0	11,182.1	11,188.9	11,150.1	15.0	20.0	-75.12	216.7	-522.7	865.1	829.9	35.19	24.580		
11,300.0	11,282.1	11,288.9	11,250.1	15.1	20.1	-75.12	216.7	-522.7	865.1	829.8	35.32	24.490		
11,400.0	11,382.1	11,388.9	11,350.1	15.2	20.2	-75.12	216.7	-522.7	865.1	829.6	35.45	24.400		
11,456.4	11,438.5	11,445.2	11,406.5	15.2	20.2	-75.12	216.7	-522.7	865.1	829.6	35.50	24.366		
11,475.0	11,457.1	11,463.8	11,425.1	15.2	20.2	105.27	216.7	-522.7	865.2	829.7	35.51	24.362 SF		
11,500.0	11,482.1	11,483.7	11,445.0	15.2	20.2	105.30	216.8	-522.7	865.7	830.2	35.44	24.427		
11,525.0	11,506.9	11,500.0	11,461.3	15.2	20.2	105.34	217.5	-522.7	866.7	831.2	35.45	24.446		
11,550.0	11,531.5	11,516.5	11,477.7	15.2	20.2	105.40	218.7	-522.7	868.3	832.9	35.46	24.490		
11,575.0	11,555.9	11,532.1	11,493.2	15.2	20.2	105.46	220.4	-522.7	870.6	835.2	35.46	24.554		
11,600.0	11,580.0	11,550.0	11,511.0	15.2	20.2	105.58	222.9	-522.7	873.5	838.1	35.44	24.646		
11,625.0	11,603.7	11,561.1	11,521.9	15.2	20.2	105.51	224.8	-522.8	877.1	841.7	35.45	24.741		
11,650.0	11,626.9	11,575.0	11,535.5	15.2	20.2	105.48	227.5	-522.8	881.4	846.0	35.45	24.868		
11,675.0	11,649.6	11,586.6	11,546.9	15.2	20.2	105.34	230.1	-522.8	886.5	851.0	35.45	25.009		
11,700.0	11,671.7	11,600.0	11,559.8	15.2	20.2	105.23	233.5	-522.8	892.3	856.8	35.43	25.183		
11,725.0	11,693.2	11,608.2	11,567.7	15.3	20.2	104.82	235.7	-522.9	898.8	863.4	35.44	25.359		
11,750.0	11,714.0	11,617.4	11,576.5	15.3	20.2	104.39	238.3	-522.9	906.2	870.7	35.45	25.564		
11,775.0	11,734.0	11,625.0	11,583.7	15.3	20.2	103.79	240.6	-522.9	914.3	878.8	35.46	25.785		
11,800.0	11,753.2	11,632.8	11,591.2	15.3	20.2	103.11	243.2	-522.9	923.2	887.7	35.46	26.034		
11,825.0	11,771.6	11,639.1	11,597.1	15.3	20.2	102.24	245.3	-522.9	932.9	897.4	35.47	26.298		
11,850.0	11,789.0	11,650.0	11,607.3	15.3	20.2	101.55	249.1	-523.0	943.3	907.9	35.44	26.620		
11,875.0	11,805.5	11,650.0	11,607.3	15.3	20.2	100.09	249.1	-523.0	954.4	919.0	35.49	26.893		
11,900.0	11,821.0	11,650.0	11,607.3	15.4	20.2	98.50	249.1	-523.0	966.3	930.7	35.54	27.189		
11,925.0	11,835.4	11,650.0	11,607.3	15.4	20.2	96.78	249.1	-523.0	978.8	943.2	35.58	27.507		
11,950.0	11,848.8	11,657.6	11,614.3	15.4	20.2	95.46	251.9	-523.0	991.8	956.3	35.54	27.908		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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	Highside	Rule Assigned:			Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-3.20	250.8	-14.0	253.1				
100.0	100.0	69.0	69.0	3.0	3.1	-3.20	250.8	-14.0	251.2	244.1	7.09	35.442	
200.0	200.0	169.0	169.0	3.2	3.2	-3.20	250.8	-14.0	251.2	243.8	7.36	34.143	
300.0	300.0	269.0	269.0	3.3	3.3	-3.20	250.8	-14.0	251.2	243.6	7.60	33.032	
400.0	400.0	369.0	369.0	3.4	3.5	-3.20	250.8	-14.0	251.2	243.3	7.85	32.002	
500.0	500.0	469.0	469.0	3.5	3.6	-3.20	250.8	-14.0	251.2	243.1	8.09	31.041	
600.0	600.0	569.0	569.0	3.7	3.7	-3.20	250.8	-14.0	251.2	242.9	8.33	30.142	
700.0	700.0	669.0	669.0	3.8	3.8	-3.20	250.8	-14.0	251.2	242.6	8.57	29.299	
800.0	800.0	769.0	769.0	3.9	3.9	-3.20	250.8	-14.0	251.2	242.4	8.81	28.505	
900.0	900.0	869.0	869.0	4.0	4.1	-3.20	250.8	-14.0	251.2	242.1	9.05	27.756	
1,000.0	1,000.0	969.0	969.0	4.2	4.2	-3.20	250.8	-14.0	251.2	241.9	9.29	27.049	
1,100.0	1,100.0	1,069.0	1,069.0	4.3	4.3	-3.20	250.8	-14.0	251.2	241.7	9.52	26.379	
1,200.0	1,200.0	1,169.0	1,169.0	4.4	4.4	-3.20	250.8	-14.0	251.2	241.4	9.76	25.744	
1,300.0	1,300.0	1,269.0	1,269.0	4.5	4.5	-3.20	250.8	-14.0	251.2	241.2	9.99	25.141	
1,400.0	1,400.0	1,369.0	1,369.0	4.6	4.7	-3.20	250.8	-14.0	251.2	241.0	10.22	24.566	
1,500.0	1,500.0	1,469.0	1,469.0	4.8	4.8	-3.20	250.8	-14.0	251.2	240.7	10.46	24.019	
1,600.0	1,600.0	1,571.9	1,571.9	4.8	4.9	-94.80	250.3	-14.8	250.9	240.4	10.54	23.802	
1,700.0	1,699.8	1,675.4	1,675.3	5.0	5.1	-96.97	248.0	-18.6	249.6	238.7	10.84	23.021	
1,800.0	1,799.5	1,776.8	1,776.4	5.2	5.2	-100.67	244.0	-25.4	247.8	236.7	11.06	22.396	
1,850.0	1,849.1	1,825.9	1,825.3	5.2	5.3	-102.86	241.8	-29.0	247.4	236.3	11.14	22.208	
1,860.6	1,859.7	1,836.3	1,835.7	5.2	5.3	-103.34	241.3	-29.8	247.4	236.3	11.16	22.167 CC, ES	
1,900.0	1,898.8	1,874.9	1,874.1	5.2	5.4	-105.13	239.6	-32.7	247.6	236.3	11.24	22.029	
2,000.0	1,998.0	1,972.8	1,971.7	5.4	5.6	-109.64	235.2	-40.0	249.0	237.5	11.51	21.638	
2,100.0	2,097.3	2,070.8	2,069.3	5.6	5.8	-114.08	230.8	-47.3	252.0	240.2	11.77	21.405	
2,200.0	2,196.5	2,168.8	2,166.9	5.7	6.1	-118.39	226.4	-54.6	256.6	244.5	12.04	21.308	
2,300.0	2,295.8	2,266.8	2,264.5	5.9	6.3	-122.54	222.0	-62.0	262.6	250.3	12.31	21.325	
2,400.0	2,395.0	2,364.7	2,362.1	6.1	6.6	-126.49	217.6	-69.3	270.0	257.4	12.60	21.432	
2,500.0	2,494.3	2,462.7	2,459.7	6.2	6.9	-130.21	213.2	-76.6	278.6	265.7	12.89	21.608	
2,600.0	2,593.5	2,560.7	2,557.3	6.4	7.2	-133.71	208.8	-83.9	288.3	275.1	13.20	21.836	
2,700.0	2,692.8	2,658.7	2,654.9	6.6	7.5	-136.98	204.4	-91.2	299.1	285.6	13.51	22.143	
2,800.0	2,792.0	2,758.2	2,754.1	6.7	7.8	-139.93	200.3	-98.1	310.5	296.7	13.83	22.461	
2,900.0	2,891.3	2,858.4	2,854.2	6.9	8.1	-142.40	197.1	-103.5	322.2	308.0	14.19	22.708	
3,000.0	2,990.6	2,959.3	2,954.9	7.1	8.4	-144.43	194.7	-107.4	333.6	319.1	14.55	22.929	
3,100.0	3,089.8	3,060.6	3,056.2	7.2	8.6	-146.06	193.3	-109.8	344.8	329.9	14.91	23.123	
3,200.0	3,189.1	3,162.4	3,157.9	7.4	8.8	-147.33	192.8	-110.6	355.4	340.2	15.22	23.352	
3,300.0	3,288.3	3,261.8	3,257.3	7.6	8.9	-148.36	192.8	-110.6	365.7	350.3	15.48	23.626	
3,400.0	3,387.6	3,361.0	3,356.6	7.8	8.9	-149.34	192.8	-110.6	376.2	360.4	15.77	23.861	
3,500.0	3,486.8	3,460.3	3,455.8	7.9	9.0	-150.25	192.8	-110.6	386.7	370.7	16.05	24.095	
3,600.0	3,586.1	3,559.5	3,555.1	8.1	9.1	-151.13	192.8	-110.6	397.4	381.0	16.33	24.328	
3,700.0	3,685.3	3,658.8	3,654.3	8.3	9.2	-151.95	192.8	-110.6	408.1	391.5	16.62	24.558	
3,800.0	3,784.6	3,758.0	3,753.6	8.5	9.3	-152.73	192.8	-110.6	418.9	402.0	16.90	24.786	
3,896.1	3,880.0	3,853.4	3,849.0	8.6	9.3	-153.45	192.8	-110.6	429.4	412.2	17.17	25.010	
3,900.0	3,883.8	3,857.3	3,852.8	8.6	9.3	-153.48	192.8	-110.6	429.8	412.6	17.18	25.023	
4,000.0	3,983.2	3,956.7	3,952.2	9.0	9.4	-154.18	192.8	-110.6	439.9	422.3	17.62	24.972	
4,100.0	4,082.8	4,056.2	4,051.8	9.1	9.5	-154.74	192.8	-110.6	448.5	430.6	17.89	25.077	
4,200.0	4,182.5	4,155.9	4,151.5	9.3	9.6	-155.19	192.8	-110.6	455.6	437.4	18.15	25.104	
4,300.0	4,282.3	4,255.7	4,251.3	9.5	9.6	-155.53	192.8	-110.6	461.1	442.7	18.40	25.056	
4,400.0	4,382.2	4,355.6	4,351.2	9.6	9.7	-155.76	192.8	-110.6	465.0	446.3	18.65	24.937	
4,500.0	4,482.1	4,455.6	4,451.1	9.8	9.8	-155.90	192.8	-110.6	467.3	448.4	18.88	24.751	
4,596.1	4,578.3	4,551.7	4,547.3	9.9	9.9	-64.94	192.8	-110.6	468.0	449.0	19.06	24.553	
4,600.0	4,582.1	4,555.6	4,551.1	9.9	9.9	-64.94	192.8	-110.6	468.0	449.0	19.07	24.549	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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		Highside Toolface		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,700.0	4,682.1	4,655.6	4,651.1	10.1	10.0	-64.94	192.8	-110.6	468.0	448.7	19.38	24.155	
4,800.0	4,782.1	4,755.6	4,751.1	10.2	10.0	-64.94	192.8	-110.6	468.0	448.5	19.54	23.957	
4,900.0	4,882.1	4,855.6	4,851.1	10.2	10.1	-64.94	192.8	-110.6	468.0	448.3	19.70	23.763	
5,000.0	4,982.1	4,955.6	4,951.1	10.3	10.2	-64.94	192.8	-110.6	468.0	448.2	19.86	23.572	
5,100.0	5,082.1	5,055.6	5,051.1	10.4	10.3	-64.94	192.8	-110.6	468.0	448.0	20.02	23.383	
5,200.0	5,182.1	5,155.6	5,151.1	10.5	10.3	-64.94	192.8	-110.6	468.0	447.9	20.18	23.198	
5,300.0	5,282.1	5,255.6	5,251.1	10.5	10.4	-64.94	192.8	-110.6	468.0	447.7	20.34	23.015	
5,400.0	5,382.1	5,355.6	5,351.1	10.6	10.5	-64.94	192.8	-110.6	468.0	447.5	20.50	22.836	
5,500.0	5,482.1	5,455.6	5,451.1	10.7	10.6	-64.94	192.8	-110.6	468.0	447.4	20.66	22.659	
5,600.0	5,582.1	5,555.6	5,551.1	10.7	10.7	-64.94	192.8	-110.6	468.0	447.2	20.82	22.485	
5,700.0	5,682.1	5,655.6	5,651.1	10.8	10.7	-64.94	192.8	-110.6	468.0	447.1	20.98	22.313	
5,800.0	5,782.1	5,755.6	5,751.1	10.9	10.8	-64.94	192.8	-110.6	468.0	446.9	21.14	22.144	
5,900.0	5,882.1	5,855.6	5,851.1	11.0	10.9	-64.94	192.8	-110.6	468.0	446.7	21.30	21.978	
6,000.0	5,982.1	5,955.6	5,951.1	11.0	11.0	-64.94	192.8	-110.6	468.0	446.6	21.46	21.814	
6,100.0	6,082.1	6,055.6	6,051.1	11.1	11.0	-64.94	192.8	-110.6	468.0	446.4	21.62	21.652	
6,200.0	6,182.1	6,155.6	6,151.1	11.2	11.1	-64.94	192.8	-110.6	468.0	446.3	21.78	21.493	
6,300.0	6,282.1	6,255.6	6,251.1	11.3	11.2	-64.94	192.8	-110.6	468.0	446.1	21.94	21.336	
6,400.0	6,382.1	6,355.6	6,351.1	11.3	11.3	-64.94	192.8	-110.6	468.0	445.9	22.10	21.182	
6,500.0	6,482.1	6,455.6	6,451.1	11.4	11.4	-64.94	192.8	-110.6	468.0	445.8	22.26	21.029	
6,600.0	6,582.1	6,555.6	6,551.1	11.5	11.4	-64.94	192.8	-110.6	468.0	445.6	22.42	20.879	
6,700.0	6,682.1	6,655.6	6,651.1	11.6	11.5	-64.94	192.8	-110.6	468.0	445.5	22.58	20.731	
6,800.0	6,782.1	6,755.6	6,751.1	11.6	11.6	-64.94	192.8	-110.6	468.0	445.3	22.74	20.585	
6,900.0	6,882.1	6,855.6	6,851.1	11.7	11.7	-64.94	192.8	-110.6	468.0	445.1	22.90	20.441	
7,000.0	6,982.1	6,955.6	6,951.1	11.8	11.8	-64.94	192.8	-110.6	468.0	445.0	23.06	20.299	
7,100.0	7,082.1	7,055.6	7,051.1	11.9	11.8	-64.94	192.8	-110.6	468.0	444.8	23.22	20.159	
7,200.0	7,182.1	7,155.6	7,151.1	11.9	11.9	-64.94	192.8	-110.6	468.0	444.7	23.38	20.021	
7,300.0	7,282.1	7,255.6	7,251.1	12.0	12.0	-64.94	192.8	-110.6	468.0	444.5	23.54	19.885	
7,400.0	7,382.1	7,355.6	7,351.1	12.1	12.1	-64.94	192.8	-110.6	468.0	444.3	23.70	19.750	
7,500.0	7,482.1	7,455.6	7,451.1	12.2	12.2	-64.94	192.8	-110.6	468.0	444.2	23.86	19.618	
7,600.0	7,582.1	7,555.6	7,551.1	12.2	12.2	-64.94	192.8	-110.6	468.0	444.0	24.02	19.487	
7,700.0	7,682.1	7,655.6	7,651.1	12.3	12.3	-64.94	192.8	-110.6	468.0	443.9	24.18	19.358	
7,800.0	7,782.1	7,755.6	7,751.1	12.4	12.4	-64.94	192.8	-110.6	468.0	443.7	24.34	19.230	
7,900.0	7,882.1	7,855.6	7,851.1	12.5	12.5	-64.94	192.8	-110.6	468.0	443.5	24.50	19.104	
8,000.0	7,982.1	7,955.6	7,951.1	12.6	12.6	-64.94	192.8	-110.6	468.0	443.4	24.66	18.980	
8,100.0	8,082.1	8,055.6	8,051.1	12.6	12.6	-64.94	192.8	-110.6	468.0	443.2	24.82	18.858	
8,200.0	8,182.1	8,155.6	8,151.1	12.7	12.7	-64.94	192.8	-110.6	468.0	443.1	24.98	18.737	
8,300.0	8,282.1	8,255.6	8,251.1	12.8	12.8	-64.94	192.8	-110.6	468.0	442.9	25.14	18.617	
8,400.0	8,382.1	8,355.6	8,351.1	12.9	12.9	-64.94	192.8	-110.6	468.0	442.7	25.30	18.499	
8,500.0	8,482.1	8,455.6	8,451.1	12.9	12.9	-64.94	192.8	-110.6	468.0	442.6	25.46	18.383	
8,600.0	8,582.1	8,555.6	8,551.1	13.0	13.0	-64.94	192.8	-110.6	468.0	442.4	25.62	18.268	
8,700.0	8,682.1	8,655.6	8,651.1	13.1	13.1	-64.94	192.8	-110.6	468.0	442.3	25.78	18.154	
8,800.0	8,782.1	8,755.6	8,751.1	13.2	13.2	-64.94	192.8	-110.6	468.0	442.1	25.94	18.042	
8,900.0	8,882.1	8,855.6	8,851.1	13.2	13.3	-64.94	192.8	-110.6	468.0	441.9	26.10	17.931	
9,000.0	8,982.1	8,955.6	8,951.1	13.3	13.3	-64.94	192.8	-110.6	468.0	441.8	26.26	17.821	
9,100.0	9,082.1	9,055.6	9,051.1	13.4	13.4	-64.94	192.8	-110.6	468.0	441.6	26.42	17.713	
9,200.0	9,182.1	9,155.6	9,151.1	13.5	13.5	-64.94	192.8	-110.6	468.0	441.4	26.58	17.606	
9,300.0	9,282.1	9,255.6	9,251.1	13.5	13.6	-64.94	192.8	-110.6	468.0	441.3	26.74	17.501	
9,400.0	9,382.1	9,355.6	9,351.1	13.6	13.7	-64.94	192.8	-110.6	468.0	441.1	26.90	17.397	
9,500.0	9,482.1	9,455.6	9,451.1	13.7	13.7	-64.94	192.8	-110.6	468.0	441.0	27.06	17.293	
9,600.0	9,582.1	9,555.6	9,551.1	13.8	13.8	-64.94	192.8	-110.6	468.0	440.8	27.22	17.192	
9,700.0	9,682.1	9,655.6	9,651.1	13.9	13.9	-64.94	192.8	-110.6	468.0	440.6	27.38	17.091	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,800.0	9,782.1	9,755.6	9,751.1	13.9	14.0	-64.94	192.8	-110.6	468.0	440.5	27.55	16.991	
9,900.0	9,882.1	9,855.6	9,851.1	14.0	14.1	-64.94	192.8	-110.6	468.0	440.3	27.71	16.893	
10,000.0	9,982.1	9,955.6	9,951.1	14.1	14.1	-64.94	192.8	-110.6	468.0	440.2	27.87	16.796	
10,100.0	10,082.1	10,055.6	10,051.1	14.2	14.2	-64.94	192.8	-110.6	468.0	440.0	28.03	16.700	
10,200.0	10,182.1	10,155.6	10,151.1	14.2	14.3	-64.94	192.8	-110.6	468.0	439.8	28.19	16.604	
10,300.0	10,282.1	10,255.6	10,251.1	14.3	14.4	-64.94	192.8	-110.6	468.0	439.7	28.35	16.511	
10,400.0	10,382.1	10,355.6	10,351.1	14.4	14.5	-64.94	192.8	-110.6	468.0	439.5	28.51	16.418	
10,500.0	10,482.1	10,455.6	10,451.1	14.5	14.5	-64.94	192.8	-110.6	468.0	439.4	28.67	16.326	
10,600.0	10,582.1	10,555.6	10,551.1	14.6	14.6	-64.94	192.8	-110.6	468.0	439.2	28.83	16.235	
10,700.0	10,682.1	10,655.6	10,651.1	14.6	14.7	-64.94	192.8	-110.6	468.0	439.0	28.99	16.145	
10,800.0	10,782.1	10,755.6	10,751.1	14.7	14.8	-64.94	192.8	-110.6	468.0	438.9	29.15	16.056	
10,900.0	10,882.1	10,855.6	10,851.1	14.8	14.9	-64.94	192.8	-110.6	468.0	438.7	29.31	15.968	
11,000.0	10,982.1	10,955.6	10,951.1	14.9	14.9	-64.94	192.8	-110.6	468.0	438.6	29.47	15.881	
11,100.0	11,082.1	11,055.6	11,051.1	14.9	15.0	-64.94	192.8	-110.6	468.0	438.4	29.63	15.795	
11,200.0	11,182.1	11,155.6	11,151.1	15.0	15.1	-64.94	192.8	-110.6	468.0	438.2	29.79	15.710	
11,300.0	11,282.1	11,255.6	11,251.1	15.1	15.2	-64.94	192.8	-110.6	468.0	438.1	29.93	15.637 SF	
11,400.0	11,382.1	11,325.0	11,320.4	15.2	15.2	-64.53	196.5	-110.6	470.7	440.6	30.04	15.667	
11,456.4	11,438.5	11,366.7	11,361.5	15.2	15.2	-63.76	203.5	-110.7	475.0	444.8	30.19	15.735	
11,475.0	11,457.1	11,379.0	11,373.5	15.2	15.2	116.71	206.3	-110.7	477.1	446.9	30.23	15.781	
11,500.0	11,482.1	11,395.1	11,389.1	15.2	15.2	116.85	210.4	-110.8	480.8	450.5	30.34	15.850	
11,525.0	11,506.9	11,410.5	11,403.8	15.2	15.2	116.98	214.8	-110.8	485.6	455.2	30.46	15.944	
11,550.0	11,531.5	11,425.0	11,417.6	15.2	15.2	117.06	219.3	-110.9	491.6	460.9	30.61	16.060	
11,575.0	11,555.9	11,438.7	11,430.5	15.2	15.2	117.07	224.0	-110.9	498.6	467.8	30.78	16.200	
11,600.0	11,580.0	11,450.0	11,441.0	15.2	15.2	116.87	228.2	-110.9	506.8	475.8	31.00	16.348	
11,625.0	11,603.7	11,463.0	11,452.9	15.2	15.2	116.71	233.2	-111.0	516.2	485.0	31.20	16.544	
11,650.0	11,626.9	11,475.0	11,463.8	15.2	15.2	116.40	238.2	-111.0	526.8	495.4	31.42	16.766	
11,675.0	11,649.6	11,483.0	11,471.1	15.2	15.2	115.65	241.7	-111.1	538.5	506.8	31.72	16.978	
11,700.0	11,671.7	11,491.5	11,478.6	15.2	15.2	114.79	245.5	-111.1	551.3	519.3	32.00	17.230	
11,725.0	11,693.2	11,500.0	11,486.2	15.3	15.2	113.78	249.4	-111.1	565.2	533.0	32.26	17.519	
11,750.0	11,714.0	11,500.0	11,486.2	15.3	15.2	111.71	249.4	-111.1	580.2	547.5	32.71	17.738	
11,775.0	11,734.0	11,510.8	11,495.7	15.3	15.2	110.56	254.7	-111.2	596.0	563.1	32.88	18.130	
11,800.0	11,753.2	11,515.4	11,499.7	15.3	15.3	108.53	256.9	-111.2	612.8	579.6	33.16	18.478	
11,825.0	11,771.6	11,525.0	11,507.9	15.3	15.3	106.86	261.8	-111.2	630.3	597.0	33.30	18.931	
11,850.0	11,789.0	11,525.0	11,507.9	15.3	15.3	103.79	261.8	-111.2	648.5	614.9	33.62	19.288	
11,875.0	11,805.5	11,525.0	11,507.9	15.3	15.3	100.43	261.8	-111.2	667.4	633.4	33.91	19.678	
11,900.0	11,821.0	11,525.0	11,507.9	15.4	15.3	96.79	261.8	-111.2	686.7	652.6	34.17	20.100	
11,925.0	11,835.4	11,525.0	11,507.9	15.4	15.3	92.90	261.8	-111.2	706.6	672.2	34.38	20.552	
11,950.0	11,848.8	11,525.0	11,507.9	15.4	15.3	88.80	261.8	-111.2	726.7	692.2	34.55	21.033	
11,975.0	11,861.0	11,525.0	11,507.9	15.5	15.3	84.54	261.8	-111.2	747.2	712.5	34.69	21.540	
12,000.0	11,872.1	11,525.0	11,507.9	15.5	15.3	80.18	261.8	-111.2	767.8	733.0	34.79	22.071	
12,025.0	11,881.9	11,525.0	11,507.9	15.5	15.3	75.79	261.8	-111.2	788.6	753.8	34.85	22.626	
12,050.0	11,890.6	11,525.0	11,507.9	15.6	15.3	71.44	261.8	-111.2	809.5	774.6	34.89	23.202	
12,075.0	11,898.0	11,525.0	11,507.9	15.6	15.3	67.20	261.8	-111.2	830.3	795.4	34.89	23.798	
12,100.0	11,904.2	11,516.9	11,500.9	15.7	15.3	62.28	257.7	-111.2	851.0	816.0	35.03	24.296	
12,125.0	11,909.0	11,513.7	11,498.2	15.7	15.3	58.19	256.1	-111.2	871.6	836.6	35.03	24.881	
12,150.0	11,912.6	11,510.3	11,495.2	15.8	15.2	54.35	254.4	-111.2	892.1	857.0	35.02	25.475	
12,175.0	11,914.9	11,500.0	11,486.2	15.8	15.2	50.33	249.4	-111.1	912.3	877.2	35.10	25.988	
12,200.0	11,915.9	11,500.0	11,486.2	15.9	15.2	47.39	249.4	-111.1	932.1	897.2	34.97	26.653	
12,206.4	11,916.0	11,500.0	11,486.2	15.9	15.2	46.68	249.4	-111.1	937.1	902.2	34.93	26.825	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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	Offset Wellbore Centre	Distance	No-Go	Separation	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)	Distance (usft)	Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	2.72	233.9	11.1	236.2				
100.0	100.0	69.0	69.0	3.0	3.1	2.72	233.9	11.1	234.2	227.1	7.09	33.045	
200.0	200.0	169.0	169.0	3.2	3.2	2.72	233.9	11.1	234.2	226.8	7.36	31.834	
300.0	300.0	269.0	269.0	3.3	3.3	2.72	233.9	11.1	234.2	226.6	7.60	30.798	
400.0	400.0	369.0	369.0	3.4	3.5	2.72	233.9	11.1	234.2	226.4	7.85	29.837	
500.0	500.0	469.0	469.0	3.5	3.6	2.72	233.9	11.1	234.2	226.1	8.09	28.942	
600.0	600.0	569.0	569.0	3.7	3.7	2.72	233.9	11.1	234.2	225.9	8.33	28.104	
700.0	700.0	669.0	669.0	3.8	3.8	2.72	233.9	11.1	234.2	225.6	8.57	27.317	
800.0	800.0	769.0	769.0	3.9	3.9	2.72	233.9	11.1	234.2	225.4	8.81	26.577	
900.0	900.0	869.0	869.0	4.0	4.1	2.72	233.9	11.1	234.2	225.2	9.05	25.879	
1,000.0	1,000.0	969.0	969.0	4.2	4.2	2.72	233.9	11.1	234.2	224.9	9.29	25.219	
1,100.0	1,100.0	1,069.0	1,069.0	4.3	4.3	2.72	233.9	11.1	234.2	224.7	9.52	24.595	
1,200.0	1,200.0	1,169.0	1,169.0	4.4	4.4	2.72	233.9	11.1	234.2	224.4	9.76	24.002	
1,300.0	1,300.0	1,269.0	1,269.0	4.5	4.5	2.72	233.9	11.1	234.2	224.2	9.99	23.440	
1,400.0	1,400.0	1,369.0	1,369.0	4.6	4.7	2.72	233.9	11.1	234.2	224.0	10.23	22.904	
1,500.0	1,500.0	1,469.0	1,469.0	4.8	4.8	2.72	233.9	11.1	234.2	223.7	10.46	22.394 ES	
1,537.6	1,537.6	1,506.5	1,506.5	4.8	4.8	-88.33	233.9	11.1	234.2	223.8	10.41	22.506 CC	
1,600.0	1,600.0	1,568.1	1,568.1	4.8	4.9	-88.50	234.0	11.9	234.3	223.8	10.52	22.261	
1,700.0	1,699.8	1,666.7	1,666.7	5.0	5.0	-88.78	234.5	15.9	234.8	224.0	10.80	21.739	
1,800.0	1,799.5	1,765.5	1,765.1	5.2	5.2	-89.06	235.4	23.3	235.9	224.8	11.09	21.263	
1,850.0	1,849.1	1,815.0	1,814.4	5.2	5.3	-89.22	236.0	28.3	236.5	225.3	11.20	21.128	
1,900.0	1,898.8	1,865.0	1,864.1	5.2	5.4	-89.44	236.7	33.4	237.3	226.0	11.30	20.998	
2,000.0	1,998.0	1,965.0	1,963.5	5.4	5.6	-89.89	238.0	43.8	238.7	227.1	11.59	20.601	
2,100.0	2,097.3	2,064.9	2,062.9	5.6	5.9	-90.33	239.2	54.2	240.2	228.3	11.87	20.228	
2,200.0	2,196.5	2,164.9	2,162.4	5.7	6.2	-90.77	240.5	64.6	241.6	229.5	12.16	19.877	
2,300.0	2,295.8	2,264.9	2,261.8	5.9	6.4	-91.20	241.8	74.9	243.1	230.7	12.44	19.546	
2,400.0	2,395.0	2,364.9	2,361.2	6.1	6.7	-91.62	243.0	85.3	244.6	231.9	12.72	19.233	
2,500.0	2,494.3	2,464.8	2,460.6	6.2	7.0	-92.04	244.3	95.7	246.1	233.1	13.00	18.938	
2,600.0	2,593.5	2,564.8	2,560.1	6.4	7.3	-92.46	245.6	106.1	247.7	234.4	13.27	18.658	
2,700.0	2,692.8	2,664.8	2,659.5	6.6	7.7	-92.87	246.9	116.4	249.2	235.7	13.55	18.392	
2,800.0	2,792.0	2,764.7	2,758.9	6.7	8.0	-93.27	248.1	126.8	250.8	236.9	13.82	18.140	
2,900.0	2,891.3	2,864.7	2,858.3	6.9	8.3	-93.67	249.4	137.2	252.3	238.2	14.10	17.901	
3,000.0	2,990.6	2,964.7	2,957.8	7.1	8.7	-94.07	250.7	147.5	253.9	239.5	14.37	17.673	
3,100.0	3,089.8	3,064.7	3,057.2	7.2	9.0	-94.46	252.0	157.9	255.5	240.8	14.64	17.455	
3,200.0	3,189.1	3,164.6	3,156.6	7.4	9.4	-94.84	253.2	168.3	257.1	242.2	14.91	17.248	
3,300.0	3,288.3	3,264.6	3,256.0	7.6	9.7	-95.22	254.5	178.7	258.7	243.5	15.17	17.049	
3,400.0	3,387.6	3,364.6	3,355.5	7.8	10.1	-95.60	255.8	189.0	260.3	244.9	15.44	16.860	
3,500.0	3,486.8	3,464.6	3,454.9	7.9	10.4	-95.97	257.1	199.4	261.9	246.2	15.71	16.678	
3,600.0	3,586.1	3,564.5	3,554.3	8.1	10.8	-96.33	258.3	209.8	263.6	247.6	15.97	16.504	
3,700.0	3,685.3	3,664.5	3,653.7	8.3	11.2	-96.70	259.6	220.1	265.2	249.0	16.24	16.336	
3,800.0	3,784.6	3,764.5	3,753.2	8.5	11.5	-97.05	260.9	230.5	266.9	250.4	16.50	16.175	
3,896.1	3,880.0	3,860.6	3,848.7	8.6	11.9	-97.39	262.1	240.5	268.5	251.8	16.75	16.031	
3,900.0	3,883.8	3,864.4	3,852.6	8.6	11.9	-97.41	262.1	240.9	268.6	251.8	16.76	16.028	
4,000.0	3,983.2	3,964.4	3,952.0	9.0	12.3	-97.57	263.4	251.3	270.2	253.0	17.19	15.718	
4,100.0	4,082.8	4,064.4	4,051.5	9.1	12.7	-97.37	264.7	261.6	271.5	254.0	17.44	15.563	
4,200.0	4,182.5	4,164.4	4,150.9	9.3	13.0	-96.84	266.0	271.9	272.6	254.9	17.68	15.422	
4,300.0	4,282.3	4,264.5	4,250.6	9.5	13.4	-96.25	267.0	280.6	273.5	255.6	17.92	15.265	
4,400.0	4,382.2	4,364.6	4,350.5	9.6	13.8	-95.67	267.9	287.7	274.2	256.1	18.16	15.101	
4,500.0	4,482.1	4,464.8	4,450.5	9.8	14.1	-95.08	268.5	293.0	274.7	256.3	18.39	14.937	
4,596.1	4,578.3	4,561.1	4,546.8	9.9	14.4	-3.52	269.0	296.5	275.0	256.4	18.59	14.787	
4,600.0	4,582.1	4,565.0	4,550.7	9.9	14.4	-3.50	269.0	296.6	275.0	256.4	18.60	14.783	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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)	No-Go Distance (usft)	Separation Factor	Warning
4,700.0	4,682.1	4,665.3	4,651.0	10.1	14.7	-3.12	269.2	298.4	275.1	256.1	18.95	14.515	
4,800.0	4,782.1	4,765.5	4,751.1	10.2	14.8	-3.06	269.2	298.7	275.1	256.0	19.11	14.395	
4,900.0	4,882.1	4,865.5	4,851.1	10.2	14.8	-3.06	269.2	298.7	275.1	255.8	19.27	14.274	
5,000.0	4,982.1	4,965.5	4,951.1	10.3	14.9	-3.06	269.2	298.7	275.1	255.7	19.44	14.151	
5,100.0	5,082.1	5,065.5	5,051.1	10.4	14.9	-3.06	269.2	298.7	275.1	255.5	19.61	14.030	
5,200.0	5,182.1	5,165.5	5,151.1	10.5	15.0	-3.06	269.2	298.7	275.1	255.3	19.78	13.911	
5,300.0	5,282.1	5,265.5	5,251.1	10.5	15.0	-3.06	269.2	298.7	275.1	255.2	19.94	13.794	
5,400.0	5,382.1	5,365.5	5,351.1	10.6	15.1	-3.06	269.2	298.7	275.1	255.0	20.11	13.680	
5,500.0	5,482.1	5,465.5	5,451.1	10.7	15.1	-3.06	269.2	298.7	275.1	254.8	20.28	13.567	
5,600.0	5,582.1	5,565.5	5,551.1	10.7	15.2	-3.06	269.2	298.7	275.1	254.7	20.44	13.456	
5,700.0	5,682.1	5,665.5	5,651.1	10.8	15.2	-3.06	269.2	298.7	275.1	254.5	20.61	13.347	
5,800.0	5,782.1	5,765.5	5,751.1	10.9	15.3	-3.06	269.2	298.7	275.1	254.3	20.78	13.240	
5,900.0	5,882.1	5,865.5	5,851.1	11.0	15.4	-3.06	269.2	298.7	275.1	254.2	20.94	13.135	
6,000.0	5,982.1	5,965.5	5,951.1	11.0	15.4	-3.06	269.2	298.7	275.1	254.0	21.11	13.031	
6,100.0	6,082.1	6,065.5	6,051.1	11.1	15.5	-3.06	269.2	298.7	275.1	253.8	21.28	12.929	
6,200.0	6,182.1	6,165.5	6,151.1	11.2	15.5	-3.06	269.2	298.7	275.1	253.7	21.44	12.829	
6,300.0	6,282.1	6,265.5	6,251.1	11.3	15.6	-3.06	269.2	298.7	275.1	253.5	21.61	12.730	
6,400.0	6,382.1	6,365.5	6,351.1	11.3	15.6	-3.06	269.2	298.7	275.1	253.3	21.78	12.633	
6,500.0	6,482.1	6,465.5	6,451.1	11.4	15.7	-3.06	269.2	298.7	275.1	253.2	21.94	12.538	
6,600.0	6,582.1	6,565.5	6,551.1	11.5	15.7	-3.06	269.2	298.7	275.1	253.0	22.11	12.444	
6,700.0	6,682.1	6,665.5	6,651.1	11.6	15.8	-3.06	269.2	298.7	275.1	252.8	22.27	12.351	
6,800.0	6,782.1	6,765.5	6,751.1	11.6	15.8	-3.06	269.2	298.7	275.1	252.7	22.44	12.260	
6,900.0	6,882.1	6,865.5	6,851.1	11.7	15.9	-3.06	269.2	298.7	275.1	252.5	22.61	12.170	
7,000.0	6,982.1	6,965.5	6,951.1	11.8	16.0	-3.06	269.2	298.7	275.1	252.3	22.77	12.081	
7,100.0	7,082.1	7,065.5	7,051.1	11.9	16.0	-3.06	269.2	298.7	275.1	252.2	22.94	11.994	
7,200.0	7,182.1	7,165.5	7,151.1	11.9	16.1	-3.06	269.2	298.7	275.1	252.0	23.10	11.908	
7,300.0	7,282.1	7,265.5	7,251.1	12.0	16.1	-3.06	269.2	298.7	275.1	251.8	23.27	11.823	
7,400.0	7,382.1	7,365.5	7,351.1	12.1	16.2	-3.06	269.2	298.7	275.1	251.7	23.43	11.740	
7,500.0	7,482.1	7,465.5	7,451.1	12.2	16.2	-3.06	269.2	298.7	275.1	251.5	23.60	11.657	
7,600.0	7,582.1	7,565.5	7,551.1	12.2	16.3	-3.06	269.2	298.7	275.1	251.3	23.76	11.576	
7,700.0	7,682.1	7,665.5	7,651.1	12.3	16.4	-3.06	269.2	298.7	275.1	251.2	23.93	11.496	
7,800.0	7,782.1	7,765.5	7,751.1	12.4	16.4	-3.06	269.2	298.7	275.1	251.0	24.10	11.418	
7,900.0	7,882.1	7,865.5	7,851.1	12.5	16.5	-3.06	269.2	298.7	275.1	250.8	24.26	11.340	
8,000.0	7,982.1	7,965.5	7,951.1	12.6	16.5	-3.06	269.2	298.7	275.1	250.7	24.43	11.263	
8,100.0	8,082.1	8,065.5	8,051.1	12.6	16.6	-3.06	269.2	298.7	275.1	250.5	24.59	11.188	
8,200.0	8,182.1	8,165.5	8,151.1	12.7	16.7	-3.06	269.2	298.7	275.1	250.4	24.76	11.113	
8,300.0	8,282.1	8,265.5	8,251.1	12.8	16.7	-3.06	269.2	298.7	275.1	250.2	24.92	11.040	
8,400.0	8,382.1	8,365.5	8,351.1	12.9	16.8	-3.06	269.2	298.7	275.1	250.0	25.09	10.967	
8,500.0	8,482.1	8,465.5	8,451.1	12.9	16.8	-3.06	269.2	298.7	275.1	249.9	25.25	10.895	
8,600.0	8,582.1	8,565.5	8,551.1	13.0	16.9	-3.06	269.2	298.7	275.1	249.7	25.41	10.825	
8,700.0	8,682.1	8,665.5	8,651.1	13.1	17.0	-3.06	269.2	298.7	275.1	249.5	25.58	10.755	
8,800.0	8,782.1	8,765.5	8,751.1	13.2	17.0	-3.06	269.2	298.7	275.1	249.4	25.74	10.686	
8,900.0	8,882.1	8,865.5	8,851.1	13.2	17.1	-3.06	269.2	298.7	275.1	249.2	25.91	10.618	
9,000.0	8,982.1	8,965.5	8,951.1	13.3	17.1	-3.06	269.2	298.7	275.1	249.0	26.07	10.551	
9,100.0	9,082.1	9,065.5	9,051.1	13.4	17.2	-3.06	269.2	298.7	275.1	248.9	26.24	10.485	
9,200.0	9,182.1	9,165.5	9,151.1	13.5	17.3	-3.06	269.2	298.7	275.1	248.7	26.40	10.420	
9,300.0	9,282.1	9,265.5	9,251.1	13.5	17.3	-3.06	269.2	298.7	275.1	248.5	26.57	10.355	
9,400.0	9,382.1	9,365.5	9,351.1	13.6	17.4	-3.06	269.2	298.7	275.1	248.4	26.73	10.292	
9,500.0	9,482.1	9,465.5	9,451.1	13.7	17.4	-3.06	269.2	298.7	275.1	248.2	26.90	10.229	
9,600.0	9,582.1	9,565.5	9,551.1	13.8	17.5	-3.06	269.2	298.7	275.1	248.0	27.06	10.167	
9,700.0	9,682.1	9,665.5	9,651.1	13.9	17.6	-3.06	269.2	298.7	275.1	247.9	27.22	10.105	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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)	No-Go Distance (usft)	Separation Factor	Warning
9,800.0	9,782.1	9,765.5	9,751.1	13.9	17.6	-3.06	269.2	298.7	275.1	247.7	27.39	10.045	
9,900.0	9,882.1	9,865.5	9,851.1	14.0	17.7	-3.06	269.2	298.7	275.1	247.6	27.55	9.985	
10,000.0	9,982.1	9,965.5	9,951.1	14.1	17.8	-3.06	269.2	298.7	275.1	247.4	27.72	9.926	
10,100.0	10,082.1	10,065.5	10,051.1	14.2	17.8	-3.06	269.2	298.7	275.1	247.2	27.88	9.867	
10,200.0	10,182.1	10,165.5	10,151.1	14.2	17.9	-3.06	269.2	298.7	275.1	247.1	28.04	9.810	
10,300.0	10,282.1	10,265.5	10,251.1	14.3	17.9	-3.06	269.2	298.7	275.1	246.9	28.21	9.753	
10,400.0	10,382.1	10,365.5	10,351.1	14.4	18.0	-3.06	269.2	298.7	275.1	246.7	28.37	9.696	
10,500.0	10,482.1	10,465.5	10,451.1	14.5	18.1	-3.06	269.2	298.7	275.1	246.6	28.54	9.641	
10,600.0	10,582.1	10,565.5	10,551.1	14.6	18.1	-3.06	269.2	298.7	275.1	246.4	28.70	9.586	
10,700.0	10,682.1	10,665.5	10,651.1	14.6	18.2	-3.06	269.2	298.7	275.1	246.2	28.86	9.531	
10,800.0	10,782.1	10,765.5	10,751.1	14.7	18.3	-3.06	269.2	298.7	275.1	246.1	29.03	9.477	
10,900.0	10,882.1	10,865.5	10,851.1	14.8	18.3	-3.06	269.2	298.7	275.1	245.9	29.19	9.424	
11,000.0	10,982.1	10,965.5	10,951.1	14.9	18.4	-3.06	269.2	298.7	275.1	245.8	29.36	9.372	
11,100.0	11,082.1	11,065.5	11,051.1	14.9	18.4	-3.06	269.2	298.7	275.1	245.6	29.52	9.320	
11,200.0	11,182.1	11,165.5	11,151.1	15.0	18.5	-3.06	269.2	298.7	275.1	245.4	29.68	9.268	
11,300.0	11,282.1	11,265.5	11,251.1	15.1	18.6	-3.06	269.2	298.7	275.1	245.3	29.85	9.217	
11,400.0	11,382.1	11,365.5	11,351.1	15.2	18.6	-3.06	269.2	298.7	275.1	245.1	30.01	9.167	
11,456.4	11,438.5	11,421.9	11,407.5	15.2	18.7	-3.06	269.2	298.7	275.1	245.0	30.08	9.146 SF	
11,475.0	11,457.1	11,440.5	11,426.1	15.2	18.7	177.31	269.2	298.7	275.5	245.4	30.10	9.153	
11,500.0	11,482.1	11,459.7	11,445.4	15.2	18.7	177.31	269.3	298.7	277.3	247.2	30.04	9.228	
11,525.0	11,506.9	11,475.0	11,460.6	15.2	18.7	177.31	269.9	298.7	281.1	251.0	30.14	9.326	
11,550.0	11,531.5	11,490.6	11,476.1	15.2	18.7	177.32	271.0	298.7	287.0	256.7	30.28	9.479	
11,575.0	11,555.9	11,505.3	11,490.8	15.2	18.7	177.31	272.5	298.7	294.9	264.5	30.47	9.680	
11,600.0	11,580.0	11,519.4	11,504.8	15.2	18.7	177.31	274.3	298.6	304.8	274.1	30.70	9.929	
11,625.0	11,603.7	11,532.8	11,518.0	15.2	18.7	177.29	276.4	298.6	316.5	285.5	30.95	10.224	
11,650.0	11,626.9	11,550.0	11,534.9	15.2	18.7	177.29	279.7	298.6	329.9	298.8	31.10	10.607	
11,675.0	11,649.6	11,557.1	11,541.8	15.2	18.7	177.23	281.2	298.6	344.9	313.3	31.53	10.938	
11,700.0	11,671.7	11,567.9	11,552.3	15.2	18.7	177.17	283.8	298.6	361.3	329.5	31.83	11.352	
11,725.0	11,693.2	11,575.0	11,559.2	15.3	18.7	177.07	285.5	298.5	379.2	347.0	32.22	11.768	
11,750.0	11,714.0	11,586.7	11,570.5	15.3	18.7	176.99	288.7	298.5	398.2	365.8	32.42	12.283	
11,775.0	11,734.0	11,600.0	11,583.2	15.3	18.7	176.91	292.6	298.5	418.4	385.8	32.53	12.862	
11,800.0	11,753.2	11,600.0	11,583.2	15.3	18.7	176.65	292.6	298.5	439.4	406.4	33.02	13.307	
11,825.0	11,771.6	11,607.9	11,590.7	15.3	18.7	176.43	295.2	298.5	461.3	428.1	33.21	13.892	
11,850.0	11,789.0	11,613.2	11,595.7	15.3	18.7	176.10	296.9	298.4	484.0	450.5	33.43	14.478	
11,875.0	11,805.5	11,617.7	11,599.9	15.3	18.7	175.64	298.4	298.4	507.2	473.6	33.63	15.085	
11,900.0	11,821.0	11,625.0	11,606.7	15.4	18.7	175.09	301.0	298.4	531.0	497.4	33.69	15.762	
11,925.0	11,835.4	11,625.0	11,606.7	15.4	18.7	174.01	301.0	298.4	555.2	521.3	33.93	16.365	
11,950.0	11,848.8	11,625.0	11,606.7	15.4	18.7	172.19	301.0	298.4	579.7	545.6	34.11	16.994	
11,975.0	11,861.0	11,625.0	11,606.7	15.5	18.7	168.53	301.0	298.4	604.5	570.2	34.25	17.648	
12,000.0	11,872.1	11,625.0	11,606.7	15.5	18.7	157.81	301.0	298.4	629.4	595.1	34.35	18.323	
12,025.0	11,881.9	11,625.0	11,606.7	15.5	18.7	82.42	301.0	298.4	654.4	620.0	34.41	19.018	
12,050.0	11,890.6	11,625.0	11,606.7	15.6	18.7	19.54	301.0	298.4	679.4	644.9	34.43	19.730	
12,075.0	11,898.0	11,625.0	11,606.7	15.6	18.7	10.13	301.0	298.4	704.3	669.9	34.42	20.459	
12,100.0	11,904.2	11,625.0	11,606.7	15.7	18.7	6.74	301.0	298.4	729.1	694.7	34.39	21.203	
12,125.0	11,909.0	11,625.0	11,606.7	15.7	18.7	5.01	301.0	298.4	753.7	719.4	34.32	21.960	
12,150.0	11,912.6	11,625.0	11,606.7	15.8	18.7	3.97	301.0	298.4	778.1	743.9	34.23	22.728	
12,175.0	11,914.9	11,625.0	11,606.7	15.8	18.7	3.27	301.0	298.4	802.2	768.1	34.13	23.507	
12,200.0	11,915.9	11,625.0	11,606.7	15.9	18.7	2.78	301.0	298.4	826.0	792.0	34.00	24.295	
12,206.4	11,916.0	11,625.0	11,606.7	15.9	18.7	2.67	301.0	298.4	832.0	798.1	33.96	24.498	
12,300.0	11,916.0	11,600.0	11,583.2	16.1	18.7	2.46	292.6	298.5	920.3	886.3	33.95	27.111	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	9.48	217.2	36.2	222.2					
100.0	100.0	70.0	70.0	3.0	3.1	9.48	217.2	36.2	220.2	213.1	7.09	31.061		
200.0	200.0	170.0	170.0	3.2	3.2	9.48	217.2	36.2	220.2	212.8	7.36	29.926		
300.0	300.0	270.0	270.0	3.3	3.3	9.48	217.2	36.2	220.2	212.6	7.61	28.953		
400.0	400.0	370.0	370.0	3.4	3.5	9.48	217.2	36.2	220.2	212.3	7.85	28.052		
500.0	500.0	470.0	470.0	3.5	3.6	9.48	217.2	36.2	220.2	212.1	8.09	27.213		
600.0	600.0	570.0	570.0	3.7	3.7	9.48	217.2	36.2	220.2	211.9	8.33	26.427		
700.0	700.0	670.0	670.0	3.8	3.8	9.48	217.2	36.2	220.2	211.6	8.57	25.690		
800.0	800.0	770.0	770.0	3.9	3.9	9.48	217.2	36.2	220.2	211.4	8.81	24.997		
900.0	900.0	870.0	870.0	4.0	4.1	9.48	217.2	36.2	220.2	211.1	9.05	24.343		
1,000.0	1,000.0	970.0	970.0	4.2	4.2	9.48	217.2	36.2	220.2	210.9	9.28	23.725		
1,100.0	1,100.0	1,070.0	1,070.0	4.3	4.3	9.48	217.2	36.2	220.2	210.7	9.52	23.140		
1,200.0	1,200.0	1,170.0	1,170.0	4.4	4.4	9.48	217.2	36.2	220.2	210.4	9.75	22.586		
1,300.0	1,300.0	1,270.0	1,270.0	4.5	4.5	9.48	217.2	36.2	220.2	210.2	9.98	22.059		
1,400.0	1,400.0	1,370.0	1,370.0	4.6	4.7	9.48	217.2	36.2	220.2	210.0	10.21	21.558		
1,500.0	1,500.0	1,470.0	1,470.0	4.8	4.8	9.48	217.2	36.2	220.2	209.7	10.45	21.080		
1,574.3	1,574.3	1,543.4	1,543.4	4.8	4.9	-81.69	217.2	36.6	220.1	209.7	10.46	21.036 CC		
1,600.0	1,600.0	1,568.7	1,568.7	4.8	4.9	-81.76	217.3	37.1	220.1	209.6	10.52	20.936		
1,700.0	1,699.8	1,666.8	1,666.7	5.0	5.0	-82.06	217.6	41.1	220.4	209.6	10.80	20.411 ES		
1,800.0	1,799.5	1,765.0	1,764.7	5.2	5.2	-82.39	218.3	48.5	221.0	209.9	11.09	19.923		
1,850.0	1,849.1	1,814.1	1,813.5	5.2	5.3	-82.56	218.7	53.4	221.5	210.3	11.20	19.775		
1,900.0	1,898.8	1,863.3	1,862.3	5.2	5.5	-82.63	219.2	59.2	222.0	210.7	11.30	19.642		
2,000.0	1,998.0	1,961.4	1,959.4	5.4	5.8	-82.16	220.4	73.2	223.8	212.2	11.60	19.293		
2,100.0	2,097.3	2,060.6	2,057.1	5.6	6.1	-81.01	221.9	90.1	226.3	214.4	11.90	19.012		
2,200.0	2,196.5	2,160.4	2,155.5	5.7	6.3	-79.81	223.4	107.4	228.9	216.7	12.21	18.747		
2,300.0	2,295.8	2,260.3	2,253.8	5.9	6.6	-78.64	224.9	124.6	231.7	219.2	12.53	18.493		
2,400.0	2,395.0	2,360.1	2,352.1	6.1	7.0	-77.50	226.4	141.9	234.5	221.7	12.85	18.247		
2,500.0	2,494.3	2,460.0	2,450.5	6.2	7.3	-76.38	227.9	159.2	237.5	224.3	13.19	18.009		
2,600.0	2,593.5	2,559.8	2,548.8	6.4	7.6	-75.30	229.5	176.5	240.5	227.0	13.53	17.776		
2,700.0	2,692.8	2,659.7	2,647.1	6.6	8.0	-74.24	231.0	193.7	243.6	229.7	13.88	17.549		
2,800.0	2,792.0	2,759.5	2,745.5	6.7	8.3	-73.20	232.5	211.0	246.8	232.5	14.24	17.326		
2,900.0	2,891.3	2,859.4	2,843.8	6.9	8.7	-72.20	234.0	228.3	250.0	235.4	14.62	17.107		
3,000.0	2,990.6	2,959.2	2,942.1	7.1	9.1	-71.22	235.5	245.5	253.4	238.4	15.00	16.892		
3,100.0	3,089.8	3,059.1	3,040.5	7.2	9.5	-70.26	237.0	262.8	256.8	241.4	15.39	16.680		
3,200.0	3,189.1	3,158.9	3,138.8	7.4	9.9	-69.33	238.5	280.1	260.3	244.5	15.80	16.473		
3,300.0	3,288.3	3,258.8	3,237.1	7.6	10.3	-68.43	240.0	297.4	263.8	247.6	16.22	16.268		
3,400.0	3,387.6	3,358.6	3,335.5	7.8	10.7	-67.55	241.5	314.6	267.4	250.8	16.64	16.068		
3,500.0	3,486.8	3,458.5	3,433.8	7.9	11.1	-66.69	243.1	331.9	271.1	254.0	17.08	15.871		
3,600.0	3,586.1	3,558.3	3,532.1	8.1	11.5	-65.86	244.6	349.2	274.8	257.3	17.53	15.678		
3,700.0	3,685.3	3,658.2	3,630.5	8.3	11.9	-65.05	246.1	366.5	278.6	260.6	17.99	15.488		
3,800.0	3,784.6	3,758.0	3,728.8	8.5	12.3	-64.26	247.6	383.7	282.5	264.0	18.46	15.303		
3,896.1	3,880.0	3,854.0	3,823.3	8.6	12.7	-63.52	249.0	400.3	286.2	267.3	18.91	15.132		
3,900.0	3,883.8	3,857.9	3,827.1	8.6	12.7	-63.49	249.1	401.0	286.4	267.4	18.93	15.128		
4,000.0	3,983.2	3,957.7	3,925.4	9.0	13.2	-62.62	250.6	418.3	290.7	271.2	19.58	14.851		
4,100.0	4,082.8	4,057.4	4,023.6	9.1	13.6	-61.48	252.1	435.5	296.0	275.9	20.11	14.718		
4,200.0	4,182.5	4,156.9	4,121.6	9.3	14.0	-60.11	253.6	452.7	302.3	281.6	20.69	14.612		
4,300.0	4,282.3	4,256.2	4,219.4	9.5	14.4	-58.54	255.1	469.9	309.6	288.3	21.30	14.535		
4,400.0	4,382.2	4,355.4	4,317.1	9.6	14.8	-56.79	256.6	487.1	318.2	296.2	21.96	14.490		
4,500.0	4,482.1	4,454.3	4,414.4	9.8	15.3	-54.90	258.1	504.2	328.0	305.4	22.65	14.482		
4,596.1	4,578.3	4,549.1	4,507.8	9.9	15.7	-38.02	259.6	520.6	338.8	315.5	23.33	14.523		
4,600.0	4,582.1	4,552.9	4,511.6	9.9	15.7	-38.10	259.6	521.2	339.3	315.9	23.36	14.527		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,700.0	4,682.1	4,651.7	4,608.9	10.1	16.1	40.16	261.1	538.3	351.5	327.3	24.17	14.544	
4,800.0	4,782.1	4,752.6	4,708.3	10.2	16.5	42.05	262.6	555.2	363.6	338.8	24.86	14.627	
4,900.0	4,882.1	4,853.8	4,808.2	10.2	17.0	43.74	264.0	571.2	375.5	350.0	25.55	14.696	
5,000.0	4,982.1	4,955.2	4,908.5	10.3	17.4	45.24	265.3	586.4	387.0	360.8	26.23	14.756	
5,100.0	5,082.1	5,056.9	5,009.2	10.4	17.8	46.57	266.6	600.8	398.1	371.2	26.88	14.806	
5,200.0	5,182.1	5,158.9	5,110.2	10.5	18.3	47.76	267.8	614.3	408.6	381.1	27.52	14.845	
5,300.0	5,282.1	5,261.1	5,211.6	10.5	18.7	48.81	268.9	626.9	418.5	390.4	28.15	14.871	
5,400.0	5,382.1	5,363.5	5,313.4	10.6	19.1	49.75	269.9	638.6	427.9	399.2	28.75	14.884	
5,500.0	5,482.1	5,466.1	5,415.4	10.7	19.5	50.58	270.8	649.5	436.7	407.3	29.34	14.884	
5,600.0	5,582.1	5,568.9	5,517.7	10.7	19.9	51.31	271.7	659.5	444.7	414.8	29.90	14.872	
5,700.0	5,682.1	5,671.9	5,620.3	10.8	20.3	51.95	272.5	668.5	452.1	421.7	30.45	14.846	
5,800.0	5,782.1	5,775.0	5,723.1	10.9	20.7	52.51	273.2	676.7	458.8	427.8	30.98	14.808	
5,900.0	5,882.1	5,878.3	5,826.1	11.0	21.1	52.99	273.9	683.9	464.8	433.3	31.49	14.757	
6,000.0	5,982.1	5,981.7	5,929.3	11.0	21.4	53.40	274.4	690.3	470.0	438.0	31.98	14.695	
6,100.0	6,082.1	6,085.2	6,032.7	11.1	21.8	53.75	274.9	695.7	474.5	442.0	32.45	14.622	
6,200.0	6,182.1	6,188.8	6,136.2	11.2	22.1	54.03	275.3	700.1	478.2	445.3	32.89	14.539	
6,300.0	6,282.1	6,292.4	6,239.8	11.3	22.4	54.24	275.6	703.7	481.1	447.8	33.30	14.447	
6,400.0	6,382.1	6,396.2	6,343.5	11.3	22.7	54.40	275.8	706.3	483.3	449.6	33.68	14.348	
6,500.0	6,482.1	6,499.9	6,447.2	11.4	23.0	54.51	276.0	708.0	484.7	450.7	34.03	14.245	
6,600.0	6,582.1	6,603.7	6,551.0	11.5	23.2	54.55	276.0	708.7	485.3	451.0	34.30	14.148	
6,700.0	6,682.1	6,704.8	6,652.1	11.6	23.3	54.55	276.0	708.8	485.4	451.0	34.40	14.111	
6,800.0	6,782.1	6,804.8	6,752.1	11.6	23.3	54.55	276.0	708.8	485.4	450.9	34.49	14.071	
6,900.0	6,882.1	6,904.8	6,852.1	11.7	23.4	54.55	276.0	708.8	485.4	450.8	34.59	14.031	
7,000.0	6,982.1	7,004.8	6,952.1	11.8	23.4	54.55	276.0	708.8	485.4	450.7	34.69	13.991	
7,100.0	7,082.1	7,104.8	7,052.1	11.9	23.4	54.55	276.0	708.8	485.4	450.6	34.79	13.951	
7,200.0	7,182.1	7,204.8	7,152.1	11.9	23.5	54.55	276.0	708.8	485.4	450.5	34.89	13.912	
7,300.0	7,282.1	7,304.8	7,252.1	12.0	23.5	54.55	276.0	708.8	485.4	450.4	34.99	13.872	
7,400.0	7,382.1	7,404.8	7,352.1	12.1	23.5	54.55	276.0	708.8	485.4	450.3	35.09	13.832	
7,500.0	7,482.1	7,504.8	7,452.1	12.2	23.6	54.55	276.0	708.8	485.4	450.2	35.19	13.793	
7,600.0	7,582.1	7,604.8	7,552.1	12.2	23.6	54.55	276.0	708.8	485.4	450.1	35.29	13.753	
7,700.0	7,682.1	7,704.8	7,652.1	12.3	23.6	54.55	276.0	708.8	485.4	450.0	35.39	13.714	
7,800.0	7,782.1	7,804.8	7,752.1	12.4	23.7	54.55	276.0	708.8	485.4	449.9	35.50	13.674	
7,900.0	7,882.1	7,904.8	7,852.1	12.5	23.7	54.55	276.0	708.8	485.4	449.8	35.60	13.635	
8,000.0	7,982.1	8,004.8	7,952.1	12.6	23.7	54.55	276.0	708.8	485.4	449.7	35.70	13.595	
8,100.0	8,082.1	8,104.8	8,052.1	12.6	23.8	54.55	276.0	708.8	485.4	449.6	35.80	13.556	
8,200.0	8,182.1	8,204.8	8,152.1	12.7	23.8	54.55	276.0	708.8	485.4	449.5	35.91	13.517	
8,300.0	8,282.1	8,304.8	8,252.1	12.8	23.8	54.55	276.0	708.8	485.4	449.4	36.01	13.478	
8,400.0	8,382.1	8,404.8	8,352.1	12.9	23.9	54.55	276.0	708.8	485.4	449.3	36.12	13.439	
8,500.0	8,482.1	8,504.8	8,452.1	12.9	23.9	54.55	276.0	708.8	485.4	449.2	36.22	13.400	
8,600.0	8,582.1	8,604.8	8,552.1	13.0	24.0	54.55	276.0	708.8	485.4	449.0	36.33	13.361	
8,700.0	8,682.1	8,704.8	8,652.1	13.1	24.0	54.55	276.0	708.8	485.4	448.9	36.43	13.322	
8,800.0	8,782.1	8,804.8	8,752.1	13.2	24.0	54.55	276.0	708.8	485.4	448.8	36.54	13.283	
8,900.0	8,882.1	8,904.8	8,852.1	13.2	24.1	54.55	276.0	708.8	485.4	448.7	36.65	13.244	
9,000.0	8,982.1	9,004.8	8,952.1	13.3	24.1	54.55	276.0	708.8	485.4	448.6	36.75	13.206	
9,100.0	9,082.1	9,104.8	9,052.1	13.4	24.1	54.55	276.0	708.8	485.4	448.5	36.86	13.167	
9,200.0	9,182.1	9,204.8	9,152.1	13.5	24.2	54.55	276.0	708.8	485.4	448.4	36.97	13.129	
9,300.0	9,282.1	9,304.8	9,252.1	13.5	24.2	54.55	276.0	708.8	485.4	448.3	37.08	13.090	
9,400.0	9,382.1	9,404.8	9,352.1	13.6	24.3	54.55	276.0	708.8	485.4	448.2	37.19	13.052	
9,500.0	9,482.1	9,504.8	9,452.1	13.7	24.3	54.55	276.0	708.8	485.4	448.1	37.30	13.014	
9,600.0	9,582.1	9,604.8	9,552.1	13.8	24.3	54.55	276.0	708.8	485.4	448.0	37.41	12.976	
9,700.0	9,682.1	9,704.8	9,652.1	13.9	24.4	54.55	276.0	708.8	485.4	447.9	37.52	12.938	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - 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		No-Go		Separation	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	Warning
9,800.0	9,782.1	9,804.8	9,752.1	13.9	24.4	54.55	276.0	708.8	485.4	447.7	37.63	12.900	
9,900.0	9,882.1	9,904.8	9,852.1	14.0	24.5	54.55	276.0	708.8	485.4	447.6	37.74	12.862	
10,000.0	9,982.1	10,004.8	9,952.1	14.1	24.5	54.55	276.0	708.8	485.4	447.5	37.85	12.824	
10,100.0	10,082.1	10,104.8	10,052.1	14.2	24.5	54.55	276.0	708.8	485.4	447.4	37.96	12.786	
10,200.0	10,182.1	10,204.8	10,152.1	14.2	24.6	54.55	276.0	708.8	485.4	447.3	38.07	12.749	
10,300.0	10,282.1	10,304.8	10,252.1	14.3	24.6	54.55	276.0	708.8	485.4	447.2	38.18	12.711	
10,400.0	10,382.1	10,404.8	10,352.1	14.4	24.7	54.55	276.0	708.8	485.4	447.1	38.30	12.674	
10,500.0	10,482.1	10,504.8	10,452.1	14.5	24.7	54.55	276.0	708.8	485.4	447.0	38.41	12.637	
10,600.0	10,582.1	10,604.8	10,552.1	14.6	24.7	54.55	276.0	708.8	485.4	446.9	38.52	12.600	
10,700.0	10,682.1	10,704.8	10,652.1	14.6	24.8	54.55	276.0	708.8	485.4	446.7	38.64	12.563	
10,800.0	10,782.1	10,804.8	10,752.1	14.7	24.8	54.55	276.0	708.8	485.4	446.6	38.75	12.526	
10,900.0	10,882.1	10,904.8	10,852.1	14.8	24.9	54.55	276.0	708.8	485.4	446.5	38.86	12.489	
11,000.0	10,982.1	11,004.8	10,952.1	14.9	24.9	54.55	276.0	708.8	485.4	446.4	38.98	12.452	
11,100.0	11,082.1	11,104.8	11,052.1	14.9	24.9	54.55	276.0	708.8	485.4	446.3	39.09	12.415	
11,200.0	11,182.1	11,204.8	11,152.1	15.0	25.0	54.55	276.0	708.8	485.4	446.2	39.21	12.379	
11,300.0	11,282.1	11,304.8	11,252.1	15.1	25.0	54.55	276.0	708.8	485.4	446.0	39.32	12.343 SF	
11,400.0	11,382.1	11,375.0	11,322.1	15.2	25.0	54.18	279.9	708.7	488.5	449.1	39.44	12.387	
11,456.4	11,438.5	11,406.0	11,352.7	15.2	25.0	53.71	284.8	708.7	493.6	454.0	39.60	12.464	
11,475.0	11,457.1	11,417.2	11,363.7	15.2	25.0	-125.92	287.1	708.7	496.1	456.4	39.68	12.502	
11,500.0	11,482.1	11,431.9	11,378.0	15.2	25.0	-125.89	290.5	708.6	500.5	460.7	39.73	12.598	
11,525.0	11,506.9	11,450.0	11,395.5	15.2	25.0	-125.97	295.2	708.6	506.2	466.5	39.70	12.749	
11,550.0	11,531.5	11,459.5	11,404.5	15.2	25.0	-125.68	297.9	708.6	513.1	473.3	39.79	12.895	
11,575.0	11,555.9	11,475.0	11,419.3	15.2	25.0	-125.60	302.8	708.5	521.3	481.5	39.76	13.110	
11,600.0	11,580.0	11,484.0	11,427.7	15.2	25.0	-125.11	305.9	708.5	530.8	490.9	39.83	13.325	
11,625.0	11,603.7	11,500.0	11,442.7	15.2	25.0	-124.95	311.7	708.5	541.5	501.8	39.76	13.621	
11,650.0	11,626.9	11,500.0	11,442.7	15.2	25.0	-123.60	311.7	708.5	553.5	513.5	39.96	13.850	
11,675.0	11,649.6	11,514.2	11,455.7	15.2	25.1	-123.10	317.3	708.4	566.6	526.7	39.89	14.205	
11,700.0	11,671.7	11,525.0	11,465.5	15.2	25.1	-122.23	321.8	708.4	580.8	541.0	39.85	14.575	
11,725.0	11,693.2	11,525.0	11,465.5	15.3	25.1	-120.24	321.8	708.4	596.2	556.1	40.01	14.899	
11,750.0	11,714.0	11,536.1	11,475.5	15.3	25.1	-119.03	326.6	708.3	612.4	572.5	39.93	15.336	
11,775.0	11,734.0	11,541.6	11,480.4	15.3	25.1	-117.07	329.2	708.3	629.6	589.7	39.95	15.762	
11,800.0	11,753.2	11,550.0	11,487.8	15.3	25.1	-115.16	333.1	708.3	647.7	607.8	39.88	16.240	
11,825.0	11,771.6	11,550.0	11,487.8	15.3	25.1	-112.03	333.1	708.3	666.5	626.5	39.97	16.676	
11,850.0	11,789.0	11,550.0	11,487.8	15.3	25.1	-108.53	333.1	708.3	686.0	646.0	40.03	17.136	
11,875.0	11,805.5	11,550.0	11,487.8	15.3	25.1	-104.65	333.1	708.3	706.1	666.0	40.07	17.621	
11,900.0	11,821.0	11,557.6	11,494.5	15.4	25.1	-101.46	336.7	708.2	726.5	686.6	39.94	18.191	
11,925.0	11,835.4	11,558.8	11,495.5	15.4	25.1	-97.08	337.3	708.2	747.5	707.6	39.91	18.728	
11,950.0	11,848.8	11,559.3	11,496.0	15.4	25.1	-92.32	337.6	708.2	768.8	728.9	39.88	19.277	
11,975.0	11,861.0	11,559.3	11,496.0	15.5	25.1	-87.25	337.5	708.2	790.3	750.4	39.83	19.839	
12,000.0	11,872.1	11,558.7	11,495.5	15.5	25.1	-81.97	337.3	708.2	811.9	772.2	39.78	20.411	
12,025.0	11,881.9	11,557.7	11,494.6	15.5	25.1	-76.61	336.8	708.2	833.7	794.0	39.71	20.993	
12,050.0	11,890.6	11,550.0	11,487.8	15.6	25.1	-70.49	333.1	708.3	855.6	815.8	39.75	21.527	
12,075.0	11,898.0	11,550.0	11,487.8	15.6	25.1	-65.60	333.1	708.3	877.3	837.7	39.62	22.142	
12,100.0	11,904.2	11,550.0	11,487.8	15.7	25.1	-60.97	333.1	708.3	899.0	859.5	39.48	22.768	
12,125.0	11,909.0	11,550.0	11,487.8	15.7	25.1	-56.65	333.1	708.3	920.4	881.1	39.33	23.403	
12,150.0	11,912.6	11,550.0	11,487.8	15.8	25.1	-52.66	333.1	708.3	941.8	902.6	39.16	24.047	
12,175.0	11,914.9	11,550.0	11,487.8	15.8	25.1	-49.02	333.1	708.3	962.8	923.8	38.98	24.698	
12,200.0	11,915.9	11,539.1	11,478.2	15.9	25.1	-45.00	328.0	708.3	983.4	944.5	38.96	25.242	
12,206.4	11,916.0	11,538.1	11,477.3	15.9	25.1	-44.17	327.5	708.3	988.7	949.7	38.92	25.400	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 751H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-56.23	116.9	-174.8	210.2					
100.0	100.0	99.0	99.0	3.0	3.0	-56.32	116.7	-175.1	210.5	203.7	6.83	30.817		
200.0	200.0	198.6	198.6	3.2	3.1	-56.47	116.5	-175.9	211.0	204.0	6.98	30.233		
300.0	300.0	298.1	298.1	3.3	3.1	-56.64	116.4	-176.9	211.8	204.7	7.13	29.711		
400.0	400.0	398.0	398.0	3.4	3.1	-56.89	116.2	-178.2	212.8	205.5	7.28	29.232		
500.0	500.0	498.4	498.3	3.5	3.2	-57.21	115.7	-179.6	213.7	206.3	7.43	28.761		
600.0	600.0	599.2	599.2	3.7	3.2	-57.74	114.4	-181.2	214.3	206.7	7.57	28.296		
700.0	700.0	701.2	701.1	3.8	3.3	-58.33	112.5	-182.4	214.3	206.6	7.71	27.795		
800.0	800.0	802.2	802.2	3.9	3.3	-58.51	111.6	-182.1	213.6	205.7	7.83	27.271		
900.0	900.0	902.3	902.2	4.0	3.3	-58.62	110.7	-181.4	212.5	204.6	7.95	26.727		
1,000.0	1,000.0	1,002.9	1,002.8	4.2	3.4	-58.72	109.7	-180.6	211.3	203.3	8.08	26.168		
1,100.0	1,100.0	1,103.9	1,103.8	4.3	3.4	-58.95	108.2	-179.8	209.9	201.7	8.20	25.582		
1,200.0	1,200.0	1,205.4	1,205.3	4.4	3.5	-59.54	105.3	-179.0	207.8	199.4	8.33	24.937		
1,300.0	1,300.0	1,305.0	1,304.8	4.5	3.5	-60.40	101.4	-178.4	205.2	196.8	8.46	24.263		
1,326.7	1,326.7	1,327.0	1,326.8	4.5	3.5	-60.54	100.7	-178.2	204.7	196.2	8.49	24.101 CC, ES, SF		
1,400.0	1,400.0	1,327.0	1,326.8	4.6	3.5	-60.54	100.7	-178.2	217.4	209.1	8.35	26.048		
1,500.0	1,500.0	1,327.0	1,326.8	4.8	3.5	-60.54	100.7	-178.2	268.2	260.4	7.81	34.350		
1,600.0	1,600.0	1,327.0	1,326.8	4.8	3.5	-150.45	100.7	-178.2	342.3	334.9	7.44	46.007		
1,700.0	1,699.8	1,327.0	1,326.8	5.0	3.5	-148.71	100.7	-178.2	428.5	421.3	7.27	58.921		
1,800.0	1,799.5	1,327.0	1,326.8	5.2	3.5	-146.11	100.7	-178.2	520.8	513.6	7.20	72.293		
1,850.0	1,849.1	1,327.0	1,326.8	5.2	3.5	-144.38	100.7	-178.2	568.3	561.1	7.19	79.056		
1,900.0	1,898.8	1,327.0	1,326.8	5.2	3.5	-144.38	100.7	-178.2	616.2	609.0	7.18	85.839		
2,000.0	1,998.0	1,327.0	1,326.8	5.4	3.5	-144.38	100.7	-178.2	713.0	705.8	7.19	99.143		
2,100.0	2,097.3	1,327.0	1,326.8	5.6	3.5	-144.38	100.7	-178.2	810.5	803.3	7.23	112.109		
2,200.0	2,196.5	1,327.0	1,326.8	5.7	3.5	-144.38	100.7	-178.2	908.6	901.3	7.29	124.697		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 751H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11379-r.5 MWD+IFR1+SAG+FDIR							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-56.23	116.9	-174.8	210.2					
100.0	100.0	100.0	100.0	3.0	3.0	-56.23	116.9	-174.8	210.2	203.2	7.07	29.725		
200.0	200.0	200.0	200.0	3.2	3.2	-56.23	116.9	-174.8	210.2	202.9	7.32	28.738		
300.0	300.0	300.0	300.0	3.3	3.3	-56.23	116.9	-174.8	210.2	202.7	7.55	27.839		
400.0	400.0	400.0	400.0	3.4	3.4	-56.23	116.9	-174.8	210.2	202.5	7.78	27.016		
500.0	500.0	500.0	500.0	3.5	3.5	-56.23	116.9	-174.8	210.2	202.2	8.01	26.258		
600.0	600.0	600.0	600.0	3.7	3.7	-56.23	116.9	-174.8	210.2	202.0	8.23	25.557		
700.0	700.0	700.0	700.0	3.8	3.8	-56.23	116.9	-174.8	210.2	201.8	8.44	24.905		
800.0	800.0	800.0	800.0	3.9	3.9	-56.23	116.9	-174.8	210.2	201.6	8.65	24.298		
900.0	900.0	900.0	900.0	4.0	4.0	-56.23	116.9	-174.8	210.2	201.4	8.86	23.729		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.23	116.9	-174.8	210.2	201.2	9.06	23.196		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.23	116.9	-174.8	210.2	201.0	9.26	22.694		
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-56.23	116.9	-174.8	210.2	200.8	9.46	22.220		
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-56.23	116.9	-174.8	210.2	200.6	9.66	21.772		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-56.23	116.9	-174.8	210.2	200.4	9.85	21.347		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.23	116.9	-174.8	210.2	200.2	10.04	20.943 CC, ES		
1,600.0	1,600.0	1,598.2	1,598.2	4.8	4.9	-147.91	115.7	-176.0	212.1	202.0	10.15	20.891		
1,700.0	1,699.8	1,695.9	1,695.7	5.0	5.1	-149.84	112.3	-179.7	217.9	207.4	10.53	20.703 SF		
1,800.0	1,799.5	1,792.3	1,791.8	5.2	5.3	-152.80	106.7	-185.7	228.1	217.2	10.90	20.930		
1,850.0	1,849.1	1,840.0	1,839.2	5.2	5.4	-154.57	103.1	-189.5	235.1	224.1	11.02	21.340		
1,900.0	1,898.8	1,887.2	1,886.0	5.2	5.5	-156.49	99.0	-193.9	243.0	231.9	11.13	21.833		
2,000.0	1,998.0	1,980.5	1,978.2	5.4	5.8	-160.40	89.4	-204.2	260.7	249.2	11.44	22.784		
2,100.0	2,097.3	2,072.2	2,068.4	5.6	6.0	-164.30	78.0	-216.4	281.1	269.3	11.76	23.900		
2,200.0	2,196.5	2,162.3	2,156.4	5.7	6.2	-168.09	64.9	-230.5	304.5	292.4	12.09	25.190		
2,300.0	2,295.8	2,254.2	2,245.6	5.9	6.3	-171.77	49.9	-246.6	330.6	318.2	12.42	26.626		
2,400.0	2,395.0	2,348.4	2,337.0	6.1	6.5	-175.04	34.3	-263.3	358.2	345.4	12.75	28.088		
2,500.0	2,494.3	2,442.6	2,428.4	6.2	6.6	-177.85	18.8	-279.9	386.7	373.6	13.09	29.542		
2,600.0	2,593.5	2,536.7	2,519.8	6.4	6.8	179.72	3.3	-296.6	416.0	402.5	13.43	30.975		
2,700.0	2,692.8	2,630.9	2,611.2	6.6	6.9	177.61	-12.3	-313.3	445.8	432.1	13.77	32.378		
2,800.0	2,792.0	2,725.1	2,702.6	6.7	7.1	175.75	-27.8	-329.9	476.2	462.1	14.11	33.744		
2,900.0	2,891.3	2,819.3	2,794.0	6.9	7.3	174.12	-43.4	-346.6	507.0	492.5	14.46	35.069		
3,000.0	2,990.6	2,913.5	2,885.3	7.1	7.4	172.67	-58.9	-363.3	538.1	523.3	14.80	36.352		
3,100.0	3,089.8	3,007.7	2,976.7	7.2	7.6	171.37	-74.4	-379.9	569.5	554.4	15.15	37.590		
3,200.0	3,189.1	3,101.8	3,068.1	7.4	7.7	170.21	-90.0	-396.6	601.1	585.6	15.50	38.784		
3,300.0	3,288.3	3,196.0	3,159.5	7.6	7.9	169.17	-105.5	-413.2	633.0	617.1	15.85	39.934		
3,400.0	3,387.6	3,290.2	3,250.9	7.8	8.1	168.22	-121.1	-429.9	665.0	648.8	16.20	41.041		
3,500.0	3,486.8	3,384.4	3,342.3	7.9	8.3	167.36	-136.6	-446.6	697.2	680.6	16.56	42.106		
3,600.0	3,586.1	3,478.6	3,433.7	8.1	8.4	166.58	-152.1	-463.2	729.5	712.5	16.91	43.130		
