Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-025-53230

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)

16. No of acres in lease

17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth

20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

22. Approximate date work will start*

23. Estimated duration

24. Attachments

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

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

25. Signature

Name *(Printed/Typed)*

Date

Title

Approved by *(Signature)*

Name *(Printed/Typed)*

Date

Title

Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 07/12/2024

Additional Operator Remarks

Location of Well

0. SHL: NWSE / 2535 FSL / 2150 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0278606 / LONG: -103.7127007 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2646 FSL / 2437 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0281757 / LONG: -103.7136255 (TVD: 11528 feet, MD: 11617 feet)

PPP: NWSE / 2620 FSL / 2437 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0281032 / LONG: -103.7136267 (TVD: 11528 feet, MD: 11590 feet)

PPP: SWSE / 1 FSL / 2390 FEL / TWSP: 26S / RANGE: 32E / SECTION: 18 / LAT: 32.0355227 / LONG: -103.7135009 (TVD: 11703 feet, MD: 14257 feet)

BHL: NWSE / 2620 FSL / 2390 FEL / TWSP: 26S / RANGE: 32E / SECTION: 7 / LAT: 32.0574226 / LONG: -103.7135444 (TVD: 11703 feet, MD: 22113 feet)

BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazon Road, Artec, NM 87410
District IV
1220 S. St Francis Dr., NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-53230	98081	Zia Hills; Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
334841	ZIA HILLS UNIT 1932 WC	709H

[7] OGRID No.	[8] Operator Name	[9] Elevation
217817	CONOCOPHILLIPS COMPANY	3,167'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	19	26-S	32-E		2,535'	SOUTH	2,150'	EAST	LEA

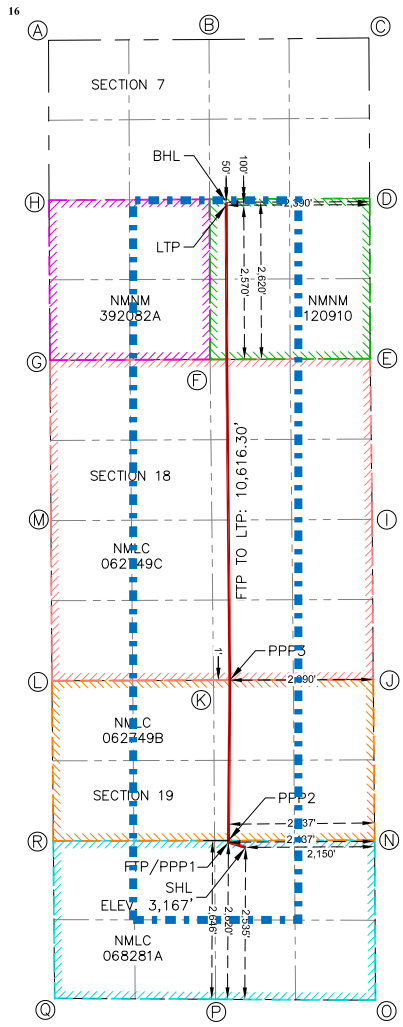
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	7	26-S	32-E		2,620'	SOUTH	2,390'	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
720		Unit	R-20080

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.

[16]



CORNER COORDINATES NEW MEXICO EAST - NAD 83
A-CALCULATED CORNER N:387,877.60' E:730,384.64'
B-FOUND IRON PIPE W/ BRASS CAP N:387,891.28' E:733,059.15'
C-FOUND IRON PIPE W/ BRASS CAP N:387,916.23' E:735,723.72'
D-FOUND BENT IRON PIPE W/ BRASS CAP N:385,243.70' E:735,736.29'
E-FOUND IRON PIPE W/ BRASS CAP N:382,570.93' E:735,744.95'
F-CALCULATED CORNER N:382,558.04' E:733,076.87'
G-FOUND IRON PIPE W/ BRASS CAP N:382,545.16' E:730,408.79'
H-FOUND BENT IRON PIPE W/ BRASS CAP N:385,211.90' E:730,393.18'
I-FOUND IRON PIPE W/ BRASS CAP N:379,892.50' E:735,778.31'
J-FOUND IRON PIPE W/ BRASS CAP N:377,224.61' E:735,795.66'
K-FOUND 1" IRON PIPE N:377,211.54' E:733,134.18'
L-FOUND 2" IRON PIPE N:377,203.52' E:730,441.03'
M-FOUND 1" IRON PIPE N:379,872.18' E:730,424.72'
N-FOUND IRON PIPE W/ BRASS CAP N:374,544.72' E:735,819.04'
O-FOUND IRON PIPE W/ BRASS CAP N:371,879.35' E:735,833.03'
P-FOUND IRON PIPE W/ BRASS CAP N:371,894.62' E:733,169.03'
Q-FOUND 2" IRON PIPE W/ CAP N:371,909.34' E:730,486.74'
R-FOUND 1" IRON PIPE N:374,533.91' E:730,464.25'

SURFACE HOLE LOCATION 2,535' FSL & 2,150' FEL NEW MEXICO EAST-NAD 83 NORTH:374,426.82' EAST:733,669.64' LAT:32.02786067 LONG:-103.71270079
FIRST TAKE POINT / PENETRATION POINT 1 2,620' FSL & 2,437' FEL NEW MEXICO EAST-NAD 83 NORTH:374,513.44' EAST:733,382.17' LAT:32.02810329 LONG:-103.71362677
PENETRATION POINT 2 2,646' FSL & 2,437' FEL NEW MEXICO EAST-NAD 83 NORTH:374,539.80' EAST:733,382.40' LAT:32.02817577 LONG:-103.71362554
PENETRATION POINT 3 1' FSL & 2,390' FEL NEW MEXICO EAST-NAD 83 NORTH:377,212.71' EAST:733,405.69' LAT:32.03552276 LONG:-103.71350090
LAST TAKE POINT 2,570' FSL & 2,390' FEL NEW MEXICO EAST-NAD 83 NORTH:385,129.38' EAST:733,346.59' LAT:32.05728521 LONG:-103.71354497
BOTTOM HOLE LOCATION 2,620' FSL & 2,390' FEL NEW MEXICO EAST-NAD 83 NORTH:385,179.38' EAST:733,346.47' LAT:32.05742265 LONG:-103.71354443

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 6/19/23
Signature Date

Stan Wagner
Printed Name Date

Email Address Date

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on thi 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: 6/5/23

MARK J. MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR

MARK J. MURRAY P.L.S. NO. 12177

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company **OGRID: 217817** **Date: 06/05/2023**

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 1932 WC 709H	30-025-	J-19-26S-32E	2535 FSL & 2150 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 710H	30-025-	J-19-26S-32E	2535 FSL & 2120 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 711H	30-025-	J-19-26S-32E	2535 FSL & 2090 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 712H	30-025-	J-19-26S-32E	2535 FSL & 2060 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 713H	30-025-	J-19-26S-32E	2535 FSL & 2030 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 714H	30-025-	J-19-26S-32E	2535 FSL & 2000 FEL	± 818	± 3209	± 1907

IV. Central Delivery Point Name: Zia Hills Unit CF2 Facility NESW 24-26S-31E [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 1932 WC	Pending	± 8/1/2024	± 25 days from spud	TBD	TBD	TBD
709H, 710H, 711H, 712H, 713H, 714H						

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:	Stan Wagner
Printed Name:	Stan Wagner
Title:	Regulatory Advisor
E-mail Address:	stan.s.wagner@conocophillips.com
Date:	06/05/2023
Phone:	432-253-9685

OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

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

ConocoPhillips Company - Zia Hills Unit 1932 WC 709H

1. Geologic Formations

TVD of target	11,703' EOL	Pilot hole depth	NA
MD at TD:	22,113'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1223	Water	
Top of Salt	1544	Salt	
Base of Salt	4007	Salt	
Lamar	4274	Salt Water	
Bell Canyon	4310	Salt Water	
Cherry Canyon	5201	Oil/Gas	
Brushy Canyon	6625	Oil/Gas	
Bone Spring Lime	8270	Oil/Gas	
1st Bone Spring Sand	9283	Oil/Gas	
2nd Bone Spring Sand	9966	Oil/Gas	
3rd Bone Spring Sand	11143	Oil/Gas	
Wolfcamp	11509	Target	
Wolfcamp A	11723	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
	From	To		(lbs)			Collapse		Body	Joint
14.75"	0	1350	10.75"	45.5	J55	BTC	3.38	1.02	11.64	12.96
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.35	1.04	2.88	2.90
8.750"	8500	11050	7.625"	29.7	P110-ICY	W513	1.29	1.57	3.25	1.95
6.75"	0	10550	5.5"	23	P110-CY	BTC	1.96	2.29	3.00	3.00
6.75"	10550	22,113	5.5"	23	P110-CY	W441	1.77	2.06	2.71	2.46
				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 Onshore Oil and Gas Order #2 III.B.1.h

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 1932 WC 709H

	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 3rd 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 2nd 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?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	662	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	973	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

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%
1st Intermediate	0’	50%
Production	10,550'	35% OH in Lateral (KOP to EOL)

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
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 Onshore Order 2 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 Onshore Oil and Gas Order #2 III.B.1.i.
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 Onshore Order #2 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.

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	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9.9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8220 psi at 11703' 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 Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

Released to Imaging: 7/23/2024 9:17:55 AM

Received by OCD: 7/16/2024 8:44:14 AM

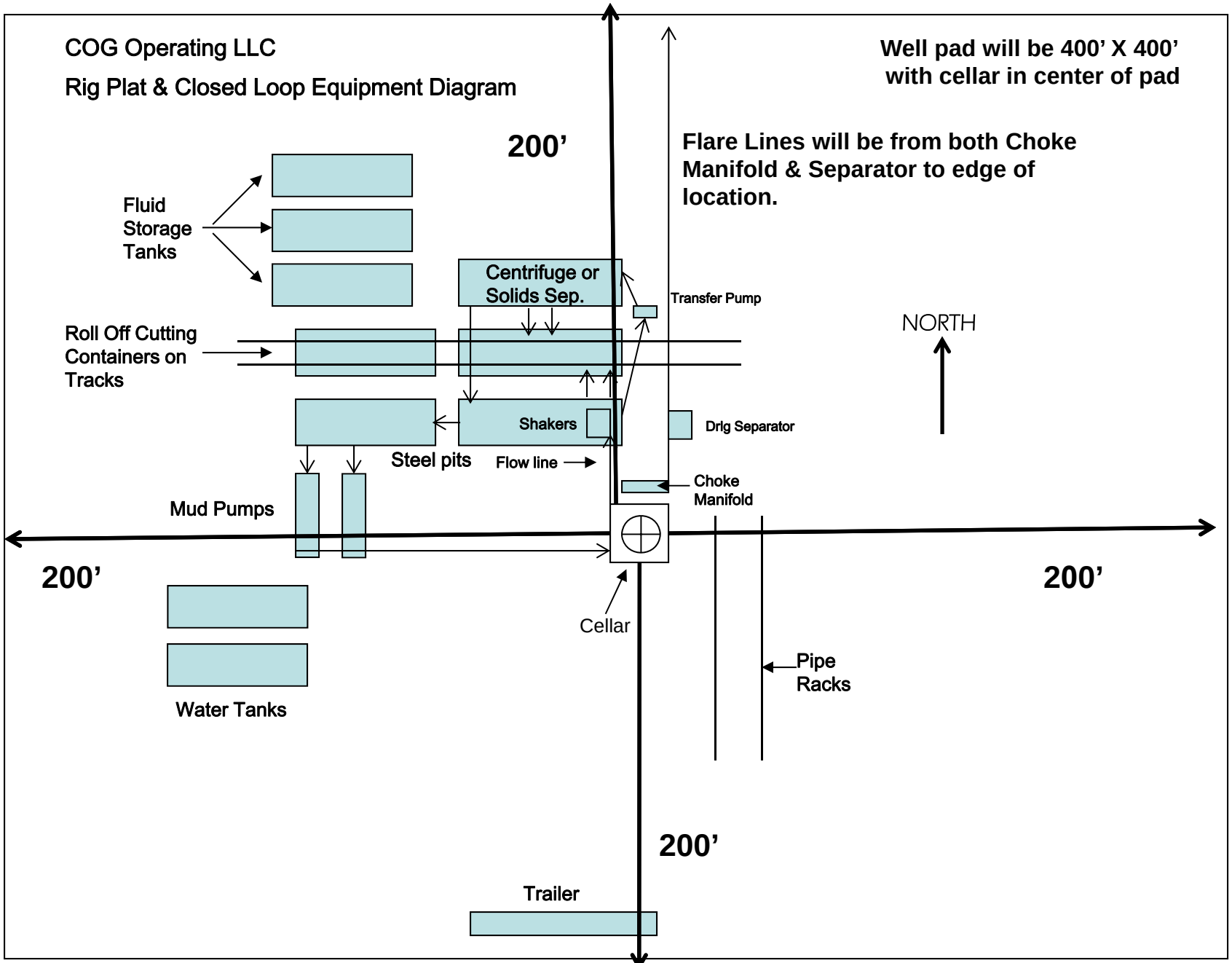


Exhibit 1

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)
ZIA HILLS UNIT 1932 PROJECT
ZIA HILLS UNIT 1932 WC #709H

OWB

Plan: PWP1

Standard Planning Report

09 May, 2023

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.9usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.9usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Project LEA PROSPECT (NM-E)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site ZIA HILLS UNIT 1932 PROJECT

Site Position:		**Northing:**	374,169.81 usft	**Latitude:**	32° 1' 37.871 N
From:	Map	**Easting:**	692,465.85 usft	**Longitude:**	103° 42' 44.234 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well ZIA HILLS UNIT 1932 WC #709H

Well Position	**+N/-S**	0.0 usft	**Northing:**	374,369.64 usft	**Latitude:**	32° 1' 39.848 N
	+E/-W	0.0 usft	**Easting:**	692,482.60 usft	**Longitude:**	103° 42' 44.026 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,166.9 usft
Grid Convergence:		0.33 °				

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2023	11/1/2023	6.34	59.54	47,256.46718023

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	358.28

Plan Survey Tool Program **Date** 5/9/2023

	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	11,149.8	PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5	
3	11,149.8	22,113.0	PWP1 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St	

ConocoPhillips

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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	
1,900.0	8.00	292.00	1,898.7	10.4	-25.8	2.00	2.00	0.00	292.00	
3,527.1	8.00	292.00	3,510.0	95.3	-235.8	0.00	0.00	0.00	0.00	
4,327.1	0.00	0.00	4,307.4	116.2	-287.5	1.00	-1.00	0.00	180.00	
11,149.8	0.00	0.00	11,130.0	116.2	-287.5	0.00	0.00	0.00	0.00	
12,049.8	90.00	359.81	11,703.0	689.1	-289.4	10.00	10.00	-0.02	359.81	
22,063.0	90.00	359.81	11,703.0	10,702.3	-322.6	0.00	0.00	0.00	0.00	
22,113.0	90.00	359.81	11,703.0	10,752.3	-322.8	0.00	0.00	0.00	0.00	

ConocoPhillips
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Well:	ZIA HILLS UNIT 1932 WC #709H	**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	292.00	1,600.0	0.7	-1.6	0.7	2.00	2.00	0.00
1,700.0	4.00	292.00	1,699.8	2.6	-6.5	2.8	2.00	2.00	0.00
1,800.0	6.00	292.00	1,799.5	5.9	-14.6	6.3	2.00	2.00	0.00
1,900.0	8.00	292.00	1,898.7	10.4	-25.8	11.2	2.00	2.00	0.00
Start 1627.1 hold at 1900.0 MD									
2,000.0	8.00	292.00	1,997.7	15.7	-38.8	16.8	0.00	0.00	0.00
2,100.0	8.00	292.00	2,096.8	20.9	-51.7	22.4	0.00	0.00	0.00
2,200.0	8.00	292.00	2,195.8	26.1	-64.6	28.0	0.00	0.00	0.00
2,300.0	8.00	292.00	2,294.8	31.3	-77.5	33.6	0.00	0.00	0.00
2,400.0	8.00	292.00	2,393.8	36.5	-90.4	39.2	0.00	0.00	0.00
2,500.0	8.00	292.00	2,492.9	41.7	-103.3	44.8	0.00	0.00	0.00
2,600.0	8.00	292.00	2,591.9	46.9	-116.2	50.4	0.00	0.00	0.00
2,700.0	8.00	292.00	2,690.9	52.2	-129.1	56.0	0.00	0.00	0.00
2,800.0	8.00	292.00	2,789.9	57.4	-142.0	61.6	0.00	0.00	0.00
2,900.0	8.00	292.00	2,889.0	62.6	-154.9	67.2	0.00	0.00	0.00
3,000.0	8.00	292.00	2,988.0	67.8	-167.8	72.8	0.00	0.00	0.00
3,100.0	8.00	292.00	3,087.0	73.0	-180.7	78.4	0.00	0.00	0.00
3,200.0	8.00	292.00	3,186.1	78.2	-193.6	84.0	0.00	0.00	0.00
3,300.0	8.00	292.00	3,285.1	83.4	-206.5	89.6	0.00	0.00	0.00
3,400.0	8.00	292.00	3,384.1	88.6	-219.4	95.2	0.00	0.00	0.00
3,500.0	8.00	292.00	3,483.1	93.9	-232.3	100.8	0.00	0.00	0.00
3,527.1	8.00	292.00	3,510.0	95.3	-235.8	102.3	0.00	0.00	0.00
Start Drop -1.00									
3,600.0	7.27	292.00	3,582.2	98.9	-244.8	106.2	1.00	-1.00	0.00
3,700.0	6.27	292.00	3,681.5	103.3	-255.7	110.9	1.00	-1.00	0.00
3,800.0	5.27	292.00	3,781.0	107.1	-265.0	115.0	1.00	-1.00	0.00
3,900.0	4.27	292.00	3,880.7	110.2	-272.8	118.3	1.00	-1.00	0.00
4,000.0	3.27	292.00	3,980.4	112.7	-278.9	121.0	1.00	-1.00	0.00
4,100.0	2.27	292.00	4,080.3	114.5	-283.3	122.9	1.00	-1.00	0.00
4,200.0	1.27	292.00	4,180.3	115.6	-286.2	124.2	1.00	-1.00	0.00
4,300.0	0.27	292.00	4,280.3	116.1	-287.5	124.7	1.00	-1.00	0.00
4,327.1	0.00	0.00	4,307.4	116.2	-287.5	124.7	1.00	-1.00	0.00
Start 6822.6 hold at 4327.1 MD									
4,400.0	0.00	0.00	4,380.3	116.2	-287.5	124.7	0.00	0.00	0.00
4,500.0	0.00	0.00	4,480.3	116.2	-287.5	124.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,580.3	116.2	-287.5	124.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,680.3	116.2	-287.5	124.7	0.00	0.00	0.00