3,700.0	3,685.3	3,572.8	3,525.1	8.3	8.6	165.86	-167.7	-479.9	761.9	744.6	17.27	44.115		
3,800.0	3,784.6	3,667.0	3,616.4	8.5	8.8	165.20	-183.2	-496.6	794.4	776.7	17.63	45.062		
3,896.1	3,880.0	3,757.5	3,704.3	8.6	9.0	164.62	-198.1	-512.6	825.7	807.7	17.97	45.948		
3,900.0	3,883.8	3,761.1	3,707.8	8.6	9.0	164.60	-198.8	-513.2	827.0	809.0	17.98	45.990		
4,000.0	3,983.2	3,855.6	3,799.5	9.0	9.2	164.11	-214.3	-529.9	858.8	840.3	18.48	46.472		
4,100.0	4,082.8	3,950.5	3,891.6	9.1	9.3	163.62	-230.0	-546.7	889.1	870.2	18.83	47.206		
4,200.0	4,182.5	4,045.9	3,984.1	9.3	9.5	163.14	-245.7	-563.6	917.9	898.7	19.19	47.835		
4,300.0	4,282.3	4,141.7	4,077.1	9.5	9.7	162.66	-261.5	-580.6	945.1	925.6	19.54	48.368		
4,400.0	4,382.2	4,237.9	4,170.4	9.6	9.9	162.17	-277.4	-597.6	970.9	951.0	19.89	48.815		
4,500.0	4,482.1	4,334.5	4,264.1	9.8	10.1	161.68	-293.3	-614.7	995.1	974.8	20.23	49.184		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 752H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-56.25	100.1	-149.8	180.2					
100.0	100.0	99.9	99.9	3.0	3.0	-56.17	100.3	-149.7	180.2	173.4	6.83	26.383		
200.0	200.0	199.3	199.3	3.2	3.1	-56.01	101.0	-149.7	180.6	173.6	6.98	25.882		
300.0	300.0	300.1	300.1	3.3	3.1	-55.79	101.5	-149.4	180.6	173.5	7.12	25.359		
400.0	400.0	401.2	401.1	3.4	3.1	-55.51	101.9	-148.3	180.0	172.7	7.26	24.777		
500.0	500.0	501.9	501.9	3.5	3.2	-55.37	101.9	-147.6	179.3	171.9	7.41	24.217		
600.0	600.0	602.4	602.3	3.7	3.2	-55.71	100.5	-147.3	178.3	170.8	7.55	23.620		
700.0	700.0	702.3	702.2	3.8	3.2	-56.29	98.1	-147.1	176.8	169.1	7.69	22.988		
788.2	788.2	788.3	788.2	3.9	3.2	-56.82	96.4	-147.5	176.2	168.4	7.81	22.552 CC		
800.0	800.0	800.0	799.9	3.9	3.2	-56.88	96.3	-147.6	176.2	168.4	7.83	22.507 ES		
900.0	900.0	898.9	898.8	4.0	3.2	-57.45	95.1	-149.0	176.7	168.8	7.96	22.208		
1,000.0	1,000.0	999.9	999.8	4.2	3.3	-58.08	93.7	-150.5	177.3	169.2	8.08	21.930		
1,100.0	1,100.0	1,100.1	1,100.0	4.3	3.3	-58.86	91.9	-152.1	177.7	169.5	8.21	21.640		
1,158.8	1,158.8	1,158.9	1,158.8	4.3	3.3	-59.20	90.9	-152.5	177.6	169.3	8.28	21.434		
1,200.0	1,200.0	1,200.1	1,199.9	4.4	3.3	-59.40	90.4	-152.9	177.6	169.3	8.34	21.308		
1,297.3	1,297.3	1,297.5	1,297.3	4.5	3.4	-60.06	88.6	-153.9	177.6	169.1	8.46	20.994		
1,300.0	1,300.0	1,300.1	1,300.0	4.5	3.4	-60.08	88.6	-153.9	177.6	169.1	8.46	20.986		
1,304.4	1,304.4	1,304.6	1,304.4	4.5	3.4	-60.11	88.5	-153.9	177.6	169.1	8.47	20.973 SF		
1,400.0	1,400.0	1,343.0	1,342.8	4.6	3.4	-60.44	87.6	-154.5	186.6	178.2	8.39	22.236		
1,500.0	1,500.0	1,343.0	1,342.8	4.8	3.4	-60.44	87.6	-154.5	237.2	229.4	7.77	30.533		
1,600.0	1,600.0	1,343.0	1,342.8	4.8	3.4	-150.27	87.6	-154.5	313.4	306.0	7.36	42.583		
1,700.0	1,699.8	1,343.0	1,342.8	5.0	3.4	-148.34	87.6	-154.5	401.5	394.3	7.19	55.843		
1,800.0	1,799.5	1,343.0	1,342.8	5.2	3.4	-145.38	87.6	-154.5	495.2	488.0	7.13	69.443		
1,850.0	1,849.1	1,343.0	1,342.8	5.2	3.4	-143.40	87.6	-154.5	543.2	536.0	7.12	76.269		
1,900.0	1,898.8	1,343.0	1,342.8	5.2	3.4	-143.40	87.6	-154.5	591.5	584.4	7.12	83.093		
2,000.0	1,998.0	1,343.0	1,342.8	5.4	3.4	-143.40	87.6	-154.5	689.0	681.9	7.14	96.473		
2,100.0	2,097.3	1,343.0	1,342.8	5.6	3.4	-143.40	87.6	-154.5	787.1	780.0	7.19	109.494		
2,200.0	2,196.5	1,343.0	1,342.8	5.7	3.4	-143.40	87.6	-154.5	885.7	878.4	7.25	122.125		
2,300.0	2,295.8	1,343.0	1,342.8	5.9	3.4	-143.40	87.6	-154.5	984.5	977.2	7.33	134.345		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 752H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11480-r.5 MWD+IFR1+SAG+FDIR													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)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-56.25	100.1	-149.8	180.2				
100.0	100.0	100.0	100.0	3.0	3.0	-56.25	100.1	-149.8	180.2	173.1	7.07	25.474	
200.0	200.0	200.0	200.0	3.2	3.2	-56.25	100.1	-149.8	180.2	172.9	7.32	24.628	
300.0	300.0	300.0	300.0	3.3	3.3	-56.25	100.1	-149.8	180.2	172.6	7.55	23.858	
400.0	400.0	400.0	400.0	3.4	3.4	-56.25	100.1	-149.8	180.2	172.4	7.78	23.153	
500.0	500.0	500.0	500.0	3.5	3.5	-56.25	100.1	-149.8	180.2	172.2	8.01	22.503	
600.0	600.0	600.0	600.0	3.7	3.7	-56.25	100.1	-149.8	180.2	172.0	8.23	21.902	
700.0	700.0	700.0	700.0	3.8	3.8	-56.25	100.1	-149.8	180.2	171.7	8.44	21.344	
800.0	800.0	800.0	800.0	3.9	3.9	-56.25	100.1	-149.8	180.2	171.5	8.65	20.823	
900.0	900.0	900.0	900.0	4.0	4.0	-56.25	100.1	-149.8	180.2	171.3	8.86	20.336	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.25	100.1	-149.8	180.2	171.1	9.06	19.879	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.25	100.1	-149.8	180.2	170.9	9.26	19.448	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-56.25	100.1	-149.8	180.2	170.7	9.46	19.042	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-56.25	100.1	-149.8	180.2	170.5	9.66	18.658	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-56.25	100.1	-149.8	180.2	170.3	9.85	18.294	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.25	100.1	-149.8	180.2	170.1	10.04	17.948 CC, ES	
1,600.0	1,600.0	1,599.0	1,599.0	4.8	4.9	-148.06	98.8	-151.0	181.9	171.8	10.15	17.923	
1,700.0	1,699.8	1,697.4	1,697.3	5.0	5.1	-150.38	95.1	-154.4	187.3	176.8	10.52	17.809	
1,800.0	1,799.5	1,794.7	1,794.2	5.2	5.4	-153.90	88.9	-159.9	197.0	186.1	10.89	18.093	
1,850.0	1,849.1	1,842.7	1,841.9	5.2	5.5	-155.98	84.9	-163.5	203.7	192.7	11.00	18.510	
1,900.0	1,898.8	1,890.3	1,889.1	5.2	5.6	-158.21	80.4	-167.6	211.3	200.2	11.12	19.010	
2,000.0	1,998.0	1,984.5	1,982.2	5.4	5.8	-162.74	69.7	-177.2	228.5	217.1	11.43	19.992	
2,100.0	2,097.3	2,080.3	2,076.6	5.6	5.9	-167.13	57.4	-188.3	247.9	236.2	11.75	21.105	
2,200.0	2,196.5	2,176.7	2,171.5	5.7	6.1	-170.91	45.0	-199.5	268.6	256.6	12.07	22.257	
2,300.0	2,295.8	2,273.1	2,266.4	5.9	6.2	-174.15	32.5	-210.7	290.3	277.9	12.40	23.421	
2,400.0	2,395.0	2,369.4	2,361.3	6.1	6.4	-176.95	20.1	-221.9	312.8	300.1	12.73	24.581	
2,500.0	2,494.3	2,465.8	2,456.2	6.2	6.5	-179.37	7.7	-233.1	335.9	322.9	13.06	25.726	
2,600.0	2,593.5	2,562.1	2,551.1	6.4	6.7	-178.52	-4.8	-244.2	359.5	346.1	13.39	26.849	
2,700.0	2,692.8	2,658.5	2,645.9	6.6	6.9	-176.66	-17.2	-255.4	383.5	369.8	13.73	27.944	
2,800.0	2,792.0	2,754.8	2,740.8	6.7	7.0	-175.02	-29.6	-266.6	407.9	393.8	14.06	29.008	
2,900.0	2,891.3	2,851.2	2,835.7	6.9	7.2	-173.57	-42.1	-277.8	432.5	418.1	14.40	30.039	
3,000.0	2,990.6	2,947.6	2,930.6	7.1	7.3	-172.27	-54.5	-289.0	457.4	442.7	14.74	31.036	
3,100.0	3,089.8	3,043.9	3,025.5	7.2	7.5	-171.11	-66.9	-300.2	482.5	467.4	15.08	31.999	
3,200.0	3,189.1	3,140.3	3,120.4	7.4	7.7	-170.06	-79.4	-311.4	507.7	492.3	15.42	32.927	
3,300.0	3,288.3	3,236.6	3,215.3	7.6	7.8	-169.11	-91.8	-322.6	533.1	517.4	15.76	33.822	
3,400.0	3,387.6	3,333.0	3,310.2	7.8	8.0	-168.24	-104.3	-333.8	558.6	542.5	16.11	34.685	
3,500.0	3,486.8	3,429.4	3,405.1	7.9	8.2	-167.45	-116.7	-345.0	584.3	567.8	16.45	35.516	
3,600.0	3,586.1	3,525.7	3,500.0	8.1	8.3	-166.73	-129.1	-356.2	610.0	593.2	16.80	36.316	
3,700.0	3,685.3	3,622.1	3,594.9	8.3	8.5	-166.06	-141.6	-367.4	635.8	618.7	17.14	37.086	
3,800.0	3,784.6	3,718.4	3,689.8	8.5	8.7	-165.45	-154.0	-378.6	661.7	644.2	17.49	37.828	
3,896.1	3,880.0	3,811.0	3,781.0	8.6	8.9	-164.90	-165.9	-389.4	686.6	668.8	17.82	38.525	
3,900.0	3,883.8	3,814.8	3,784.7	8.6	8.9	-164.88	-166.4	-389.8	687.6	669.8	17.83	38.558	
4,000.0	3,983.2	3,911.4	3,879.8	9.0	9.0	-164.40	-178.9	-401.0	712.8	694.4	18.33	38.890	
4,100.0	4,082.8	4,008.3	3,975.3	9.1	9.2	-163.92	-191.4	-412.3	736.3	717.6	18.67	39.438	
4,200.0	4,182.5	4,105.6	4,071.1	9.3	9.4	-163.43	-204.0	-423.6	758.3	739.3	19.01	39.887	
4,300.0	4,282.3	4,203.2	4,167.2	9.5	9.6	-162.93	-216.6	-434.9	778.7	759.4	19.35	40.245	
4,400.0	4,382.2	4,301.1	4,263.6	9.6	9.8	-162.42	-229.2	-446.3	797.6	777.9	19.68	40.520	
4,500.0	4,482.1	4,399.3	4,360.3	9.8	10.0	-161.89	-241.9	-457.7	814.9	794.9	20.01	40.721	
4,596.1	4,578.3	4,493.8	4,453.4	9.9	10.1	-107.63	-254.1	-468.7	830.1	809.8	20.29	40.911	
4,600.0	4,582.1	4,497.7	4,457.2	9.9	10.1	-107.66	-254.5	-469.1	830.7	810.4	20.30	40.925	
4,700.0	4,682.1	4,603.7	4,561.6	10.1	10.3	-108.28	-268.0	-481.3	845.5	824.8	20.68	40.882	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 752H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11480-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	Warning
4,800.0	4,782.1	4,717.2	4,673.8	10.2	10.5	-108.87	-281.0	-493.0	859.0	838.0	20.99	40.916	
4,900.0	4,882.1	4,831.4	4,787.0	10.2	10.7	-109.36	-292.4	-503.2	870.7	849.4	21.30	40.888	
5,000.0	4,982.1	4,946.2	4,901.1	10.3	10.9	-109.77	-302.1	-512.0	880.8	859.2	21.59	40.798	
5,100.0	5,082.1	5,061.5	5,015.8	10.4	11.1	-110.10	-310.2	-519.3	889.1	867.3	21.87	40.650	
5,200.0	5,182.1	5,177.2	5,131.2	10.5	11.3	-110.36	-316.6	-525.0	895.7	873.6	22.15	40.446	
5,300.0	5,282.1	5,293.2	5,247.0	10.5	11.5	-110.55	-321.3	-529.2	900.5	878.1	22.41	40.191	
5,400.0	5,382.1	5,409.4	5,363.1	10.6	11.7	-110.66	-324.2	-531.8	903.5	880.9	22.65	39.892	
5,500.0	5,482.1	5,525.7	5,479.4	10.7	11.8	-110.71	-325.3	-532.9	904.7	881.9	22.85	39.593	
5,600.0	5,582.1	5,628.4	5,582.1	10.7	11.9	-110.71	-325.4	-532.9	904.7	881.8	22.95	39.427	
5,700.0	5,682.1	5,728.4	5,682.1	10.8	11.9	-110.71	-325.4	-532.9	904.7	881.7	23.06	39.228	
5,800.0	5,782.1	5,828.4	5,782.1	10.9	12.0	-110.71	-325.4	-532.9	904.7	881.5	23.18	39.030	
5,900.0	5,882.1	5,928.4	5,882.1	11.0	12.0	-110.71	-325.4	-532.9	904.7	881.4	23.30	38.833	
6,000.0	5,982.1	6,028.4	5,982.1	11.0	12.1	-110.71	-325.4	-532.9	904.7	881.3	23.42	38.637	
6,100.0	6,082.1	6,128.4	6,082.1	11.1	12.1	-110.71	-325.4	-532.9	904.7	881.2	23.54	38.442	
6,200.0	6,182.1	6,228.4	6,182.1	11.2	12.1	-110.71	-325.4	-532.9	904.7	881.1	23.65	38.248	
6,300.0	6,282.1	6,328.4	6,282.1	11.3	12.2	-110.71	-325.4	-532.9	904.7	881.0	23.77	38.055	
6,400.0	6,382.1	6,428.4	6,382.1	11.3	12.2	-110.71	-325.4	-532.9	904.7	880.8	23.89	37.864	
6,500.0	6,482.1	6,528.4	6,482.1	11.4	12.3	-110.71	-325.4	-532.9	904.7	880.7	24.01	37.674	
6,600.0	6,582.1	6,628.4	6,582.1	11.5	12.3	-110.71	-325.4	-532.9	904.7	880.6	24.14	37.484	
6,700.0	6,682.1	6,728.4	6,682.1	11.6	12.4	-110.71	-325.4	-532.9	904.7	880.5	24.26	37.296	
6,800.0	6,782.1	6,828.4	6,782.1	11.6	12.4	-110.71	-325.4	-532.9	904.7	880.3	24.38	37.109	
6,900.0	6,882.1	6,928.4	6,882.1	11.7	12.5	-110.71	-325.4	-532.9	904.7	880.2	24.50	36.924	
7,000.0	6,982.1	7,028.4	6,982.1	11.8	12.5	-110.71	-325.4	-532.9	904.7	880.1	24.63	36.739	
7,100.0	7,082.1	7,128.4	7,082.1	11.9	12.6	-110.71	-325.4	-532.9	904.7	880.0	24.75	36.556	
7,200.0	7,182.1	7,228.4	7,182.1	11.9	12.6	-110.71	-325.4	-532.9	904.7	879.9	24.87	36.374	
7,300.0	7,282.1	7,328.4	7,282.1	12.0	12.7	-110.71	-325.4	-532.9	904.7	879.7	25.00	36.192	
7,400.0	7,382.1	7,428.4	7,382.1	12.1	12.7	-110.71	-325.4	-532.9	904.7	879.6	25.12	36.013	
7,500.0	7,482.1	7,528.4	7,482.1	12.2	12.8	-110.71	-325.4	-532.9	904.7	879.5	25.25	35.834	
7,600.0	7,582.1	7,628.4	7,582.1	12.2	12.9	-110.71	-325.4	-532.9	904.7	879.4	25.37	35.656	
7,700.0	7,682.1	7,728.4	7,682.1	12.3	12.9	-110.71	-325.4	-532.9	904.7	879.2	25.50	35.480	
7,800.0	7,782.1	7,828.4	7,782.1	12.4	13.0	-110.71	-325.4	-532.9	904.7	879.1	25.63	35.305	
7,900.0	7,882.1	7,928.4	7,882.1	12.5	13.0	-110.71	-325.4	-532.9	904.7	879.0	25.75	35.131	
8,000.0	7,982.1	8,028.4	7,982.1	12.6	13.1	-110.71	-325.4	-532.9	904.7	878.8	25.88	34.958	
8,100.0	8,082.1	8,128.4	8,082.1	12.6	13.1	-110.71	-325.4	-532.9	904.7	878.7	26.01	34.786	
8,200.0	8,182.1	8,228.4	8,182.1	12.7	13.2	-110.71	-325.4	-532.9	904.7	878.6	26.14	34.616	
8,300.0	8,282.1	8,328.4	8,282.1	12.8	13.2	-110.71	-325.4	-532.9	904.7	878.5	26.26	34.447	
8,400.0	8,382.1	8,428.4	8,382.1	12.9	13.3	-110.71	-325.4	-532.9	904.7	878.3	26.39	34.279	
8,500.0	8,482.1	8,528.4	8,482.1	12.9	13.3	-110.71	-325.4	-532.9	904.7	878.2	26.52	34.112	
8,600.0	8,582.1	8,628.4	8,582.1	13.0	13.4	-110.71	-325.4	-532.9	904.7	878.1	26.65	33.946	
8,700.0	8,682.1	8,728.4	8,682.1	13.1	13.5	-110.71	-325.4	-532.9	904.7	877.9	26.78	33.781	
8,800.0	8,782.1	8,828.4	8,782.1	13.2	13.5	-110.71	-325.4	-532.9	904.7	877.8	26.91	33.618	
8,900.0	8,882.1	8,928.4	8,882.1	13.2	13.6	-110.71	-325.4	-532.9	904.7	877.7	27.04	33.455	
9,000.0	8,982.1	9,028.4	8,982.1	13.3	13.6	-110.71	-325.4	-532.9	904.7	877.6	27.17	33.294	
9,100.0	9,082.1	9,128.4	9,082.1	13.4	13.7	-110.71	-325.4	-532.9	904.7	877.4	27.31	33.134	
9,200.0	9,182.1	9,228.4	9,182.1	13.5	13.7	-110.71	-325.4	-532.9	904.7	877.3	27.44	32.975	
9,300.0	9,282.1	9,328.4	9,282.1	13.5	13.8	-110.71	-325.4	-532.9	904.7	877.2	27.57	32.817	
9,400.0	9,382.1	9,428.4	9,382.1	13.6	13.9	-110.71	-325.4	-532.9	904.7	877.0	27.70	32.661	
9,500.0	9,482.1	9,528.4	9,482.1	13.7	13.9	-110.71	-325.4	-532.9	904.7	876.9	27.83	32.505	
9,600.0	9,582.1	9,628.4	9,582.1	13.8	14.0	-110.71	-325.4	-532.9	904.7	876.8	27.97	32.351	
9,700.0	9,682.1	9,728.4	9,682.1	13.9	14.0	-110.71	-325.4	-532.9	904.7	876.6	28.10	32.198	
9,800.0	9,782.1	9,828.4	9,782.1	13.9	14.1	-110.71	-325.4	-532.9	904.7	876.5	28.23	32.045	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 752H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11480-r.5 MWD+IFR1+SAG+FDIR													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)	No-Go Distance (usft)	Separation Factor	Warning
9,900.0	9,882.1	9,928.4	9,882.1	14.0	14.1	-110.71	-325.4	-532.9	904.7	876.4	28.37	31.894	
10,000.0	9,982.1	10,028.4	9,982.1	14.1	14.2	-110.71	-325.4	-532.9	904.7	876.2	28.50	31.744	
10,100.0	10,082.1	10,128.4	10,082.1	14.2	14.3	-110.71	-325.4	-532.9	904.7	876.1	28.63	31.595	
10,200.0	10,182.1	10,228.4	10,182.1	14.2	14.3	-110.71	-325.4	-532.9	904.7	876.0	28.77	31.448	
10,300.0	10,282.1	10,328.4	10,282.1	14.3	14.4	-110.71	-325.4	-532.9	904.7	875.8	28.90	31.301	
10,400.0	10,382.1	10,428.4	10,382.1	14.4	14.4	-110.71	-325.4	-532.9	904.7	875.7	29.04	31.155	
10,500.0	10,482.1	10,528.4	10,482.1	14.5	14.5	-110.71	-325.4	-532.9	904.7	875.6	29.17	31.011	
10,600.0	10,582.1	10,628.4	10,582.1	14.6	14.6	-110.71	-325.4	-532.9	904.7	875.4	29.31	30.867	
10,700.0	10,682.1	10,728.4	10,682.1	14.6	14.6	-110.71	-325.4	-532.9	904.7	875.3	29.45	30.725	
10,800.0	10,782.1	10,828.4	10,782.1	14.7	14.7	-110.71	-325.4	-532.9	904.7	875.1	29.58	30.583	
10,900.0	10,882.1	10,928.4	10,882.1	14.8	14.7	-110.71	-325.4	-532.9	904.7	875.0	29.72	30.443	
11,000.0	10,982.1	11,028.4	10,982.1	14.9	14.8	-110.71	-325.4	-532.9	904.7	874.9	29.86	30.303	
11,100.0	11,082.1	11,128.4	11,082.1	14.9	14.9	-110.71	-325.4	-532.9	904.7	874.7	29.99	30.165	
11,200.0	11,182.1	11,228.4	11,182.1	15.0	14.9	-110.71	-325.4	-532.9	904.7	874.6	30.13	30.027	
11,300.0	11,282.1	11,328.4	11,282.1	15.1	15.0	-110.71	-325.4	-532.9	904.7	874.5	30.27	29.891	
11,400.0	11,382.1	11,428.4	11,382.1	15.2	15.1	-110.71	-325.4	-532.9	904.7	874.3	30.40	29.760	
11,456.4	11,438.5	11,484.8	11,438.5	15.2	15.1	-110.71	-325.4	-532.9	904.7	874.4	30.37	29.793	
11,475.0	11,457.1	11,496.0	11,449.7	15.2	15.1	69.67	-325.5	-532.9	904.7	874.3	30.38	29.782	
11,500.0	11,482.1	11,511.1	11,464.8	15.2	15.1	69.72	-326.1	-532.9	904.5	874.1	30.39	29.762	
11,525.0	11,506.9	11,525.0	11,478.7	15.2	15.1	69.80	-327.1	-532.9	904.1	873.6	30.41	29.729	
11,550.0	11,531.5	11,541.3	11,494.9	15.2	15.1	69.94	-328.7	-532.9	903.5	873.0	30.43	29.689	
11,575.0	11,555.9	11,556.4	11,509.8	15.2	15.1	70.10	-330.7	-532.9	902.7	872.3	30.46	29.637	
11,600.0	11,580.0	11,575.0	11,528.2	15.2	15.1	70.33	-333.9	-532.9	901.8	871.3	30.48	29.585	
11,625.0	11,603.7	11,586.6	11,539.6	15.2	15.1	70.54	-336.2	-532.8	900.7	870.2	30.53	29.504	
11,650.0	11,626.9	11,600.0	11,552.6	15.2	15.1	70.80	-339.2	-532.8	899.5	868.9	30.57	29.418	
11,675.0	11,649.6	11,617.0	11,569.0	15.2	15.1	71.14	-343.6	-532.8	898.0	867.4	30.61	29.337	
11,700.0	11,671.7	11,632.2	11,583.6	15.2	15.1	71.49	-348.0	-532.8	896.5	865.8	30.66	29.243	
11,725.0	11,693.2	11,650.0	11,600.5	15.3	15.1	71.91	-353.7	-532.7	894.8	864.1	30.69	29.155	
11,750.0	11,714.0	11,662.8	11,612.4	15.3	15.1	72.30	-358.2	-532.7	893.0	862.2	30.75	29.039	
11,775.0	11,734.0	11,675.0	11,623.7	15.3	15.1	72.71	-362.8	-532.7	891.1	860.3	30.82	28.915	
11,800.0	11,753.2	11,693.5	11,640.6	15.3	15.2	73.25	-370.3	-532.6	889.0	858.2	30.85	28.819	
11,825.0	11,771.6	11,709.0	11,654.5	15.3	15.2	73.77	-377.0	-532.6	886.9	856.0	30.90	28.706	
11,850.0	11,789.0	11,725.0	11,668.7	15.3	15.2	74.33	-384.5	-532.5	884.7	853.8	30.94	28.595	
11,875.0	11,805.5	11,740.0	11,681.8	15.3	15.2	74.91	-392.0	-532.5	882.4	851.4	30.99	28.478	
11,900.0	11,821.0	11,755.7	11,695.1	15.4	15.2	75.52	-400.2	-532.4	880.1	849.1	31.03	28.365	
11,925.0	11,835.4	11,775.0	11,711.2	15.4	15.2	76.24	-410.9	-532.4	877.7	846.7	31.05	28.272	
11,950.0	11,848.8	11,787.2	11,721.1	15.4	15.2	76.82	-418.0	-532.3	875.3	844.2	31.10	28.144	
11,975.0	11,861.0	11,800.0	11,731.3	15.5	15.2	77.43	-425.7	-532.3	872.9	841.8	31.15	28.024	
12,000.0	11,872.1	11,819.1	11,746.2	15.5	15.2	78.23	-437.7	-532.2	870.5	839.4	31.16	27.936	
12,025.0	11,881.9	11,835.3	11,758.4	15.5	15.2	78.96	-448.3	-532.1	868.2	837.0	31.19	27.838	
12,050.0	11,890.6	11,850.0	11,769.1	15.6	15.3	79.66	-458.4	-532.1	865.8	834.6	31.21	27.738	
12,075.0	11,898.0	11,867.9	11,781.8	15.6	15.3	80.48	-471.0	-532.0	863.6	832.4	31.23	27.654	
12,100.0	11,904.2	11,884.4	11,793.1	15.7	15.3	81.26	-483.1	-531.9	861.4	830.2	31.25	27.568	
12,125.0	11,909.0	11,900.0	11,803.3	15.7	15.3	82.01	-494.8	-531.8	859.3	828.1	31.27	27.484	
12,150.0	11,912.6	11,918.0	11,814.7	15.8	15.3	82.86	-508.8	-531.7	857.4	826.1	31.28	27.409	
12,175.0	11,914.9	11,935.0	11,824.9	15.8	15.3	83.67	-522.4	-531.6	855.6	824.3	31.30	27.333	
12,200.0	11,915.9	11,952.3	11,834.8	15.9	15.3	84.49	-536.6	-531.5	853.9	822.6	31.32	27.261	
12,206.4	11,916.0	11,956.7	11,837.3	15.9	15.3	84.70	-540.2	-531.5	853.5	822.2	31.33	27.243	
12,300.0	11,916.0	12,028.0	11,871.9	16.1	15.4	87.03	-602.4	-531.1	849.7	818.2	31.54	26.940	
12,400.0	11,916.0	12,116.5	11,901.4	16.4	15.5	89.02	-685.7	-530.6	848.5	816.5	31.98	26.528	
12,500.0	11,916.0	12,214.0	11,915.5	16.8	15.6	89.97	-782.1	-530.0	848.3	815.7	32.60	26.022	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 752H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11480-r.5 MWD+IFR1+SAG+FDIR												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)	No-Go Distance (usft)	Separation Factor	Warning
12,600.0	11,916.0	12,314.0	11,916.0	17.2	15.9	90.00	-882.1	-529.3	848.3	815.0	33.32	25.460	
12,700.0	11,916.0	12,414.0	11,916.0	17.6	16.2	90.00	-982.1	-528.7	848.3	814.2	34.12	24.864	
12,800.0	11,916.0	12,514.0	11,916.0	18.0	16.6	90.00	-1,082.0	-528.0	848.3	813.3	34.98	24.249	
12,900.0	11,916.0	12,614.0	11,916.0	18.5	17.0	90.00	-1,182.0	-527.4	848.3	812.4	35.91	23.625	
13,000.0	11,916.0	12,714.0	11,916.0	19.0	17.5	90.00	-1,282.0	-526.7	848.3	811.4	36.89	22.997	
13,100.0	11,916.0	12,814.0	11,916.0	19.5	18.0	90.00	-1,382.0	-526.1	848.3	810.4	37.92	22.371	
13,200.0	11,916.0	12,914.0	11,916.0	20.1	18.6	90.00	-1,482.0	-525.4	848.3	809.3	39.00	21.752	
13,300.0	11,916.0	13,014.0	11,916.0	20.7	19.2	90.00	-1,582.0	-524.8	848.3	808.2	40.12	21.143	
13,400.0	11,916.0	13,114.0	11,916.0	21.3	19.7	90.00	-1,682.0	-524.1	848.3	807.0	41.28	20.548	
13,500.0	11,916.0	13,214.0	11,916.0	21.9	20.3	90.00	-1,782.0	-523.5	848.3	805.8	42.48	19.968	
13,600.0	11,916.0	13,314.0	11,916.0	22.5	21.0	90.00	-1,882.0	-522.8	848.3	804.6	43.71	19.406	
13,700.0	11,916.0	13,414.0	11,916.0	23.1	21.6	90.00	-1,982.0	-522.2	848.3	803.3	44.98	18.861	
13,800.0	11,916.0	13,514.0	11,916.0	23.8	22.3	90.00	-2,082.0	-521.5	848.3	802.0	46.27	18.335	
13,900.0	11,916.0	13,614.0	11,916.0	24.5	22.9	90.00	-2,182.0	-520.9	848.3	800.7	47.58	17.828	
14,000.0	11,916.0	13,714.0	11,916.0	25.1	23.6	90.00	-2,282.0	-520.2	848.3	799.3	48.92	17.339	
14,100.0	11,916.0	13,814.0	11,916.0	25.8	24.3	90.00	-2,382.0	-519.6	848.3	798.0	50.28	16.870	
14,200.0	11,916.0	13,914.0	11,916.0	26.5	25.0	90.00	-2,482.0	-518.9	848.3	796.6	51.66	16.419	
14,300.0	11,916.0	14,014.0	11,916.0	27.2	25.7	90.00	-2,582.0	-518.3	848.2	795.2	53.06	15.986	
14,400.0	11,916.0	14,114.0	11,916.0	27.9	26.4	90.00	-2,682.0	-517.6	848.2	793.8	54.48	15.570	
14,500.0	11,916.0	14,214.0	11,916.0	28.7	27.2	90.00	-2,782.0	-517.0	848.2	792.3	55.91	15.171	
14,600.0	11,916.0	14,314.0	11,916.0	29.4	27.9	90.00	-2,882.0	-516.3	848.2	790.9	57.36	14.789	
14,700.0	11,916.0	14,414.0	11,916.0	30.1	28.6	90.00	-2,982.0	-515.7	848.2	789.4	58.82	14.422	
14,800.0	11,916.0	14,514.0	11,916.0	30.9	29.4	90.00	-3,082.0	-515.0	848.2	787.9	60.29	14.070	
14,900.0	11,916.0	14,614.0	11,916.0	31.6	30.2	90.00	-3,182.0	-514.4	848.2	786.5	61.77	13.732	
15,000.0	11,916.0	14,714.0	11,916.0	32.4	30.9	90.00	-3,282.0	-513.7	848.2	785.0	63.27	13.407	
15,100.0	11,916.0	14,814.0	11,916.0	33.1	31.7	90.00	-3,382.0	-513.1	848.2	783.5	64.77	13.096	
15,200.0	11,916.0	14,914.0	11,916.0	33.9	32.4	90.00	-3,482.0	-512.5	848.2	781.9	66.28	12.797	
15,300.0	11,916.0	15,014.0	11,916.0	34.7	33.2	90.00	-3,582.0	-511.8	848.2	780.4	67.80	12.510	
15,400.0	11,916.0	15,114.0	11,916.0	35.5	34.0	90.00	-3,682.0	-511.2	848.2	778.9	69.33	12.234	
15,500.0	11,916.0	15,214.0	11,916.0	36.2	34.8	90.00	-3,782.0	-510.5	848.2	777.3	70.87	11.968	
15,600.0	11,916.0	15,314.0	11,916.0	37.0	35.6	90.00	-3,882.0	-509.9	848.2	775.8	72.42	11.713	
15,700.0	11,916.0	15,414.0	11,916.0	37.8	36.4	90.00	-3,982.0	-509.2	848.2	774.2	73.97	11.467	
15,800.0	11,916.0	15,514.0	11,916.0	38.6	37.1	90.00	-4,082.0	-508.6	848.2	772.7	75.52	11.231	
15,900.0	11,916.0	15,614.0	11,916.0	39.4	37.9	90.00	-4,182.0	-507.9	848.2	771.1	77.09	11.003	
16,000.0	11,916.0	15,714.0	11,916.0	40.2	38.7	90.00	-4,282.0	-507.3	848.2	769.5	78.65	10.784	
16,100.0	11,916.0	15,814.0	11,916.0	41.0	39.5	90.00	-4,382.0	-506.6	848.2	768.0	80.23	10.572	
16,200.0	11,916.0	15,914.0	11,916.0	41.8	40.3	90.00	-4,482.0	-506.0	848.2	766.4	81.81	10.368	
16,300.0	11,916.0	16,014.0	11,916.0	42.6	41.1	90.00	-4,582.0	-505.3	848.2	764.8	83.39	10.172	
16,400.0	11,916.0	16,114.0	11,916.0	43.4	41.9	90.00	-4,682.0	-504.7	848.2	763.2	84.97	9.982	
16,500.0	11,916.0	16,214.0	11,916.0	44.2	42.8	90.00	-4,782.0	-504.0	848.2	761.6	86.57	9.798	
16,600.0	11,916.0	16,314.0	11,916.0	45.0	43.6	90.00	-4,882.0	-503.4	848.2	760.0	88.16	9.621	
16,700.0	11,916.0	16,414.0	11,916.0	45.8	44.4	90.00	-4,982.0	-502.7	848.2	758.4	89.76	9.449	
16,800.0	11,916.0	16,514.0	11,916.0	46.6	45.2	90.00	-5,082.0	-502.1	848.2	756.8	91.36	9.284	
16,900.0	11,916.0	16,614.0	11,916.0	47.4	46.0	90.00	-5,182.0	-501.4	848.2	755.2	92.96	9.123	
17,000.0	11,916.0	16,714.0	11,916.0	48.2	46.8	90.00	-5,282.0	-500.8	848.2	753.6	94.57	8.968	
17,100.0	11,916.0	16,814.0	11,916.0	49.0	47.6	90.00	-5,382.0	-500.1	848.2	752.0	96.18	8.818	
17,200.0	11,916.0	16,914.0	11,916.0	49.8	48.5	90.00	-5,482.0	-499.5	848.1	750.3	97.80	8.672	
17,300.0	11,916.0	17,014.0	11,916.0	50.7	49.3	90.00	-5,582.0	-498.8	848.1	748.7	99.41	8.531	
17,400.0	11,916.0	17,114.0	11,916.0	51.5	50.1	90.00	-5,682.0	-498.2	848.1	747.1	101.03	8.395	
17,500.0	11,916.0	17,214.0	11,916.0	52.3	50.9	90.00	-5,782.0	-497.5	848.1	745.5	102.65	8.262	
17,600.0	11,916.0	17,314.0	11,916.0	53.1	51.7	90.00	-5,881.9	-496.9	848.1	743.9	104.28	8.133	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 752H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11480-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,700.0	11,916.0	17,414.0	11,916.0	53.9	52.6	90.00	-5,981.9	-496.2	848.1	742.2	105.90	8.009	
17,800.0	11,916.0	17,514.0	11,916.0	54.8	53.4	90.00	-6,081.9	-495.6	848.1	740.6	107.53	7.887	
17,900.0	11,916.0	17,614.0	11,916.0	55.6	54.2	90.00	-6,181.9	-495.0	848.1	739.0	109.16	7.769	
18,000.0	11,916.0	17,714.0	11,916.0	56.4	55.1	90.00	-6,281.9	-494.3	848.1	737.3	110.79	7.655	
18,100.0	11,916.0	17,814.0	11,916.0	57.2	55.9	90.00	-6,381.9	-493.7	848.1	735.7	112.43	7.544	
18,200.0	11,916.0	17,914.0	11,916.0	58.1	56.7	90.00	-6,481.9	-493.0	848.1	734.1	114.06	7.436	
18,300.0	11,916.0	18,014.0	11,916.0	58.9	57.5	90.00	-6,581.9	-492.4	848.1	732.4	115.70	7.330	
18,400.0	11,916.0	18,114.0	11,916.0	59.7	58.4	90.00	-6,681.9	-491.7	848.1	730.8	117.34	7.228	
18,500.0	11,916.0	18,214.0	11,916.0	60.6	59.2	90.00	-6,781.9	-491.1	848.1	729.1	118.98	7.128	
18,600.0	11,916.0	18,314.0	11,916.0	61.4	60.0	90.00	-6,881.9	-490.4	848.1	727.5	120.62	7.031	
18,700.0	11,916.0	18,414.0	11,916.0	62.2	60.9	90.00	-6,981.9	-489.8	848.1	725.8	122.26	6.937	
18,800.0	11,916.0	18,514.0	11,916.0	63.1	61.7	90.00	-7,081.9	-489.1	848.1	724.2	123.90	6.845	
18,900.0	11,916.0	18,614.0	11,916.0	63.9	62.5	90.00	-7,181.9	-488.5	848.1	722.5	125.55	6.755	
19,000.0	11,916.0	18,714.0	11,916.0	64.7	63.4	90.00	-7,281.9	-487.8	848.1	720.9	127.20	6.667	
19,100.0	11,916.0	18,814.0	11,916.0	65.6	64.2	90.00	-7,381.9	-487.2	848.1	719.2	128.84	6.582	
19,200.0	11,916.0	18,914.0	11,916.0	66.4	65.1	90.00	-7,481.9	-486.5	848.1	717.6	130.49	6.499	
19,300.0	11,916.0	19,014.0	11,916.0	67.2	65.9	90.00	-7,581.9	-485.9	848.1	715.9	132.14	6.418	
19,400.0	11,916.0	19,114.0	11,916.0	68.1	66.7	90.00	-7,681.9	-485.2	848.1	714.3	133.79	6.339	
19,500.0	11,916.0	19,214.0	11,916.0	68.9	67.6	90.00	-7,781.9	-484.6	848.1	712.6	135.45	6.261	
19,600.0	11,916.0	19,314.0	11,916.0	69.7	68.4	90.00	-7,881.9	-483.9	848.1	711.0	137.10	6.186	
19,700.0	11,916.0	19,414.0	11,916.0	70.6	69.2	90.00	-7,981.9	-483.3	848.1	709.3	138.75	6.112	
19,800.0	11,916.0	19,514.0	11,916.0	71.4	70.1	90.00	-8,081.9	-482.6	848.1	707.6	140.41	6.040	
19,900.0	11,916.0	19,614.0	11,916.0	72.2	70.9	90.00	-8,181.9	-482.0	848.1	706.0	142.07	5.969	
20,000.0	11,916.0	19,714.0	11,916.0	73.1	71.8	90.00	-8,281.9	-481.3	848.0	704.3	143.72	5.901	
20,100.0	11,916.0	19,814.0	11,916.0	73.9	72.6	90.00	-8,381.9	-480.7	848.0	702.7	145.38	5.833	
20,200.0	11,916.0	19,914.0	11,916.0	74.8	73.5	90.00	-8,481.9	-480.0	848.0	701.0	147.04	5.767	
20,300.0	11,916.0	20,014.0	11,916.0	75.6	74.3	90.00	-8,581.9	-479.4	848.0	699.3	148.70	5.703	
20,400.0	11,916.0	20,114.0	11,916.0	76.4	75.1	90.00	-8,681.9	-478.7	848.0	697.7	150.36	5.640	
20,500.0	11,916.0	20,214.0	11,916.0	77.3	76.0	90.00	-8,781.9	-478.1	848.0	696.0	152.02	5.578	
20,600.0	11,916.0	20,314.0	11,916.0	78.1	76.8	90.00	-8,881.9	-477.5	848.0	694.3	153.68	5.518	
20,700.0	11,916.0	20,414.0	11,916.0	79.0	77.7	90.00	-8,981.9	-476.8	848.0	692.7	155.34	5.459	
20,800.0	11,916.0	20,514.0	11,916.0	79.8	78.5	90.00	-9,081.9	-476.2	848.0	691.0	157.00	5.401	
20,900.0	11,916.0	20,614.0	11,916.0	80.7	79.4	90.00	-9,181.9	-475.5	848.0	689.3	158.67	5.345	
21,000.0	11,916.0	20,714.0	11,916.0	81.5	80.2	90.00	-9,281.9	-474.9	848.0	687.7	160.33	5.289	
21,100.0	11,916.0	20,814.0	11,916.0	82.3	81.0	90.00	-9,381.9	-474.2	848.0	686.0	162.00	5.235	
21,200.0	11,916.0	20,914.0	11,916.0	83.2	81.9	90.00	-9,481.9	-473.6	848.0	684.3	163.66	5.181	
21,300.0	11,916.0	21,014.0	11,916.0	84.0	82.7	90.00	-9,581.9	-472.9	848.0	682.7	165.33	5.129	
21,400.0	11,916.0	21,114.0	11,916.0	84.9	83.6	90.00	-9,681.9	-472.3	848.0	681.0	166.99	5.078	
21,500.0	11,916.0	21,214.0	11,916.0	85.7	84.4	90.00	-9,781.9	-471.6	848.0	679.3	168.66	5.028	
21,600.0	11,916.0	21,314.0	11,916.0	86.6	85.3	90.00	-9,881.9	-471.0	848.0	677.7	170.33	4.979	
21,700.0	11,916.0	21,414.0	11,916.0	87.4	86.1	90.00	-9,981.9	-470.3	848.0	676.0	171.99	4.930	
21,700.6	11,916.0	21,414.6	11,916.0	87.4	86.1	90.00	-9,982.4	-470.3	848.0	676.0	172.00	4.930	
21,700.7	11,916.0	21,414.6	11,916.0	87.4	86.1	90.00	-9,982.4	-470.3	848.0	676.0	172.00	4.930	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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 753H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-56.29	83.3	-124.8	150.0					
100.0	100.0	100.9	100.9	3.0	3.0	-56.44	82.7	-124.7	149.7	142.9	6.83	21.914		
200.0	200.0	201.0	201.0	3.2	3.1	-56.65	82.0	-124.6	149.2	142.2	6.98	21.375		
300.0	300.0	300.9	300.9	3.3	3.1	-56.91	81.0	-124.4	148.5	141.3	7.13	20.827		
400.0	400.0	400.8	400.8	3.4	3.1	-57.12	80.3	-124.2	147.9	140.6	7.28	20.318		
500.0	500.0	500.9	500.9	3.5	3.2	-57.26	79.8	-124.1	147.5	140.1	7.43	19.853		
600.0	600.0	601.1	601.0	3.7	3.2	-57.63	78.6	-123.9	146.7	139.2	7.58	19.364		
689.8	689.8	689.8	689.8	3.8	3.3	-58.04	77.4	-124.1	146.2	138.5	7.71	18.975 CC		
700.0	700.0	700.0	700.0	3.8	3.3	-58.05	77.4	-124.1	146.2	138.5	7.72	18.942 ES		
800.0	800.0	798.9	798.8	3.9	3.3	-58.20	77.4	-124.8	146.9	139.0	7.84	18.740		
900.0	900.0	898.5	898.5	4.0	3.3	-58.56	77.1	-126.1	147.8	139.8	7.96	18.568		
1,000.0	1,000.0	997.8	997.7	4.2	3.4	-58.91	77.0	-127.7	149.1	141.0	8.08	18.454		
1,100.0	1,100.0	1,099.4	1,099.4	4.3	3.4	-59.24	76.7	-128.8	150.0	141.7	8.20	18.279		
1,200.0	1,200.0	1,200.4	1,200.3	4.4	3.5	-59.81	75.4	-129.5	149.9	141.5	8.33	17.992		
1,260.0	1,260.0	1,260.1	1,260.0	4.5	3.5	-60.42	74.0	-130.3	149.8	141.4	8.40	17.830		
1,300.0	1,300.0	1,300.1	1,300.0	4.5	3.6	-60.84	73.0	-130.8	149.8	141.4	8.45	17.729		
1,358.9	1,358.9	1,359.0	1,358.9	4.6	3.6	-61.34	71.8	-131.3	149.6	141.1	8.52	17.557 SF		
1,400.0	1,400.0	1,359.0	1,358.9	4.6	3.6	-61.34	71.8	-131.3	155.2	146.8	8.43	18.402		
1,500.0	1,500.0	1,359.0	1,358.9	4.8	3.6	-61.34	71.8	-131.3	205.7	198.0	7.70	26.706		
1,600.0	1,600.0	1,359.0	1,358.9	4.8	3.6	-151.09	71.8	-131.3	284.6	277.3	7.26	39.222		
1,700.0	1,699.8	1,359.0	1,358.9	5.0	3.6	-148.95	71.8	-131.3	374.9	367.8	7.09	52.843		
1,800.0	1,799.5	1,359.0	1,358.9	5.2	3.6	-145.57	71.8	-131.3	470.0	463.0	7.05	66.662		
1,850.0	1,849.1	1,359.0	1,358.9	5.2	3.6	-143.24	71.8	-131.3	518.5	511.5	7.05	73.544		
1,900.0	1,898.8	1,359.0	1,358.9	5.2	3.6	-143.24	71.8	-131.3	567.4	560.3	7.06	80.405		
2,000.0	1,998.0	1,359.0	1,358.9	5.4	3.6	-143.24	71.8	-131.3	665.6	658.5	7.09	93.853		
2,100.0	2,097.3	1,359.0	1,358.9	5.6	3.6	-143.24	71.8	-131.3	764.2	757.1	7.15	106.922		
2,200.0	2,196.5	1,359.0	1,358.9	5.7	3.6	-143.24	71.8	-131.3	863.2	856.0	7.22	119.589		
2,300.0	2,295.8	1,359.0	1,358.9	5.9	3.6	-143.24	71.8	-131.3	962.4	955.1	7.30	131.840		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 753H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11260-r.5 MWD+IFR1+SAG+FDIR													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)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-56.29	83.3	-124.8	150.0				
100.0	100.0	100.0	100.0	3.0	3.0	-56.29	83.3	-124.8	150.0	142.9	7.07	21.208	
200.0	200.0	200.0	200.0	3.2	3.2	-56.29	83.3	-124.8	150.0	142.7	7.32	20.504	
300.0	300.0	300.0	300.0	3.3	3.3	-56.29	83.3	-124.8	150.0	142.5	7.55	19.863	
400.0	400.0	400.0	400.0	3.4	3.4	-56.29	83.3	-124.8	150.0	142.2	7.78	19.276	
500.0	500.0	500.0	500.0	3.5	3.5	-56.29	83.3	-124.8	150.0	142.0	8.01	18.735	
600.0	600.0	600.0	600.0	3.7	3.7	-56.29	83.3	-124.8	150.0	141.8	8.23	18.235	
700.0	700.0	700.0	700.0	3.8	3.8	-56.29	83.3	-124.8	150.0	141.6	8.44	17.770	
800.0	800.0	800.0	800.0	3.9	3.9	-56.29	83.3	-124.8	150.0	141.4	8.65	17.336	
900.0	900.0	900.0	900.0	4.0	4.0	-56.29	83.3	-124.8	150.0	141.1	8.86	16.931	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.29	83.3	-124.8	150.0	140.9	9.06	16.550	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.29	83.3	-124.8	150.0	140.7	9.26	16.192	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-56.29	83.3	-124.8	150.0	140.5	9.46	15.854	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-56.29	83.3	-124.8	150.0	140.3	9.66	15.534	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-56.29	83.3	-124.8	150.0	140.2	9.85	15.231	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.29	83.3	-124.8	150.0	140.0	10.04	14.943 CC, ES	
1,600.0	1,600.0	1,600.0	1,600.0	4.8	4.9	-147.63	83.3	-124.8	151.5	141.2	10.24	14.796	
1,700.0	1,699.8	1,699.8	1,699.8	5.0	5.1	-148.61	83.3	-124.8	155.9	145.3	10.61	14.697	
1,800.0	1,799.5	1,799.5	1,799.5	5.2	5.2	-150.13	83.3	-124.8	163.4	152.5	10.97	14.893	
1,850.0	1,849.1	1,849.1	1,849.1	5.2	5.3	-151.04	83.3	-124.8	168.4	157.3	11.08	15.192	
1,900.0	1,898.8	1,898.8	1,898.8	5.2	5.4	-152.01	83.3	-124.8	173.7	162.5	11.19	15.529	
2,000.0	1,998.0	1,998.0	1,998.0	5.4	5.5	-153.78	83.3	-124.8	184.6	173.1	11.48	16.085	
2,100.0	2,097.3	2,097.3	2,097.3	5.6	5.6	-155.36	83.3	-124.8	195.6	183.9	11.77	16.626	
2,200.0	2,196.5	2,196.5	2,196.5	5.7	5.8	-156.76	83.3	-124.8	206.8	194.7	12.06	17.152	
2,300.0	2,295.8	2,295.8	2,295.8	5.9	5.9	-158.03	83.3	-124.8	218.0	205.7	12.35	17.661	
2,400.0	2,395.0	2,395.0	2,395.0	6.1	6.0	-159.16	83.3	-124.8	229.4	216.8	12.64	18.154	
2,500.0	2,494.3	2,494.3	2,494.3	6.2	6.2	-160.19	83.3	-124.8	240.8	227.9	12.93	18.631	
2,600.0	2,593.5	2,593.5	2,593.5	6.4	6.3	-161.13	83.3	-124.8	252.3	239.1	13.22	19.092	
2,700.0	2,692.8	2,692.8	2,692.8	6.6	6.4	-161.99	83.3	-124.8	263.9	250.4	13.51	19.537	
2,800.0	2,792.0	2,792.0	2,792.0	6.7	6.5	-162.77	83.3	-124.8	275.5	261.7	13.80	19.968	
2,900.0	2,891.3	2,891.3	2,891.3	6.9	6.7	-163.49	83.3	-124.8	287.2	273.1	14.09	20.384	
3,000.0	2,990.6	2,990.6	2,990.6	7.1	6.8	-164.15	83.3	-124.8	298.9	284.5	14.38	20.786	
3,100.0	3,089.8	3,089.8	3,089.8	7.2	6.9	-164.77	83.3	-124.8	310.7	296.0	14.67	21.174	
3,200.0	3,189.1	3,189.1	3,189.1	7.4	7.0	-165.33	83.3	-124.8	322.4	307.5	14.96	21.550	
3,300.0	3,288.3	3,288.3	3,288.3	7.6	7.1	-165.86	83.3	-124.8	334.3	319.0	15.25	21.913	
3,400.0	3,387.6	3,387.6	3,387.6	7.8	7.3	-166.36	83.3	-124.8	346.1	330.5	15.54	22.265	
3,500.0	3,486.8	3,486.8	3,486.8	7.9	7.4	-166.82	83.3	-124.8	358.0	342.1	15.84	22.604	
3,600.0	3,586.1	3,586.1	3,586.1	8.1	7.5	-167.25	83.3	-124.8	369.8	353.7	16.13	22.934	
3,700.0	3,685.3	3,685.3	3,685.3	8.3	7.6	-167.65	83.3	-124.8	381.7	365.3	16.42	23.252	
3,800.0	3,784.6	3,784.6	3,784.6	8.5	7.7	-168.03	83.3	-124.8	393.7	376.9	16.71	23.561	
3,896.1	3,880.0	3,880.0	3,880.0	8.6	7.8	-168.37	83.3	-124.8	405.1	388.1	16.98	23.855	
3,900.0	3,883.8	3,883.8	3,883.8	8.6	7.8	-168.39	83.3	-124.8	405.6	388.6	16.99	23.871	
4,000.0	3,983.2	3,983.2	3,983.2	9.0	7.9	-168.72	83.3	-124.8	416.6	399.2	17.44	23.886	
4,100.0	4,082.8	4,082.8	4,082.8	9.1	8.1	-168.99	83.3	-124.8	426.0	408.2	17.72	24.033	
4,200.0	4,182.5	4,182.5	4,182.5	9.3	8.2	-169.20	83.3	-124.8	433.6	415.6	18.00	24.086	
4,300.0	4,282.3	4,282.3	4,282.3	9.5	8.3	-169.36	83.3	-124.8	439.5	421.3	18.27	24.052	
4,400.0	4,382.2	4,382.2	4,382.2	9.6	8.4	-169.47	83.3	-124.8	443.7	425.2	18.54	23.934	
4,500.0	4,482.1	4,482.1	4,482.1	9.8	8.5	-169.53	83.3	-124.8	446.3	427.5	18.80	23.741	
4,596.1	4,578.3	4,578.3	4,578.3	9.9	8.6	-78.55	83.3	-124.8	447.0	428.0	19.00	23.530	
4,600.0	4,582.1	4,582.1	4,582.1	9.9	8.6	-78.55	83.3	-124.8	447.0	428.0	19.00	23.525	
4,700.0	4,682.1	4,682.1	4,682.1	10.1	8.7	-78.55	83.3	-124.8	447.0	427.7	19.33	23.125	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 753H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11260-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	Warning
4,800.0	4,782.1	4,782.1	4,782.1	10.2	8.8	-78.55	83.3	-124.8	447.0	427.5	19.51	22.915	
4,900.0	4,882.1	4,882.1	4,882.1	10.2	8.9	-78.55	83.3	-124.8	447.0	427.4	19.69	22.709	
5,000.0	4,982.1	4,982.1	4,982.1	10.3	9.0	-78.55	83.3	-124.8	447.0	427.2	19.86	22.507	
5,100.0	5,082.1	5,082.1	5,082.1	10.4	9.1	-78.55	83.3	-124.8	447.0	427.0	20.04	22.309	
5,200.0	5,182.1	5,182.1	5,182.1	10.5	9.3	-78.55	83.3	-124.8	447.0	426.8	20.22	22.114	
5,300.0	5,282.1	5,282.1	5,282.1	10.5	9.4	-78.55	83.3	-124.8	447.0	426.7	20.39	21.923	
5,400.0	5,382.1	5,382.1	5,382.1	10.6	9.5	-78.55	83.3	-124.8	447.0	426.5	20.57	21.736	
5,500.0	5,482.1	5,482.1	5,482.1	10.7	9.6	-78.55	83.3	-124.8	447.0	426.3	20.74	21.553	
5,600.0	5,582.1	5,582.1	5,582.1	10.7	9.7	-78.55	83.3	-124.8	447.0	426.1	20.92	21.372	
5,700.0	5,682.1	5,682.1	5,682.1	10.8	9.8	-78.55	83.3	-124.8	447.0	426.0	21.09	21.195	
5,800.0	5,782.1	5,782.1	5,782.1	10.9	9.9	-78.55	83.3	-124.8	447.0	425.8	21.27	21.021	
5,900.0	5,882.1	5,882.1	5,882.1	11.0	10.0	-78.55	83.3	-124.8	447.0	425.6	21.44	20.850	
6,000.0	5,982.1	5,982.1	5,982.1	11.0	10.1	-78.55	83.3	-124.8	447.0	425.4	21.62	20.682	
6,100.0	6,082.1	6,082.1	6,082.1	11.1	10.2	-78.55	83.3	-124.8	447.0	425.3	21.79	20.517	
6,200.0	6,182.1	6,182.1	6,182.1	11.2	10.3	-78.55	83.3	-124.8	447.0	425.1	21.96	20.354	
6,300.0	6,282.1	6,282.1	6,282.1	11.3	10.4	-78.55	83.3	-124.8	447.0	424.9	22.14	20.195	
6,400.0	6,382.1	6,382.1	6,382.1	11.3	10.5	-78.55	83.3	-124.8	447.0	424.7	22.31	20.038	
6,500.0	6,482.1	6,482.1	6,482.1	11.4	10.6	-78.55	83.3	-124.8	447.0	424.6	22.48	19.883	
6,600.0	6,582.1	6,582.1	6,582.1	11.5	10.7	-78.55	83.3	-124.8	447.0	424.4	22.66	19.732	
6,700.0	6,682.1	6,682.1	6,682.1	11.6	10.8	-78.55	83.3	-124.8	447.0	424.2	22.83	19.582	
6,800.0	6,782.1	6,782.1	6,782.1	11.6	10.9	-78.55	83.3	-124.8	447.0	424.0	23.00	19.435	
6,900.0	6,882.1	6,882.1	6,882.1	11.7	11.0	-78.55	83.3	-124.8	447.0	423.9	23.17	19.291	
7,000.0	6,982.1	6,982.1	6,982.1	11.8	11.1	-78.55	83.3	-124.8	447.0	423.7	23.35	19.148	
7,100.0	7,082.1	7,082.1	7,082.1	11.9	11.2	-78.55	83.3	-124.8	447.0	423.5	23.52	19.008	
7,200.0	7,182.1	7,182.1	7,182.1	11.9	11.3	-78.55	83.3	-124.8	447.0	423.4	23.69	18.870	
7,300.0	7,282.1	7,282.1	7,282.1	12.0	11.4	-78.55	83.3	-124.8	447.0	423.2	23.86	18.734	
7,400.0	7,382.1	7,382.1	7,382.1	12.1	11.5	-78.55	83.3	-124.8	447.0	423.0	24.03	18.600	
7,500.0	7,482.1	7,482.1	7,482.1	12.2	11.6	-78.55	83.3	-124.8	447.0	422.8	24.21	18.469	
7,600.0	7,582.1	7,582.1	7,582.1	12.2	11.7	-78.55	83.3	-124.8	447.0	422.7	24.38	18.339	
7,700.0	7,682.1	7,682.1	7,682.1	12.3	11.8	-78.55	83.3	-124.8	447.0	422.5	24.55	18.211	
7,800.0	7,782.1	7,782.1	7,782.1	12.4	11.9	-78.55	83.3	-124.8	447.0	422.3	24.72	18.085	
7,900.0	7,882.1	7,882.1	7,882.1	12.5	12.0	-78.55	83.3	-124.8	447.0	422.2	24.89	17.961	
8,000.0	7,982.1	7,982.1	7,982.1	12.6	12.1	-78.55	83.3	-124.8	447.0	422.0	25.06	17.838	
8,100.0	8,082.1	8,082.1	8,082.1	12.6	12.2	-78.55	83.3	-124.8	447.0	421.8	25.23	17.718	
8,200.0	8,182.1	8,182.1	8,182.1	12.7	12.2	-78.55	83.3	-124.8	447.0	421.6	25.40	17.599	
8,300.0	8,282.1	8,282.1	8,282.1	12.8	12.3	-78.55	83.3	-124.8	447.0	421.5	25.57	17.481	
8,400.0	8,382.1	8,382.1	8,382.1	12.9	12.4	-78.55	83.3	-124.8	447.0	421.3	25.74	17.366	
8,500.0	8,482.1	8,482.1	8,482.1	12.9	12.5	-78.55	83.3	-124.8	447.0	421.1	25.91	17.252	
8,600.0	8,582.1	8,582.1	8,582.1	13.0	12.6	-78.55	83.3	-124.8	447.0	421.0	26.08	17.139	
8,700.0	8,682.1	8,682.1	8,682.1	13.1	12.7	-78.55	83.3	-124.8	447.0	420.8	26.25	17.028	
8,800.0	8,782.1	8,782.1	8,782.1	13.2	12.8	-78.55	83.3	-124.8	447.0	420.6	26.42	16.919	
8,900.0	8,882.1	8,882.1	8,882.1	13.2	12.9	-78.55	83.3	-124.8	447.0	420.5	26.59	16.811	
9,000.0	8,982.1	8,982.1	8,982.1	13.3	13.0	-78.55	83.3	-124.8	447.0	420.3	26.76	16.705	
9,100.0	9,082.1	9,082.1	9,082.1	13.4	13.1	-78.55	83.3	-124.8	447.0	420.1	26.93	16.599	
9,200.0	9,182.1	9,182.1	9,182.1	13.5	13.2	-78.55	83.3	-124.8	447.0	419.9	27.10	16.496	
9,300.0	9,282.1	9,282.1	9,282.1	13.5	13.3	-78.55	83.3	-124.8	447.0	419.8	27.27	16.393	
9,400.0	9,382.1	9,382.1	9,382.1	13.6	13.4	-78.55	83.3	-124.8	447.0	419.6	27.44	16.292	
9,500.0	9,482.1	9,482.1	9,482.1	13.7	13.5	-78.55	83.3	-124.8	447.0	419.4	27.61	16.193	
9,600.0	9,582.1	9,582.1	9,582.1	13.8	13.6	-78.55	83.3	-124.8	447.0	419.3	27.78	16.094	
9,700.0	9,682.1	9,682.1	9,682.1	13.9	13.7	-78.55	83.3	-124.8	447.0	419.1	27.95	15.997	
9,800.0	9,782.1	9,782.1	9,782.1	13.9	13.8	-78.55	83.3	-124.8	447.0	418.9	28.11	15.901	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 753H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11260-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	Warning
9,900.0	9,882.1	9,882.1	9,882.1	14.0	13.9	-78.55	83.3	-124.8	447.0	418.8	28.28	15.806	
10,000.0	9,982.1	9,982.1	9,982.1	14.1	13.9	-78.55	83.3	-124.8	447.0	418.6	28.45	15.712	
10,100.0	10,082.1	10,082.1	10,082.1	14.2	14.0	-78.55	83.3	-124.8	447.0	418.4	28.62	15.620	
10,200.0	10,182.1	10,182.1	10,182.1	14.2	14.1	-78.55	83.3	-124.8	447.0	418.3	28.79	15.529	
10,300.0	10,282.1	10,282.1	10,282.1	14.3	14.2	-78.55	83.3	-124.8	447.0	418.1	28.96	15.438	
10,400.0	10,382.1	10,382.1	10,382.1	14.4	14.3	-78.55	83.3	-124.8	447.0	417.9	29.13	15.349	
10,500.0	10,482.1	10,482.1	10,482.1	14.5	14.4	-78.55	83.3	-124.8	447.0	417.8	29.29	15.261	
10,600.0	10,582.1	10,582.1	10,582.1	14.6	14.5	-78.55	83.3	-124.8	447.0	417.6	29.46	15.174	
10,700.0	10,682.1	10,682.1	10,682.1	14.6	14.6	-78.55	83.3	-124.8	447.0	417.4	29.63	15.088	
10,800.0	10,782.1	10,782.1	10,782.1	14.7	14.7	-78.55	83.3	-124.8	447.0	417.2	29.80	15.003	
10,900.0	10,882.1	10,882.1	10,882.1	14.8	14.8	-78.55	83.3	-124.8	447.0	417.1	29.96	14.919	
11,000.0	10,982.1	10,982.1	10,982.1	14.9	14.9	-78.55	83.3	-124.8	447.0	416.9	30.13	14.836	
11,100.0	11,082.1	11,082.1	11,082.1	14.9	15.0	-78.55	83.3	-124.8	447.0	416.7	30.30	14.754	
11,200.0	11,182.1	11,182.1	11,182.1	15.0	15.0	-78.55	83.3	-124.8	447.0	416.6	30.47	14.673	
11,300.0	11,282.1	11,288.5	11,288.5	15.1	15.1	-78.66	82.4	-124.8	446.9	416.4	30.52	14.642	
11,400.0	11,382.1	11,411.2	11,408.6	15.2	15.2	-81.64	58.8	-124.0	442.9	412.2	30.68	14.432	
11,456.4	11,438.5	11,472.9	11,465.5	15.2	15.2	-84.66	35.3	-123.2	439.3	408.6	30.74	14.293	
11,475.0	11,457.1	11,491.9	11,482.4	15.2	15.2	94.74	26.6	-122.9	438.3	407.5	30.76	14.249	
11,500.0	11,482.1	11,516.9	11,504.0	15.2	15.3	93.45	14.1	-122.5	437.0	406.3	30.75	14.212	
11,525.0	11,506.9	11,541.1	11,524.3	15.2	15.3	92.16	0.8	-122.1	436.0	405.3	30.74	14.183	
11,550.0	11,531.5	11,564.8	11,543.5	15.2	15.3	90.87	-13.1	-121.7	435.3	404.5	30.73	14.162	
11,575.0	11,555.9	11,588.0	11,561.5	15.2	15.3	89.58	-27.6	-121.2	434.8	404.0	30.73	14.146	
11,600.0	11,580.0	11,610.6	11,578.4	15.2	15.3	88.31	-42.7	-120.7	434.5	403.8	30.74	14.133	
11,613.8	11,593.1	11,622.9	11,587.2	15.2	15.3	87.60	-51.2	-120.4	434.5	403.7	30.76	14.127	
11,625.0	11,603.7	11,632.7	11,594.2	15.2	15.3	87.04	-58.2	-120.2	434.5	403.7	30.77	14.122	
11,650.0	11,626.9	11,654.4	11,608.9	15.2	15.4	85.78	-74.1	-119.7	434.7	403.9	30.81	14.109	
11,675.0	11,649.6	11,675.0	11,622.2	15.2	15.4	84.58	-89.8	-119.2	435.2	404.3	30.88	14.092	
11,700.0	11,671.7	11,696.7	11,635.4	15.2	15.4	83.31	-106.9	-118.6	435.8	404.8	30.97	14.072	
11,725.0	11,693.2	11,717.3	11,647.3	15.3	15.4	82.10	-123.8	-118.1	436.7	405.6	31.09	14.046	
11,750.0	11,714.0	11,737.5	11,658.2	15.3	15.4	80.92	-140.8	-117.5	437.7	406.5	31.23	14.013	
11,775.0	11,734.0	11,757.5	11,668.2	15.3	15.4	79.75	-158.1	-117.0	438.9	407.5	31.41	13.974	
11,800.0	11,753.2	11,777.2	11,677.3	15.3	15.4	78.61	-175.5	-116.4	440.2	408.6	31.61	13.928	
11,825.0	11,771.6	11,796.6	11,685.6	15.3	15.5	77.49	-193.1	-115.9	441.7	409.9	31.83	13.875	
11,850.0	11,789.0	11,815.8	11,693.0	15.3	15.5	76.41	-210.8	-115.3	443.3	411.2	32.08	13.817	
11,875.0	11,805.5	11,834.8	11,699.7	15.3	15.5	75.36	-228.6	-114.7	445.0	412.6	32.35	13.755	
11,900.0	11,821.0	11,853.6	11,705.5	15.4	15.5	74.34	-246.4	-114.1	446.7	414.1	32.64	13.689	
11,925.0	11,835.4	11,872.2	11,710.6	15.4	15.5	73.35	-264.3	-113.6	448.5	415.6	32.93	13.620	
11,950.0	11,848.8	11,890.6	11,715.0	15.4	15.5	72.40	-282.2	-113.0	450.4	417.2	33.24	13.550	
11,975.0	11,861.0	11,908.9	11,718.6	15.5	15.5	71.49	-300.1	-112.4	452.3	418.7	33.55	13.481	
12,000.0	11,872.1	11,925.0	11,721.2	15.5	15.5	70.69	-316.0	-111.9	454.1	420.3	33.87	13.408	
12,025.0	11,881.9	11,945.0	11,723.6	15.5	15.5	69.79	-335.8	-111.2	456.0	421.8	34.17	13.345	
12,050.0	11,890.6	11,962.8	11,725.1	15.6	15.6	69.00	-353.6	-110.7	457.8	423.3	34.47	13.280	
12,075.0	11,898.0	11,980.6	11,725.9	15.6	15.6	68.25	-371.3	-110.1	459.6	424.8	34.77	13.219	
12,100.0	11,904.2	11,999.4	11,726.0	15.7	15.6	67.53	-390.1	-109.5	461.3	426.2	35.04	13.162	
12,125.0	11,909.0	12,020.8	11,726.0	15.7	15.7	66.87	-411.5	-108.9	462.7	427.4	35.29	13.111	
12,150.0	11,912.6	12,042.3	11,726.0	15.8	15.8	66.37	-433.0	-108.5	463.9	428.4	35.50	13.066	
12,175.0	11,914.9	12,066.1	11,726.0	15.8	15.8	66.04	-456.8	-108.3	464.7	429.0	35.67	13.028	
12,200.0	11,915.9	12,088.6	11,726.0	15.9	15.9	65.90	-479.3	-108.1	465.1	429.3	35.80	12.993	
12,206.4	11,916.0	12,095.0	11,726.0	15.9	15.9	65.89	-485.7	-108.1	465.1	429.3	35.82	12.984	
12,300.0	11,916.0	12,188.6	11,726.0	16.1	16.2	65.89	-579.3	-107.5	465.1	428.9	36.24	12.833	
12,400.0	11,916.0	12,288.6	11,726.0	16.4	16.5	65.89	-679.3	-106.8	465.1	428.4	36.76	12.654	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 753H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11260-r.5 MWD+IFR1+SAG+FDIR								Rule Assigned:		Offset Well Error: 3.0 usft			
Reference				Semi Major Axis				Offset Wellbore Centre		Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
12,500.0	11,916.0	12,388.6	11,726.0	16.8	16.9	65.89	-779.3	-106.2	465.1	427.8	37.33	12.460			
12,600.0	11,916.0	12,488.6	11,726.0	17.2	17.3	65.89	-879.3	-105.5	465.1	427.1	37.96	12.252			
12,700.0	11,916.0	12,588.6	11,726.0	17.6	17.8	65.89	-979.3	-104.9	465.1	426.4	38.65	12.033			
12,800.0	11,916.0	12,688.6	11,726.0	18.0	18.3	65.89	-1,079.3	-104.2	465.1	425.7	39.39	11.806			
12,900.0	11,916.0	12,788.6	11,726.0	18.5	18.8	65.89	-1,179.3	-103.6	465.1	424.9	40.19	11.573			
13,000.0	11,916.0	12,888.6	11,726.0	19.0	19.3	65.89	-1,279.3	-102.9	465.1	424.1	41.02	11.337			
13,100.0	11,916.0	12,988.6	11,726.0	19.5	19.9	65.89	-1,379.3	-102.3	465.1	423.2	41.91	11.098			
13,200.0	11,916.0	13,088.6	11,726.0	20.1	20.4	65.89	-1,479.3	-101.6	465.1	422.2	42.83	10.858			
13,300.0	11,916.0	13,188.6	11,726.0	20.7	21.0	65.89	-1,579.3	-101.0	465.1	421.3	43.80	10.619			
13,400.0	11,916.0	13,288.6	11,726.0	21.3	21.6	65.89	-1,679.3	-100.3	465.1	420.3	44.80	10.382			
13,500.0	11,916.0	13,388.6	11,726.0	21.9	22.3	65.89	-1,779.3	-99.7	465.1	419.2	45.83	10.148			
13,600.0	11,916.0	13,488.6	11,726.0	22.5	22.9	65.89	-1,879.3	-99.0	465.0	418.2	46.89	9.917			
13,700.0	11,916.0	13,588.6	11,726.0	23.1	23.6	65.89	-1,979.3	-98.4	465.0	417.1	47.99	9.691			
13,800.0	11,916.0	13,688.6	11,726.0	23.8	24.2	65.89	-2,079.3	-97.7	465.0	415.9	49.11	9.470			
13,900.0	11,916.0	13,788.6	11,726.0	24.5	24.9	65.89	-2,179.3	-97.1	465.0	414.8	50.26	9.253			
14,000.0	11,916.0	13,888.6	11,726.0	25.1	25.6	65.89	-2,279.3	-96.4	465.0	413.6	51.43	9.043			
14,100.0	11,916.0	13,988.6	11,726.0	25.8	26.3	65.89	-2,379.3	-95.8	465.0	412.4	52.62	8.837			
14,200.0	11,916.0	14,088.6	11,726.0	26.5	27.0	65.89	-2,479.3	-95.1	465.0	411.2	53.83	8.638			
14,300.0	11,916.0	14,188.6	11,726.0	27.2	27.7	65.89	-2,579.3	-94.5	465.0	409.9	55.07	8.445			
14,400.0	11,916.0	14,288.6	11,726.0	27.9	28.5	65.89	-2,679.3	-93.8	465.0	408.7	56.32	8.257			
14,500.0	11,916.0	14,388.6	11,726.0	28.7	29.2	65.89	-2,779.3	-93.2	465.0	407.4	57.58	8.075			
14,600.0	11,916.0	14,488.6	11,726.0	29.4	29.9	65.89	-2,879.3	-92.5	465.0	406.1	58.87	7.899			
14,700.0	11,916.0	14,588.6	11,726.0	30.1	30.7	65.89	-2,979.3	-91.9	465.0	404.8	60.16	7.729			
14,800.0	11,916.0	14,688.6	11,726.0	30.9	31.4	65.89	-3,079.3	-91.2	465.0	403.5	61.48	7.564			
14,900.0	11,916.0	14,788.6	11,726.0	31.6	32.2	65.89	-3,179.3	-90.6	465.0	402.2	62.80	7.404			
15,000.0	11,916.0	14,888.6	11,726.0	32.4	32.9	65.88	-3,279.3	-89.9	465.0	400.8	64.14	7.250			
15,100.0	11,916.0	14,988.6	11,726.0	33.1	33.7	65.88	-3,379.3	-89.3	465.0	399.5	65.48	7.100			
15,200.0	11,916.0	15,088.6	11,726.0	33.9	34.5	65.88	-3,479.3	-88.6	465.0	398.1	66.84	6.956			
15,300.0	11,916.0	15,188.6	11,726.0	34.7	35.3	65.88	-3,579.3	-88.0	465.0	396.7	68.21	6.817			
15,400.0	11,916.0	15,288.6	11,726.0	35.5	36.0	65.88	-3,679.3	-87.3	465.0	395.4	69.59	6.681			
15,500.0	11,916.0	15,388.6	11,726.0	36.2	36.8	65.88	-3,779.3	-86.7	464.9	394.0	70.97	6.551			
15,600.0	11,916.0	15,488.6	11,726.0	37.0	37.6	65.88	-3,879.3	-86.0	464.9	392.6	72.37	6.425			
15,700.0	11,916.0	15,588.6	11,726.0	37.8	38.4	65.88	-3,979.3	-85.4	464.9	391.2	73.77	6.302			
15,800.0	11,916.0	15,688.6	11,726.0	38.6	39.2	65.88	-4,079.2	-84.7	464.9	389.7	75.18	6.184			
15,900.0	11,916.0	15,788.6	11,726.0	39.4	40.0	65.88	-4,179.2	-84.1	464.9	388.3	76.60	6.070			
16,000.0	11,916.0	15,888.6	11,726.0	40.2	40.8	65.88	-4,279.2	-83.4	464.9	386.9	78.02	5.959			
16,100.0	11,916.0	15,988.6	11,726.0	41.0	41.6	65.88	-4,379.2	-82.8	464.9	385.5	79.45	5.852			
16,200.0	11,916.0	16,088.6	11,726.0	41.8	42.4	65.88	-4,479.2	-82.1	464.9	384.0	80.89	5.748			
16,300.0	11,916.0	16,188.6	11,726.0	42.6	43.2	65.88	-4,579.2	-81.5	464.9	382.6	82.33	5.647			
16,400.0	11,916.0	16,288.6	11,726.0	43.4	44.0	65.88	-4,679.2	-80.8	464.9	381.1	83.77	5.549			
16,500.0	11,916.0	16,388.6	11,726.0	44.2	44.8	65.88	-4,779.2	-80.2	464.9	379.7	85.23	5.455			
16,600.0	11,916.0	16,488.6	11,726.0	45.0	45.6	65.88	-4,879.2	-79.5	464.9	378.2	86.68	5.363			
16,700.0	11,916.0	16,588.6	11,726.0	45.8	46.4	65.88	-4,979.2	-78.9	464.9	376.7	88.14	5.274			
16,800.0	11,916.0	16,688.6	11,726.0	46.6	47.2	65.88	-5,079.2	-78.2	464.9	375.3	89.61	5.188			
16,900.0	11,916.0	16,788.6	11,726.0	47.4	48.0	65.88	-5,179.2	-77.6	464.9	373.8	91.08	5.104			
17,000.0	11,916.0	16,888.6	11,726.0	48.2	48.9	65.88	-5,279.2	-76.9	464.9	372.3	92.55	5.023			
17,100.0	11,916.0	16,988.6	11,726.0	49.0	49.7	65.88	-5,379.2	-76.3	464.9	370.8	94.03	4.944			
17,200.0	11,916.0	17,088.6	11,726.0	49.8	50.5	65.88	-5,479.2	-75.6	464.9	369.3	95.51	4.867			
17,300.0	11,916.0	17,188.6	11,726.0	50.7	51.3	65.88	-5,579.2	-75.0	464.8	367.9	96.99	4.793			
17,400.0	11,916.0	17,288.6	11,726.0	51.5	52.1	65.88	-5,679.2	-74.3	464.8	366.4	98.48	4.720			
17,500.0	11,916.0	17,388.6	11,726.0	52.3	53.0	65.88	-5,779.2	-73.7	464.8	364.9	99.97	4.650			