ConocoPhillips
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Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #709H	**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)
4,800.0	0.00	0.00	4,780.3	116.2	-287.5	124.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,880.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,980.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,100.0	0.00	0.00	5,080.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,180.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,280.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,380.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,480.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,580.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,680.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,780.3	116.2	-287.5	124.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,880.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,980.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,080.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,180.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,280.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,380.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,480.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,580.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,680.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,780.3	116.2	-287.5	124.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,880.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,980.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,080.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,180.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,280.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,380.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,480.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,580.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,680.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,780.3	116.2	-287.5	124.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,880.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,980.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,080.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,180.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,280.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,380.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,480.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,580.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,680.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,780.3	116.2	-287.5	124.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,880.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,980.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,080.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,180.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,280.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,380.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,480.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,580.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,680.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,780.3	116.2	-287.5	124.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,880.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,980.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,080.3	116.2	-287.5	124.7	0.00	0.00	0.00

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Well:	ZIA HILLS UNIT 1932 WC #709H	**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)
10,200.0	0.00	0.00	10,180.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,280.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,380.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,480.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,580.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,680.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,780.3	116.2	-287.5	124.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,880.3	116.2	-287.5	124.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,980.3	116.2	-287.5	124.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,080.3	116.2	-287.5	124.7	0.00	0.00	0.00
11,149.8	0.00	0.00	11,130.0	116.2	-287.5	124.7	0.00	0.00	0.00
Start DLS 10.00 TFO 359.81									
11,200.0	5.02	359.81	11,180.2	118.4	-287.5	126.9	10.00	10.00	0.00
11,250.0	10.02	359.81	11,229.8	124.9	-287.5	133.5	10.00	10.00	0.00
11,300.0	15.02	359.81	11,278.6	135.7	-287.6	144.3	10.00	10.00	0.00
11,350.0	20.02	359.81	11,326.2	150.8	-287.6	159.4	10.00	10.00	0.00
11,400.0	25.02	359.81	11,372.4	169.9	-287.7	178.5	10.00	10.00	0.00
11,450.0	30.02	359.81	11,416.7	193.0	-287.8	201.6	10.00	10.00	0.00
11,500.0	35.02	359.81	11,458.9	219.9	-287.9	228.4	10.00	10.00	0.00
11,550.0	40.02	359.81	11,498.5	250.4	-288.0	258.9	10.00	10.00	0.00
11,600.0	45.02	359.81	11,535.3	284.1	-288.1	292.7	10.00	10.00	0.00
11,650.0	50.02	359.81	11,569.1	321.0	-288.2	329.5	10.00	10.00	0.00
11,700.0	55.02	359.81	11,599.5	360.7	-288.3	369.2	10.00	10.00	0.00
11,750.0	60.02	359.81	11,626.4	402.8	-288.5	411.3	10.00	10.00	0.00
11,800.0	65.02	359.81	11,649.4	447.2	-288.6	455.6	10.00	10.00	0.00
11,850.0	70.02	359.81	11,668.5	493.4	-288.8	501.8	10.00	10.00	0.00
11,900.0	75.02	359.81	11,683.5	541.0	-288.9	549.5	10.00	10.00	0.00
11,950.0	80.02	359.81	11,694.3	589.8	-289.1	598.3	10.00	10.00	0.00
12,000.0	85.02	359.81	11,700.8	639.4	-289.2	647.8	10.00	10.00	0.00
12,049.8	90.00	359.81	11,703.0	689.1	-289.4	697.5	10.00	10.00	0.00
Start 10013.2 hold at 12049.8 MD									
12,100.0	90.00	359.81	11,703.0	739.3	-289.6	747.7	0.00	0.00	0.00
12,200.0	90.00	359.81	11,703.0	839.3	-289.9	847.7	0.00	0.00	0.00
12,300.0	90.00	359.81	11,703.0	939.3	-290.2	947.6	0.00	0.00	0.00
12,400.0	90.00	359.81	11,703.0	1,039.3	-290.6	1,047.6	0.00	0.00	0.00
12,500.0	90.00	359.81	11,703.0	1,139.3	-290.9	1,147.6	0.00	0.00	0.00
12,600.0	90.00	359.81	11,703.0	1,239.3	-291.2	1,247.5	0.00	0.00	0.00
12,700.0	90.00	359.81	11,703.0	1,339.3	-291.6	1,347.5	0.00	0.00	0.00
12,800.0	90.00	359.81	11,703.0	1,439.3	-291.9	1,447.5	0.00	0.00	0.00
12,900.0	90.00	359.81	11,703.0	1,539.3	-292.2	1,547.4	0.00	0.00	0.00
13,000.0	90.00	359.81	11,703.0	1,639.3	-292.6	1,647.4	0.00	0.00	0.00
13,100.0	90.00	359.81	11,703.0	1,739.3	-292.9	1,747.3	0.00	0.00	0.00
13,200.0	90.00	359.81	11,703.0	1,839.3	-293.2	1,847.3	0.00	0.00	0.00
13,300.0	90.00	359.81	11,703.0	1,939.3	-293.6	1,947.3	0.00	0.00	0.00
13,400.0	90.00	359.81	11,703.0	2,039.3	-293.9	2,047.2	0.00	0.00	0.00
13,500.0	90.00	359.81	11,703.0	2,139.3	-294.2	2,147.2	0.00	0.00	0.00
13,600.0	90.00	359.81	11,703.0	2,239.3	-294.6	2,247.2	0.00	0.00	0.00
13,700.0	90.00	359.81	11,703.0	2,339.3	-294.9	2,347.1	0.00	0.00	0.00
13,800.0	90.00	359.81	11,703.0	2,439.3	-295.2	2,447.1	0.00	0.00	0.00
13,900.0	90.00	359.81	11,703.0	2,539.3	-295.5	2,547.1	0.00	0.00	0.00
14,000.0	90.00	359.81	11,703.0	2,639.3	-295.9	2,647.0	0.00	0.00	0.00