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 753H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11260-r.5 MWD+IFR1+SAG+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor
17,600.0	11,916.0	17,488.6	11,726.0	53.1	53.8	65.88	-5,879.2	-73.0	464.8	363.4	101.46	4.581
17,700.0	11,916.0	17,588.6	11,726.0	53.9	54.6	65.88	-5,979.2	-72.4	464.8	361.9	102.96	4.515
17,800.0	11,916.0	17,688.6	11,726.0	54.8	55.4	65.88	-6,079.2	-71.7	464.8	360.4	104.45	4.450
17,900.0	11,916.0	17,788.6	11,726.0	55.6	56.3	65.87	-6,179.2	-71.1	464.8	358.9	105.96	4.387
18,000.0	11,916.0	17,888.6	11,726.0	56.4	57.1	65.87	-6,279.2	-70.4	464.8	357.4	107.46	4.325
18,100.0	11,916.0	17,988.6	11,726.0	57.2	57.9	65.87	-6,379.2	-69.8	464.8	355.8	108.96	4.266
18,200.0	11,916.0	18,088.6	11,726.0	58.1	58.7	65.87	-6,479.2	-69.1	464.8	354.3	110.47	4.207
18,300.0	11,916.0	18,188.6	11,726.0	58.9	59.6	65.87	-6,579.2	-68.5	464.8	352.8	111.98	4.151
18,400.0	11,916.0	18,288.6	11,726.0	59.7	60.4	65.87	-6,679.2	-67.8	464.8	351.3	113.50	4.095
18,500.0	11,916.0	18,388.6	11,726.0	60.6	61.2	65.87	-6,779.2	-67.2	464.8	349.8	115.01	4.041
18,600.0	11,916.0	18,488.6	11,726.0	61.4	62.1	65.87	-6,879.2	-66.5	464.8	348.3	116.53	3.989
18,700.0	11,916.0	18,588.6	11,726.0	62.2	62.9	65.87	-6,979.2	-65.9	464.8	346.7	118.04	3.937
18,800.0	11,916.0	18,688.6	11,726.0	63.1	63.7	65.87	-7,079.2	-65.2	464.8	345.2	119.56	3.887
18,900.0	11,916.0	18,788.6	11,726.0	63.9	64.6	65.87	-7,179.2	-64.6	464.8	343.7	121.09	3.838
19,000.0	11,916.0	18,888.6	11,726.0	64.7	65.4	65.87	-7,279.2	-63.9	464.8	342.2	122.61	3.791
19,100.0	11,916.0	18,988.6	11,726.0	65.6	66.2	65.87	-7,379.2	-63.2	464.8	340.6	124.13	3.744
19,200.0	11,916.0	19,088.6	11,726.0	66.4	67.1	65.87	-7,479.2	-62.6	464.7	339.1	125.66	3.698
19,300.0	11,916.0	19,188.6	11,726.0	67.2	67.9	65.87	-7,579.2	-61.9	464.7	337.6	127.19	3.654
19,400.0	11,916.0	19,288.6	11,726.0	68.1	68.8	65.87	-7,679.2	-61.3	464.7	336.0	128.72	3.611
19,500.0	11,916.0	19,388.6	11,726.0	68.9	69.6	65.87	-7,779.2	-60.6	464.7	334.5	130.25	3.568
19,600.0	11,916.0	19,488.6	11,726.0	69.7	70.4	65.87	-7,879.2	-60.0	464.7	332.9	131.78	3.527
19,700.0	11,916.0	19,588.6	11,726.0	70.6	71.3	65.87	-7,979.2	-59.3	464.7	331.4	133.31	3.486
19,800.0	11,916.0	19,688.6	11,726.0	71.4	72.1	65.87	-8,079.2	-58.7	464.7	329.9	134.85	3.446
19,900.0	11,916.0	19,788.6	11,726.0	72.2	72.9	65.87	-8,179.2	-58.0	464.7	328.3	136.38	3.407
20,000.0	11,916.0	19,888.6	11,726.0	73.1	73.8	65.87	-8,279.2	-57.4	464.7	326.8	137.92	3.369
20,100.0	11,916.0	19,988.6	11,726.0	73.9	74.6	65.87	-8,379.2	-56.7	464.7	325.2	139.46	3.332
20,200.0	11,916.0	20,088.6	11,726.0	74.8	75.5	65.87	-8,479.2	-56.1	464.7	323.7	140.99	3.296
20,300.0	11,916.0	20,188.6	11,726.0	75.6	76.3	65.87	-8,579.2	-55.4	464.7	322.2	142.53	3.260
20,400.0	11,916.0	20,288.6	11,726.0	76.4	77.1	65.87	-8,679.2	-54.8	464.7	320.6	144.07	3.225
20,500.0	11,916.0	20,388.6	11,726.0	77.3	78.0	65.87	-8,779.1	-54.1	464.7	319.1	145.62	3.191
20,600.0	11,916.0	20,488.6	11,726.0	78.1	78.8	65.87	-8,879.1	-53.5	464.7	317.5	147.16	3.158
20,700.0	11,916.0	20,588.6	11,726.0	79.0	79.7	65.87	-8,979.1	-52.8	464.7	316.0	148.70	3.125
20,800.0	11,916.0	20,688.6	11,726.0	79.8	80.5	65.86	-9,079.1	-52.2	464.7	314.4	150.25	3.093
20,900.0	11,916.0	20,788.6	11,726.0	80.7	81.4	65.86	-9,179.1	-51.5	464.7	312.9	151.79	3.061
21,000.0	11,916.0	20,888.6	11,726.0	81.5	82.2	65.86	-9,279.1	-50.9	464.7	311.3	153.34	3.030
21,100.0	11,916.0	20,988.6	11,726.0	82.3	83.0	65.86	-9,379.1	-50.2	464.6	309.8	154.89	3.000 Normal Operations
21,200.0	11,916.0	21,088.6	11,726.0	83.2	83.9	65.86	-9,479.1	-49.6	464.6	308.2	156.43	2.970 Normal Operations
21,300.0	11,916.0	21,188.6	11,726.0	84.0	84.7	65.86	-9,579.1	-48.9	464.6	306.7	157.98	2.941 Normal Operations
21,400.0	11,916.0	21,288.6	11,726.0	84.9	85.6	65.86	-9,679.1	-48.3	464.6	305.1	159.53	2.912 Normal Operations
21,500.0	11,916.0	21,388.6	11,726.0	85.7	86.4	65.86	-9,779.1	-47.6	464.6	303.5	161.08	2.884 Normal Operations
21,600.0	11,916.0	21,488.6	11,726.0	86.6	87.3	65.86	-9,879.1	-47.0	464.6	302.0	162.63	2.857 Normal Operations
21,700.0	11,916.0	21,588.6	11,726.0	87.4	88.1	65.86	-9,979.1	-46.3	464.6	300.4	164.18	2.830 Normal Operations
21,700.6	11,916.0	21,589.3	11,726.0	87.4	88.1	65.86	-9,979.8	-46.3	464.6	300.4	164.19	2.830 Normal Operations
21,700.7	11,916.0	21,589.3	11,726.0	87.4	88.1	65.86	-9,979.8	-46.3	464.6	300.4	164.19	2.830 Normal Operations, 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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 754Y - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-56.27	66.6	-99.7	119.9					
100.0	100.0	101.4	101.4	3.0	3.0	-56.51	65.8	-99.5	119.3	112.5	6.83	17.464		
200.0	200.0	201.7	201.7	3.2	3.1	-56.98	64.4	-99.1	118.2	111.2	6.98	16.930		
300.0	300.0	301.1	301.1	3.3	3.1	-57.21	63.3	-98.3	116.9	109.8	7.13	16.389		
400.0	400.0	400.6	400.5	3.4	3.1	-56.97	63.3	-97.4	116.2	108.9	7.29	15.948		
500.0	500.0	500.4	500.4	3.5	3.1	-56.50	64.0	-96.8	116.0	108.6	7.43	15.618		
600.0	600.0	600.6	600.5	3.7	3.2	-55.88	64.8	-95.7	115.5	108.0	7.58	15.253		
700.0	700.0	701.3	701.2	3.8	3.2	-55.39	65.4	-94.8	115.2	107.4	7.72	14.919		
800.0	800.0	801.0	800.9	3.9	3.3	-55.20	65.1	-93.7	114.1	106.3	7.88	14.493		
900.0	900.0	901.1	901.1	4.0	3.3	-54.88	65.2	-92.7	113.3	105.2	8.03	14.105		
1,000.0	1,000.0	1,001.7	1,001.7	4.2	3.4	-54.35	65.4	-91.1	112.1	104.0	8.19	13.699		
1,100.0	1,100.0	1,101.5	1,101.4	4.3	3.5	-53.76	65.6	-89.5	110.9	102.6	8.34	13.301		
1,188.0	1,188.0	1,188.1	1,188.0	4.4	3.5	-53.53	65.3	-88.4	109.9	101.4	8.49	12.949 CC, ES, SF		
1,200.0	1,200.0	1,188.1	1,188.0	4.4	3.5	-53.53	65.3	-88.4	110.5	102.1	8.48	13.041		
1,300.0	1,300.0	1,188.1	1,188.0	4.5	3.5	-53.53	65.3	-88.4	156.9	149.4	7.48	20.969		
1,400.0	1,400.0	1,188.1	1,188.0	4.6	3.5	-53.53	65.3	-88.4	238.8	231.9	6.85	34.863		
1,500.0	1,500.0	1,188.1	1,188.0	4.8	3.5	-53.53	65.3	-88.4	330.8	324.2	6.64	49.830		
1,600.0	1,600.0	1,188.1	1,188.0	4.8	3.5	-140.30	65.3	-88.4	426.8	420.2	6.60	64.637		
1,700.0	1,699.8	1,188.1	1,188.0	5.0	3.5	-133.51	65.3	-88.4	524.8	518.1	6.63	79.107		
1,800.0	1,799.5	1,188.1	1,188.0	5.2	3.5	-122.55	65.3	-88.4	623.7	617.0	6.69	93.224		
1,850.0	1,849.1	1,188.1	1,188.0	5.2	3.5	-114.79	65.3	-88.4	673.4	666.7	6.73	100.122		
1,900.0	1,898.8	1,188.1	1,188.0	5.2	3.5	-114.79	65.3	-88.4	723.1	716.4	6.76	106.941		
2,000.0	1,998.0	1,188.1	1,188.0	5.4	3.5	-114.79	65.3	-88.4	822.7	815.9	6.84	120.257		
2,100.0	2,097.3	1,188.1	1,188.0	5.6	3.5	-114.79	65.3	-88.4	922.4	915.5	6.93	133.136		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 755H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		100-r.5 SDI_KPR_WL_NS-CT <th colspan="4">Rule Assigned:</th> <th>Offset Well Error:</th> <td>3.0 usft</td>					Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-56.30	49.7	-74.6	89.6					
100.0	100.0	99.8	99.8	3.0	3.0	-56.32	49.8	-74.7	89.8	82.9	6.83	13.140		
200.0	200.0	199.1	199.1	3.2	3.1	-56.49	50.0	-75.5	90.5	83.6	6.98	12.971		
300.0	300.0	299.6	299.5	3.3	3.1	-57.09	49.6	-76.6	91.3	84.1	7.13	12.801		
400.0	400.0	400.2	400.2	3.4	3.1	-57.62	49.0	-77.2	91.4	84.2	7.27	12.568		
500.0	500.0	500.7	500.6	3.5	3.1	-57.72	48.6	-76.9	90.9	83.5	7.41	12.279		
600.0	600.0	600.4	600.3	3.7	3.2	-58.31	47.5	-76.9	90.4	82.8	7.54	11.984		
700.0	700.0	701.0	700.9	3.8	3.2	-59.18	46.0	-77.0	89.7	82.0	7.68	11.688		
800.0	800.0	801.2	801.2	3.9	3.2	-59.59	44.8	-76.3	88.4	80.6	7.81	11.323		
900.0	900.0	900.6	900.5	4.0	3.3	-59.48	44.4	-75.4	87.5	79.6	7.95	11.011		
1,000.0	1,000.0	1,001.4	1,001.3	4.2	3.3	-58.64	45.1	-73.9	86.6	78.5	8.09	10.706		
1,100.0	1,100.0	1,101.3	1,101.2	4.3	3.3	-57.54	45.6	-71.7	85.0	76.8	8.23	10.325		
1,200.0	1,200.0	1,200.8	1,200.7	4.4	3.3	-56.81	45.9	-70.2	83.9	75.5	8.38	10.010		
1,300.0	1,300.0	1,300.4	1,300.2	4.5	3.4	-57.21	45.1	-70.1	83.4	74.8	8.52	9.787		
1,364.9	1,364.9	1,365.0	1,364.9	4.6	3.4	-57.37	44.8	-70.0	83.1	74.5	8.61	9.657 CC, ES, SF		
1,400.0	1,400.0	1,365.0	1,364.9	4.6	3.4	-57.37	44.8	-70.0	90.2	81.9	8.34	10.821		
1,500.0	1,500.0	1,365.0	1,364.9	4.8	3.4	-57.37	44.8	-70.0	158.6	151.5	7.13	22.235		
1,600.0	1,600.0	1,365.0	1,364.9	4.8	3.4	-145.85	44.8	-70.0	249.9	243.0	6.82	36.645		
1,700.0	1,699.8	1,365.0	1,364.9	5.0	3.4	-141.19	44.8	-70.0	346.6	339.8	6.78	51.153		
1,800.0	1,799.5	1,365.0	1,364.9	5.2	3.4	-132.94	44.8	-70.0	445.2	438.4	6.81	65.403		
1,850.0	1,849.1	1,365.0	1,364.9	5.2	3.4	-126.64	44.8	-70.0	494.8	488.0	6.84	72.385		
1,900.0	1,898.8	1,365.0	1,364.9	5.2	3.4	-126.64	44.8	-70.0	544.6	537.7	6.87	79.293		
2,000.0	1,998.0	1,365.0	1,364.9	5.4	3.4	-126.64	44.8	-70.0	644.2	637.2	6.94	92.812		
2,100.0	2,097.3	1,365.0	1,364.9	5.6	3.4	-126.64	44.8	-70.0	743.8	736.8	7.02	105.918		
2,200.0	2,196.5	1,365.0	1,364.9	5.7	3.4	-126.64	44.8	-70.0	843.6	836.5	7.11	118.602		
2,300.0	2,295.8	1,365.0	1,364.9	5.9	3.4	-126.64	44.8	-70.0	943.4	936.2	7.21	130.857		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 755H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11339-r.5 MWD+IFR1+SAG+FDIR													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)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-56.30	49.7	-74.6	89.6				
100.0	100.0	100.0	100.0	3.0	3.0	-56.30	49.7	-74.6	89.6	82.5	7.07	12.670	
200.0	200.0	200.0	200.0	3.2	3.2	-56.30	49.7	-74.6	89.6	82.3	7.32	12.249	
300.0	300.0	300.0	300.0	3.3	3.3	-56.30	49.7	-74.6	89.6	82.1	7.55	11.866	
400.0	400.0	400.0	400.0	3.4	3.4	-56.30	49.7	-74.6	89.6	81.8	7.78	11.516	
500.0	500.0	500.0	500.0	3.5	3.5	-56.30	49.7	-74.6	89.6	81.6	8.01	11.192	
600.0	600.0	600.0	600.0	3.7	3.7	-56.30	49.7	-74.6	89.6	81.4	8.23	10.894	
700.0	700.0	700.0	700.0	3.8	3.8	-56.30	49.7	-74.6	89.6	81.2	8.44	10.616	
800.0	800.0	800.0	800.0	3.9	3.9	-56.30	49.7	-74.6	89.6	81.0	8.65	10.357	
900.0	900.0	900.0	900.0	4.0	4.0	-56.30	49.7	-74.6	89.6	80.8	8.86	10.115	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.30	49.7	-74.6	89.6	80.6	9.06	9.887	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.30	49.7	-74.6	89.6	80.4	9.26	9.673	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-56.30	49.7	-74.6	89.6	80.2	9.46	9.471	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-56.30	49.7	-74.6	89.6	80.0	9.66	9.280	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-56.30	49.7	-74.6	89.6	79.8	9.85	9.099	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.30	49.7	-74.6	89.6	79.6	10.04	8.928	
1,600.0	1,600.0	1,602.5	1,602.5	4.8	4.9	-147.20	49.8	-72.7	89.7	79.4	10.22	8.771	
1,700.0	1,699.8	1,705.1	1,704.9	5.0	5.0	-146.91	50.2	-67.2	89.8	79.2	10.66	8.425	
1,800.0	1,799.5	1,807.6	1,807.0	5.2	5.2	-146.41	50.9	-58.1	90.1	79.0	11.08	8.129	
1,850.0	1,849.1	1,858.8	1,857.9	5.2	5.3	-146.09	51.3	-52.2	90.3	79.1	11.22	8.048	
1,900.0	1,898.8	1,910.1	1,908.7	5.2	5.4	-145.57	51.8	-45.3	90.1	78.8	11.35	7.942	
2,000.0	1,998.0	2,012.4	2,009.7	5.4	5.7	-143.35	52.9	-29.0	87.8	76.2	11.68	7.520	
2,100.0	2,097.3	2,114.1	2,109.4	5.6	5.9	-139.32	54.3	-9.2	83.2	71.2	11.99	6.936	
2,200.0	2,196.5	2,213.7	2,206.8	5.7	6.1	-134.19	55.7	11.5	78.1	65.8	12.27	6.365	
2,300.0	2,295.8	2,313.3	2,304.2	5.9	6.2	-128.41	57.2	32.1	73.7	61.2	12.54	5.878	
2,400.0	2,395.0	2,412.9	2,401.7	6.1	6.4	-121.97	58.6	52.8	70.2	57.4	12.81	5.481	
2,500.0	2,494.3	2,512.5	2,499.1	6.2	6.6	-114.97	60.1	73.4	67.7	54.6	13.08	5.174	
2,600.0	2,593.5	2,612.1	2,596.5	6.4	6.7	-107.54	61.5	94.1	66.2	52.9	13.35	4.961	
2,674.7	2,667.7	2,686.5	2,669.3	6.5	6.8	-101.85	62.6	109.5	65.9	52.3	13.56	4.860 CC	
2,700.0	2,692.8	2,711.7	2,694.0	6.6	6.9	-99.92	63.0	114.8	65.9	52.3	13.63	4.837 ES	
2,800.0	2,792.0	2,811.3	2,791.4	6.7	7.1	-92.36	64.4	135.4	66.8	52.9	13.93	4.796	
2,900.0	2,891.3	2,910.9	2,888.8	6.9	7.2	-85.12	65.8	156.1	68.8	54.6	14.25	4.830	
3,000.0	2,990.6	3,010.6	2,986.3	7.1	7.4	-78.39	67.3	176.7	71.9	57.3	14.59	4.926	
3,100.0	3,089.8	3,110.2	3,083.7	7.2	7.6	-72.28	68.7	197.4	75.8	60.9	14.95	5.073	
3,200.0	3,189.1	3,209.8	3,181.1	7.4	7.8	-66.83	70.2	218.1	80.6	65.3	15.32	5.259	
3,300.0	3,288.3	3,309.4	3,278.6	7.6	8.0	-62.02	71.6	238.7	86.0	70.3	15.70	5.475	
3,400.0	3,387.6	3,409.0	3,376.0	7.8	8.1	-57.79	73.1	259.4	91.9	75.8	16.08	5.712	
3,500.0	3,486.8	3,508.6	3,473.4	7.9	8.3	-54.10	74.5	280.0	98.2	81.7	16.47	5.963	
3,600.0	3,586.1	3,608.2	3,570.9	8.1	8.5	-50.86	76.0	300.7	104.9	88.1	16.86	6.223	
3,700.0	3,685.3	3,707.8	3,668.3	8.3	8.7	-48.02	77.4	321.4	111.9	94.7	17.25	6.488	
3,800.0	3,784.6	3,807.4	3,765.7	8.5	8.9	-45.52	78.8	342.0	119.2	101.5	17.64	6.755	
3,896.1	3,880.0	3,903.2	3,859.4	8.6	9.1	-43.39	80.2	361.9	126.3	108.3	18.01	7.014	
3,900.0	3,883.8	3,907.0	3,863.2	8.6	9.1	-43.31	80.3	362.7	126.6	108.6	18.03	7.025	
4,000.0	3,983.2	4,006.6	3,960.5	9.0	9.3	-41.14	81.7	383.3	135.0	116.4	18.57	7.266	
4,100.0	4,082.8	4,105.9	4,057.7	9.1	9.5	-38.80	83.2	403.9	144.8	125.8	18.97	7.634	
4,200.0	4,182.5	4,205.0	4,154.7	9.3	9.7	-36.39	84.6	424.5	156.3	136.9	19.36	8.070	
4,300.0	4,282.3	4,303.9	4,251.4	9.5	9.9	-34.00	86.0	445.0	169.4	149.7	19.76	8.576	
4,400.0	4,382.2	4,402.5	4,347.8	9.6	10.1	-31.68	87.5	465.4	184.3	164.2	20.14	9.150	
4,500.0	4,482.1	4,500.8	4,444.0	9.8	10.2	-29.48	88.9	485.8	201.0	180.4	20.52	9.793	
4,596.1	4,578.3	4,595.0	4,536.1	9.9	10.4	63.50	90.3	505.4	218.6	197.8	20.84	10.489	
4,600.0	4,582.1	4,598.8	4,539.8	9.9	10.4	63.58	90.3	506.2	219.4	198.5	20.86	10.520	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 755H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11339-r.5 MWD+IFR1+SAG+FDIR							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,700.0	4,682.1	4,696.6	4,635.5	10.1	10.6	65.48	91.7	526.4	238.8	217.5	21.29	11.216		
4,800.0	4,782.1	4,794.5	4,731.2	10.2	10.8	67.09	93.2	546.7	258.4	236.8	21.59	11.970		
4,900.0	4,882.1	4,892.3	4,826.9	10.2	11.0	68.47	94.6	567.0	278.2	256.3	21.88	12.713		
5,000.0	4,982.1	4,990.1	4,922.5	10.3	11.2	69.67	96.0	587.3	298.1	276.0	22.18	13.444		
5,100.0	5,082.1	5,087.9	5,018.2	10.4	11.4	70.73	97.4	607.6	318.2	295.7	22.47	14.159		
5,200.0	5,182.1	5,190.6	5,118.8	10.5	11.6	71.67	98.9	628.3	337.7	314.9	22.78	14.827		
5,300.0	5,282.1	5,295.0	5,221.5	10.5	11.8	72.45	100.2	647.5	355.6	332.5	23.08	15.406		
5,400.0	5,382.1	5,400.1	5,325.1	10.6	12.0	73.09	101.4	664.9	371.8	348.5	23.38	15.903		
5,500.0	5,482.1	5,505.9	5,429.7	10.7	12.3	73.61	102.5	680.5	386.3	362.6	23.67	16.320		
5,600.0	5,582.1	5,612.1	5,535.0	10.7	12.4	74.04	103.5	694.3	399.0	375.0	23.95	16.659		
5,700.0	5,682.1	5,718.9	5,641.1	10.8	12.6	74.39	104.3	706.2	409.9	385.7	24.22	16.923		
5,800.0	5,782.1	5,826.1	5,747.8	10.9	12.8	74.66	105.0	716.1	419.0	394.5	24.48	17.115		
5,900.0	5,882.1	5,933.6	5,855.0	11.0	13.0	74.87	105.6	724.0	426.3	401.5	24.73	17.237		
6,000.0	5,982.1	6,041.3	5,962.6	11.0	13.2	75.02	106.0	730.0	431.7	406.7	24.97	17.292		
6,100.0	6,082.1	6,149.3	6,070.5	11.1	13.4	75.12	106.3	733.9	435.3	410.1	25.19	17.283		
6,200.0	6,182.1	6,257.4	6,178.6	11.2	13.5	75.17	106.4	735.9	437.1	411.7	25.37	17.227		
6,300.0	6,282.1	6,360.9	6,282.1	11.3	13.6	75.18	106.4	736.1	437.2	411.7	25.51	17.141		
6,400.0	6,382.1	6,460.9	6,382.1	11.3	13.6	75.18	106.4	736.1	437.2	411.6	25.63	17.057		
6,500.0	6,482.1	6,560.9	6,482.1	11.4	13.7	75.18	106.4	736.1	437.2	411.5	25.76	16.972		
6,600.0	6,582.1	6,660.9	6,582.1	11.5	13.7	75.18	106.4	736.1	437.2	411.3	25.89	16.888		
6,700.0	6,682.1	6,760.9	6,682.1	11.6	13.8	75.18	106.4	736.1	437.2	411.2	26.02	16.805		
6,800.0	6,782.1	6,860.9	6,782.1	11.6	13.9	75.18	106.4	736.1	437.2	411.1	26.15	16.722		
6,900.0	6,882.1	6,960.9	6,882.1	11.7	13.9	75.18	106.4	736.1	437.2	411.0	26.28	16.639		
7,000.0	6,982.1	7,060.9	6,982.1	11.8	14.0	75.18	106.4	736.1	437.2	410.8	26.41	16.558		
7,100.0	7,082.1	7,160.9	7,082.1	11.9	14.0	75.18	106.4	736.1	437.2	410.7	26.54	16.476		
7,200.0	7,182.1	7,260.9	7,182.1	11.9	14.1	75.18	106.4	736.1	437.2	410.6	26.67	16.396		
7,300.0	7,282.1	7,360.9	7,282.1	12.0	14.1	75.18	106.4	736.1	437.2	410.4	26.80	16.316		
7,400.0	7,382.1	7,460.9	7,382.1	12.1	14.2	75.18	106.4	736.1	437.2	410.3	26.93	16.236		
7,500.0	7,482.1	7,560.9	7,482.1	12.2	14.3	75.18	106.4	736.1	437.2	410.2	27.06	16.157		
7,600.0	7,582.1	7,660.9	7,582.1	12.2	14.3	75.18	106.4	736.1	437.2	410.0	27.19	16.079		
7,700.0	7,682.1	7,760.9	7,682.1	12.3	14.4	75.18	106.4	736.1	437.2	409.9	27.33	16.001		
7,800.0	7,782.1	7,860.9	7,782.1	12.4	14.4	75.18	106.4	736.1	437.2	409.8	27.46	15.924		
7,900.0	7,882.1	7,960.9	7,882.1	12.5	14.5	75.18	106.4	736.1	437.2	409.6	27.59	15.847		
8,000.0	7,982.1	8,060.9	7,982.1	12.6	14.6	75.18	106.4	736.1	437.2	409.5	27.72	15.771		
8,100.0	8,082.1	8,160.9	8,082.1	12.6	14.6	75.18	106.4	736.1	437.2	409.4	27.86	15.696		
8,200.0	8,182.1	8,260.9	8,182.1	12.7	14.7	75.18	106.4	736.1	437.2	409.2	27.99	15.621		
8,300.0	8,282.1	8,360.9	8,282.1	12.8	14.7	75.18	106.4	736.1	437.2	409.1	28.12	15.546		
8,400.0	8,382.1	8,460.9	8,382.1	12.9	14.8	75.18	106.4	736.1	437.2	409.0	28.26	15.472		
8,500.0	8,482.1	8,560.9	8,482.1	12.9	14.9	75.18	106.4	736.1	437.2	408.8	28.39	15.399		
8,600.0	8,582.1	8,660.9	8,582.1	13.0	14.9	75.18	106.4	736.1	437.2	408.7	28.53	15.326		
8,700.0	8,682.1	8,760.9	8,682.1	13.1	15.0	75.18	106.4	736.1	437.2	408.6	28.66	15.254		
8,800.0	8,782.1	8,860.9	8,782.1	13.2	15.0	75.18	106.4	736.1	437.2	408.4	28.80	15.182		
8,900.0	8,882.1	8,960.9	8,882.1	13.2	15.1	75.18	106.4	736.1	437.2	408.3	28.94	15.111		
9,000.0	8,982.1	9,060.9	8,982.1	13.3	15.2	75.18	106.4	736.1	437.2	408.2	29.07	15.040		
9,100.0	9,082.1	9,160.9	9,082.1	13.4	15.2	75.18	106.4	736.1	437.2	408.0	29.21	14.970		
9,200.0	9,182.1	9,260.9	9,182.1	13.5	15.3	75.18	106.4	736.1	437.2	407.9	29.34	14.900		
9,300.0	9,282.1	9,360.9	9,282.1	13.5	15.4	75.18	106.4	736.1	437.2	407.8	29.48	14.831		
9,400.0	9,382.1	9,460.9	9,382.1	13.6	15.4	75.18	106.4	736.1	437.2	407.6	29.62	14.763		
9,500.0	9,482.1	9,560.9	9,482.1	13.7	15.5	75.18	106.4	736.1	437.2	407.5	29.75	14.695		
9,600.0	9,582.1	9,660.9	9,582.1	13.8	15.5	75.18	106.4	736.1	437.2	407.3	29.89	14.627		
9,700.0	9,682.1	9,760.9	9,682.1	13.9	15.6	75.18	106.4	736.1	437.2	407.2	30.03	14.560		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 755H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11339-r.5 MWD+IFR1+SAG+FDIR													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)	No-Go Distance (usft)	Separation Factor	Warning
9,800.0	9,782.1	9,860.9	9,782.1	13.9	15.7	75.18	106.4	736.1	437.2	407.1	30.17	14.493	
9,900.0	9,882.1	9,960.9	9,882.1	14.0	15.7	75.18	106.4	736.1	437.2	406.9	30.31	14.427	
10,000.0	9,982.1	10,060.9	9,982.1	14.1	15.8	75.18	106.4	736.1	437.2	406.8	30.44	14.362	
10,100.0	10,082.1	10,160.9	10,082.1	14.2	15.9	75.18	106.4	736.1	437.2	406.6	30.58	14.297	
10,200.0	10,182.1	10,260.9	10,182.1	14.2	15.9	75.18	106.4	736.1	437.2	406.5	30.72	14.232	
10,300.0	10,282.1	10,360.9	10,282.1	14.3	16.0	75.18	106.4	736.1	437.2	406.4	30.86	14.168	
10,400.0	10,382.1	10,460.9	10,382.1	14.4	16.1	75.18	106.4	736.1	437.2	406.2	31.00	14.104	
10,500.0	10,482.1	10,560.9	10,482.1	14.5	16.1	75.18	106.4	736.1	437.2	406.1	31.14	14.041	
10,600.0	10,582.1	10,660.9	10,582.1	14.6	16.2	75.18	106.4	736.1	437.2	406.0	31.28	13.978	
10,700.0	10,682.1	10,760.9	10,682.1	14.6	16.3	75.18	106.4	736.1	437.2	405.8	31.42	13.916	
10,800.0	10,782.1	10,860.9	10,782.1	14.7	16.3	75.18	106.4	736.1	437.2	405.7	31.56	13.854	
10,900.0	10,882.1	10,960.9	10,882.1	14.8	16.4	75.18	106.4	736.1	437.2	405.5	31.70	13.793	
11,000.0	10,982.1	11,060.9	10,982.1	14.9	16.4	75.18	106.4	736.1	437.2	405.4	31.84	13.732	
11,100.0	11,082.1	11,160.9	11,082.1	14.9	16.5	75.18	106.4	736.1	437.2	405.3	31.98	13.671	
11,200.0	11,182.1	11,260.9	11,182.1	15.0	16.6	75.18	106.4	736.1	437.2	405.1	32.12	13.611	
11,300.0	11,282.1	11,370.8	11,291.9	15.1	16.6	75.43	104.4	736.1	436.9	404.7	32.15	13.588	
11,400.0	11,382.1	11,493.5	11,411.3	15.2	16.6	78.86	77.8	736.2	432.0	399.7	32.30	13.375	
11,456.4	11,438.5	11,554.7	11,467.4	15.2	16.7	82.09	53.3	736.4	428.1	395.7	32.33	13.239	
11,475.0	11,457.1	11,573.6	11,484.0	15.2	16.7	-96.52	44.3	736.5	426.9	394.6	32.31	13.213	
11,500.0	11,482.1	11,598.3	11,505.2	15.2	16.7	-95.16	31.5	736.5	425.6	393.3	32.30	13.177	
11,525.0	11,506.9	11,622.4	11,525.2	15.2	16.7	-93.80	18.1	736.6	424.6	392.3	32.29	13.151	
11,550.0	11,531.5	11,645.9	11,544.0	15.2	16.7	-92.43	4.0	736.7	423.9	391.6	32.28	13.133	
11,575.0	11,555.9	11,668.9	11,561.7	15.2	16.7	-91.07	-10.7	736.8	423.5	391.2	32.27	13.122	
11,594.7	11,574.9	11,686.7	11,574.9	15.2	16.7	-90.01	-22.6	736.9	423.4	391.1	32.28	13.117	
11,600.0	11,580.0	11,691.4	11,578.4	15.2	16.8	-89.72	-25.9	736.9	423.4	391.1	32.28	13.116	
11,625.0	11,603.7	11,713.5	11,593.9	15.2	16.8	-88.37	-41.5	737.0	423.6	391.3	32.31	13.113	
11,650.0	11,626.9	11,735.1	11,608.5	15.2	16.8	-87.04	-57.4	737.1	424.1	391.8	32.35	13.110	
11,675.0	11,649.6	11,756.4	11,622.1	15.2	16.8	-85.72	-73.8	737.2	424.9	392.4	32.42	13.106	
11,700.0	11,671.7	11,777.3	11,634.8	15.2	16.8	-84.41	-90.4	737.3	425.9	393.4	32.51	13.100	
11,725.0	11,693.2	11,797.8	11,646.5	15.3	16.9	-83.12	-107.3	737.4	427.1	394.5	32.63	13.091	
11,750.0	11,714.0	11,818.1	11,657.3	15.3	16.9	-81.85	-124.4	737.6	428.5	395.8	32.77	13.077	
11,775.0	11,734.0	11,838.1	11,667.3	15.3	16.9	-80.61	-141.7	737.7	430.2	397.2	32.94	13.058	
11,800.0	11,753.2	11,857.8	11,676.4	15.3	16.9	-79.40	-159.2	737.8	432.0	398.9	33.14	13.034	
11,825.0	11,771.6	11,877.2	11,684.7	15.3	17.0	-78.21	-176.8	737.9	434.0	400.6	33.37	13.006	
11,850.0	11,789.0	11,896.5	11,692.1	15.3	17.0	-77.06	-194.5	738.0	436.1	402.5	33.61	12.974	
11,875.0	11,805.5	11,915.5	11,698.8	15.3	17.0	-75.94	-212.4	738.1	438.3	404.4	33.87	12.938	
11,900.0	11,821.0	11,934.4	11,704.7	15.4	17.1	-74.86	-230.3	738.2	440.5	406.4	34.15	12.899	
11,925.0	11,835.4	11,953.1	11,709.9	15.4	17.1	-73.81	-248.2	738.4	442.9	408.4	34.44	12.858	
11,950.0	11,848.8	11,971.6	11,714.3	15.4	17.1	-72.81	-266.2	738.5	445.3	410.5	34.74	12.816	
11,975.0	11,861.0	11,990.0	11,718.0	15.5	17.2	-71.84	-284.2	738.6	447.7	412.6	35.05	12.773	
12,000.0	11,872.1	12,008.2	11,721.0	15.5	17.2	-70.93	-302.2	738.7	450.1	414.7	35.35	12.731	
12,025.0	11,881.9	12,025.0	11,723.1	15.5	17.2	-70.09	-318.9	738.8	452.5	416.8	35.67	12.687	
12,050.0	11,890.6	12,044.3	11,724.8	15.6	17.3	-69.22	-338.1	738.9	454.9	418.9	35.95	12.651	
12,075.0	11,898.0	12,062.2	11,725.7	15.6	17.3	-68.44	-355.9	739.1	457.2	420.9	36.24	12.613	
12,100.0	11,904.2	12,080.9	11,726.0	15.7	17.4	-67.68	-374.7	739.2	459.4	422.9	36.52	12.580	
12,125.0	11,909.0	12,105.4	11,726.0	15.7	17.4	-66.92	-399.2	739.3	461.3	424.6	36.74	12.555	
12,150.0	11,912.6	12,130.2	11,726.0	15.8	17.5	-66.36	-423.9	739.5	462.7	425.8	36.94	12.527	
12,175.0	11,914.9	12,155.1	11,726.0	15.8	17.5	-66.00	-448.8	739.7	463.7	426.6	37.10	12.498	
12,200.0	11,915.9	12,180.1	11,726.0	15.9	17.6	-65.84	-473.8	739.8	464.1	426.9	37.22	12.468	
12,206.4	11,916.0	12,186.4	11,726.0	15.9	17.6	-65.83	-480.2	739.9	464.1	426.9	37.25	12.460	
12,300.0	11,916.0	12,280.1	11,726.0	16.1	17.9	-65.83	-573.8	740.5	464.1	426.5	37.65	12.327	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 755H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11339-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,400.0	11,916.0	12,380.1	11,726.0	16.4	18.2	-65.83	-673.8	741.1	464.1	426.0	38.14	12.168	
12,500.0	11,916.0	12,480.1	11,726.0	16.8	18.6	-65.83	-773.8	741.8	464.1	425.4	38.70	11.994	
12,600.0	11,916.0	12,580.1	11,726.0	17.2	19.0	-65.83	-873.8	742.4	464.1	424.8	39.31	11.808	
12,700.0	11,916.0	12,680.1	11,726.0	17.6	19.4	-65.83	-973.8	743.1	464.1	424.2	39.97	11.612	
12,800.0	11,916.0	12,780.1	11,726.0	18.0	19.8	-65.84	-1,073.8	743.7	464.1	423.4	40.69	11.407	
12,900.0	11,916.0	12,880.1	11,726.0	18.5	20.3	-65.84	-1,173.8	744.4	464.1	422.7	41.46	11.196	
13,000.0	11,916.0	12,980.1	11,726.0	19.0	20.8	-65.84	-1,273.8	745.0	464.1	421.9	42.27	10.981	
13,100.0	11,916.0	13,080.1	11,726.0	19.5	21.3	-65.84	-1,373.8	745.7	464.2	421.0	43.13	10.762	
13,200.0	11,916.0	13,180.1	11,726.0	20.1	21.8	-65.84	-1,473.8	746.3	464.2	420.1	44.03	10.543	
13,300.0	11,916.0	13,280.1	11,726.0	20.7	22.4	-65.84	-1,573.8	747.0	464.2	419.2	44.96	10.323	
13,400.0	11,916.0	13,380.1	11,726.0	21.3	22.9	-65.84	-1,673.8	747.6	464.2	418.2	45.94	10.104	
13,500.0	11,916.0	13,480.1	11,726.0	21.9	23.5	-65.84	-1,773.8	748.3	464.2	417.2	46.95	9.887	
13,600.0	11,916.0	13,580.1	11,726.0	22.5	24.1	-65.84	-1,873.8	748.9	464.2	416.2	47.99	9.673	
13,700.0	11,916.0	13,680.1	11,726.0	23.1	24.8	-65.84	-1,973.8	749.6	464.2	415.1	49.06	9.462	
13,800.0	11,916.0	13,780.1	11,726.0	23.8	25.4	-65.84	-2,073.8	750.2	464.2	414.0	50.16	9.255	
13,900.0	11,916.0	13,880.1	11,726.0	24.5	26.0	-65.84	-2,173.8	750.9	464.2	412.9	51.28	9.052	
14,000.0	11,916.0	13,980.1	11,726.0	25.1	26.7	-65.84	-2,273.8	751.5	464.2	411.8	52.43	8.854	
14,100.0	11,916.0	14,080.1	11,726.0	25.8	27.4	-65.84	-2,373.8	752.2	464.2	410.6	53.60	8.660	
14,200.0	11,916.0	14,180.1	11,726.0	26.5	28.0	-65.84	-2,473.8	752.8	464.2	409.4	54.80	8.472	
14,300.0	11,916.0	14,280.1	11,726.0	27.2	28.7	-65.84	-2,573.8	753.5	464.2	408.2	56.01	8.288	
14,400.0	11,916.0	14,380.1	11,726.0	27.9	29.4	-65.84	-2,673.8	754.1	464.2	407.0	57.24	8.110	
14,500.0	11,916.0	14,480.1	11,726.0	28.7	30.1	-65.84	-2,773.8	754.8	464.2	405.7	58.49	7.937	
14,600.0	11,916.0	14,580.1	11,726.0	29.4	30.9	-65.84	-2,873.8	755.4	464.2	404.5	59.75	7.769	
14,700.0	11,916.0	14,680.1	11,726.0	30.1	31.6	-65.84	-2,973.8	756.1	464.2	403.2	61.04	7.606	
14,800.0	11,916.0	14,780.1	11,726.0	30.9	32.3	-65.84	-3,073.8	756.7	464.2	401.9	62.33	7.448	
14,900.0	11,916.0	14,880.1	11,726.0	31.6	33.0	-65.84	-3,173.8	757.4	464.2	400.6	63.64	7.295	
15,000.0	11,916.0	14,980.1	11,726.0	32.4	33.8	-65.84	-3,273.7	758.0	464.3	399.3	64.96	7.147	
15,100.0	11,916.0	15,080.1	11,726.0	33.1	34.5	-65.84	-3,373.7	758.7	464.3	398.0	66.29	7.003	
15,200.0	11,916.0	15,180.1	11,726.0	33.9	35.3	-65.84	-3,473.7	759.3	464.3	396.6	67.64	6.864	
15,300.0	11,916.0	15,280.1	11,726.0	34.7	36.0	-65.84	-3,573.7	760.0	464.3	395.3	68.99	6.729	
15,400.0	11,916.0	15,380.1	11,726.0	35.5	36.8	-65.84	-3,673.7	760.6	464.3	393.9	70.36	6.599	
15,500.0	11,916.0	15,480.1	11,726.0	36.2	37.6	-65.84	-3,773.7	761.3	464.3	392.6	71.73	6.473	
15,600.0	11,916.0	15,580.1	11,726.0	37.0	38.3	-65.84	-3,873.7	761.9	464.3	391.2	73.11	6.350	
15,700.0	11,916.0	15,680.1	11,726.0	37.8	39.1	-65.84	-3,973.7	762.6	464.3	389.8	74.51	6.232	
15,800.0	11,916.0	15,780.1	11,726.0	38.6	39.9	-65.84	-4,073.7	763.2	464.3	388.4	75.90	6.117	
15,900.0	11,916.0	15,880.1	11,726.0	39.4	40.7	-65.84	-4,173.7	763.9	464.3	387.0	77.31	6.006	
16,000.0	11,916.0	15,980.1	11,726.0	40.2	41.4	-65.84	-4,273.7	764.6	464.3	385.6	78.72	5.898	
16,100.0	11,916.0	16,080.1	11,726.0	41.0	42.2	-65.85	-4,373.7	765.2	464.3	384.2	80.14	5.794	
16,200.0	11,916.0	16,180.1	11,726.0	41.8	43.0	-65.85	-4,473.7	765.9	464.3	382.8	81.57	5.692	
16,300.0	11,916.0	16,280.1	11,726.0	42.6	43.8	-65.85	-4,573.7	766.5	464.3	381.3	83.00	5.594	
16,400.0	11,916.0	16,380.1	11,726.0	43.4	44.6	-65.85	-4,673.7	767.2	464.3	379.9	84.44	5.499	
16,500.0	11,916.0	16,480.1	11,726.0	44.2	45.4	-65.85	-4,773.7	767.8	464.3	378.5	85.88	5.407	
16,600.0	11,916.0	16,580.1	11,726.0	45.0	46.2	-65.85	-4,873.7	768.5	464.3	377.0	87.33	5.317	
16,700.0	11,916.0	16,680.1	11,726.0	45.8	47.0	-65.85	-4,973.7	769.1	464.3	375.6	88.78	5.230	
16,800.0	11,916.0	16,780.1	11,726.0	46.6	47.8	-65.85	-5,073.7	769.8	464.4	374.1	90.24	5.146	
16,900.0	11,916.0	16,880.1	11,726.0	47.4	48.6	-65.85	-5,173.7	770.4	464.4	372.7	91.70	5.064	
17,000.0	11,916.0	16,980.1	11,726.0	48.2	49.4	-65.85	-5,273.7	771.1	464.4	371.2	93.17	4.984	
17,100.0	11,916.0	17,080.1	11,726.0	49.0	50.2	-65.85	-5,373.7	771.7	464.4	369.7	94.64	4.907	
17,200.0	11,916.0	17,180.1	11,726.0	49.8	51.0	-65.85	-5,473.7	772.4	464.4	368.3	96.12	4.831	
17,300.0	11,916.0	17,280.1	11,726.0	50.7	51.8	-65.85	-5,573.7	773.0	464.4	366.8	97.59	4.758	
17,400.0	11,916.0	17,380.1	11,726.0	51.5	52.7	-65.85	-5,673.7	773.7	464.4	365.3	99.07	4.687	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 755H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11339-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
17,500.0	11,916.0	17,480.1	11,726.0	52.3	53.5	-65.85	-5,773.7	774.3	464.4	363.8	100.56	4.618	
17,600.0	11,916.0	17,580.1	11,726.0	53.1	54.3	-65.85	-5,873.7	775.0	464.4	362.4	102.05	4.551	
17,700.0	11,916.0	17,680.1	11,726.0	53.9	55.1	-65.85	-5,973.7	775.6	464.4	360.9	103.54	4.485	
17,800.0	11,916.0	17,780.1	11,726.0	54.8	55.9	-65.85	-6,073.7	776.3	464.4	359.4	105.03	4.422	
17,900.0	11,916.0	17,880.1	11,726.0	55.6	56.7	-65.85	-6,173.7	776.9	464.4	357.9	106.53	4.360	
18,000.0	11,916.0	17,980.1	11,726.0	56.4	57.6	-65.85	-6,273.7	777.6	464.4	356.4	108.03	4.299	
18,100.0	11,916.0	18,080.1	11,726.0	57.2	58.4	-65.85	-6,373.7	778.2	464.4	354.9	109.53	4.240	
18,200.0	11,916.0	18,180.1	11,726.0	58.1	59.2	-65.85	-6,473.7	778.9	464.4	353.4	111.03	4.183	
18,300.0	11,916.0	18,280.1	11,726.0	58.9	60.0	-65.85	-6,573.7	779.5	464.4	351.9	112.54	4.127	
18,400.0	11,916.0	18,380.1	11,726.0	59.7	60.8	-65.85	-6,673.7	780.2	464.4	350.4	114.05	4.072	
18,500.0	11,916.0	18,480.1	11,726.0	60.6	61.7	-65.85	-6,773.7	780.8	464.4	348.9	115.56	4.019	
18,600.0	11,916.0	18,580.1	11,726.0	61.4	62.5	-65.85	-6,873.7	781.5	464.5	347.4	117.07	3.967	
18,700.0	11,916.0	18,680.1	11,726.0	62.2	63.3	-65.85	-6,973.7	782.1	464.5	345.9	118.59	3.917	
18,800.0	11,916.0	18,780.1	11,726.0	63.1	64.1	-65.85	-7,073.7	782.8	464.5	344.4	120.10	3.867	
18,900.0	11,916.0	18,880.1	11,726.0	63.9	65.0	-65.85	-7,173.7	783.4	464.5	342.8	121.62	3.819	
19,000.0	11,916.0	18,980.1	11,726.0	64.7	65.8	-65.85	-7,273.7	784.1	464.5	341.3	123.14	3.772	
19,100.0	11,916.0	19,080.1	11,726.0	65.6	66.6	-65.85	-7,373.7	784.7	464.5	339.8	124.66	3.726	
19,200.0	11,916.0	19,180.1	11,726.0	66.4	67.5	-65.85	-7,473.7	785.4	464.5	338.3	126.19	3.681	
19,300.0	11,916.0	19,280.1	11,726.0	67.2	68.3	-65.85	-7,573.7	786.0	464.5	336.8	127.71	3.637	
19,400.0	11,916.0	19,380.1	11,726.0	68.1	69.1	-65.86	-7,673.7	786.7	464.5	335.3	129.24	3.594	
19,500.0	11,916.0	19,480.1	11,726.0	68.9	70.0	-65.86	-7,773.7	787.3	464.5	333.7	130.77	3.552	
19,600.0	11,916.0	19,580.1	11,726.0	69.7	70.8	-65.86	-7,873.7	788.0	464.5	332.2	132.30	3.511	
19,700.0	11,916.0	19,680.1	11,726.0	70.6	71.6	-65.86	-7,973.7	788.6	464.5	330.7	133.83	3.471	
19,800.0	11,916.0	19,780.1	11,726.0	71.4	72.5	-65.86	-8,073.6	789.3	464.5	329.2	135.36	3.432	
19,900.0	11,916.0	19,880.1	11,726.0	72.2	73.3	-65.86	-8,173.6	789.9	464.5	327.6	136.89	3.393	
20,000.0	11,916.0	19,980.1	11,726.0	73.1	74.1	-65.86	-8,273.6	790.6	464.5	326.1	138.43	3.356	
20,100.0	11,916.0	20,080.1	11,726.0	73.9	75.0	-65.86	-8,373.6	791.2	464.5	324.6	139.97	3.319	
20,200.0	11,916.0	20,180.1	11,726.0	74.8	75.8	-65.86	-8,473.6	791.9	464.5	323.0	141.50	3.283	
20,300.0	11,916.0	20,280.1	11,726.0	75.6	76.6	-65.86	-8,573.6	792.5	464.5	321.5	143.04	3.248	
20,400.0	11,916.0	20,380.1	11,726.0	76.4	77.5	-65.86	-8,673.6	793.2	464.6	320.0	144.58	3.213	
20,500.0	11,916.0	20,480.1	11,726.0	77.3	78.3	-65.86	-8,773.6	793.8	464.6	318.4	146.12	3.179	
20,600.0	11,916.0	20,580.1	11,726.0	78.1	79.2	-65.86	-8,873.6	794.5	464.6	316.9	147.66	3.146	
20,700.0	11,916.0	20,680.1	11,726.0	79.0	80.0	-65.86	-8,973.6	795.1	464.6	315.4	149.21	3.114	
20,800.0	11,916.0	20,780.1	11,726.0	79.8	80.8	-65.86	-9,073.6	795.8	464.6	313.8	150.75	3.082	
20,900.0	11,916.0	20,880.1	11,726.0	80.7	81.7	-65.86	-9,173.6	796.4	464.6	312.3	152.30	3.051	
21,000.0	11,916.0	20,980.1	11,726.0	81.5	82.5	-65.86	-9,273.6	797.1	464.6	310.7	153.84	3.020	
21,100.0	11,916.0	21,080.1	11,726.0	82.3	83.4	-65.86	-9,373.6	797.7	464.6	309.2	155.39	2.990 Normal Operations	
21,200.0	11,916.0	21,180.1	11,726.0	83.2	84.2	-65.86	-9,473.6	798.4	464.6	307.7	156.93	2.960 Normal Operations	
21,300.0	11,916.0	21,280.1	11,726.0	84.0	85.0	-65.86	-9,573.6	799.0	464.6	306.1	158.48	2.932 Normal Operations	
21,400.0	11,916.0	21,380.1	11,726.0	84.9	85.9	-65.86	-9,673.6	799.7	464.6	304.6	160.03	2.903 Normal Operations	
21,500.0	11,916.0	21,480.1	11,726.0	85.7	86.7	-65.86	-9,773.6	800.3	464.6	303.0	161.58	2.875 Normal Operations	
21,600.0	11,916.0	21,580.1	11,726.0	86.6	87.6	-65.86	-9,873.6	801.0	464.6	301.5	163.13	2.848 Normal Operations	
21,700.0	11,916.0	21,680.1	11,726.0	87.4	88.4	-65.86	-9,973.6	801.6	464.6	299.9	164.68	2.821 Normal Operations	
21,700.7	11,916.0	21,680.8	11,726.0	87.4	88.4	-65.86	-9,974.3	801.6	464.6	299.9	164.69	2.821 Normal Operations, 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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 756H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-56.30	33.0	-49.4	59.4				
100.0	100.0	100.2	100.2	3.0	3.0	-56.59	32.6	-49.4	59.2	52.4	6.83	8.667	
159.4	159.4	159.4	159.4	3.1	3.0	-56.91	32.3	-49.5	59.1	52.2	6.91	8.551	
200.0	200.0	200.0	200.0	3.2	3.1	-57.20	32.0	-49.7	59.1	52.1	6.98	8.470	
300.0	300.0	300.2	300.2	3.3	3.1	-58.34	31.0	-50.3	59.1	52.0	7.12	8.302	
400.0	400.0	400.4	400.4	3.4	3.1	-59.27	29.9	-50.4	58.6	51.3	7.26	8.066	
500.0	500.0	500.3	500.3	3.5	3.2	-59.89	29.1	-50.1	57.9	50.5	7.41	7.818	
600.0	600.0	600.1	600.1	3.7	3.2	-61.56	27.4	-50.6	57.6	50.0	7.54	7.634	
700.0	700.0	700.6	700.5	3.8	3.3	-63.84	25.1	-51.2	57.0	49.4	7.68	7.430	
800.0	800.0	800.5	800.5	3.9	3.3	-65.34	23.4	-50.9	56.0	48.2	7.81	7.167	
900.0	900.0	900.1	900.0	4.0	3.3	-64.63	23.8	-50.2	55.5	47.6	7.95	6.986	
1,000.0	1,000.0	1,000.2	1,000.1	4.2	3.3	-63.43	24.8	-49.7	55.5	47.4	8.08	6.870	
1,100.0	1,100.0	1,100.6	1,100.5	4.3	3.3	-61.98	25.8	-48.4	54.8	46.6	8.22	6.665	
1,200.0	1,200.0	1,200.7	1,200.5	4.4	3.4	-61.04	26.1	-47.1	53.9	45.5	8.37	6.435	
1,300.0	1,300.0	1,300.7	1,300.6	4.5	3.4	-61.38	25.3	-46.4	52.9	44.4	8.51	6.213	
1,344.9	1,344.9	1,345.0	1,344.9	4.6	3.4	-61.84	24.7	-46.1	52.3	43.7	8.58	6.101 CC, ES, SF	
1,400.0	1,400.0	1,345.0	1,344.9	4.6	3.4	-61.84	24.7	-46.1	76.0	68.5	7.52	10.107	
1,500.0	1,500.0	1,345.0	1,344.9	4.8	3.4	-61.84	24.7	-46.1	163.7	157.0	6.68	24.518	
1,600.0	1,600.0	1,345.0	1,344.9	4.8	3.4	-148.76	24.7	-46.1	260.7	254.1	6.60	39.506	
1,700.0	1,699.8	1,345.0	1,344.9	5.0	3.4	-140.18	24.7	-46.1	359.8	353.1	6.64	54.198	
1,800.0	1,799.5	1,345.0	1,344.9	5.2	3.4	-121.08	24.7	-46.1	459.4	452.7	6.71	68.514	
1,850.0	1,849.1	1,345.0	1,344.9	5.2	3.4	-103.99	24.7	-46.1	509.4	502.6	6.75	75.508	
1,900.0	1,898.8	1,345.0	1,344.9	5.2	3.4	-103.99	24.7	-46.1	559.3	552.5	6.79	82.407	
2,000.0	1,998.0	1,345.0	1,344.9	5.4	3.4	-103.99	24.7	-46.1	659.2	652.4	6.87	95.900	
2,100.0	2,097.3	1,345.0	1,344.9	5.6	3.4	-103.99	24.7	-46.1	759.2	752.2	6.97	108.973	
2,200.0	2,196.5	1,345.0	1,344.9	5.7	3.4	-103.99	24.7	-46.1	859.1	852.1	7.06	121.618	
2,300.0	2,295.8	1,345.0	1,344.9	5.9	3.4	-103.99	24.7	-46.1	959.1	951.9	7.17	133.832	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 756H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11575-r.5 MWD+IFR1+SAG+FDIR													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)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-56.30	33.0	-49.4	59.4				
100.0	100.0	100.0	100.0	3.0	3.0	-56.30	33.0	-49.4	59.4	52.3	7.07	8.397	
200.0	200.0	200.0	200.0	3.2	3.2	-56.30	33.0	-49.4	59.4	52.1	7.32	8.118	
300.0	300.0	300.0	300.0	3.3	3.3	-56.30	33.0	-49.4	59.4	51.8	7.55	7.864	
400.0	400.0	400.0	400.0	3.4	3.4	-56.30	33.0	-49.4	59.4	51.6	7.78	7.632	
500.0	500.0	500.0	500.0	3.5	3.5	-56.30	33.0	-49.4	59.4	51.4	8.01	7.418	
600.0	600.0	600.0	600.0	3.7	3.7	-56.30	33.0	-49.4	59.4	51.2	8.23	7.220	
700.0	700.0	700.0	700.0	3.8	3.8	-56.30	33.0	-49.4	59.4	51.0	8.44	7.036	
800.0	800.0	800.0	800.0	3.9	3.9	-56.30	33.0	-49.4	59.4	50.7	8.65	6.864	
900.0	900.0	900.0	900.0	4.0	4.0	-56.30	33.0	-49.4	59.4	50.5	8.86	6.704	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.30	33.0	-49.4	59.4	50.3	9.06	6.553	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.30	33.0	-49.4	59.4	50.1	9.26	6.411	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-56.30	33.0	-49.4	59.4	49.9	9.46	6.277	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-56.30	33.0	-49.4	59.4	49.7	9.66	6.151	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-56.30	33.0	-49.4	59.4	49.5	9.85	6.031	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.30	33.0	-49.4	59.4	49.4	10.04	5.917	
1,600.0	1,600.0	1,601.7	1,601.7	4.8	4.8	-147.20	33.0	-47.6	59.4	49.2	10.22	5.812	
1,700.0	1,699.8	1,703.4	1,703.3	5.0	5.0	-146.93	33.2	-42.2	59.5	48.8	10.67	5.579	
1,800.0	1,799.5	1,805.1	1,804.5	5.2	5.2	-146.48	33.5	-33.2	59.6	48.6	11.09	5.379	
1,850.0	1,849.1	1,856.0	1,855.1	5.2	5.3	-146.18	33.7	-27.3	59.7	48.5	11.22	5.323	
1,900.0	1,898.8	1,906.8	1,905.4	5.2	5.4	-145.61	34.0	-20.6	59.5	48.1	11.35	5.239	
2,000.0	1,998.0	2,008.4	2,005.7	5.4	5.7	-142.75	34.5	-4.5	56.9	45.3	11.68	4.874	
2,100.0	2,097.3	2,109.5	2,104.9	5.6	5.9	-136.93	35.2	15.1	52.0	40.0	11.99	4.340	
2,200.0	2,196.5	2,209.9	2,202.7	5.7	6.1	-126.53	36.0	38.0	45.7	33.5	12.25	3.731	
2,300.0	2,295.8	2,309.2	2,299.0	5.9	6.3	-111.71	36.8	62.0	40.8	28.4	12.49	3.270	
2,391.4	2,386.5	2,399.9	2,387.0	6.0	6.4	-95.95	37.6	84.0	39.3	26.6	12.73	3.086 CC	
2,400.0	2,395.0	2,408.4	2,395.3	6.1	6.5	-94.43	37.7	86.0	39.3	26.5	12.76	3.081 ES, SF	
2,500.0	2,494.3	2,507.7	2,491.6	6.2	6.6	-77.42	38.5	110.0	41.5	28.4	13.10	3.166	
2,600.0	2,593.5	2,606.9	2,587.9	6.4	6.8	-63.17	39.4	134.0	46.8	33.3	13.49	3.472	
2,700.0	2,692.8	2,706.2	2,684.2	6.6	7.0	-52.34	40.2	158.0	54.5	40.6	13.90	3.919	
2,800.0	2,792.0	2,805.4	2,780.5	6.7	7.1	-44.36	41.0	182.0	63.5	49.2	14.30	4.444	
2,900.0	2,891.3	2,904.7	2,876.8	6.9	7.3	-38.44	41.9	206.0	73.5	58.8	14.69	5.006	
3,000.0	2,990.6	3,003.9	2,973.1	7.1	7.5	-33.97	42.7	230.0	84.1	69.0	15.07	5.580	
3,100.0	3,089.8	3,103.2	3,069.4	7.2	7.7	-30.51	43.6	254.0	95.1	79.6	15.45	6.153	
3,200.0	3,189.1	3,202.4	3,165.7	7.4	7.8	-27.78	44.4	278.0	106.3	90.5	15.83	6.716	
3,300.0	3,288.3	3,301.7	3,262.0	7.6	8.0	-25.57	45.2	302.0	117.8	101.6	16.21	7.266	
3,400.0	3,387.6	3,400.9	3,358.3	7.8	8.2	-23.75	46.1	326.0	129.4	112.8	16.59	7.799	
3,500.0	3,486.8	3,500.2	3,454.6	7.9	8.4	-22.24	46.9	350.0	141.0	124.1	16.96	8.315	
3,600.0	3,586.1	3,599.4	3,550.9	8.1	8.6	-20.95	47.7	374.0	152.8	135.5	17.34	8.813	
3,700.0	3,685.3	3,698.7	3,647.2	8.3	8.8	-19.85	48.6	398.0	164.7	146.9	17.72	9.293	
3,800.0	3,784.6	3,797.9	3,743.5	8.5	9.0	-18.90	49.4	422.0	176.6	158.5	18.10	9.755	
3,896.1	3,880.0	3,893.3	3,836.1	8.6	9.2	-18.10	50.2	445.0	188.0	169.6	18.46	10.185	
3,900.0	3,883.8	3,897.2	3,839.8	8.6	9.2	-18.07	50.3	446.0	188.5	170.0	18.47	10.203	
4,000.0	3,983.2	3,996.3	3,936.0	9.0	9.4	-17.29	51.1	469.9	201.3	182.3	19.00	10.595	
4,100.0	4,082.8	4,095.2	4,031.9	9.1	9.6	-16.49	51.9	493.8	215.9	196.5	19.38	11.141	
4,200.0	4,182.5	4,193.8	4,127.6	9.3	9.8	-15.67	52.8	517.7	232.1	212.4	19.75	11.753	
4,300.0	4,282.3	4,292.1	4,223.0	9.5	10.0	-14.87	53.6	541.5	250.1	230.0	20.12	12.431	
4,400.0	4,382.2	4,390.1	4,318.1	9.6	10.2	-14.09	54.4	565.1	269.8	249.3	20.48	13.171	
4,500.0	4,482.1	4,487.7	4,412.8	9.8	10.4	-13.34	55.2	588.7	291.1	270.3	20.84	13.974	
4,596.1	4,578.3	4,581.2	4,503.5	9.9	10.6	78.34	56.0	611.3	313.3	292.2	21.14	14.823	
4,600.0	4,582.1	4,584.9	4,507.1	9.9	10.6	78.37	56.1	612.2	314.2	293.1	21.15	14.860	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 756H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11575-r.5 MWD+IFR1+SAG+FDIR						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
4,700.0	4,682.1	4,681.9	4,601.3	10.1	10.8	79.05	56.9	635.7	338.1	316.6	21.56	15.685		
4,800.0	4,782.1	4,779.0	4,695.4	10.2	11.0	79.65	57.7	659.2	362.1	340.2	21.84	16.577		
4,900.0	4,882.1	4,876.0	4,789.6	10.2	11.2	80.17	58.5	682.6	386.0	363.9	22.12	17.447		
5,000.0	4,982.1	4,973.0	4,883.7	10.3	11.4	80.63	59.3	706.1	410.0	387.6	22.41	18.295		
5,100.0	5,082.1	5,070.1	4,977.9	10.4	11.6	81.04	60.2	729.5	434.0	411.3	22.70	19.122		
5,200.0	5,182.1	5,167.1	5,072.0	10.5	11.8	81.41	61.0	753.0	458.1	435.1	22.99	19.928		
5,300.0	5,282.1	5,264.1	5,166.2	10.5	12.0	81.74	61.8	776.5	482.1	458.8	23.28	20.713		
5,400.0	5,382.1	5,361.2	5,260.3	10.6	12.2	82.03	62.6	799.9	506.2	482.6	23.57	21.479		
5,500.0	5,482.1	5,458.2	5,354.5	10.7	12.4	82.31	63.4	823.4	530.2	506.4	23.86	22.225		
5,600.0	5,582.1	5,555.2	5,448.6	10.7	12.6	82.55	64.3	846.8	554.3	530.2	24.15	22.953		
5,700.0	5,682.1	5,652.2	5,542.8	10.8	12.8	82.78	65.1	870.3	578.4	554.0	24.44	23.662		
5,800.0	5,782.1	5,749.3	5,636.9	10.9	13.0	82.99	65.9	893.8	602.5	577.8	24.74	24.354		
5,900.0	5,882.1	5,846.3	5,731.0	11.0	13.2	83.18	66.7	917.2	626.6	601.6	25.04	25.029		
6,000.0	5,982.1	5,943.3	5,825.2	11.0	13.5	83.36	67.5	940.7	650.7	625.4	25.33	25.686		
6,100.0	6,082.1	6,040.4	5,919.3	11.1	13.7	83.53	68.4	964.1	674.9	649.2	25.63	26.328		
6,200.0	6,182.1	6,137.4	6,013.5	11.2	13.9	83.68	69.2	987.6	699.0	673.1	25.92	26.967		
6,300.0	6,282.1	6,246.8	6,119.9	11.3	14.1	83.84	70.1	1,013.2	722.4	696.1	26.24	27.531		
6,400.0	6,382.1	6,358.8	6,229.2	11.3	14.3	83.98	70.9	1,037.4	743.9	717.3	26.58	27.992		
6,500.0	6,482.1	6,471.6	6,339.8	11.4	14.6	84.10	71.7	1,059.5	763.5	736.6	26.90	28.379		
6,600.0	6,582.1	6,585.3	6,451.8	11.5	14.8	84.20	72.4	1,079.6	781.2	753.9	27.22	28.695		
6,700.0	6,682.1	6,699.8	6,564.8	11.6	15.0	84.29	73.0	1,097.6	796.9	769.3	27.53	28.942		
6,800.0	6,782.1	6,815.0	6,678.9	11.6	15.2	84.36	73.6	1,113.5	810.6	782.8	27.83	29.125		
6,900.0	6,882.1	6,930.8	6,793.9	11.7	15.5	84.42	74.0	1,127.1	822.3	794.2	28.12	29.245		
7,000.0	6,982.1	7,047.1	6,909.6	11.8	15.7	84.47	74.4	1,138.4	832.1	803.7	28.39	29.305		
7,100.0	7,082.1	7,163.8	7,025.9	11.9	15.9	84.51	74.8	1,147.4	839.8	811.1	28.65	29.307		
7,200.0	7,182.1	7,280.8	7,142.8	11.9	16.1	84.53	75.0	1,154.1	845.5	816.6	28.90	29.255		
7,300.0	7,282.1	7,398.0	7,259.9	12.0	16.2	84.55	75.1	1,158.3	849.1	820.0	29.13	29.152		
7,400.0	7,382.1	7,515.4	7,377.3	12.1	16.4	84.56	75.2	1,160.2	850.7	821.4	29.31	29.019		
7,500.0	7,482.1	7,620.3	7,482.1	12.2	16.4	84.56	75.2	1,160.3	850.8	821.4	29.41	28.929		
7,600.0	7,582.1	7,720.3	7,582.1	12.2	16.5	84.56	75.2	1,160.3	850.8	821.2	29.52	28.816		
7,700.0	7,682.1	7,820.3	7,682.1	12.3	16.5	84.56	75.2	1,160.3	850.8	821.1	29.64	28.705		
7,800.0	7,782.1	7,920.3	7,782.1	12.4	16.6	84.56	75.2	1,160.3	850.8	821.0	29.75	28.593		
7,900.0	7,882.1	8,020.3	7,882.1	12.5	16.6	84.56	75.2	1,160.3	850.8	820.9	29.87	28.482		
8,000.0	7,982.1	8,120.3	7,982.1	12.6	16.6	84.56	75.2	1,160.3	850.8	820.8	29.99	28.372		
8,100.0	8,082.1	8,220.3	8,082.1	12.6	16.7	84.56	75.2	1,160.3	850.8	820.7	30.10	28.262		
8,200.0	8,182.1	8,320.3	8,182.1	12.7	16.7	84.56	75.2	1,160.3	850.8	820.5	30.22	28.152		
8,300.0	8,282.1	8,420.3	8,282.1	12.8	16.8	84.56	75.2	1,160.3	850.8	820.4	30.34	28.043		
8,400.0	8,382.1	8,520.3	8,382.1	12.9	16.8	84.56	75.2	1,160.3	850.8	820.3	30.46	27.935		
8,500.0	8,482.1	8,620.3	8,482.1	12.9	16.9	84.56	75.2	1,160.3	850.8	820.2	30.57	27.827		
8,600.0	8,582.1	8,720.3	8,582.1	13.0	16.9	84.56	75.2	1,160.3	850.8	820.1	30.69	27.719		
8,700.0	8,682.1	8,820.3	8,682.1	13.1	17.0	84.56	75.2	1,160.3	850.8	820.0	30.81	27.612		
8,800.0	8,782.1	8,920.3	8,782.1	13.2	17.0	84.56	75.2	1,160.3	850.8	819.8	30.93	27.505		
8,900.0	8,882.1	9,020.3	8,882.1	13.2	17.1	84.56	75.2	1,160.3	850.8	819.7	31.05	27.399		
9,000.0	8,982.1	9,120.3	8,982.1	13.3	17.1	84.56	75.2	1,160.3	850.8	819.6	31.17	27.293		
9,100.0	9,082.1	9,220.3	9,082.1	13.4	17.2	84.56	75.2	1,160.3	850.8	819.5	31.29	27.188		
9,200.0	9,182.1	9,320.3	9,182.1	13.5	17.2	84.56	75.2	1,160.3	850.8	819.4	31.41	27.083		
9,300.0	9,282.1	9,420.3	9,282.1	13.5	17.3	84.56	75.2	1,160.3	850.8	819.2	31.53	26.979		
9,400.0	9,382.1	9,520.3	9,382.1	13.6	17.3	84.56	75.2	1,160.3	850.8	819.1	31.66	26.875		
9,500.0	9,482.1	9,620.3	9,482.1	13.7	17.4	84.56	75.2	1,160.3	850.8	819.0	31.78	26.772		
9,600.0	9,582.1	9,720.3	9,582.1	13.8	17.4	84.56	75.2	1,160.3	850.8	818.9	31.90	26.669		
9,700.0	9,682.1	9,820.3	9,682.1	13.9	17.5	84.56	75.2	1,160.3	850.8	818.7	32.02	26.567		

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 756H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11575-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference												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)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,800.0	9,782.1	9,920.3	9,782.1	13.9	17.5	84.56	75.2	1,160.3	850.8	818.6	32.15	26.465	
9,900.0	9,882.1	10,020.3	9,882.1	14.0	17.6	84.56	75.2	1,160.3	850.8	818.5	32.27	26.363	
10,000.0	9,982.1	10,120.3	9,982.1	14.1	17.6	84.56	75.2	1,160.3	850.8	818.4	32.39	26.263	
10,100.0	10,082.1	10,220.3	10,082.1	14.2	17.7	84.56	75.2	1,160.3	850.8	818.2	32.52	26.162	
10,200.0	10,182.1	10,320.3	10,182.1	14.2	17.8	84.56	75.2	1,160.3	850.8	818.1	32.64	26.063	
10,300.0	10,282.1	10,420.3	10,282.1	14.3	17.8	84.56	75.2	1,160.3	850.8	818.0	32.77	25.963	
10,400.0	10,382.1	10,520.3	10,382.1	14.4	17.9	84.56	75.2	1,160.3	850.8	817.9	32.89	25.864	
10,500.0	10,482.1	10,620.3	10,482.1	14.5	17.9	84.56	75.2	1,160.3	850.8	817.7	33.02	25.766	
10,600.0	10,582.1	10,720.3	10,582.1	14.6	18.0	84.56	75.2	1,160.3	850.8	817.6	33.14	25.668	
10,700.0	10,682.1	10,820.3	10,682.1	14.6	18.0	84.56	75.2	1,160.3	850.8	817.5	33.27	25.571	
10,800.0	10,782.1	10,920.3	10,782.1	14.7	18.1	84.56	75.2	1,160.3	850.8	817.4	33.40	25.474	
10,900.0	10,882.1	11,020.3	10,882.1	14.8	18.1	84.56	75.2	1,160.3	850.8	817.2	33.52	25.378	
11,000.0	10,982.1	11,120.3	10,982.1	14.9	18.2	84.56	75.2	1,160.3	850.8	817.1	33.65	25.282	
11,100.0	11,082.1	11,220.3	11,082.1	14.9	18.2	84.56	75.2	1,160.3	850.8	817.0	33.78	25.187	
11,200.0	11,182.1	11,320.3	11,182.1	15.0	18.3	84.56	75.2	1,160.3	850.8	816.9	33.91	25.092	
11,300.0	11,282.1	11,420.3	11,282.1	15.1	18.3	84.56	75.2	1,160.3	850.8	816.7	34.03	24.998	
11,400.0	11,382.1	11,520.3	11,382.1	15.2	18.4	84.56	75.2	1,160.3	850.8	816.6	34.16	24.907	
11,456.4	11,438.5	11,576.6	11,438.5	15.2	18.4	84.56	75.2	1,160.3	850.8	816.6	34.12	24.937	
11,475.0	11,457.1	11,598.7	11,460.6	15.2	18.4	-95.07	74.7	1,160.3	850.8	816.6	34.12	24.936	
11,500.0	11,482.1	11,628.4	11,490.2	15.2	18.4	-95.05	72.4	1,160.3	850.7	816.6	34.12	24.935	
11,525.0	11,506.9	11,658.0	11,519.5	15.2	18.4	-95.01	68.3	1,160.3	850.7	816.6	34.12	24.933	
11,550.0	11,531.5	11,687.6	11,548.5	15.2	18.4	-94.95	62.4	1,160.4	850.6	816.5	34.12	24.929	
11,575.0	11,555.9	11,717.0	11,576.9	15.2	18.4	-94.88	54.7	1,160.4	850.5	816.4	34.12	24.924	
11,600.0	11,580.0	11,746.4	11,604.8	15.2	18.5	-94.80	45.3	1,160.5	850.4	816.3	34.13	24.917	
11,625.0	11,603.7	11,775.7	11,631.9	15.2	18.5	-94.69	34.3	1,160.6	850.3	816.2	34.14	24.908	
11,650.0	11,626.9	11,804.9	11,658.2	15.2	18.5	-94.58	21.7	1,160.7	850.2	816.0	34.15	24.898	
11,675.0	11,649.6	11,833.9	11,683.5	15.2	18.5	-94.45	7.6	1,160.7	850.0	815.9	34.16	24.886	
11,700.0	11,671.7	11,862.7	11,707.8	15.2	18.5	-94.30	-8.0	1,160.8	849.9	815.7	34.17	24.872	
11,725.0	11,693.2	11,891.4	11,730.9	15.3	18.5	-94.14	-24.8	1,161.0	849.7	815.5	34.18	24.856	
11,750.0	11,714.0	11,919.8	11,752.9	15.3	18.6	-93.97	-42.9	1,161.1	849.5	815.3	34.20	24.839	
11,775.0	11,734.0	11,948.1	11,773.6	15.3	18.6	-93.79	-62.2	1,161.2	849.3	815.1	34.22	24.819	
11,800.0	11,753.2	11,976.2	11,793.0	15.3	18.6	-93.60	-82.5	1,161.3	849.1	814.9	34.24	24.797	
11,825.0	11,771.6	12,004.1	11,811.1	15.3	18.6	-93.39	-103.7	1,161.5	849.0	814.7	34.27	24.773	
11,850.0	11,789.0	12,031.7	11,827.7	15.3	18.7	-93.18	-125.7	1,161.6	848.8	814.5	34.30	24.746	
11,875.0	11,805.5	12,059.1	11,843.0	15.3	18.7	-92.96	-148.5	1,161.8	848.6	814.3	34.33	24.716	
11,900.0	11,821.0	12,086.3	11,856.8	15.4	18.7	-92.73	-172.0	1,161.9	848.4	814.1	34.37	24.683	
11,925.0	11,835.4	12,113.3	11,869.1	15.4	18.8	-92.50	-195.9	1,162.1	848.3	813.9	34.42	24.646	
11,950.0	11,848.8	12,140.0	11,880.0	15.4	18.8	-92.26	-220.4	1,162.2	848.1	813.7	34.47	24.606	
11,975.0	11,861.0	12,166.5	11,889.4	15.5	18.9	-92.01	-245.1	1,162.4	848.0	813.5	34.52	24.562	
12,000.0	11,872.1	12,192.8	11,897.3	15.5	18.9	-91.76	-270.1	1,162.5	847.9	813.3	34.59	24.515	
12,025.0	11,881.9	12,218.8	11,903.8	15.5	19.0	-91.50	-295.4	1,162.7	847.8	813.1	34.65	24.463	
12,050.0	11,890.6	12,244.6	11,908.9	15.6	19.0	-91.24	-320.7	1,162.9	847.7	812.9	34.73	24.408	
12,075.0	11,898.0	12,270.2	11,912.6	15.6	19.1	-90.98	-346.0	1,163.0	847.6	812.8	34.81	24.348	
12,100.0	11,904.2	12,295.6	11,915.0	15.7	19.1	-90.72	-371.2	1,163.2	847.5	812.6	34.90	24.285	
12,125.0	11,909.0	12,320.7	11,915.9	15.7	19.2	-90.46	-396.4	1,163.4	847.5	812.5	34.99	24.219	
12,150.0	11,912.6	12,345.5	11,916.0	15.8	19.2	-90.22	-421.2	1,163.5	847.5	812.4	35.10	24.147	
12,175.0	11,914.9	12,370.4	11,916.0	15.8	19.3	-90.07	-446.1	1,163.7	847.5	812.3	35.20	24.074	
12,178.7	11,915.2	12,374.2	11,916.0	15.8	19.3	-90.05	-449.8	1,163.7	847.5	812.2	35.22	24.063	
12,200.0	11,915.9	12,395.4	11,916.0	15.9	19.4	-90.00	-471.1	1,163.9	847.5	812.2	35.31	24.001	
12,206.4	11,916.0	12,401.8	11,916.0	15.9	19.4	-90.00	-477.4	1,163.9	847.5	812.1	35.34	23.982	
12,300.0	11,916.0	12,495.4	11,916.0	16.1	19.6	-90.00	-571.1	1,164.5	847.5	811.7	35.81	23.665	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 756H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11575-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
12,400.0	11,916.0	12,595.4	11,916.0	16.4	19.9	-90.00	-671.0	1,165.2	847.5	811.1	36.39	23.289	
12,500.0	11,916.0	12,695.4	11,916.0	16.8	20.3	-90.00	-771.0	1,165.8	847.5	810.4	37.04	22.881	
12,600.0	11,916.0	12,795.4	11,916.0	17.2	20.6	-90.00	-871.0	1,166.5	847.5	809.7	37.75	22.449	
12,700.0	11,916.0	12,895.4	11,916.0	17.6	21.0	-90.00	-971.0	1,167.1	847.5	809.0	38.53	21.996	
12,800.0	11,916.0	12,995.4	11,916.0	18.0	21.4	-90.00	-1,071.0	1,167.8	847.5	808.1	39.37	21.529	
12,900.0	11,916.0	13,095.4	11,916.0	18.5	21.8	-90.00	-1,171.0	1,168.4	847.5	807.2	40.26	21.053	
13,000.0	11,916.0	13,195.4	11,916.0	19.0	22.3	-90.00	-1,271.0	1,169.1	847.5	806.3	41.20	20.572	
13,100.0	11,916.0	13,295.4	11,916.0	19.5	22.8	-90.00	-1,371.0	1,169.7	847.5	805.3	42.19	20.089	
13,200.0	11,916.0	13,395.4	11,916.0	20.1	23.3	-90.00	-1,471.0	1,170.4	847.5	804.3	43.22	19.608	
13,300.0	11,916.0	13,495.4	11,916.0	20.7	23.8	-90.00	-1,571.0	1,171.0	847.5	803.2	44.30	19.132	
13,400.0	11,916.0	13,595.4	11,916.0	21.3	24.3	-90.00	-1,671.0	1,171.7	847.5	802.1	45.41	18.663	
13,500.0	11,916.0	13,695.4	11,916.0	21.9	24.9	-90.00	-1,771.0	1,172.3	847.5	801.0	46.56	18.202	
13,600.0	11,916.0	13,795.4	11,916.0	22.5	25.4	-90.00	-1,871.0	1,173.0	847.5	799.8	47.74	17.752	
13,700.0	11,916.0	13,895.4	11,916.0	23.1	26.0	-90.00	-1,971.0	1,173.6	847.5	798.6	48.96	17.312	
13,800.0	11,916.0	13,995.4	11,916.0	23.8	26.6	-90.00	-2,071.0	1,174.3	847.6	797.4	50.20	16.884	
13,900.0	11,916.0	14,095.4	11,916.0	24.5	27.2	-90.00	-2,171.0	1,174.9	847.6	796.1	51.47	16.468	
14,000.0	11,916.0	14,195.4	11,916.0	25.1	27.8	-90.00	-2,271.0	1,175.6	847.6	794.8	52.76	16.065	
14,100.0	11,916.0	14,295.4	11,916.0	25.8	28.5	-90.00	-2,371.0	1,176.2	847.6	793.5	54.07	15.675	
14,200.0	11,916.0	14,395.4	11,916.0	26.5	29.1	-90.00	-2,471.0	1,176.9	847.6	792.2	55.41	15.298	
14,300.0	11,916.0	14,495.4	11,916.0	27.2	29.8	-90.00	-2,571.0	1,177.5	847.6	790.8	56.76	14.933	
14,400.0	11,916.0	14,595.4	11,916.0	27.9	30.5	-90.00	-2,671.0	1,178.2	847.6	789.5	58.13	14.580	
14,500.0	11,916.0	14,695.4	11,916.0	28.7	31.1	-90.00	-2,771.0	1,178.8	847.6	788.1	59.52	14.240	
14,600.0	11,916.0	14,795.4	11,916.0	29.4	31.8	-90.00	-2,871.0	1,179.5	847.6	786.7	60.93	13.912	
14,700.0	11,916.0	14,895.4	11,916.0	30.1	32.5	-90.00	-2,971.0	1,180.1	847.6	785.3	62.34	13.595	
14,800.0	11,916.0	14,995.4	11,916.0	30.9	33.2	-90.00	-3,071.0	1,180.8	847.6	783.8	63.78	13.290	
14,900.0	11,916.0	15,095.4	11,916.0	31.6	33.9	-90.00	-3,171.0	1,181.4	847.6	782.4	65.22	12.996	
15,000.0	11,916.0	15,195.4	11,916.0	32.4	34.6	-90.00	-3,271.0	1,182.1	847.6	780.9	66.68	12.712	
15,100.0	11,916.0	15,295.4	11,916.0	33.1	35.4	-90.00	-3,371.0	1,182.7	847.6	779.5	68.15	12.438	
15,200.0	11,916.0	15,395.4	11,916.0	33.9	36.1	-90.00	-3,471.0	1,183.4	847.6	778.0	69.63	12.174	
15,300.0	11,916.0	15,495.4	11,916.0	34.7	36.8	-90.00	-3,571.0	1,184.0	847.6	776.5	71.11	11.919	
15,400.0	11,916.0	15,595.4	11,916.0	35.5	37.6	-90.00	-3,671.0	1,184.7	847.6	775.0	72.61	11.674	
15,500.0	11,916.0	15,695.4	11,916.0	36.2	38.3	-90.00	-3,771.0	1,185.3	847.6	773.5	74.12	11.437	
15,600.0	11,916.0	15,795.4	11,916.0	37.0	39.1	-90.00	-3,871.0	1,186.0	847.7	772.0	75.63	11.208	
15,700.0	11,916.0	15,895.4	11,916.0	37.8	39.8	-90.00	-3,971.0	1,186.6	847.7	770.5	77.15	10.987	
15,800.0	11,916.0	15,995.4	11,916.0	38.6	40.6	-90.00	-4,071.0	1,187.3	847.7	769.0	78.68	10.774	
15,900.0	11,916.0	16,095.4	11,916.0	39.4	41.3	-90.00	-4,171.0	1,187.9	847.7	767.5	80.21	10.568	
16,000.0	11,916.0	16,195.4	11,916.0	40.2	42.1	-90.00	-4,271.0	1,188.6	847.7	765.9	81.75	10.369	
16,100.0	11,916.0	16,295.4	11,916.0	41.0	42.9	-90.00	-4,371.0	1,189.2	847.7	764.4	83.30	10.176	
16,200.0	11,916.0	16,395.4	11,916.0	41.8	43.6	-90.00	-4,471.0	1,189.9	847.7	762.8	84.85	9.990	
16,300.0	11,916.0	16,495.4	11,916.0	42.6	44.4	-90.00	-4,571.0	1,190.5	847.7	761.3	86.41	9.810	
16,400.0	11,916.0	16,595.4	11,916.0	43.4	45.2	-90.00	-4,671.0	1,191.2	847.7	759.7	87.97	9.636	
16,500.0	11,916.0	16,695.4	11,916.0	44.2	46.0	-90.00	-4,771.0	1,191.8	847.7	758.2	89.54	9.467	
16,600.0	11,916.0	16,795.4	11,916.0	45.0	46.8	-90.00	-4,871.0	1,192.5	847.7	756.6	91.11	9.304	
16,700.0	11,916.0	16,895.4	11,916.0	45.8	47.5	-90.00	-4,971.0	1,193.1	847.7	755.0	92.69	9.146	
16,800.0	11,916.0	16,995.4	11,916.0	46.6	48.3	-90.00	-5,071.0	1,193.8	847.7	753.4	94.27	8.992	
16,900.0	11,916.0	17,095.4	11,916.0	47.4	49.1	-90.00	-5,171.0	1,194.4	847.7	751.9	95.86	8.844	
17,000.0	11,916.0	17,195.4	11,916.0	48.2	49.9	-90.00	-5,271.0	1,195.1	847.7	750.3	97.44	8.700	
17,100.0	11,916.0	17,295.4	11,916.0	49.0	50.7	-90.00	-5,371.0	1,195.7	847.7	748.7	99.03	8.560	
17,200.0	11,916.0	17,395.4	11,916.0	49.8	51.5	-90.00	-5,470.9	1,196.4	847.7	747.1	100.63	8.424	
17,300.0	11,916.0	17,495.4	11,916.0	50.7	52.3	-90.00	-5,570.9	1,197.0	847.7	745.5	102.23	8.293	
17,400.0	11,916.0	17,595.4	11,916.0	51.5	53.1	-90.00	-5,670.9	1,197.7	847.8	743.9	103.83	8.165	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 756H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11575-r.5 MWD+IFR1+SAG+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	No-Go	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor
17,500.0	11,916.0	17,695.4	11,916.0	52.3	53.9	-90.00	-5,770.9	1,198.3	847.8	742.3	105.43	8.041
17,600.0	11,916.0	17,795.4	11,916.0	53.1	54.7	-90.00	-5,870.9	1,199.0	847.8	740.7	107.04	7.920
17,700.0	11,916.0	17,895.4	11,916.0	53.9	55.5	-90.00	-5,970.9	1,199.6	847.8	739.1	108.65	7.803
17,800.0	11,916.0	17,995.4	11,916.0	54.8	56.3	-90.00	-6,070.9	1,200.3	847.8	737.5	110.26	7.689
17,900.0	11,916.0	18,095.4	11,916.0	55.6	57.1	-90.00	-6,170.9	1,200.9	847.8	735.9	111.87	7.578
18,000.0	11,916.0	18,195.4	11,916.0	56.4	58.0	-90.00	-6,270.9	1,201.6	847.8	734.3	113.49	7.470
18,100.0	11,916.0	18,295.4	11,916.0	57.2	58.8	-90.00	-6,370.9	1,202.2	847.8	732.7	115.11	7.365
18,200.0	11,916.0	18,395.4	11,916.0	58.1	59.6	-90.00	-6,470.9	1,202.9	847.8	731.1	116.73	7.263
18,300.0	11,916.0	18,495.4	11,916.0	58.9	60.4	-90.00	-6,570.9	1,203.5	847.8	729.4	118.35	7.163
18,400.0	11,916.0	18,595.4	11,916.0	59.7	61.2	-90.00	-6,670.9	1,204.2	847.8	727.8	119.98	7.066
18,500.0	11,916.0	18,695.4	11,916.0	60.6	62.0	-90.00	-6,770.9	1,204.8	847.8	726.2	121.60	6.972
18,600.0	11,916.0	18,795.4	11,916.0	61.4	62.8	-90.00	-6,870.9	1,205.5	847.8	724.6	123.23	6.880
18,700.0	11,916.0	18,895.4	11,916.0	62.2	63.7	-90.00	-6,970.9	1,206.1	847.8	723.0	124.86	6.790
18,800.0	11,916.0	18,995.4	11,916.0	63.1	64.5	-90.00	-7,070.9	1,206.8	847.8	721.3	126.49	6.703
18,900.0	11,916.0	19,095.4	11,916.0	63.9	65.3	-90.00	-7,170.9	1,207.4	847.8	719.7	128.13	6.617
19,000.0	11,916.0	19,195.4	11,916.0	64.7	66.1	-90.00	-7,270.9	1,208.1	847.8	718.1	129.76	6.534
19,100.0	11,916.0	19,295.4	11,916.0	65.6	66.9	-90.00	-7,370.9	1,208.7	847.8	716.4	131.40	6.452
19,200.0	11,916.0	19,395.4	11,916.0	66.4	67.8	-90.00	-7,470.9	1,209.4	847.8	714.8	133.04	6.373
19,300.0	11,916.0	19,495.4	11,916.0	67.2	68.6	-90.00	-7,570.9	1,210.0	847.9	713.2	134.67	6.296
19,400.0	11,916.0	19,595.4	11,916.0	68.1	69.4	-90.00	-7,670.9	1,210.7	847.9	711.5	136.32	6.220
19,500.0	11,916.0	19,695.4	11,916.0	68.9	70.2	-90.00	-7,770.9	1,211.3	847.9	709.9	137.96	6.146
19,600.0	11,916.0	19,795.4	11,916.0	69.7	71.1	-90.00	-7,870.9	1,212.0	847.9	708.3	139.60	6.074
19,700.0	11,916.0	19,895.4	11,916.0	70.6	71.9	-90.00	-7,970.9	1,212.6	847.9	706.6	141.24	6.003
19,800.0	11,916.0	19,995.4	11,916.0	71.4	72.7	-90.00	-8,070.9	1,213.3	847.9	705.0	142.89	5.934
19,900.0	11,916.0	20,095.4	11,916.0	72.2	73.6	-90.00	-8,170.9	1,213.9	847.9	703.4	144.53	5.866
20,000.0	11,916.0	20,195.4	11,916.0	73.1	74.4	-90.00	-8,270.9	1,214.6	847.9	701.7	146.18	5.800
20,100.0	11,916.0	20,295.4	11,916.0	73.9	75.2	-90.00	-8,370.9	1,215.2	847.9	700.1	147.83	5.736
20,200.0	11,916.0	20,395.4	11,916.0	74.8	76.0	-90.00	-8,470.9	1,215.9	847.9	698.4	149.48	5.672
20,300.0	11,916.0	20,495.4	11,916.0	75.6	76.9	-90.00	-8,570.9	1,216.5	847.9	696.8	151.13	5.610
20,400.0	11,916.0	20,595.4	11,916.0	76.4	77.7	-90.00	-8,670.9	1,217.2	847.9	695.1	152.78	5.550
20,500.0	11,916.0	20,695.4	11,916.0	77.3	78.5	-90.00	-8,770.9	1,217.8	847.9	693.5	154.43	5.491
20,600.0	11,916.0	20,795.4	11,916.0	78.1	79.4	-90.00	-8,870.9	1,218.5	847.9	691.8	156.09	5.432
20,700.0	11,916.0	20,895.4	11,916.0	79.0	80.2	-90.00	-8,970.9	1,219.1	847.9	690.2	157.74	5.375
20,800.0	11,916.0	20,995.4	11,916.0	79.8	81.0	-90.00	-9,070.9	1,219.8	847.9	688.5	159.39	5.320
20,900.0	11,916.0	21,095.4	11,916.0	80.7	81.9	-90.00	-9,170.9	1,220.4	847.9	686.9	161.05	5.265
21,000.0	11,916.0	21,195.4	11,916.0	81.5	82.7	-90.00	-9,270.9	1,221.1	847.9	685.2	162.71	5.212
21,100.0	11,916.0	21,295.4	11,916.0	82.3	83.6	-90.00	-9,370.9	1,221.7	848.0	683.6	164.36	5.159
21,200.0	11,916.0	21,395.4	11,916.0	83.2	84.4	-90.00	-9,470.9	1,222.4	848.0	681.9	166.02	5.108
21,300.0	11,916.0	21,495.4	11,916.0	84.0	85.2	-90.00	-9,570.9	1,223.0	848.0	680.3	167.68	5.057
21,400.0	11,916.0	21,595.4	11,916.0	84.9	86.1	-90.00	-9,670.9	1,223.7	848.0	678.6	169.34	5.008
21,500.0	11,916.0	21,695.4	11,916.0	85.7	86.9	-90.00	-9,770.9	1,224.3	848.0	677.0	171.00	4.959
21,600.0	11,916.0	21,795.4	11,916.0	86.6	87.7	-90.00	-9,870.9	1,225.0	848.0	675.3	172.66	4.911
21,700.0	11,916.0	21,895.4	11,916.0	87.4	88.6	-90.00	-9,970.9	1,225.6	848.0	673.7	174.32	4.865
21,700.7	11,916.0	21,896.1	11,916.0	87.4	88.6	-90.00	-9,971.6	1,225.6	848.0	673.7	174.33	4.864