14,100.0	90.00	359.81	11,703.0	2,739.3	-296.2	2,747.0	0.00	0.00	0.00
14,200.0	90.00	359.81	11,703.0	2,839.3	-296.5	2,847.0	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.9usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.9usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #709H	**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)
14,300.0	90.00	359.81	11,703.0	2,939.3	-296.9	2,946.9	0.00	0.00	0.00
14,400.0	90.00	359.81	11,703.0	3,039.3	-297.2	3,046.9	0.00	0.00	0.00
14,500.0	90.00	359.81	11,703.0	3,139.3	-297.5	3,146.8	0.00	0.00	0.00
14,600.0	90.00	359.81	11,703.0	3,239.3	-297.9	3,246.8	0.00	0.00	0.00
14,700.0	90.00	359.81	11,703.0	3,339.3	-298.2	3,346.8	0.00	0.00	0.00
14,800.0	90.00	359.81	11,703.0	3,439.3	-298.5	3,446.7	0.00	0.00	0.00
14,900.0	90.00	359.81	11,703.0	3,539.3	-298.9	3,546.7	0.00	0.00	0.00
15,000.0	90.00	359.81	11,703.0	3,639.3	-299.2	3,646.7	0.00	0.00	0.00
15,100.0	90.00	359.81	11,703.0	3,739.3	-299.5	3,746.6	0.00	0.00	0.00
15,200.0	90.00	359.81	11,703.0	3,839.3	-299.9	3,846.6	0.00	0.00	0.00
15,300.0	90.00	359.81	11,703.0	3,939.3	-300.2	3,946.6	0.00	0.00	0.00
15,400.0	90.00	359.81	11,703.0	4,039.3	-300.5	4,046.5	0.00	0.00	0.00
15,500.0	90.00	359.81	11,703.0	4,139.3	-300.9	4,146.5	0.00	0.00	0.00
15,600.0	90.00	359.81	11,703.0	4,239.3	-301.2	4,246.5	0.00	0.00	0.00
15,700.0	90.00	359.81	11,703.0	4,339.3	-301.5	4,346.4	0.00	0.00	0.00
15,800.0	90.00	359.81	11,703.0	4,439.3	-301.8	4,446.4	0.00	0.00	0.00
15,900.0	90.00	359.81	11,703.0	4,539.3	-302.2	4,546.3	0.00	0.00	0.00
16,000.0	90.00	359.81	11,703.0	4,639.3	-302.5	4,646.3	0.00	0.00	0.00
16,100.0	90.00	359.81	11,703.0	4,739.3	-302.8	4,746.3	0.00	0.00	0.00
16,200.0	90.00	359.81	11,703.0	4,839.3	-303.2	4,846.2	0.00	0.00	0.00
16,300.0	90.00	359.81	11,703.0	4,939.3	-303.5	4,946.2	0.00	0.00	0.00
16,400.0	90.00	359.81	11,703.0	5,039.3	-303.8	5,046.2	0.00	0.00	0.00
16,500.0	90.00	359.81	11,703.0	5,139.3	-304.2	5,146.1	0.00	0.00	0.00
16,600.0	90.00	359.81	11,703.0	5,239.3	-304.5	5,246.1	0.00	0.00	0.00
16,700.0	90.00	359.81	11,703.0	5,339.3	-304.8	5,346.1	0.00	0.00	0.00
16,800.0	90.00	359.81	11,703.0	5,439.3	-305.2	5,446.0	0.00	0.00	0.00
16,900.0	90.00	359.81	11,703.0	5,539.3	-305.5	5,546.0	0.00	0.00	0.00
17,000.0	90.00	359.81	11,703.0	5,639.3	-305.8	5,646.0	0.00	0.00	0.00
17,100.0	90.00	359.81	11,703.0	5,739.3	-306.2	5,745.9	0.00	0.00	0.00
17,200.0	90.00	359.81	11,703.0	5,839.3	-306.5	5,845.9	0.00	0.00	0.00
17,300.0	90.00	359.81	11,703.0	5,939.3	-306.8	5,945.8	0.00	0.00	0.00
17,400.0	90.00	359.81	11,703.0	6,039.3	-307.2	6,045.8	0.00	0.00	0.00
17,500.0	90.00	359.81	11,703.0	6,139.3	-307.5	6,145.8	0.00	0.00	0.00
17,600.0	90.00	359.81	11,703.0	6,239.3	-307.8	6,245.7	0.00	0.00	0.00
17,700.0	90.00	359.81	11,703.0	6,339.3	-308.1	6,345.7	0.00	0.00	0.00
17,800.0	90.00	359.81	11,703.0	6,439.3	-308.5	6,445.7	0.00	0.00	0.00
17,900.0	90.00	359.81	11,703.0	6,539.3	-308.8	6,545.6	0.00	0.00	0.00
18,000.0	90.00	359.81	11,703.0	6,639.3	-309.1	6,645.6	0.00	0.00	0.00
18,100.0	90.00	359.81	11,703.0	6,739.3	-309.5	6,745.6	0.00	0.00	0.00
18,200.0	90.00	359.81	11,703.0	6,839.3	-309.8	6,845.5	0.00	0.00	0.00
18,300.0	90.00	359.81	11,703.0	6,939.3	-310.1	6,945.5	0.00	0.00	0.00
18,400.0	90.00	359.81	11,703.0	7,039.3	-310.5	7,045.5	0.00	0.00	0.00
18,500.0	90.00	359.81	11,703.0	7,139.3	-310.8	7,145.4	0.00	0.00	0.00
18,600.0	90.00	359.81	11,703.0	7,239.3	-311.1	7,245.4	0.00	0.00	0.00
18,700.0	90.00	359.81	11,703.0	7,339.3	-311.5	7,345.3	0.00	0.00	0.00
18,800.0	90.00	359.81	11,703.0	7,439.3	-311.8	7,445.3	0.00	0.00	0.00
18,900.0	90.00	359.81	11,703.0	7,539.3	-312.1	7,545.3	0.00	0.00	0.00
19,000.0	90.00	359.81	11,703.0	7,639.3	-312.5	7,645.2	0.00	0.00	0.00
19,100.0	90.00	359.81	11,703.0	7,739.3	-312.8	7,745.2	0.00	0.00	0.00
19,200.0	90.00	359.81	11,703.0	7,839.3	-313.1	7,845.2	0.00	0.00	0.00
19,300.0	90.00	359.81	11,703.0	7,939.3	-313.4	7,945.1	0.00	0.00	0.00
19,400.0	90.00	359.81	11,703.0	8,039.3	-313.8	8,045.1	0.00	0.00	0.00
19,500.0	90.00	359.81	11,703.0	8,139.3	-314.1	8,145.1	0.00	0.00	0.00
19,600.0	90.00	359.81	11,703.0	8,239.3	-314.4	8,245.0	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.9usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.9usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #709H	**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)
19,700.0	90.00	359.81	11,703.0	8,339.3	-314.8	8,345.0	0.00	0.00	0.00
19,800.0	90.00	359.81	11,703.0	8,439.3	-315.1	8,445.0	0.00	0.00	0.00
19,900.0	90.00	359.81	11,703.0	8,539.3	-315.4	8,544.9	0.00	0.00	0.00
20,000.0	90.00	359.81	11,703.0	8,639.3	-315.8	8,644.9	0.00	0.00	0.00
20,100.0	90.00	359.81	11,703.0	8,739.3	-316.1	8,744.9	0.00	0.00	0.00
20,200.0	90.00	359.81	11,703.0	8,839.3	-316.4	8,844.8	0.00	0.00	0.00
20,300.0	90.00	359.81	11,703.0	8,939.3	-316.8	8,944.8	0.00	0.00	0.00
20,400.0	90.00	359.81	11,703.0	9,039.3	-317.1	9,044.7	0.00	0.00	0.00
20,500.0	90.00	359.81	11,703.0	9,139.3	-317.4	9,144.7	0.00	0.00	0.00
20,600.0	90.00	359.81	11,703.0	9,239.3	-317.8	9,244.7	0.00	0.00	0.00
20,700.0	90.00	359.81	11,703.0	9,339.3	-318.1	9,344.6	0.00	0.00	0.00
20,800.0	90.00	359.81	11,703.0	9,439.3	-318.4	9,444.6	0.00	0.00	0.00
20,900.0	90.00	359.81	11,703.0	9,539.3	-318.8	9,544.6	0.00	0.00	0.00
21,000.0	90.00	359.81	11,703.0	9,639.3	-319.1	9,644.5	0.00	0.00	0.00
21,100.0	90.00	359.81	11,703.0	9,739.3	-319.4	9,744.5	0.00	0.00	0.00
21,200.0	90.00	359.81	11,703.0	9,839.3	-319.7	9,844.5	0.00	0.00	0.00
21,300.0	90.00	359.81	11,703.0	9,939.3	-320.1	9,944.4	0.00	0.00	0.00
21,400.0	90.00	359.81	11,703.0	10,039.3	-320.4	10,044.4	0.00	0.00	0.00
21,500.0	90.00	359.81	11,703.0	10,139.3	-320.7	10,144.4	0.00	0.00	0.00
21,600.0	90.00	359.81	11,703.0	10,239.3	-321.1	10,244.3	0.00	0.00	0.00
21,700.0	90.00	359.81	11,703.0	10,339.3	-321.4	10,344.3	0.00	0.00	0.00
21,800.0	90.00	359.81	11,703.0	10,439.3	-321.7	10,444.2	0.00	0.00	0.00
21,900.0	90.00	359.81	11,703.0	10,539.3	-322.1	10,544.2	0.00	0.00	0.00
22,000.0	90.00	359.81	11,703.0	10,639.3	-322.4	10,644.2	0.00	0.00	0.00
22,063.0	90.00	359.81	11,703.0	10,702.3	-322.6	10,707.2	0.00	0.00	0.00
Start 50.0 hold at 22063.0 MD									
22,100.0	90.00	359.81	11,703.0	10,739.3	-322.7	10,744.1	0.00	0.00	0.00
22,113.0	90.00	359.81	11,703.0	10,752.3	-322.8	10,757.1	0.00	0.00	0.00
TD at 22113.0									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (ZHU 1932 WC #7(	0.00	0.00	11,703.0	86.6	-287.5	374,456.25	692,195.14	32° 1' 40.721 N	103° 42' 47.359 W
- plan misses target center by 258.5usft at 11590.1usft MD (11528.3 TVD, 277.2 N, -288.0 E)									
- Circle (radius 50.0)									
PBHL (ZHU 1932 WC #7	0.00	179.81	11,703.0	10,752.3	-322.7	385,121.94	692,159.87	32° 3' 26.272 N	103° 42' 47.057 W
- plan hits target center									
- Rectangle (sides W100.0 H10,666.3 D20.0)									
LTP (ZHU 1932 WC #70	0.00	0.00	11,703.0	10,702.3	-322.6	385,071.94	692,159.99	32° 3' 25.777 N	103° 42' 47.059 W
- plan hits target center									
- Point									

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.9usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.9usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,900.0	1,898.7	10.4	-25.8	Start 1627.1 hold at 1900.0 MD
3,527.1	3,510.0	95.3	-235.8	Start Drop -1.00
4,327.1	4,307.4	116.2	-287.5	Start 6822.6 hold at 4327.1 MD
11,149.8	11,130.0	116.2	-287.5	Start DLS 10.00 TFO 359.81
12,049.8	11,703.0	689.1	-289.4	Start 10013.2 hold at 12049.8 MD
22,063.0	11,703.0	10,702.3	-322.6	Start 50.0 hold at 22063.0 MD
22,113.0	11,703.0	10,752.3	-322.8	TD at 22113.0

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)
ZIA HILLS UNIT 1932 PROJECT
ZIA HILLS UNIT 1932 WC #709H

OWB
PWP1

Anticollision Report

09 May, 2023

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	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:	Maximum centre distance of 1,000.0usft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 **Sigma**	**Casing Method:**	Added to Error Values

Survey Tool Program **Date** 5/9/2023

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 Cont. rev.5
1,500.0	11,149.8	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
11,149.8	22,113.0	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ZIA HILLS UNIT 1932 PROJECT						
CONOCO A FEDERAL #1 (P&A) - OWB - AWP	6,910.0	6,877.3	380.7	192.3	2.020	CC, ES, SF
PADUCA 7 6 W1GB FEDERAL #1H - OWB - AWP	22,113.0	11,672.0	258.8	157.6	2.557	CC, ES, SF
ZIA HILLS 19 FEDERAL COM #112H - OWB - AWP	21,936.4	22,167.9	478.6	322.7	3.069	CC, ES
ZIA HILLS 19 FEDERAL COM #112H - OWB - AWP	22,000.0	22,217.2	479.6	323.1	3.064	SF
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	1,500.0	1,499.8	30.0	20.7	3.221	CC, ES
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	22,113.0	22,293.4	447.7	281.3	2.690	SF
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	1,500.0	1,499.8	59.9	50.6	6.442	CC, ES
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	22,113.0	22,040.2	824.0	657.7	4.955	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	1,500.0	1,499.7	89.9	80.6	9.667	CC, ES
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	1,600.0	1,597.6	92.7	83.1	9.662	SF
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	1,500.0	1,499.7	120.0	110.7	12.900	CC, ES
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	1,600.0	1,597.0	122.7	113.1	12.798	SF
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	1,000.0	999.7	150.0	141.6	17.808	CC, ES
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	1,100.0	1,094.8	151.6	142.9	17.408	SF
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	5,107.4	5,115.5	86.2	66.6	4.396	CC
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	5,200.0	5,207.4	87.0	66.6	4.271	ES
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	11,149.8	11,161.4	119.1	82.8	3.275	SF
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	2,284.1	2,307.1	180.1	166.8	13.553	CC
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	2,300.0	2,322.8	180.1	166.7	13.477	ES
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	11,250.0	11,249.6	309.3	276.3	9.372	SF
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	1,507.6	1,509.4	209.5	199.7	21.259	CC
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	1,600.0	1,605.3	209.7	199.6	20.784	ES
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	2,000.0	2,014.6	220.3	208.8	19.045	SF
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	1,500.0	1,501.7	220.3	210.5	22.503	CC
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	1,504.4	1,506.3	220.3	210.5	22.479	ES
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	1,900.0	1,906.0	236.2	225.1	21.188	SF
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	1,465.5	1,468.8	234.4	224.7	24.264	CC
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	1,500.0	1,503.3	234.4	224.7	24.076	ES
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	1,800.0	1,801.0	248.1	237.4	23.128	SF
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,465.8	1,468.3	251.4	241.8	26.164	CC
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,500.0	1,502.4	251.4	241.7	25.967	ES
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,700.0	1,693.4	260.9	250.5	25.194	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

TD Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ZIA HILLS UNIT 1932 PROJECT						
CONOCO A FEDERAL #1 (P&A) - OWB - AWP	22,113.0	6,903.0				Out of Range @TD
PADUCA 7 6 W1GB FEDERAL #1H - OWB - AWP	22,113.0	11,672.0	258.8	157.6	2.557	CC, ES, SF
ZIA HILLS 19 FEDERAL COM #112H - OWB - AWP	22,113.0	22,319.0	485.0	327.2	3.073	
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	22,113.0	22,293.4	447.7	281.3	2.690	SF
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	22,113.0	22,040.2	824.0	657.7	4.955	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	22,113.0	22,190.4				Out of Range @TD
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	22,113.0	22,068.7				Out of Range @TD
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	22,113.0	22,343.6				Out of Range @TD
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	22,113.0	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	22,113.0	11,350.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	22,113.0	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	22,113.0	11,400.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	22,113.0	11,300.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	22,113.0	11,499.3				Out of Range @TD

Offset Design: ZIA HILLS UNIT 1932 PROJECT - CONOCO A FEDERAL #1 (P&A) - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 362-INC-ONLY

Offset Well Error: 10.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	10.0	-18.99	476.2	-163.8	503.8				
100.0	100.0	86.1	86.1	3.0	10.0	-18.99	476.2	-163.8	503.6	488.5	15.13	33.286	
200.0	200.0	186.1	186.1	3.2	10.1	-18.99	476.2	-163.8	503.6	488.3	15.31	32.885	
300.0	300.0	286.1	286.1	3.3	10.3	-18.99	476.2	-163.8	503.6	488.0	15.59	32.296	
400.0	400.0	386.1	386.1	3.4	10.6	-18.99	476.2	-163.8	503.6	487.6	16.06	31.357	
500.0	500.0	486.1	486.1	3.5	11.3	-18.99	476.2	-163.8	503.6	486.5	17.08	29.481	
600.0	600.0	586.1	586.1	3.7	12.3	-18.99	476.2	-163.8	503.6	485.2	18.40	27.365	
700.0	700.0	686.3	686.3	3.8	13.4	-18.98	476.5	-163.8	503.9	483.9	19.97	25.236	
800.0	800.0	786.7	786.7	3.9	14.7	-18.98	476.4	-163.8	503.8	482.1	21.72	23.197	
900.0	900.0	887.1	887.1	4.0	16.1	-18.98	476.2	-163.8	503.6	480.0	23.61	21.327	
941.2	941.2	927.3	927.3	4.1	16.7	-18.99	476.2	-163.8	503.6	479.2	24.47	20.584	
1,000.0	1,000.0	986.1	986.1	4.2	17.6	-18.99	476.2	-163.8	503.6	477.8	25.77	19.542	
1,100.0	1,100.0	1,086.6	1,086.5	4.3	19.3	-18.97	476.6	-163.8	503.9	475.9	28.08	17.947	
1,200.0	1,200.0	1,187.9	1,187.9	4.4	21.0	-18.98	476.3	-163.8	503.7	473.2	30.49	16.522	
1,269.1	1,269.1	1,255.2	1,255.2	4.5	22.3	-18.99	476.2	-163.8	503.6	471.3	32.29	15.596	
1,300.0	1,300.0	1,286.2	1,286.1	4.5	23.0	-18.99	476.2	-163.8	503.6	470.5	33.17	15.184	
1,400.0	1,400.0	1,386.2	1,386.1	4.6	25.1	-18.99	476.2	-163.8	503.6	467.6	36.04	13.972	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - CONOCO A FEDERAL #1 (P&A) - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 362-INC-ONLY