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 757H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-56.31	16.2	-24.3	29.2					
100.0	100.0	100.1	100.1	3.0	3.0	-56.90	15.8	-24.3	29.0	22.2	6.83	4.244		
158.0	158.0	158.0	158.0	3.1	3.0	-57.54	15.5	-24.4	28.9	22.0	6.91	4.180		
200.0	200.0	200.0	200.0	3.2	3.1	-58.16	15.2	-24.5	28.9	21.9	6.98	4.141		
300.0	300.0	300.1	300.1	3.3	3.1	-60.49	14.3	-25.2	28.9	21.8	7.12	4.065		
400.0	400.0	400.2	400.2	3.4	3.1	-62.44	13.2	-25.2	28.5	21.2	7.26	3.919		
500.0	500.0	500.2	500.1	3.5	3.2	-63.80	12.3	-25.0	27.8	20.4	7.40	3.758		
568.9	568.9	568.9	568.9	3.6	3.2	-65.94	11.3	-25.2	27.6	20.1	7.49	3.687		
600.0	600.0	600.0	600.0	3.7	3.2	-67.32	10.7	-25.5	27.6	20.1	7.54	3.669		
700.0	700.0	700.2	700.2	3.8	3.3	-72.17	8.4	-26.1	27.4	19.7	7.66	3.573		
800.0	800.0	800.3	800.2	3.9	3.3	-75.65	6.6	-25.8	26.6	18.8	7.79	3.413		
900.0	900.0	900.1	900.0	4.0	3.3	-74.33	7.0	-25.1	26.0	18.1	7.92	3.284		
1,000.0	1,000.0	1,000.2	1,000.1	4.2	3.3	-71.80	8.1	-24.5	25.8	17.8	8.06	3.206		
1,100.0	1,100.0	1,100.4	1,100.3	4.3	3.3	-68.89	9.0	-23.3	24.9	16.7	8.20	3.041		
1,200.0	1,200.0	1,200.4	1,200.2	4.4	3.4	-67.06	9.3	-22.0	23.9	15.5	8.34	2.862 Normal Operations		
1,300.0	1,300.0	1,300.3	1,300.2	4.5	3.4	-68.10	8.6	-21.3	23.0	14.5	8.48	2.708 Normal Operations		
1,344.9	1,344.9	1,345.0	1,344.9	4.6	3.4	-69.34	7.9	-21.0	22.4	13.9	8.53	2.630 Normal Operations, CC, ES, SF		
1,400.0	1,400.0	1,345.0	1,344.9	4.6	3.4	-69.34	7.9	-21.0	59.5	52.8	6.70	8.882		
1,500.0	1,500.0	1,345.0	1,344.9	4.8	3.4	-69.34	7.9	-21.0	156.7	150.3	6.45	24.297		
1,600.0	1,600.0	1,345.0	1,344.9	4.8	3.4	-151.59	7.9	-21.0	256.2	249.7	6.50	39.443		
1,700.0	1,699.8	1,345.0	1,344.9	5.0	3.4	-113.52	7.9	-21.0	356.2	349.6	6.57	54.205		
1,800.0	1,799.5	1,345.0	1,344.9	5.2	3.4	-34.75	7.9	-21.0	456.1	449.5	6.65	68.550		
1,850.0	1,849.1	1,345.0	1,344.9	5.2	3.4	-21.40	7.9	-21.0	506.1	499.4	6.70	75.560		
1,900.0	1,898.8	1,345.0	1,344.9	5.2	3.4	-21.40	7.9	-21.0	556.1	549.3	6.74	82.458		
2,000.0	1,998.0	1,345.0	1,344.9	5.4	3.4	-21.40	7.9	-21.0	656.0	649.2	6.84	95.932		
2,100.0	2,097.3	1,345.0	1,344.9	5.6	3.4	-21.40	7.9	-21.0	756.0	749.0	6.94	108.987		
2,200.0	2,196.5	1,345.0	1,344.9	5.7	3.4	-21.40	7.9	-21.0	855.9	848.9	7.04	121.615		
2,300.0	2,295.8	1,345.0	1,344.9	5.9	3.4	-21.40	7.9	-21.0	955.9	948.8	7.14	133.812		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 757H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11461-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	No-Go Distance	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-56.31	16.2	-24.3	29.2				
100.0	100.0	100.0	100.0	3.0	3.0	-56.31	16.2	-24.3	29.2	22.1	7.07	4.126	
200.0	200.0	200.0	200.0	3.2	3.2	-56.31	16.2	-24.3	29.2	21.9	7.32	3.989	
300.0	300.0	300.0	300.0	3.3	3.3	-56.31	16.2	-24.3	29.2	21.6	7.55	3.864	
400.0	400.0	400.0	400.0	3.4	3.4	-56.31	16.2	-24.3	29.2	21.4	7.78	3.750	
500.0	500.0	500.0	500.0	3.5	3.5	-56.31	16.2	-24.3	29.2	21.2	8.01	3.645	
600.0	600.0	600.0	600.0	3.7	3.7	-56.31	16.2	-24.3	29.2	21.0	8.23	3.547	
700.0	700.0	700.0	700.0	3.8	3.8	-56.31	16.2	-24.3	29.2	20.7	8.44	3.457	
800.0	800.0	800.0	800.0	3.9	3.9	-56.31	16.2	-24.3	29.2	20.5	8.65	3.373	
900.0	900.0	900.0	900.0	4.0	4.0	-56.31	16.2	-24.3	29.2	20.3	8.86	3.294	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-56.31	16.2	-24.3	29.2	20.1	9.06	3.220	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-56.31	16.2	-24.3	29.2	19.9	9.26	3.150	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-56.31	16.2	-24.3	29.2	19.7	9.46	3.084	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-56.31	16.2	-24.3	29.2	19.5	9.66	3.022	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-56.31	16.2	-24.3	29.2	19.3	9.85	2.963 Normal Operations	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-56.31	16.2	-24.3	29.2	19.1	10.04	2.907 Normal Operations	
1,600.0	1,600.0	1,600.8	1,600.8	4.8	4.8	-147.19	16.2	-22.5	29.2	19.0	10.22	2.856 Normal Operations	
1,700.0	1,699.8	1,701.7	1,701.5	5.0	5.0	-146.84	16.3	-17.2	29.3	18.6	10.66	2.744 Normal Operations	
1,800.0	1,799.5	1,802.5	1,802.0	5.2	5.2	-146.26	16.5	-8.3	29.4	18.3	11.09	2.650 Normal Operations	
1,850.0	1,849.1	1,852.9	1,852.1	5.2	5.3	-145.89	16.6	-2.6	29.5	18.2	11.22	2.625 Normal Operations	
1,900.0	1,898.8	1,903.4	1,902.0	5.2	5.4	-144.97	16.7	4.1	29.2	17.8	11.35	2.571 Normal Operations	
2,000.0	1,998.0	2,004.1	2,001.5	5.4	5.7	-139.50	17.0	19.9	26.7	15.0	11.67	2.284 Caution - Monitor Closely	
2,100.0	2,097.3	2,104.4	2,099.9	5.6	5.9	-126.14	17.3	39.2	22.3	10.3	11.94	1.866 Caution - Monitor Closely	
2,200.0	2,196.5	2,204.1	2,197.0	5.7	6.1	-97.82	17.7	61.8	18.9	6.8	12.16	1.558 Caution - Monitor Closely	
2,210.4	2,206.8	2,214.4	2,207.0	5.7	6.2	-93.91	17.7	64.3	18.9	6.7	12.19	1.550 Caution - Monitor Closely, CC, ES, SF	
2,300.0	2,295.8	2,302.9	2,292.4	5.9	6.4	-60.15	18.1	87.5	22.8	10.2	12.56	1.811 Caution - Monitor Closely	
2,400.0	2,395.0	2,401.7	2,387.4	6.1	6.5	-37.65	18.6	114.7	34.0	21.0	13.02	2.614 Normal Operations	
2,500.0	2,494.3	2,500.4	2,482.3	6.2	6.7	-27.09	19.1	141.9	47.8	34.4	13.41	3.568	
2,600.0	2,593.5	2,599.2	2,577.3	6.4	6.8	-21.35	19.6	169.1	62.5	48.8	13.77	4.540	
2,700.0	2,692.8	2,698.0	2,672.2	6.6	7.0	-17.81	20.0	196.4	77.6	63.5	14.13	5.491	
2,800.0	2,792.0	2,796.7	2,767.1	6.7	7.2	-15.43	20.5	223.6	92.9	78.4	14.49	6.409	
2,900.0	2,891.3	2,895.5	2,862.1	6.9	7.4	-13.72	21.0	250.8	108.2	93.4	14.85	7.290	
3,000.0	2,990.6	2,994.3	2,957.0	7.1	7.5	-12.44	21.5	278.0	123.7	108.5	15.21	8.133	
3,100.0	3,089.8	3,093.0	3,052.0	7.2	7.7	-11.44	21.9	305.2	139.2	123.6	15.57	8.939	
3,200.0	3,189.1	3,191.8	3,146.9	7.4	7.9	-10.64	22.4	332.5	154.7	138.8	15.94	9.708	
3,300.0	3,288.3	3,290.6	3,241.8	7.6	8.1	-9.99	22.9	359.7	170.2	153.9	16.30	10.442	
3,400.0	3,387.6	3,389.3	3,336.8	7.8	8.3	-9.44	23.4	386.9	185.8	169.1	16.68	11.143	
3,500.0	3,486.8	3,488.1	3,431.7	7.9	8.5	-8.98	23.8	414.1	201.4	184.3	17.05	11.813	
3,600.0	3,586.1	3,586.9	3,526.7	8.1	8.7	-8.59	24.3	441.3	217.0	199.6	17.43	12.452	
3,700.0	3,685.3	3,685.6	3,621.6	8.3	8.8	-8.25	24.8	468.6	232.6	214.8	17.80	13.064	
3,800.0	3,784.6	3,784.4	3,716.5	8.5	9.0	-7.95	25.3	495.8	248.2	230.0	18.18	13.649	
3,896.1	3,880.0	3,879.3	3,807.8	8.6	9.2	-7.70	25.7	521.9	263.2	244.7	18.55	14.191	
3,900.0	3,883.8	3,883.2	3,811.5	8.6	9.2	-7.69	25.7	523.0	263.8	245.2	18.56	14.214	
4,000.0	3,983.2	3,981.8	3,906.3	9.0	9.4	-7.45	26.2	550.2	280.3	261.3	19.09	14.687	
4,100.0	4,082.8	4,080.1	4,000.8	9.1	9.7	-7.20	26.7	577.3	298.6	279.1	19.47	15.339	
4,200.0	4,182.5	4,178.1	4,095.0	9.3	9.9	-6.95	27.2	604.3	318.5	298.7	19.84	16.055	
4,300.0	4,282.3	4,275.7	4,188.8	9.5	10.1	-6.69	27.6	631.2	340.2	320.0	20.21	16.833	
4,400.0	4,382.2	4,372.9	4,282.3	9.6	10.3	-6.44	28.1	658.0	363.6	343.0	20.58	17.670	
4,500.0	4,482.1	4,469.7	4,375.3	9.8	10.5	-6.20	28.6	684.6	388.6	367.7	20.93	18.566	
4,596.1	4,578.3	4,562.3	4,464.3	9.9	10.7	85.03	29.0	710.2	414.3	393.0	21.23	19.509	
4,600.0	4,582.1	4,566.1	4,467.9	9.9	10.7	85.04	29.0	711.2	415.3	394.1	21.24	19.550	