Offset Well Error: 10.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,500.0	1,500.0	1,486.9	1,486.8	4.8	27.2	-18.94	477.5	-163.8	504.8	465.9	38.99	12.948	
1,600.0	1,600.0	1,589.1	1,589.0	4.9	29.4	49.22	477.1	-163.8	503.3	461.3	42.03	11.977	
1,700.0	1,699.8	1,691.2	1,691.1	5.1	31.6	49.72	476.3	-163.8	499.1	454.0	45.10	11.067	
1,800.0	1,799.5	1,785.7	1,785.6	5.3	33.8	50.54	476.2	-163.8	493.5	445.2	48.27	10.223	
1,900.0	1,898.7	1,885.0	1,884.8	5.6	36.2	51.77	476.2	-163.8	485.8	434.2	51.62	9.410	
2,000.0	1,997.7	1,986.1	1,985.9	5.8	38.7	53.14	477.5	-163.8	478.5	423.4	55.05	8.691	
2,100.0	2,096.8	2,088.0	2,087.7	6.1	41.2	54.51	476.7	-163.8	469.5	410.9	58.52	8.022	
2,200.0	2,195.8	2,182.2	2,181.9	6.4	43.6	55.82	476.2	-163.8	461.0	399.1	61.85	7.453	
2,300.0	2,294.8	2,282.3	2,281.9	6.7	46.2	57.31	477.2	-163.8	454.2	388.7	65.47	6.938	
2,400.0	2,393.8	2,386.7	2,386.3	7.0	48.9	58.86	476.3	-163.8	446.0	376.7	69.24	6.441	
2,500.0	2,492.9	2,479.5	2,479.0	7.3	51.4	60.31	476.2	-163.8	438.7	365.9	72.76	6.030	
2,600.0	2,591.9	2,584.5	2,584.0	7.6	54.2	62.00	476.3	-163.8	432.1	355.3	76.74	5.630	
2,700.0	2,690.9	2,680.6	2,680.0	8.0	56.9	63.59	476.7	-163.8	426.0	345.5	80.43	5.296	
2,800.0	2,789.9	2,778.8	2,778.1	8.3	59.5	65.26	476.5	-163.8	419.7	335.7	84.04	4.995	
2,900.0	2,889.0	2,876.0	2,875.3	8.7	61.8	66.97	476.6	-163.8	414.2	326.8	87.35	4.741	
3,000.0	2,988.0	2,974.8	2,974.1	9.0	64.0	68.74	476.2	-163.8	408.5	318.0	90.43	4.517	
3,100.0	3,087.0	3,073.9	3,073.1	9.4	66.0	70.57	476.2	-163.8	403.6	310.4	93.19	4.330	
3,200.0	3,186.1	3,172.9	3,172.2	9.8	68.0	72.44	476.2	-163.8	399.1	303.2	95.96	4.159	
3,300.0	3,285.1	3,273.5	3,272.7	10.2	70.0	74.36	477.4	-163.8	396.3	297.5	98.78	4.012	
3,400.0	3,384.1	3,374.3	3,373.5	10.6	72.0	76.34	476.8	-163.8	392.1	290.5	101.59	3.860	
3,500.0	3,483.1	3,470.0	3,469.2	10.9	73.8	78.26	476.2	-163.8	388.4	284.4	104.09	3.732	
3,527.1	3,510.0	3,496.9	3,496.1	11.0	74.3	78.81	476.2	-163.8	387.7	283.0	104.71	3.703	
3,600.0	3,582.2	3,569.1	3,568.3	11.3	75.5	80.19	476.2	-163.8	385.9	279.5	106.37	3.628	
3,700.0	3,681.5	3,668.4	3,667.6	11.7	77.1	81.89	476.2	-163.8	384.1	275.4	108.66	3.535	
3,800.0	3,781.0	3,768.5	3,767.7	12.1	78.8	83.35	476.7	-163.8	383.2	272.3	110.96	3.454	
3,900.0	3,880.7	3,868.8	3,868.0	12.4	80.4	84.59	476.5	-163.8	382.1	268.8	113.28	3.373	
4,000.0	3,980.4	3,967.4	3,966.5	12.8	82.0	85.56	476.2	-163.8	381.3	265.8	115.52	3.301	
4,100.0	4,080.3	4,067.2	4,066.4	13.1	83.6	86.28	476.2	-163.8	381.0	263.2	117.75	3.235	
4,200.0	4,180.3	4,167.2	4,166.4	13.4	85.2	86.75	476.2	-163.8	380.8	260.8	119.98	3.174	
4,209.1	4,189.4	4,176.3	4,175.5	13.4	85.4	86.77	476.2	-163.8	380.8	260.6	120.18	3.168	
4,300.0	4,280.3	4,267.5	4,266.7	13.6	86.8	86.94	476.5	-163.8	380.9	258.7	122.21	3.117	
4,327.1	4,307.4	4,294.7	4,293.9	13.7	87.2	18.95	476.4	-163.8	380.9	258.1	122.82	3.101	
4,400.0	4,380.3	4,367.8	4,367.0	13.7	88.4	18.95	476.3	-163.8	380.8	256.4	124.45	3.060	
4,500.0	4,480.3	4,467.2	4,466.4	13.8	90.0	18.96	476.2	-163.8	380.7	254.0	126.73	3.004	
4,600.0	4,580.3	4,567.2	4,566.4	13.8	91.8	18.96	476.2	-163.8	380.7	251.6	129.11	2.949	
4,700.0	4,680.3	4,667.2	4,666.4	13.9	93.5	18.96	476.2	-163.8	380.7	249.2	131.49	2.895	
4,800.0	4,780.3	4,767.5	4,766.7	13.9	95.2	18.94	476.5	-163.8	380.9	247.1	133.88	2.845	
4,900.0	4,880.3	4,867.8	4,867.0	14.0	96.9	18.95	476.3	-163.8	380.8	244.5	136.26	2.795	
5,000.0	4,980.3	4,967.2	4,966.4	14.0	98.6	18.96	476.2	-163.8	380.7	242.0	138.69	2.745	
5,100.0	5,080.3	5,067.2	5,066.4	14.1	100.4	18.96	476.2	-163.8	380.7	239.5	141.20	2.696	
5,200.0	5,180.3	5,167.2	5,166.4	14.2	102.2	18.96	476.2	-163.8	380.7	237.0	143.71	2.649	
5,300.0	5,280.3	5,267.8	5,267.0	14.2	104.0	18.93	476.7	-163.8	381.1	234.9	146.24	2.606	
5,400.0	5,380.3	5,368.5	5,367.6	14.3	105.8	18.95	476.4	-163.8	380.9	232.1	148.76	2.560	
5,500.0	5,480.3	5,467.2	5,466.4	14.4	107.6	18.96	476.2	-163.8	380.7	229.5	151.25	2.517	
5,600.0	5,580.3	5,567.2	5,566.4	14.4	109.4	18.96	476.2	-163.8	380.7	226.9	153.77	2.476	
5,700.0	5,680.3	5,667.3	5,666.4	14.5	111.2	18.93	476.7	-163.8	381.2	224.9	156.29	2.439	
5,800.0	5,780.3	5,767.9	5,767.1	14.5	113.0	18.94	476.6	-163.8	381.1	222.3	158.83	2.399	
5,900.0	5,880.3	5,868.6	5,867.7	14.6	114.9	18.95	476.3	-163.8	380.8	219.5	161.37	2.360	
5,998.8	5,979.0	5,966.0	5,965.1	14.7	116.7	18.96	476.2	-163.8	380.7	216.8	163.90	2.323	
6,000.0	5,980.3	5,967.2	5,966.4	14.7	116.7	18.96	476.2	-163.8	380.7	216.8	163.94	2.322	
6,100.0	6,080.3	6,067.2	6,066.4	14.7	118.6	18.96	476.2	-163.8	380.7	214.1	166.57	2.286	
6,200.0	6,180.3	6,167.4	6,166.6	14.8	120.5	18.93	476.7	-163.8	381.2	212.0	169.21	2.253	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - CONOCO A FEDERAL #1 (P&A) - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 362-INC-ONLY

Rule Assigned:

Offset Well Error: 10.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,300.0	6,280.3	6,268.1	6,267.2	14.8	122.4	18.94	476.6	-163.8	381.1	209.2	171.86	2.217	
6,400.0	6,380.3	6,368.8	6,367.9	14.9	124.3	18.95	476.3	-163.8	380.7	206.2	174.51	2.182	
6,440.7	6,421.0	6,408.0	6,407.1	14.9	125.0	18.96	476.2	-163.8	380.7	205.1	175.58	2.168	
6,500.0	6,480.3	6,467.3	6,466.4	15.0	126.2	18.96	476.2	-163.8	380.7	203.5	177.20	2.148	
6,600.0	6,580.3	6,567.3	6,566.4	15.0	128.2	18.96	476.2	-163.8	380.7	200.8	179.94	2.116	
6,700.0	6,680.3	6,667.3	6,666.4	15.1	130.1	18.96	476.2	-163.8	380.7	198.0	182.68	2.084	
6,800.0	6,780.3	6,767.3	6,766.4	15.2	132.1	18.96	476.2	-163.8	380.7	195.3	185.42	2.053	
6,900.0	6,880.3	6,867.3	6,866.4	15.2	134.1	18.96	476.2	-163.8	380.7	192.5	188.16	2.023	
6,910.0	6,890.3	6,877.3	6,876.4	15.2	134.3	18.96	476.2	-163.8	380.7	192.3	188.43	2.020	CC, ES, SF
7,000.0	6,980.3	6,903.0	6,902.1	15.3	134.8	18.96	476.2	-163.8	386.1	199.5	186.59	2.069	
7,100.0	7,080.3	6,903.0	6,902.1	15.4	134.8	18.96	476.2	-163.8	414.7	240.4	174.23	2.380	
7,200.0	7,180.3	6,903.0	6,902.1	15.4	134.8	18.96	476.2	-163.8	463.5	306.7	156.71	2.957	
7,300.0	7,280.3	6,903.0	6,902.1	15.5	134.8	18.96	476.2	-163.8	526.9	388.0	138.91	3.793	
7,400.0	7,380.3	6,903.0	6,902.1	15.5	134.8	18.96	476.2	-163.8	600.4	477.3	123.14	4.876	
7,500.0	7,480.3	6,903.0	6,902.1	15.6	134.8	18.96	476.2	-163.8	680.7	570.8	109.96	6.191	
7,600.0	7,580.3	6,903.0	6,902.1	15.7	134.8	18.96	476.2	-163.8	765.7	666.5	99.19	7.719	
7,700.0	7,680.3	6,903.0	6,902.1	15.7	134.8	18.96	476.2	-163.8	853.9	763.5	90.42	9.443	
7,800.0	7,780.3	6,903.0	6,902.1	15.8	134.8	18.96	476.2	-163.8	944.4	861.2	83.27	11.342	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - PADUCA 7 6 W1GB FEDERAL #1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 188-MWD - OWSG R1

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
21,300.0	11,703.0	11,500.0	11,464.4	77.7	41.4	14.95	10,854.7	-237.8	973.1	898.8	74.29	13.099	
21,400.0	11,703.0	11,500.0	11,464.4	78.5	41.4	14.95	10,854.7	-237.8	879.7	803.7	75.98	11.577	
21,500.0	11,703.0	11,536.0	11,498.1	79.2	41.5	16.17	10,867.0	-240.3	786.0	709.5	76.54	10.270	
21,600.0	11,703.0	11,553.3	11,514.0	79.9	41.5	16.87	10,873.7	-241.3	694.1	615.9	78.17	8.879	
21,700.0	11,703.0	11,577.0	11,535.6	80.7	41.6	18.00	10,883.5	-242.5	603.4	523.5	79.90	7.553	
21,800.0	11,703.0	11,577.0	11,535.6	81.4	41.6	18.00	10,883.5	-242.5	515.1	430.8	84.35	6.107	
21,900.0	11,703.0	11,617.5	11,571.4	82.2	41.6	20.52	10,902.6	-243.6	428.2	341.8	86.39	4.957	
22,000.0	11,703.0	11,646.3	11,595.7	82.9	41.7	22.92	10,917.9	-243.7	345.4	254.3	91.08	3.792	
22,063.0	11,703.0	11,672.0	11,616.6	83.4	41.8	25.62	10,932.8	-243.1	295.8	201.7	94.12	3.143	
22,100.0	11,703.0	11,672.0	11,616.6	83.7	41.8	25.62	10,932.8	-243.1	268.0	168.8	99.20	2.702	
22,113.0	11,703.0	11,672.0	11,616.6	83.8	41.8	25.62	10,932.8	-243.1	258.8	157.6	101.22	2.557	CC, ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS 19 FEDERAL COM #112H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 137-r.5 SDI_KPR_ADK, 1257-r.5 MWD+IFR1+MS, 7894-r.5 MWD+IFR1+MS, 8756-r.5 MWD+IFR1+MS, 9629-r.5 MWD+ **Rule Assigned:**

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,700.0	6,680.3	6,778.7	6,770.5	15.1	18.2	-83.43	230.1	-1,277.1	999.1	965.8	33.31	29.993	
6,800.0	6,780.3	6,880.0	6,871.5	15.2	18.6	-83.55	227.2	-1,269.4	991.2	957.5	33.75	29.374	
6,900.0	6,880.3	6,976.5	6,967.6	15.2	18.9	-83.65	224.6	-1,262.2	983.5	949.3	34.17	28.782	
7,000.0	6,980.3	7,075.5	7,066.4	15.3	19.3	-83.77	221.8	-1,255.1	976.1	941.5	34.60	28.210	
7,100.0	7,080.3	7,180.3	7,170.8	15.4	19.7	-83.78	220.8	-1,247.0	968.3	933.2	35.06	27.619	
7,200.0	7,180.3	7,277.5	7,267.7	15.4	20.0	-83.76	220.2	-1,239.3	960.3	924.8	35.51	27.044	
7,300.0	7,280.3	7,370.0	7,360.0	15.5	20.3	-83.75	219.7	-1,232.5	952.9	917.0	35.94	26.514	
7,400.0	7,380.3	7,471.3	7,461.1	15.5	20.7	-83.71	219.5	-1,225.5	946.1	909.7	36.39	25.996	
7,500.0	7,480.3	7,578.5	7,567.9	15.6	21.1	-83.71	218.7	-1,217.4	938.5	901.6	36.87	25.453	
7,600.0	7,580.3	7,679.7	7,668.8	15.7	21.4	-83.74	217.3	-1,209.3	930.4	893.1	37.34	24.918	
7,700.0	7,680.3	7,774.9	7,763.7	15.7	21.8	-83.78	215.9	-1,201.9	922.5	884.7	37.79	24.411	
7,800.0	7,780.3	7,870.0	7,858.5	15.8	22.0	-83.84	214.2	-1,195.0	915.1	877.0	38.10	24.017	
7,900.0	7,880.3	7,965.0	7,953.3	15.9	22.1	-83.91	212.3	-1,188.7	908.3	870.0	38.24	23.751	
8,000.0	7,980.3	8,058.3	8,046.4	15.9	22.1	-83.99	210.5	-1,183.0	902.0	863.7	38.34	23.525	
8,100.0	8,080.3	8,162.7	8,150.6	16.0	22.2	-84.09	208.2	-1,177.0	896.1	857.6	38.44	23.311	
8,200.0	8,180.3	8,278.2	8,265.7	16.1	22.2	-84.24	205.1	-1,168.9	888.8	850.3	38.53	23.066	
8,300.0	8,280.3	8,379.7	8,367.0	16.1	22.3	-84.33	202.8	-1,160.7	880.6	841.9	38.65	22.782	
8,400.0	8,380.3	8,473.9	8,460.8	16.2	22.4	-84.39	201.2	-1,153.3	872.5	833.8	38.78	22.498	
8,500.0	8,480.3	8,571.0	8,557.6	16.3	22.4	-84.43	199.8	-1,146.0	865.0	826.0	38.92	22.225	
8,600.0	8,580.3	8,667.4	8,653.8	16.3	22.5	-84.45	198.9	-1,139.1	857.7	818.7	39.06	21.960	
8,700.0	8,680.3	8,769.2	8,755.3	16.4	22.6	-84.46	198.1	-1,132.0	850.7	811.5	39.18	21.715	
8,800.0	8,780.3	8,882.6	8,868.4	16.5	22.6	-84.48	196.8	-1,122.6	842.4	803.1	39.26	21.454	
8,900.0	8,880.3	8,981.4	8,966.7	16.5	22.6	-84.52	195.4	-1,113.9	833.4	794.1	39.37	21.170	
9,000.0	8,980.3	9,078.8	9,063.8	16.6	22.7	-84.57	193.9	-1,105.6	824.8	785.3	39.48	20.891	
9,100.0	9,080.3	9,178.2	9,162.8	16.7	22.8	-84.62	192.4	-1,097.3	816.3	776.7	39.60	20.613	
9,200.0	9,180.3	9,279.4	9,263.6	16.7	22.8	-84.72	190.2	-1,088.8	807.8	768.1	39.72	20.335	
9,300.0	9,280.3	9,388.3	9,372.0	16.8	22.9	-84.87	187.3	-1,079.1	798.6	758.8	39.85	20.042	
9,400.0	9,380.3	9,484.4	9,467.7	16.9	23.0	-85.04	184.1	-1,069.7	788.7	748.7	39.98	19.725	
9,500.0	9,480.3	9,578.9	9,561.7	16.9	23.0	-85.17	181.5	-1,061.5	779.7	739.6	40.11	19.437	
9,600.0	9,580.3	9,678.0	9,660.4	17.0	23.1	-85.24	179.9	-1,053.0	771.0	730.8	40.23	19.167	
9,700.0	9,680.3	9,787.7	9,769.7	17.1	23.1	-85.23	179.2	-1,043.0	761.9	721.6	40.32	18.895	
9,800.0	9,780.3	9,891.9	9,873.3	17.1	23.2	-85.22	178.4	-1,032.0	751.4	710.9	40.44	18.582	
9,900.0	9,880.3	9,992.9	9,973.7	17.2	23.3	-85.24	177.2	-1,021.3	740.7	700.1	40.56	18.263	
10,000.0	9,980.3	10,115.7	10,095.6	17.3	23.3	-85.30	175.3	-1,006.4	728.5	687.8	40.69	17.903	
10,100.0	10,080.3	10,211.4	10,190.4	17.3	23.4	-85.40	172.9	-993.4	714.8	673.9	40.83	17.506	
10,200.0	10,180.3	10,301.0	10,279.3	17.4	23.5	-85.51	170.7	-982.0	701.9	660.9	40.97	17.129	
10,300.0	10,280.3	10,395.8	10,373.3	17.5	23.6	-85.60	168.7	-970.8	689.9	648.8	41.12	16.777	
10,400.0	10,380.3	10,491.9	10,468.9	17.5	23.6	-85.69	166.8	-960.0	678.6	637.3	41.25	16.452	
10,500.0	10,480.3	10,590.7	10,567.0	17.6	23.7	-85.80	164.8	-949.1	667.5	626.1	41.34	16.145	
10,600.0	10,580.3	10,680.0	10,655.8	17.7	23.7	-85.92	162.7	-939.9	657.0	615.6	41.44	15.853	
10,700.0	10,680.3	10,775.0	10,750.4	17.8	23.8	-86.06	160.5	-931.4	647.9	606.4	41.55	15.594	
10,800.0	10,780.3	10,864.0	10,839.1	17.8	23.8	-86.17	158.8	-924.7	640.2	598.6	41.66	15.367	
10,900.0	10,880.3	10,959.3	10,934.2	17.9	23.9	-86.27	157.3	-918.3	633.4	591.7	41.78	15.161	
11,000.0	10,980.3	11,050.6	11,025.4	18.0	23.9	-86.34	156.2	-913.1	627.6	585.7	41.90	14.978	
11,100.0	11,080.3	11,145.3	11,119.9	18.0	24.0	-86.39	155.3	-908.6	622.9	580.9	42.01	14.827	
11,149.8	11,130.0	11,192.3	11,166.8	18.0	24.0	-86.38	155.3	-906.7	620.9	578.9	42.03	14.774	
11,200.0	11,180.2	11,239.1	11,213.7	18.1	24.0	-86.47	156.4	-905.0	619.0	576.9	42.04	14.725	
11,250.0	11,229.8	11,286.7	11,261.2	18.1	24.0	-87.06	158.2	-903.4	617.0	575.0	42.02	14.683	
11,300.0	11,278.6	11,334.8	11,309.2	18.1	24.0	-87.93	161.4	-901.9	615.1	573.1	41.99	14.649	
11,350.0	11,326.2	11,380.1	11,354.3	18.1	24.0	-88.99	165.7	-900.5	613.2	571.3	41.92	14.628	
11,400.0	11,372.4	11,427.8	11,401.5	18.1	24.0	-90.31	171.7	-899.3	611.8	570.0	41.83	14.627	
11,450.0	11,416.7	11,481.0	11,454.0	18.2	24.0	-92.01	180.3	-897.7	610.5	568.8	41.71	14.637	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS 19 FEDERAL COM #112H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 137-r.5 SDI_KPR_ADK, 1257-r.5 MWD+IFR1+MS, 7894-r.5 MWD+IFR1+MS, 8756-r.5 MWD+IFR1+MS, 9629-r.5 MWD+ **Rule Assigned:**