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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2032 PROJECT (S TO N) - ZIA HILLS UNIT 2032 WC 757H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1+SAG+FDIR, 11461-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,700.0	4,682.1	4,662.2	4,560.3	10.1	10.9	85.29	29.5	737.7	442.8	421.2	21.66	20.449	
4,800.0	4,782.1	4,758.3	4,652.7	10.2	11.1	85.51	29.9	764.2	470.4	448.4	21.94	21.435	
4,900.0	4,882.1	4,854.4	4,745.1	10.2	11.3	85.70	30.4	790.7	497.9	475.6	22.23	22.394	
5,000.0	4,982.1	4,950.6	4,837.5	10.3	11.5	85.87	30.9	817.2	525.4	502.9	22.52	23.326	
5,100.0	5,082.1	5,046.7	4,929.9	10.4	11.7	86.03	31.3	843.7	552.9	530.1	22.82	24.233	
5,200.0	5,182.1	5,142.8	5,022.3	10.5	11.9	86.17	31.8	870.1	580.5	557.3	23.11	25.115	
5,300.0	5,282.1	5,238.9	5,114.7	10.5	12.2	86.30	32.3	896.6	608.0	584.6	23.41	25.974	
5,400.0	5,382.1	5,335.1	5,207.1	10.6	12.4	86.42	32.7	923.1	635.5	611.8	23.71	26.809	
5,500.0	5,482.1	5,431.2	5,299.5	10.7	12.6	86.52	33.2	949.6	663.1	639.1	24.00	27.622	
5,600.0	5,582.1	5,527.3	5,391.9	10.7	12.8	86.62	33.6	976.1	690.6	666.3	24.31	28.413	
5,700.0	5,682.1	5,623.4	5,484.3	10.8	13.0	86.71	34.1	1,002.6	718.1	693.5	24.61	29.183	
5,800.0	5,782.1	5,719.6	5,576.7	10.9	13.3	86.80	34.6	1,029.1	745.7	720.8	24.91	29.933	
5,900.0	5,882.1	5,815.7	5,669.1	11.0	13.5	86.88	35.0	1,055.6	773.2	748.0	25.22	30.664	
6,000.0	5,982.1	5,911.8	5,761.5	11.0	13.7	86.95	35.5	1,082.1	800.8	775.3	25.52	31.375	
6,100.0	6,082.1	6,007.9	5,853.9	11.1	13.9	87.02	36.0	1,108.6	828.3	802.5	25.83	32.068	
6,200.0	6,182.1	6,104.1	5,946.3	11.2	14.1	87.08	36.4	1,135.1	855.9	829.7	26.14	32.745	
6,300.0	6,282.1	6,206.5	6,044.9	11.3	14.4	87.14	36.9	1,163.0	883.2	856.7	26.45	33.391	
6,400.0	6,382.1	6,311.1	6,145.8	11.3	14.6	87.20	37.4	1,190.7	909.6	882.8	26.78	33.959	
6,500.0	6,482.1	6,416.3	6,247.5	11.4	14.8	87.26	37.9	1,217.5	935.1	908.0	27.12	34.483	
6,600.0	6,582.1	6,521.9	6,349.8	11.5	15.1	87.30	38.3	1,243.6	959.8	932.3	27.45	34.963	
6,700.0	6,682.1	6,628.0	6,452.9	11.6	15.3	87.35	38.8	1,268.8	983.5	955.7	27.78	35.403	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30 SCAN @ 3205.0usft

Offset Depths are relative to Offset Datum

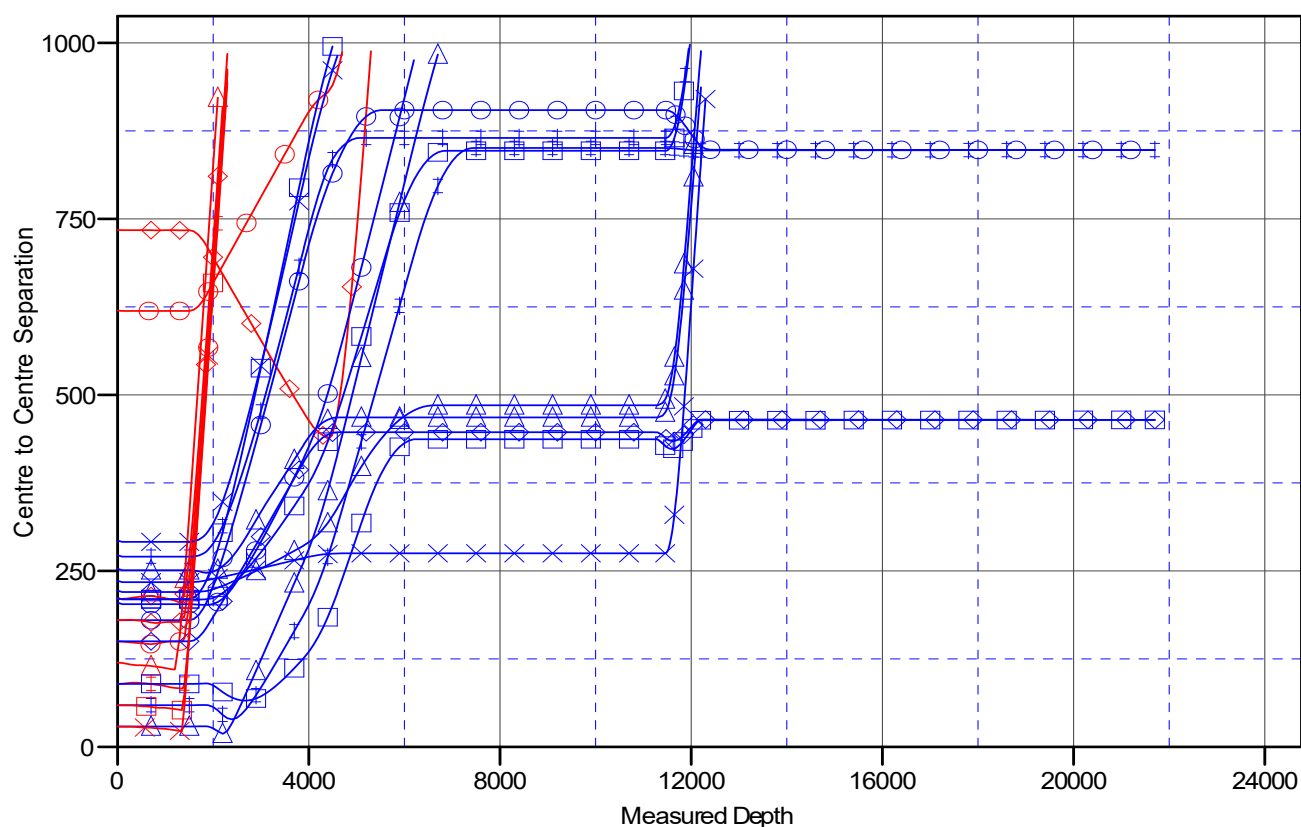
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC 754H

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

Grid Convergence at Surface is: 0.33°

Ladder Plot



LEGEND

RUSSELL FEDERAL #12, OWB, AWP V0	ZIA HILLS UNIT 2032 WC 704H OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC 701H OWB, PWP0 V0
RUSSELL FEDERAL #6 (P&A), OWB, AWP V0	ZIA HILLS UNIT 2032 WC 703H OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC 705H OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC 754Y OWB, AWP V0	ZIA HILLS UNIT 2032 WC 757H OWB, PWP1 V0	ZIA HILLS UNIT 2032 WC 703H OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC 756H OWB, PWP1 V0	ZIA HILLS UNIT 2032 WC #704H OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC 751H OWB, AWP V0
ZIA HILLS UNIT 2032 WC 756H OWB, AWP V0	ZIA HILLS UNIT 2032 WC 756H OWB, AWP V0	ZIA HILLS UNIT 2032 WC 756H OWB, PWP1 V0
ZIA HILLS UNIT 2032 WC 752H OWB, PWP1 V0	ZIA HILLS UNIT 2032 WC 756H OWB, PWP1 V0	ZIA HILLS UNIT 2032 WC 751H OWB, AWP V0
ZIA HILLS UNIT 2032 WC 752H OWB, AWP V0	ZIA HILLS UNIT 2032 WC 753H OWB, AWP V0	ZIA HILLS UNIT 2032 WC 757H OWB, AWP V0
ZIA HILLS UNIT 2032 WC #704H OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC 753H OWB, PWP1 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 754H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	KB=30 SCAN @ 3205.0usft
Reference Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	MD Reference:	KB=30 SCAN @ 3205.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30 SCAN @ 3205.0usft

Offset Depths are relative to Offset Datum

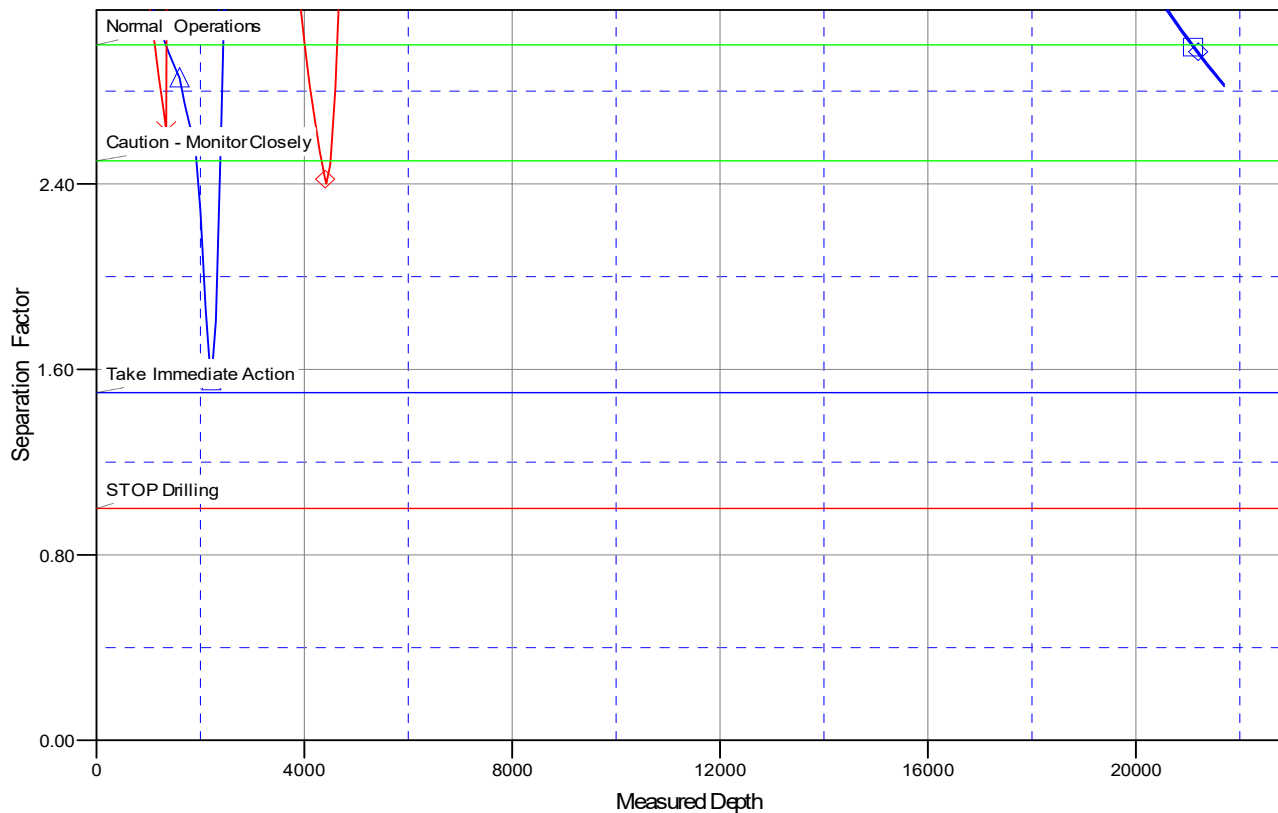
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2032 WC 754H

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

Grid Convergence at Surface is: 0.33°

Separation Factor Plot



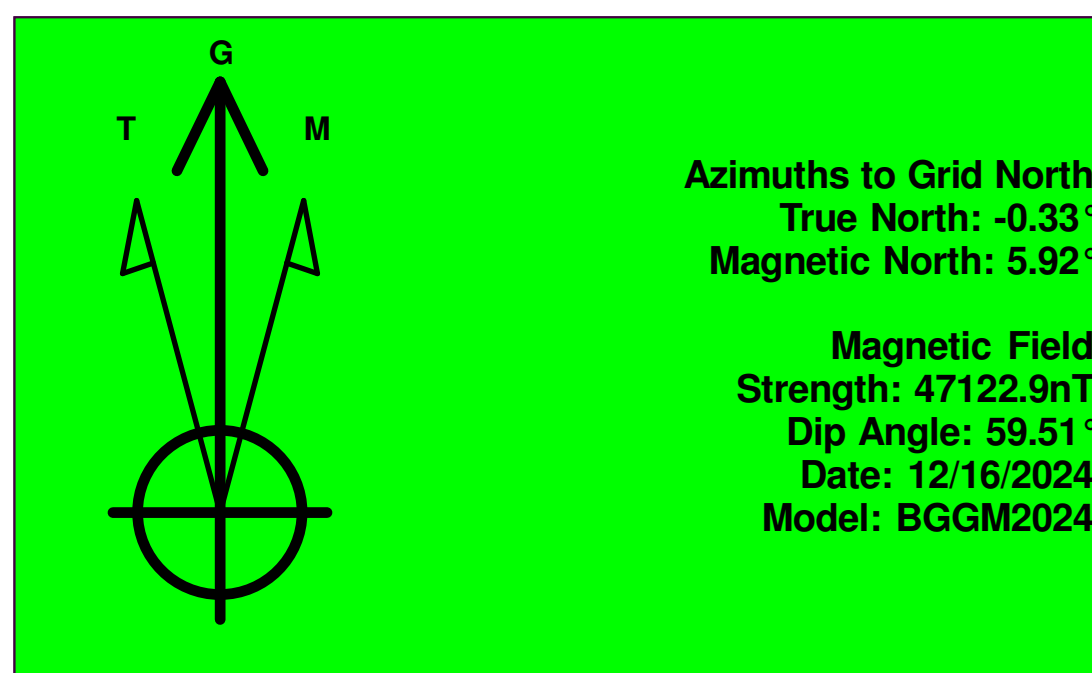
LEGEND

RUSSELL FEDERAL #12, OWB, AWP V0	ZIA HILLS UNIT 2032 WC 704H OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC 701H OWB, PWP0 V0
RUSSELL FEDERAL #6 (P&A) OWB, AWP V0	ZIA HILLS UNIT 2032 WC 704H OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC 705H OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC 754Y OWB, AWP V0	ZIA HILLS UNIT 2032 WC 757H OWB, PWP1 V0	ZIA HILLS UNIT 2032 WC 702H OWB, PWP0 V0
ZIA HILLS UNIT 2032 WC 756H OWB, PWP1 V0	ZIA HILLS UNIT 2032 WC #709H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC 751H OWB, AWP V0
ZIA HILLS UNIT 2032 WC 756H OWB, AWP V0	ZIA HILLS UNIT 2032 WC 756H OWB, AWP V0	ZIA HILLS UNIT 2032 WC 751H OWB, PWP1 V0
ZIA HILLS UNIT 2032 WC 752H OWB, PWP1 V0	ZIA HILLS UNIT 2032 WC 756H OWB, PWP1 V0	ZIA HILLS UNIT 2032 WC 753H OWB, AWP V0
ZIA HILLS UNIT 2032 WC 752H OWB, AWP V0	ZIA HILLS UNIT 2032 WC 753H OWB, AWP V0	ZIA HILLS UNIT 2032 WC 757H OWB, AWP V0
ZIA HILLS UNIT 2032 WC #704H, OWB, PWP0 V0	ZIA HILLS UNIT 2032 WC 753H OWB, PWP1 V0	

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



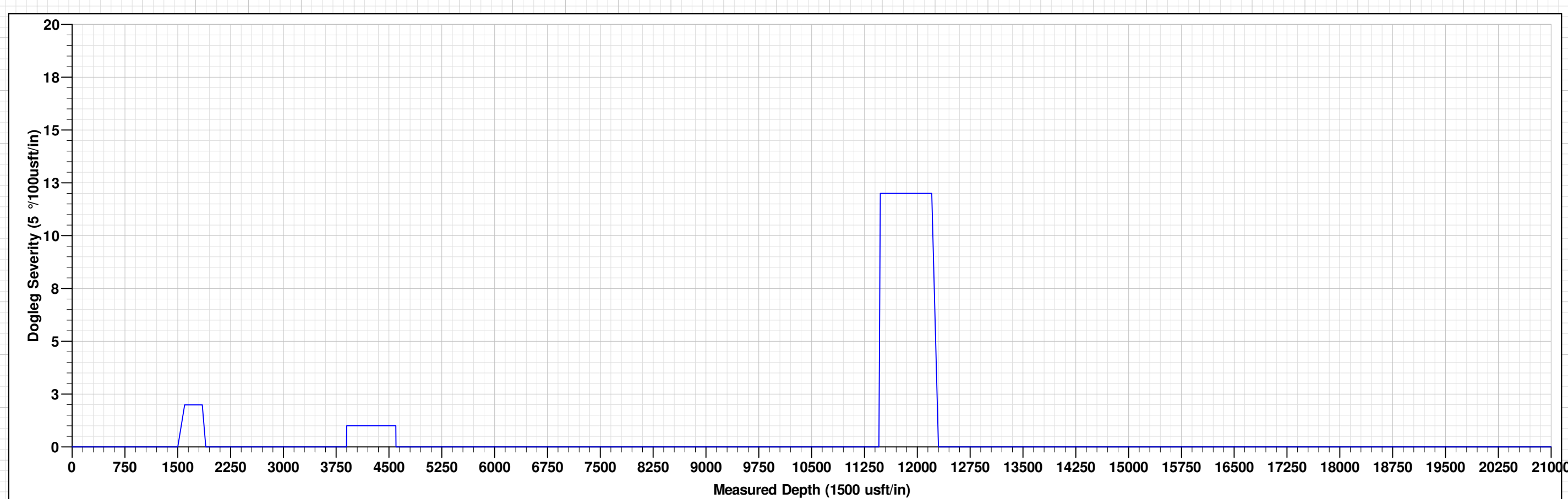
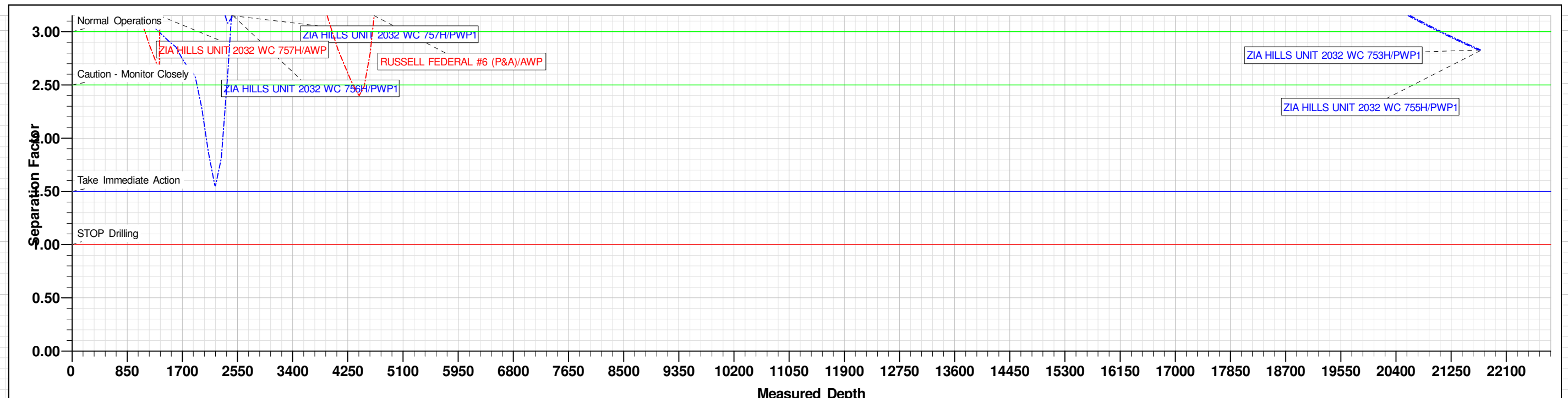
Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2032 PROJECT (S TO N)
Well: ZIA HILLS UNIT 2032 WC 754H
Wellbore: OWB
Design: PWP1
GL: 3175.0
KB=30 SCAN @ 3205.0usft



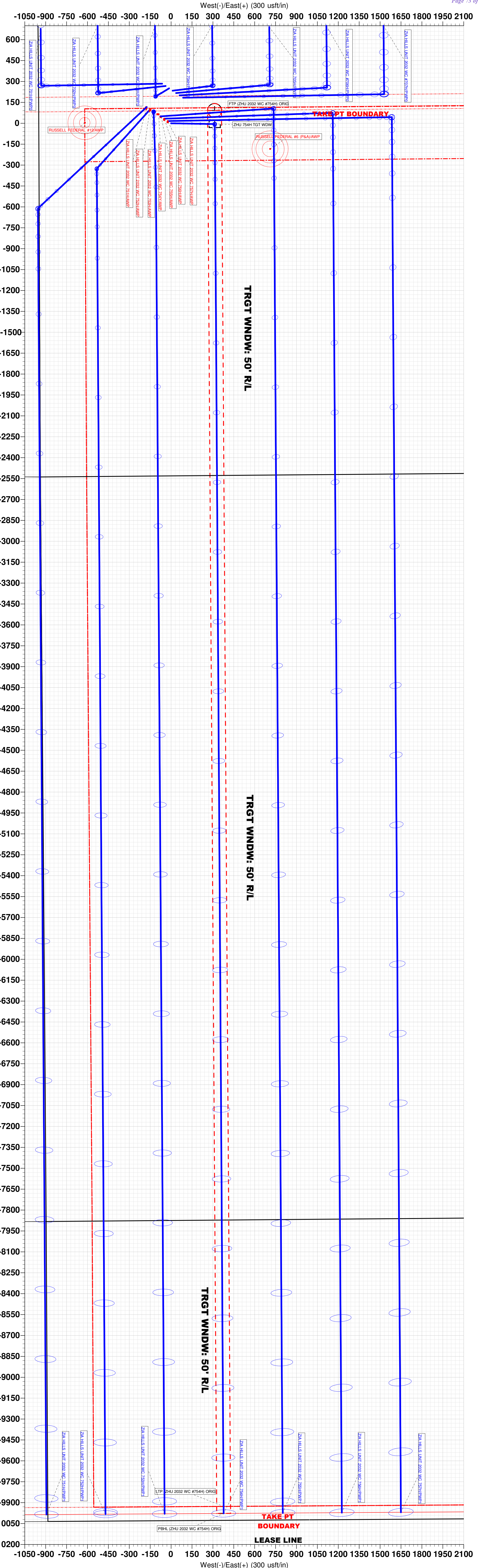
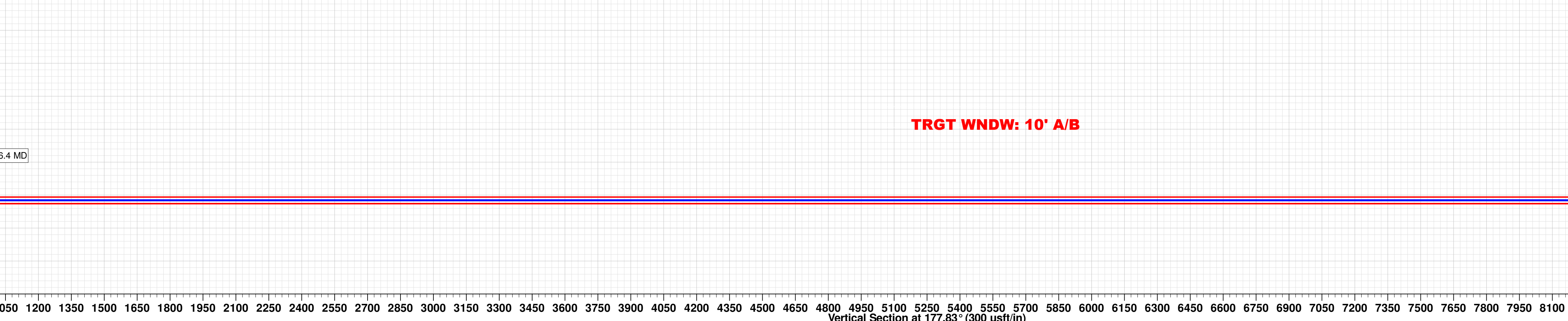
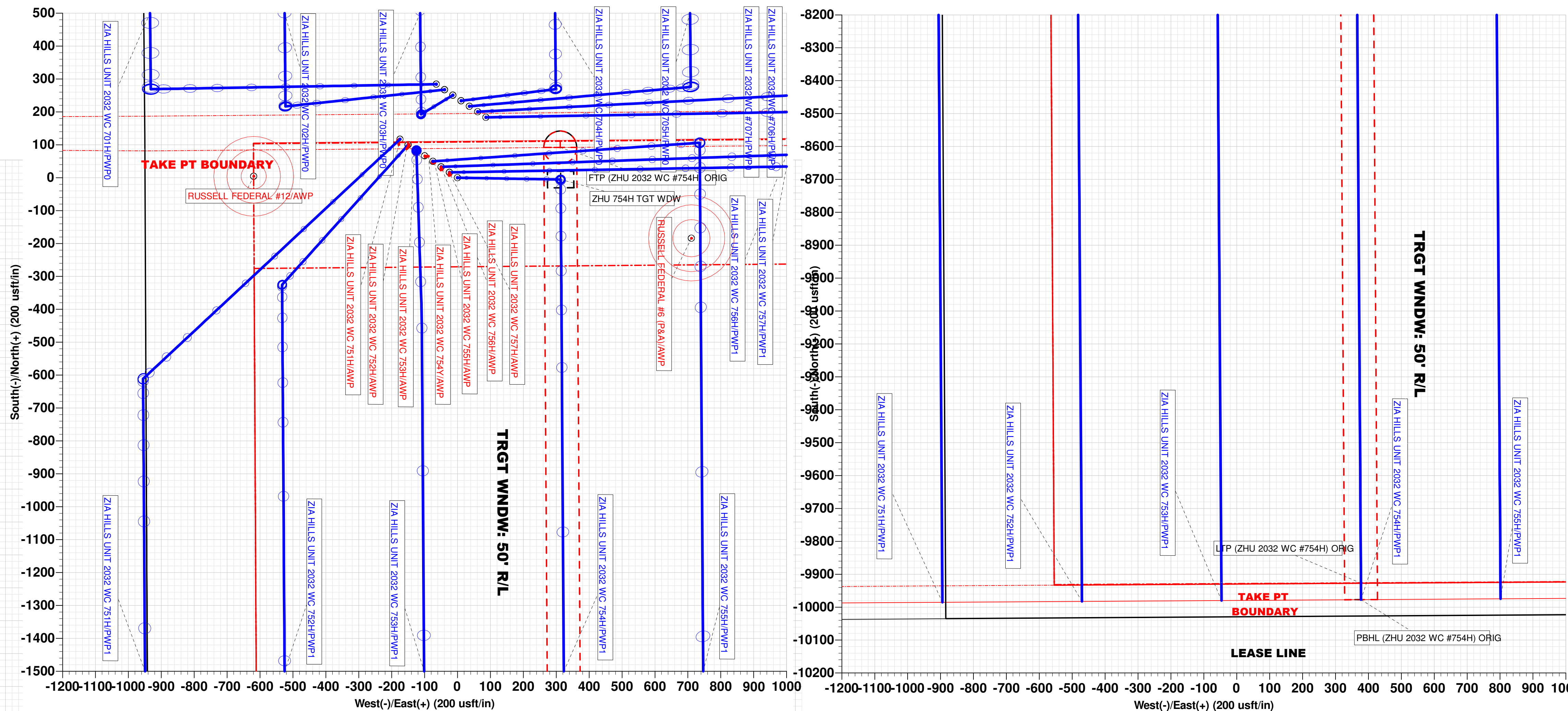
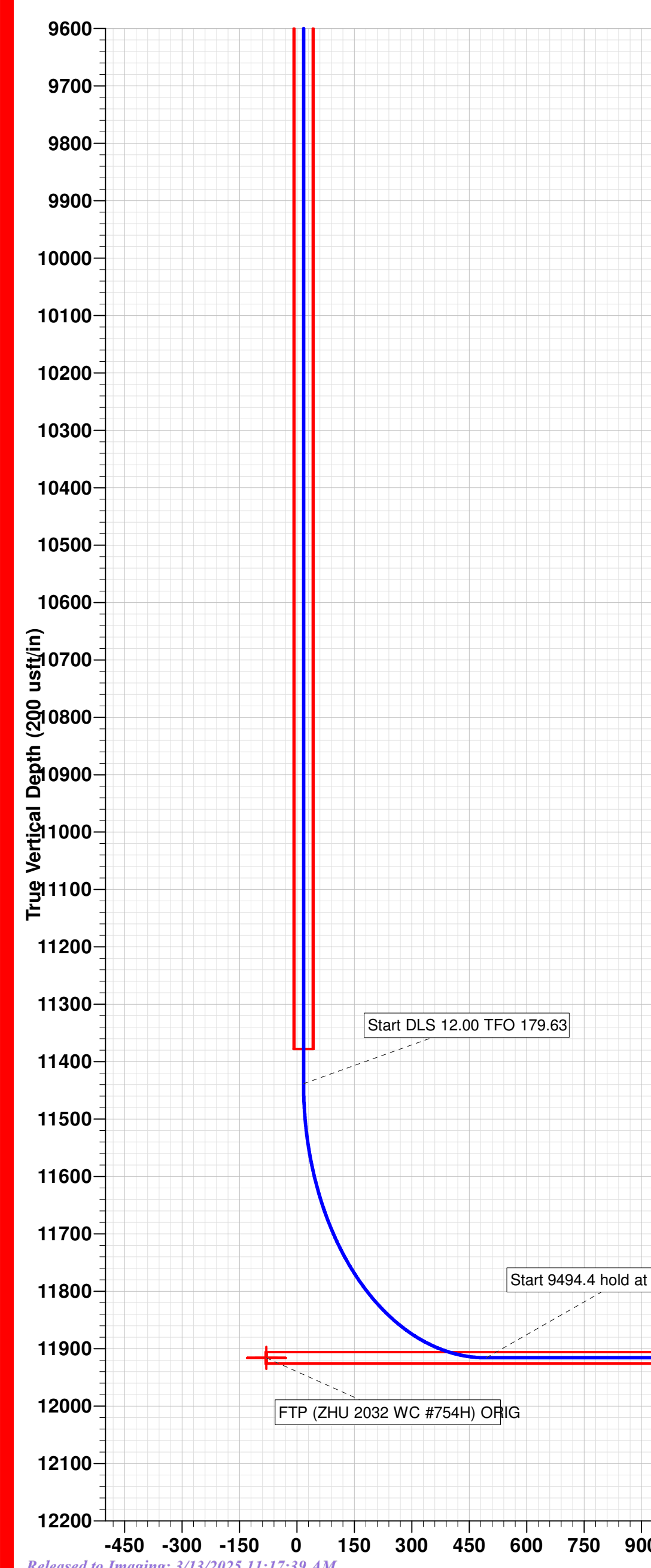
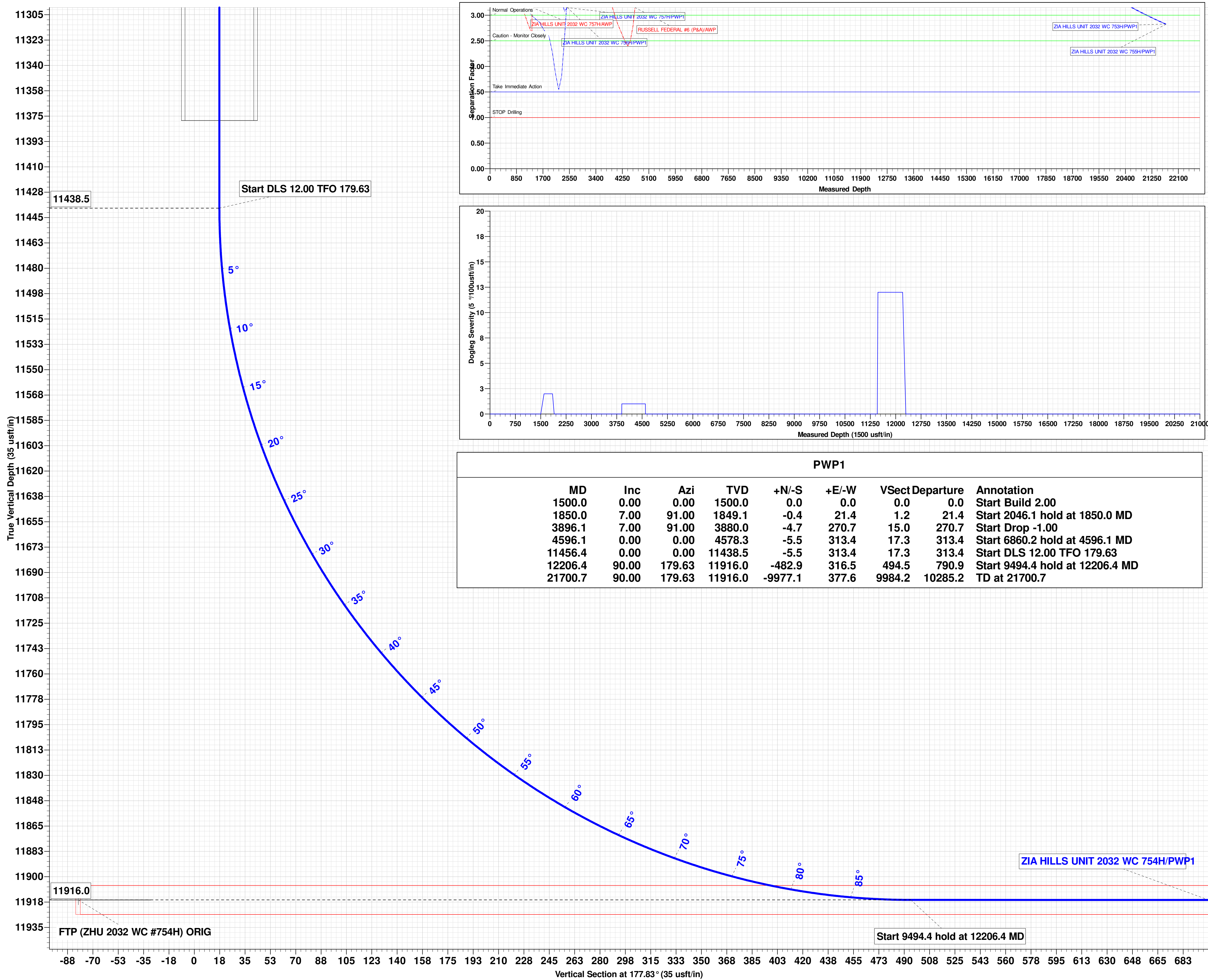
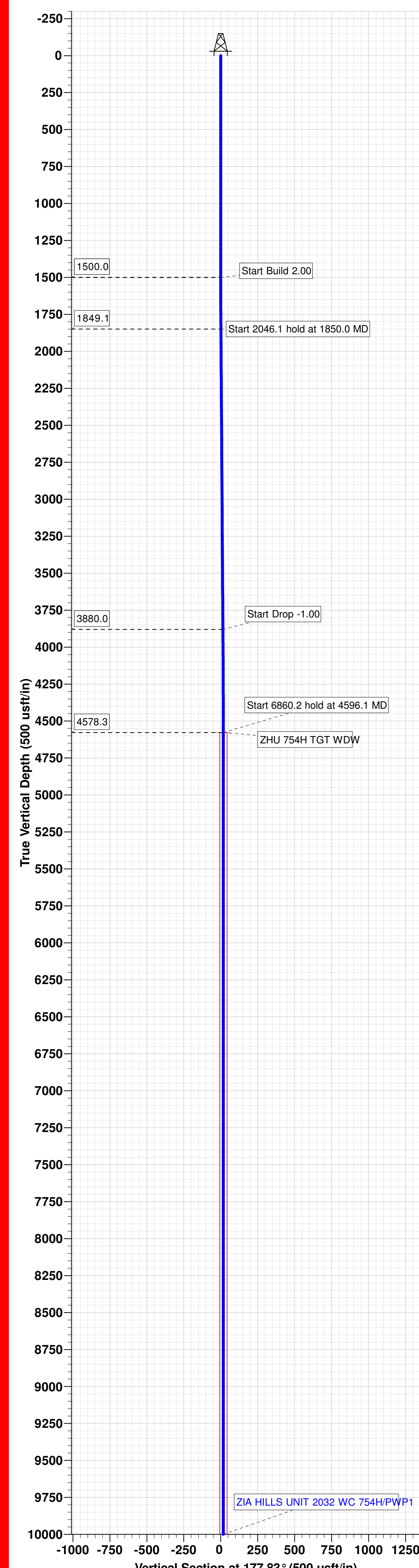
Azimuths to Grid North
True North: -0.33°
Magnetic North: 5.92°
Magnetic Field
Strength: 47122.9nT
Dip Angle: 59.51°
Date: 12/16/2024
Model: BGGM2024

WELL DETAILS: ZIA HILLS UNIT 2032 WC 754H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374360.60	695581.93	32° 1' 39.580 N	103° 42' 8.025 W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
ZHU 754H TGT WDW	4578.0	-5.5	313.4	374355.10	695895.33
FTP (ZHU 2032 WC #754H) ORIG	11916.0	91.9	312.2	374452.51	695894.15
LTP (ZHU 2032 WC #754H) ORIG	11916.0	-9927.1	377.6	364433.53	695959.58
PBHL (ZHU 2032 WC #754H) ORIG	11916.0	-9977.1	377.6	364383.53	695959.58
				Shape	
				Rectangle (Sides: L50.0 W80.0)	
				Circle (Radius: 50.0)	
				Point	
				Rectangle (Sides: L10069.4 W100.0)	



PWP1									
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	
1850.0	7.00	91.00	1849.1	-0.4	21.4	1.2	21.4	Start 2046.1 hold at 1850.0 MD	
3896.1	7.00	91.00	3880.0	-4.7	270.7	15.0	270.7	Start Drop -1.00	
4596.1	0.00	0.00	4578.3	-5.5	313.4	17.3	313.4	Start 6860.2 hold at 4596.1 MD	
11456.4	0.00	0.00	11438.5	-5.5	313.4	17.3	313.4	Start DLS 12.00 TFO 179.63	
12206.4	90.00	179.63	11916.0	-482.9	316.5	494.5	790.9	Start 9494.4 hold at 12206.4 MD	
21700.7	90.00	179.63	11916.0	-9977.1	377.6	9984.2	10285.2	TD at 21700.7	



TRGT WNDW: 10' A/B

TRGT WNDW: 50' R/L

TRGT WNDW: 50' R/L

TRGT WNDW: 50' R/L

TRGT WNDW: 50' R/L

TRGT WNDW: 50' R/L

TRGT WNDW: 50' R/L



API BTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.380 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry			Performance		
Nominal OD	13.375 in.	Drift	12.459 in.	SMYS	55,000 psi
Wall Thickness	0.380 in.	Plain End Weight	52.79 lb/ft	Min UTS	75,000 psi
Nominal Weight	54.500 lb/ft	OD Tolerance	API	Body Yield Strength	853 x1000 lb
Nominal ID	12.615 in.			Min. Internal Yield Pressure	2730 psi
				Collapse Pressure	1130 psi
				Max. Allowed Bending	19 °/100 ft

Connection Data

Geometry		Performance	
Thread per In	5	Joint Strength	909 x1000 lb
Connection OD	14.375 in.	Coupling Face Load	766 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	2730 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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API BTC

Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -

Outside Diameter	9.625 in.	Wall Thickness	0.395 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	9.625 in.	Drift	8.679 in.	SMYS	80,000 psi
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft	Min UTS	95,000 psi
Nominal Weight	40 lb/ft	OD Tolerance	API	Body Yield Strength	916 x1000 lb
Nominal ID	8.835 in.			Min. Internal Yield Pressure	5750 psi
				Collapse Pressure	3870 psi
				Max. Allowed Bending	38 °/100 ft

Connection Data

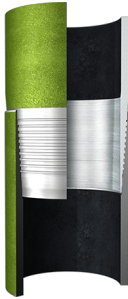
Geometry		Performance	
Thread per In	5	Joint Strength	947 x1000 lb
Connection OD	10.625 in.	Coupling Face Load	837 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	5750 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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Wedge 513[®]



Coupling	Pipe Body
Grade: P110-ICY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	P110-ICY
Min. Wall Thickness	90.00 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.	Body Yield Strength	1068 x1000 lb
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft	Min. Internal Yield Pressure	11,070 psi
Drift	6.750 in.	OD Tolerance	API	SMYS	125,000 psi
Nominal ID	6.875 in.			Collapse Pressure	7360 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	60 %	Minimum	9000 ft-lb
Connection ID	6.800 in.	Joint Yield Strength	641 x1000 lb	Optimum	10,800 ft-lb
Make-up Loss	4.420 in.	Internal Pressure Capacity	11,070 psi	Maximum	15,800 ft-lb
Threads per inch	3.29	Compression Efficiency	75.20 %	Operation Limit Torques	
Connection OD Option	Regular	Compression Strength	803 x1000 lb	Operating Torque	53,000 ft-lb
		Max. Allowable Bending	45 °/100 ft	Yield Torque	79,000 ft-lb
		External Pressure Capacity	7360 psi		

Notes

This connection is fully interchangeable with:
Wedge 523[®] - 7.625 in. - 0.375 in.
Connections with Dopeless[®] Technology are fully compatible with the same connection in its Standard version

For the latest performance data, always visit our website: www.tenaris.com

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TXP® BTC



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.415 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.415 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	23.00 lb/ft	Plain End Weight	22.56 lb/ft	Min. Internal Yield Pressure	14,530 psi
Drift	4.545 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.670 in.			Collapse Pressure	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.200 in.	Tension Efficiency	100 %	Minimum	12,980 ft-lb
Coupling Length	9.450 in.	Joint Yield Strength	729 x1000 lb	Optimum	14,420 ft-lb
Connection ID	4.658 in.	Internal Pressure Capacity	14,530 psi	Maximum	15,860 ft-lb
Make-up Loss	4.204 in.	Compression Efficiency	100 %		
Threads per inch	5	Compression Strength	729 x1000 lb	Operation Limit Torques	
Connection OD Option	Regular	Max. Allowable Bending	92 °/100 ft	Operating Torque	24,200 ft-lb
		External Pressure Capacity	14,540 psi	Yield Torque	26,900 ft-lb
		Coupling Face Load	302,000 lb		

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 (15.50) / 0.304 (17.00) / 0.361 (20.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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TenarisHydril Wedge 441®



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.415 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.415 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	23 lb/ft	Plain End Weight	22.56 lb/ft	Min. Internal Yield Pressure	14,530 psi
Drift	4.545 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.670 in.			Collapse Pressure	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.900 in.	Tension Efficiency	90.80 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	662 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.670 in.	Internal Pressure Capacity	14,530 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	90.80 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	662 x1000 lb	Operating Torque	33,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	82 °/100 ft	Yield Torque	39,000 ft-lb
		External Pressure Capacity	14,540 psi	Buck-On	
		Coupling Face Load	172,000 lb	Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2032 PROJECT (S TO N)

ZIA HILLS UNIT 2032 WC 754H

300255254100

OWB

Plan: PWP1

Standard Planning Report

07 March, 2025

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30 SCAN @ 3205.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB=30 SCAN @ 3205.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Project	ZIA HILLS UNIT AREA		
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 (S TO N)		
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 754H		
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' 39.580 N
		Longitude:	103° 42' 8.025 W
		Ground Level:	3,175.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	12/16/2024	6.26	59.51	47,122.89814899

Design	PWP1				
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	177.83

Plan Survey Tool Program		Date	3/7/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	1,500.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp		
2	1,500.0	11,462.6 PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG		
3	11,462.6	21,700.7 PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG		

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30 SCAN @ 3205.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB=30 SCAN @ 3205.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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	
1,850.0	7.00	91.00	1,849.1	-0.4	21.4	2.00	2.00	0.00	91.00	
3,896.1	7.00	91.00	3,880.0	-4.7	270.7	0.00	0.00	0.00	0.00	
4,596.1	0.00	0.00	4,578.3	-5.5	313.4	1.00	-1.00	0.00	180.00	
11,456.4	0.00	0.00	11,438.5	-5.5	313.4	0.00	0.00	0.00	0.00	
12,206.4	90.00	179.63	11,916.0	-482.9	316.5	12.00	12.00	23.95	179.63	
21,700.7	90.00	179.63	11,916.0	-9,977.1	377.6	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30 SCAN @ 3205.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB=30 SCAN @ 3205.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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	91.00	1,600.0	0.0	1.7	0.1	2.00	2.00	0.00
1,700.0	4.00	91.00	1,699.8	-0.1	7.0	0.4	2.00	2.00	0.00
1,800.0	6.00	91.00	1,799.5	-0.3	15.7	0.9	2.00	2.00	0.00
1,850.0	7.00	91.00	1,849.1	-0.4	21.4	1.2	2.00	2.00	0.00
Start 2046.1 hold at 1850.0 MD									
1,900.0	7.00	91.00	1,898.8	-0.5	27.4	1.5	0.00	0.00	0.00
2,000.0	7.00	91.00	1,998.0	-0.7	39.6	2.2	0.00	0.00	0.00
2,100.0	7.00	91.00	2,097.3	-0.9	51.8	2.9	0.00	0.00	0.00
2,200.0	7.00	91.00	2,196.5	-1.1	64.0	3.5	0.00	0.00	0.00
2,300.0	7.00	91.00	2,295.8	-1.3	76.2	4.2	0.00	0.00	0.00
2,400.0	7.00	91.00	2,395.0	-1.5	88.4	4.9	0.00	0.00	0.00
2,500.0	7.00	91.00	2,494.3	-1.8	100.6	5.6	0.00	0.00	0.00
2,600.0	7.00	91.00	2,593.5	-2.0	112.7	6.2	0.00	0.00	0.00
2,700.0	7.00	91.00	2,692.8	-2.2	124.9	6.9	0.00	0.00	0.00
2,800.0	7.00	91.00	2,792.0	-2.4	137.1	7.6	0.00	0.00	0.00
2,900.0	7.00	91.00	2,891.3	-2.6	149.3	8.3	0.00	0.00	0.00
3,000.0	7.00	91.00	2,990.6	-2.8	161.5	8.9	0.00	0.00	0.00
3,100.0	7.00	91.00	3,089.8	-3.0	173.7	9.6	0.00	0.00	0.00
3,200.0	7.00	91.00	3,189.1	-3.2	185.8	10.3	0.00	0.00	0.00
3,300.0	7.00	91.00	3,288.3	-3.5	198.0	10.9	0.00	0.00	0.00
3,400.0	7.00	91.00	3,387.6	-3.7	210.2	11.6	0.00	0.00	0.00
3,500.0	7.00	91.00	3,486.8	-3.9	222.4	12.3	0.00	0.00	0.00
3,600.0	7.00	91.00	3,586.1	-4.1	234.6	13.0	0.00	0.00	0.00
3,700.0	7.00	91.00	3,685.3	-4.3	246.8	13.6	0.00	0.00	0.00
3,800.0	7.00	91.00	3,784.6	-4.5	259.0	14.3	0.00	0.00	0.00
3,896.1	7.00	91.00	3,880.0	-4.7	270.7	15.0	0.00	0.00	0.00
Start Drop -1.00									
3,900.0	6.96	91.00	3,883.8	-4.7	271.1	15.0	1.00	-1.00	0.00
4,000.0	5.96	91.00	3,983.2	-4.9	282.4	15.6	1.00	-1.00	0.00
4,100.0	4.96	91.00	4,082.8	-5.1	291.9	16.1	1.00	-1.00	0.00
4,200.0	3.96	91.00	4,182.5	-5.2	299.7	16.6	1.00	-1.00	0.00
4,300.0	2.96	91.00	4,282.3	-5.3	305.7	16.9	1.00	-1.00	0.00
4,400.0	1.96	91.00	4,382.2	-5.4	310.0	17.1	1.00	-1.00	0.00
4,500.0	0.96	91.00	4,482.1	-5.5	312.6	17.3	1.00	-1.00	0.00
4,595.9	0.00	91.00	4,578.0	-5.5	313.4	17.3	1.00	-1.00	0.00
ZHU 754H TGT WDW									
4,596.1	0.00	0.00	4,578.3	-5.5	313.4	17.3	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30 SCAN @ 3205.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB=30 SCAN @ 3205.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
Start 6860.2 hold at 4596.1 MD									
4,600.0	0.00	0.00	4,582.1	-5.5	313.4	17.3	0.00	0.00	0.00
4,700.0	0.00	0.00	4,682.1	-5.5	313.4	17.3	0.00	0.00	0.00
4,800.0	0.00	0.00	4,782.1	-5.5	313.4	17.3	0.00	0.00	0.00
4,900.0	0.00	0.00	4,882.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,000.0	0.00	0.00	4,982.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,100.0	0.00	0.00	5,082.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,200.0	0.00	0.00	5,182.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,282.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,382.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,482.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,582.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,682.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,782.1	-5.5	313.4	17.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,882.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,982.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,100.0	0.00	0.00	6,082.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,182.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,282.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,382.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,482.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,582.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,682.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,782.1	-5.5	313.4	17.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,882.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,982.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,100.0	0.00	0.00	7,082.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,182.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,282.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,382.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,482.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,582.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,682.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,782.1	-5.5	313.4	17.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,882.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,982.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,082.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,182.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,282.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,382.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,482.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,582.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,682.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,782.1	-5.5	313.4	17.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,882.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,982.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,082.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,182.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,282.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,382.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,482.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,582.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,682.1	-5.5	313.4	17.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30 SCAN @ 3205.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB=30 SCAN @ 3205.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
9,800.0	0.00	0.00	9,782.1	-5.5	313.4	17.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,882.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,982.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,082.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,182.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,282.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,382.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,482.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,582.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,682.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,782.1	-5.5	313.4	17.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,882.1	-5.5	313.4	17.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,982.1	-5.5	313.4	17.3	0.00	0.00	0.00
11,100.0	0.00	0.00	11,082.1	-5.5	313.4	17.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,182.1	-5.5	313.4	17.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,282.1	-5.5	313.4	17.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,382.1	-5.5	313.4	17.3	0.00	0.00	0.00
11,456.4	0.00	0.00	11,438.5	-5.5	313.4	17.3	0.00	0.00	0.00
Start DLS 12.00 TFO 179.63									
11,500.0	5.24	179.63	11,482.1	-7.5	313.4	19.3	12.00	12.00	0.00
11,600.0	17.24	179.63	11,580.0	-26.9	313.5	38.8	12.00	12.00	0.00
11,700.0	29.24	179.63	11,671.7	-66.3	313.8	78.1	12.00	12.00	0.00
11,800.0	41.24	179.63	11,753.2	-123.9	314.1	135.7	12.00	12.00	0.00
FTP (ZHU 2032 WC #754H) ORIG									
11,900.0	53.24	179.63	11,821.0	-197.2	314.6	208.9	12.00	12.00	0.00
12,000.0	65.24	179.63	11,872.1	-282.9	315.2	294.7	12.00	12.00	0.00
12,100.0	77.24	179.63	11,904.2	-377.4	315.8	389.1	12.00	12.00	0.00
12,200.0	89.24	179.63	11,915.9	-476.6	316.4	488.2	12.00	12.00	0.00
12,206.4	90.00	179.63	11,916.0	-482.9	316.5	494.5	12.00	12.00	0.00
Start 9494.4 hold at 12206.4 MD									
12,300.0	90.00	179.63	11,916.0	-576.6	317.1	588.1	0.00	0.00	0.00
12,400.0	90.00	179.63	11,916.0	-676.6	317.7	688.1	0.00	0.00	0.00
12,500.0	90.00	179.63	11,916.0	-776.6	318.3	788.0	0.00	0.00	0.00
12,600.0	90.00	179.63	11,916.0	-876.6	319.0	888.0	0.00	0.00	0.00
12,700.0	90.00	179.63	11,916.0	-976.6	319.6	987.9	0.00	0.00	0.00
12,800.0	90.00	179.63	11,916.0	-1,076.6	320.3	1,087.9	0.00	0.00	0.00
12,900.0	90.00	179.63	11,916.0	-1,176.5	320.9	1,187.8	0.00	0.00	0.00
13,000.0	90.00	179.63	11,916.0	-1,276.5	321.6	1,287.8	0.00	0.00	0.00
13,100.0	90.00	179.63	11,916.0	-1,376.5	322.2	1,387.7	0.00	0.00	0.00
13,200.0	90.00	179.63	11,916.0	-1,476.5	322.9	1,487.7	0.00	0.00	0.00
13,300.0	90.00	179.63	11,916.0	-1,576.5	323.5	1,587.6	0.00	0.00	0.00
13,400.0	90.00	179.63	11,916.0	-1,676.5	324.1	1,687.6	0.00	0.00	0.00
13,500.0	90.00	179.63	11,916.0	-1,776.5	324.8	1,787.6	0.00	0.00	0.00
13,600.0	90.00	179.63	11,916.0	-1,876.5	325.4	1,887.5	0.00	0.00	0.00
13,700.0	90.00	179.63	11,916.0	-1,976.5	326.1	1,987.5	0.00	0.00	0.00
13,800.0	90.00	179.63	11,916.0	-2,076.5	326.7	2,087.4	0.00	0.00	0.00
13,900.0	90.00	179.63	11,916.0	-2,176.5	327.4	2,187.4	0.00	0.00	0.00
14,000.0	90.00	179.63	11,916.0	-2,276.5	328.0	2,287.3	0.00	0.00	0.00
14,100.0	90.00	179.63	11,916.0	-2,376.5	328.7	2,387.3	0.00	0.00	0.00
14,200.0	90.00	179.63	11,916.0	-2,476.5	329.3	2,487.2	0.00	0.00	0.00
14,300.0	90.00	179.63	11,916.0	-2,576.5	329.9	2,587.2	0.00	0.00	0.00
14,400.0	90.00	179.63	11,916.0	-2,676.5	330.6	2,687.1	0.00	0.00	0.00
14,500.0	90.00	179.63	11,916.0	-2,776.5	331.2	2,787.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30 SCAN @ 3205.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB=30 SCAN @ 3205.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)	
14,600.0	90.00	179.63	11,916.0	-2,876.5	331.9	2,887.0	0.00	0.00	0.00	
14,700.0	90.00	179.63	11,916.0	-2,976.5	332.5	2,987.0	0.00	0.00	0.00	
14,800.0	90.00	179.63	11,916.0	-3,076.5	333.2	3,086.9	0.00	0.00	0.00	
14,900.0	90.00	179.63	11,916.0	-3,176.5	333.8	3,186.9	0.00	0.00	0.00	
15,000.0	90.00	179.63	11,916.0	-3,276.5	334.5	3,286.8	0.00	0.00	0.00	
15,100.0	90.00	179.63	11,916.0	-3,376.5	335.1	3,386.8	0.00	0.00	0.00	
15,200.0	90.00	179.63	11,916.0	-3,476.5	335.7	3,486.7	0.00	0.00	0.00	
15,300.0	90.00	179.63	11,916.0	-3,576.5	336.4	3,586.7	0.00	0.00	0.00	
15,400.0	90.00	179.63	11,916.0	-3,676.5	337.0	3,686.6	0.00	0.00	0.00	
15,500.0	90.00	179.63	11,916.0	-3,776.5	337.7	3,786.6	0.00	0.00	0.00	
15,600.0	90.00	179.63	11,916.0	-3,876.5	338.3	3,886.5	0.00	0.00	0.00	
15,700.0	90.00	179.63	11,916.0	-3,976.5	339.0	3,986.5	0.00	0.00	0.00	
15,800.0	90.00	179.63	11,916.0	-4,076.5	339.6	4,086.4	0.00	0.00	0.00	
15,900.0	90.00	179.63	11,916.0	-4,176.5	340.3	4,186.4	0.00	0.00	0.00	
16,000.0	90.00	179.63	11,916.0	-4,276.5	340.9	4,286.3	0.00	0.00	0.00	
16,100.0	90.00	179.63	11,916.0	-4,376.5	341.5	4,386.3	0.00	0.00	0.00	
16,200.0	90.00	179.63	11,916.0	-4,476.5	342.2	4,486.2	0.00	0.00	0.00	
16,300.0	90.00	179.63	11,916.0	-4,576.5	342.8	4,586.2	0.00	0.00	0.00	
16,400.0	90.00	179.63	11,916.0	-4,676.5	343.5	4,686.1	0.00	0.00	0.00	
16,500.0	90.00	179.63	11,916.0	-4,776.5	344.1	4,786.1	0.00	0.00	0.00	
16,600.0	90.00	179.63	11,916.0	-4,876.5	344.8	4,886.0	0.00	0.00	0.00	
16,700.0	90.00	179.63	11,916.0	-4,976.5	345.4	4,986.0	0.00	0.00	0.00	
16,800.0	90.00	179.63	11,916.0	-5,076.5	346.1	5,085.9	0.00	0.00	0.00	
16,900.0	90.00	179.63	11,916.0	-5,176.5	346.7	5,185.9	0.00	0.00	0.00	
17,000.0	90.00	179.63	11,916.0	-5,276.5	347.3	5,285.8	0.00	0.00	0.00	
17,100.0	90.00	179.63	11,916.0	-5,376.5	348.0	5,385.8	0.00	0.00	0.00	
17,200.0	90.00	179.63	11,916.0	-5,476.5	348.6	5,485.7	0.00	0.00	0.00	
17,300.0	90.00	179.63	11,916.0	-5,576.5	349.3	5,585.7	0.00	0.00	0.00	
17,400.0	90.00	179.63	11,916.0	-5,676.5	349.9	5,685.6	0.00	0.00	0.00	
17,500.0	90.00	179.63	11,916.0	-5,776.5	350.6	5,785.6	0.00	0.00	0.00	
17,600.0	90.00	179.63	11,916.0	-5,876.5	351.2	5,885.5	0.00	0.00	0.00	
17,700.0	90.00	179.63	11,916.0	-5,976.4	351.9	5,985.5	0.00	0.00	0.00	
17,800.0	90.00	179.63	11,916.0	-6,076.4	352.5	6,085.4	0.00	0.00	0.00	
17,900.0	90.00	179.63	11,916.0	-6,176.4	353.2	6,185.4	0.00	0.00	0.00	
18,000.0	90.00	179.63	11,916.0	-6,276.4	353.8	6,285.3	0.00	0.00	0.00	
18,100.0	90.00	179.63	11,916.0	-6,376.4	354.4	6,385.3	0.00	0.00	0.00	
18,200.0	90.00	179.63	11,916.0	-6,476.4	355.1	6,485.2	0.00	0.00	0.00	
18,300.0	90.00	179.63	11,916.0	-6,576.4	355.7	6,585.2	0.00	0.00	0.00	
18,400.0	90.00	179.63	11,916.0	-6,676.4	356.4	6,685.1	0.00	0.00	0.00	
18,500.0	90.00	179.63	11,916.0	-6,776.4	357.0	6,785.1	0.00	0.00	0.00	
18,600.0	90.00	179.63	11,916.0	-6,876.4	357.7	6,885.0	0.00	0.00	0.00	
18,700.0	90.00	179.63	11,916.0	-6,976.4	358.3	6,985.0	0.00	0.00	0.00	
18,800.0	90.00	179.63	11,916.0	-7,076.4	359.0	7,084.9	0.00	0.00	0.00	
18,900.0	90.00	179.63	11,916.0	-7,176.4	359.6	7,184.9	0.00	0.00	0.00	
19,000.0	90.00	179.63	11,916.0	-7,276.4	360.2	7,284.8	0.00	0.00	0.00	
19,100.0	90.00	179.63	11,916.0	-7,376.4	360.9	7,384.8	0.00	0.00	0.00	
19,200.0	90.00	179.63	11,916.0	-7,476.4	361.5	7,484.7	0.00	0.00	0.00	
19,300.0	90.00	179.63	11,916.0	-7,576.4	362.2	7,584.7	0.00	0.00	0.00	
19,400.0	90.00	179.63	11,916.0	-7,676.4	362.8	7,684.6	0.00	0.00	0.00	
19,500.0	90.00	179.63	11,916.0	-7,776.4	363.5	7,784.6	0.00	0.00	0.00	
19,600.0	90.00	179.63	11,916.0	-7,876.4	364.1	7,884.5	0.00	0.00	0.00	
19,700.0	90.00	179.63	11,916.0	-7,976.4	364.8	7,984.5	0.00	0.00	0.00	
19,800.0	90.00	179.63	11,916.0	-8,076.4	365.4	8,084.4	0.00	0.00	0.00	
19,900.0	90.00	179.63	11,916.0	-8,176.4	366.0	8,184.4	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30 SCAN @ 3205.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB=30 SCAN @ 3205.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)	
20,000.0	90.00	179.63	11,916.0	-8,276.4	366.7	8,284.3	0.00	0.00	0.00	
20,100.0	90.00	179.63	11,916.0	-8,376.4	367.3	8,384.3	0.00	0.00	0.00	
20,200.0	90.00	179.63	11,916.0	-8,476.4	368.0	8,484.2	0.00	0.00	0.00	
20,300.0	90.00	179.63	11,916.0	-8,576.4	368.6	8,584.2	0.00	0.00	0.00	
20,400.0	90.00	179.63	11,916.0	-8,676.4	369.3	8,684.2	0.00	0.00	0.00	
20,500.0	90.00	179.63	11,916.0	-8,776.4	369.9	8,784.1	0.00	0.00	0.00	
20,600.0	90.00	179.63	11,916.0	-8,876.4	370.6	8,884.1	0.00	0.00	0.00	
20,700.0	90.00	179.63	11,916.0	-8,976.4	371.2	8,984.0	0.00	0.00	0.00	
20,800.0	90.00	179.63	11,916.0	-9,076.4	371.8	9,084.0	0.00	0.00	0.00	
20,900.0	90.00	179.63	11,916.0	-9,176.4	372.5	9,183.9	0.00	0.00	0.00	
21,000.0	90.00	179.63	11,916.0	-9,276.4	373.1	9,283.9	0.00	0.00	0.00	
21,100.0	90.00	179.63	11,916.0	-9,376.4	373.8	9,383.8	0.00	0.00	0.00	
21,200.0	90.00	179.63	11,916.0	-9,476.4	374.4	9,483.8	0.00	0.00	0.00	
21,300.0	90.00	179.63	11,916.0	-9,576.4	375.1	9,583.7	0.00	0.00	0.00	
21,400.0	90.00	179.63	11,916.0	-9,676.4	375.7	9,683.7	0.00	0.00	0.00	
21,500.0	90.00	179.63	11,916.0	-9,776.4	376.4	9,783.6	0.00	0.00	0.00	
21,600.0	90.00	179.63	11,916.0	-9,876.4	377.0	9,883.6	0.00	0.00	0.00	
21,650.7	90.00	179.63	11,916.0	-9,927.1	377.3	9,934.2	0.00	0.00	0.00	
LTP (ZHU 2032 WC #754H) ORIG										
21,700.0	90.00	179.63	11,916.0	-9,976.4	377.6	9,983.5	0.00	0.00	0.00	
21,700.7	90.00	179.63	11,916.0	-9,977.1	377.6	9,984.2	0.00	0.00	0.00	
TD at 21700.7 - PBHL (ZHU 2032 WC #754H) ORIG										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
ZHU 754H TGT WDW	0.00	0.00	4,578.0	-5.5	313.4	374,355.10	695,895.33	32° 1' 39.508 N	103° 42' 4.385 W	
- plan hits target center										
- Rectangle (sides W80.0 H50.0 D6,800.0)										
PBHL (ZHU 2032 WC #754H)	0.00	359.63	11,916.0	-9,977.1	377.6	364,383.53	695,959.58	32° 0' 0.824 N	103° 42' 4.316 W	
- plan hits target center										
- Rectangle (sides W100.0 H10,069.4 D20.0)										
FTP (ZHU 2032 WC #754H)	0.00	0.00	11,916.0	91.9	312.2	374,452.51	695,894.15	32° 1' 40.472 N	103° 42' 4.392 W	
- plan misses target center by 270.3usft at 11800.0usft MD (11753.2 TVD, -123.9 N, 314.1 E)										
- Circle (radius 50.0)										
LTP (ZHU 2032 WC #754H)	0.00	0.00	11,916.0	-9,927.1	377.6	364,433.53	695,959.58	32° 0' 1.319 N	103° 42' 4.313 W	
- plan misses target center by 0.3usft at 21650.7usft MD (11916.0 TVD, -9927.1 N, 377.3 E)										
- Point										

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

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2032 WC 754H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30 SCAN @ 3205.0usft
Project:	ZIA HILLS UNIT AREA	MD Reference:	KB=30 SCAN @ 3205.0usft
Site:	ZIA HILLS UNIT 2032 PROJECT (S TO N)	North Reference:	Grid
Well:	ZIA HILLS UNIT 2032 WC 754H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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	
1,850.0	1,849.1	-0.4	21.4	Start 2046.1 hold at 1850.0 MD	
3,896.1	3,880.0	-4.7	270.7	Start Drop -1.00	
4,596.1	4,578.3	-5.5	313.4	Start 6860.2 hold at 4596.1 MD	
11,456.4	11,438.5	-5.5	313.4	Start DLS 12.00 TFO 179.63	
12,206.4	11,916.0	-482.9	316.5	Start 9494.4 hold at 12206.4 MD	
21,700.7	11,916.0	-9,977.1	377.6	TD at 21700.7	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2032 WC 754H
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 3/12/2025

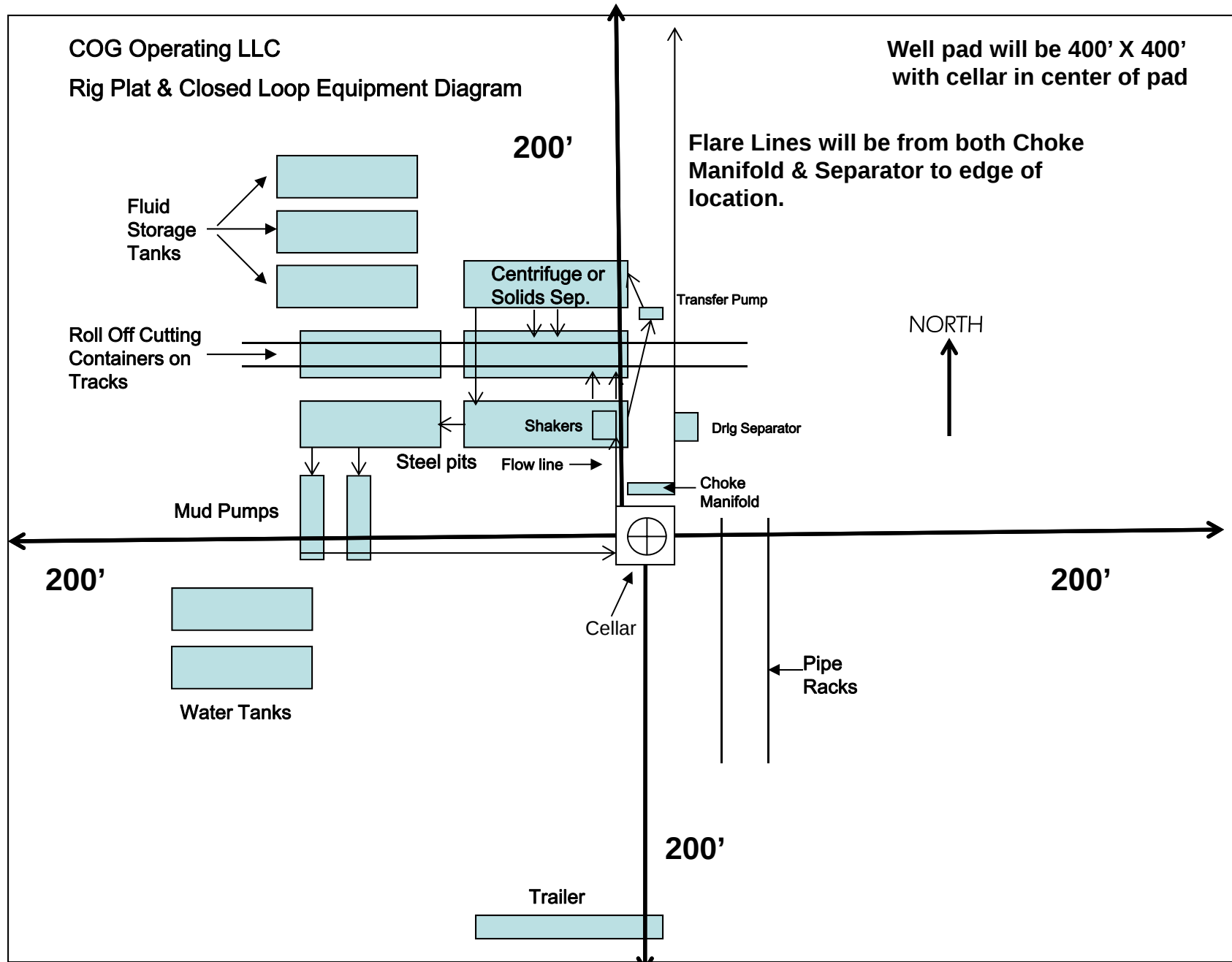


Exhibit 1

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

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Albert Gonzales		346-287-8169

EMERGENCY RESPONSE NUMBERS

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 442165

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 442165
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	3/13/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	3/13/2025
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	3/13/2025
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	3/13/2025
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	3/13/2025