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,500.0	11,458.9	11,543.9	11,515.4	18.2	24.0	-94.24	193.4	-894.8	609.1	567.5	41.60	14.639	
11,550.0	11,498.5	11,606.9	11,575.9	18.2	24.0	-96.66	210.4	-890.3	607.1	565.6	41.51	14.626	
11,600.0	11,535.3	11,664.2	11,629.8	18.3	24.0	-99.04	229.1	-885.2	605.2	563.8	41.40	14.617	
11,650.0	11,569.1	11,720.4	11,681.3	18.3	24.0	-101.43	251.0	-879.8	603.9	562.6	41.31	14.619	
11,691.6	11,594.7	11,764.3	11,720.3	18.3	24.1	-103.29	270.7	-875.3	603.4	562.2	41.25	14.630	
11,700.0	11,599.5	11,773.0	11,727.8	18.3	24.1	-103.66	274.9	-874.4	603.5	562.2	41.21	14.642	
11,750.0	11,626.4	11,819.4	11,767.3	18.4	24.1	-105.52	299.1	-870.2	604.6	563.5	41.06	14.723	
11,800.0	11,649.4	11,866.5	11,805.0	18.4	24.1	-107.21	326.9	-866.8	607.5	566.6	40.96	14.833	
11,850.0	11,668.5	11,913.0	11,839.6	18.5	24.1	-108.61	357.9	-864.7	612.4	571.5	40.90	14.974	
11,900.0	11,683.5	11,978.3	11,881.6	18.5	24.2	-110.27	407.8	-864.1	618.7	577.5	41.19	15.021	
11,950.0	11,694.3	12,069.7	11,926.9	18.6	24.6	-112.08	487.1	-864.6	624.5	582.6	41.89	14.909	
12,000.0	11,700.8	12,158.7	11,954.6	18.6	24.7	-113.06	571.4	-865.8	628.4	585.8	42.59	14.753	
12,049.8	11,703.0	12,248.3	11,968.2	18.7	24.7	-113.57	659.9	-867.3	631.1	587.9	43.28	14.582	
12,100.0	11,703.0	12,302.4	11,970.9	18.8	24.8	-113.75	713.9	-868.5	633.1	589.8	43.31	14.617	
12,200.0	11,703.0	12,414.2	11,970.2	19.0	25.3	-113.57	825.7	-872.5	635.7	592.0	43.69	14.551	
12,300.0	11,703.0	12,513.4	11,966.6	19.2	25.4	-113.14	924.6	-876.3	637.5	593.6	43.97	14.498	
12,400.0	11,703.0	12,621.9	11,961.0	19.4	25.6	-112.54	1,033.0	-880.7	638.9	594.6	44.37	14.399	
12,500.0	11,703.0	12,716.6	11,959.2	19.7	25.7	-112.32	1,127.6	-882.9	640.1	595.3	44.72	14.312	
12,600.0	11,703.0	12,805.0	11,961.0	20.0	25.9	-112.42	1,215.9	-884.8	642.6	597.5	45.05	14.265	
12,700.0	11,703.0	12,907.6	11,964.2	20.4	26.0	-112.60	1,318.5	-887.4	645.8	600.2	45.57	14.170	
12,800.0	11,703.0	13,003.3	11,968.3	20.7	26.2	-112.88	1,414.0	-889.5	649.2	603.1	46.07	14.090	
12,900.0	11,703.0	13,123.5	11,970.9	21.1	26.5	-113.05	1,534.2	-891.2	650.9	604.0	46.89	13.881	
13,000.0	11,703.0	13,224.2	11,970.9	21.5	26.7	-113.04	1,634.8	-891.6	651.0	603.5	47.52	13.700	
13,100.0	11,703.0	13,329.5	11,970.9	22.0	26.9	-113.02	1,740.2	-892.8	651.7	603.5	48.25	13.508	
13,200.0	11,703.0	13,456.6	11,969.2	22.4	27.3	-112.98	1,867.3	-890.3	649.1	599.8	49.27	13.174	
13,300.0	11,703.0	13,564.0	11,968.1	22.9	27.6	-113.09	1,974.5	-884.8	643.7	593.6	50.10	12.850	
13,400.0	11,703.0	13,664.0	11,967.3	23.4	27.9	-113.25	2,074.3	-878.7	637.5	586.6	50.88	12.530	
13,500.0	11,703.0	13,760.0	11,967.7	23.9	28.2	-113.49	2,170.1	-873.2	632.0	580.4	51.65	12.237	
13,600.0	11,703.0	13,839.6	11,970.0	24.4	28.4	-113.81	2,249.7	-869.8	628.9	576.6	52.26	12.034	
13,700.0	11,703.0	13,941.1	11,973.7	24.9	28.8	-114.27	2,351.0	-866.5	627.1	573.9	53.16	11.796	
13,800.0	11,703.0	14,044.9	11,975.8	25.5	29.2	-114.58	2,454.7	-863.0	624.6	570.5	54.12	11.542	
13,900.0	11,703.0	14,143.0	11,977.5	26.0	29.5	-114.86	2,552.7	-859.9	622.1	567.1	55.02	11.306	
14,000.0	11,703.0	14,247.3	11,978.8	26.6	29.7	-115.12	2,657.0	-856.4	619.3	563.4	55.94	11.072	
14,100.0	11,703.0	14,343.7	11,979.9	27.2	29.9	-115.33	2,753.3	-853.5	616.8	560.1	56.70	10.878	
14,200.0	11,703.0	14,454.7	11,980.2	27.8	30.3	-115.59	2,864.3	-848.0	612.0	554.3	57.68	10.609	
14,293.0	11,703.0	14,521.0	11,979.7	28.3	30.6	-115.61	2,930.5	-846.9	609.9	551.7	58.20	10.480	
14,300.0	11,703.0	14,527.5	11,979.6	28.4	30.6	-115.60	2,936.9	-846.9	609.9	551.7	58.25	10.470	
14,400.0	11,703.0	14,618.8	11,979.6	29.0	30.9	-115.56	3,028.2	-848.1	610.8	551.8	59.01	10.351	
14,500.0	11,703.0	14,735.3	11,979.7	29.6	31.3	-115.59	3,144.8	-848.1	610.5	550.4	60.13	10.153	
14,598.8	11,703.0	14,826.8	11,979.8	30.2	31.6	-115.62	3,236.3	-847.8	609.9	548.9	60.94	10.007	
14,600.0	11,703.0	14,827.9	11,979.8	30.2	31.6	-115.62	3,237.4	-847.8	609.9	548.9	60.95	10.006	
14,700.0	11,703.0	14,923.5	11,979.8	30.8	31.9	-115.59	3,332.9	-848.9	610.6	548.7	61.84	9.874	
14,800.0	11,703.0	15,033.8	11,979.6	31.4	32.4	-115.60	3,443.3	-848.6	609.9	547.0	62.95	9.689	
14,900.0	11,703.0	15,130.8	11,979.5	32.1	32.7	-115.60	3,540.3	-848.5	609.5	545.6	63.89	9.539	
15,000.0	11,703.0	15,230.5	11,979.2	32.7	33.1	-115.62	3,640.0	-848.1	608.7	543.8	64.90	9.379	
15,023.1	11,703.0	15,251.2	11,979.2	32.9	33.2	-115.61	3,660.7	-848.1	608.6	543.5	65.10	9.349	
15,100.0	11,703.0	15,326.8	11,979.1	33.4	33.5	-115.58	3,736.3	-848.8	609.0	543.1	65.88	9.244	
15,200.0	11,703.0	15,428.4	11,978.9	34.0	34.0	-115.58	3,837.9	-848.9	608.7	541.8	66.94	9.093	
15,206.9	11,703.0	15,435.0	11,978.9	34.1	34.0	-115.58	3,844.4	-849.0	608.7	541.7	67.01	9.084	
15,300.0	11,703.0	15,526.4	11,979.3	34.7	34.4	-115.61	3,935.9	-849.4	609.0	541.0	67.98	8.959	
15,400.0	11,703.0	15,634.4	11,979.3	35.3	34.9	-115.61	4,043.9	-849.5	608.8	539.7	69.17	8.802	
15,495.2	11,703.0	15,723.3	11,979.1	36.0	35.3	-115.64	4,132.7	-848.9	607.9	537.7	70.13	8.668	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS 19 FEDERAL COM #112H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 137-r.5 SDI_KPR_ADK, 1257-r.5 MWD+IFR1+MS, 7894-r.5 MWD+IFR1+MS, 8756-r.5 MWD+IFR1+MS, 9629-r.5 MWD+ **Rule Assigned:**

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.0	11,703.0	15,727.3	11,979.1	36.0	35.3	-115.64	4,136.7	-848.9	607.9	537.7	70.17	8.662	
15,600.0	11,703.0	15,818.4	11,979.4	36.7	35.7	-115.62	4,227.9	-850.2	609.0	537.8	71.15	8.559	
15,700.0	11,703.0	15,936.2	11,979.7	37.3	36.3	-115.61	4,345.7	-851.4	609.8	537.3	72.56	8.405	
15,800.0	11,703.0	16,053.3	11,979.2	38.0	36.9	-115.72	4,462.7	-848.2	606.9	533.0	73.92	8.210	
15,900.0	11,703.0	16,151.8	11,978.6	38.7	37.4	-115.83	4,561.1	-844.5	602.9	527.8	75.05	8.033	
16,000.0	11,703.0	16,247.9	11,978.0	39.4	37.9	-115.94	4,657.2	-841.2	599.2	523.1	76.17	7.867	
16,100.0	11,703.0	16,337.0	11,977.8	40.1	38.4	-116.00	4,746.2	-839.5	597.1	519.9	77.20	7.735	
16,200.0	11,703.0	16,447.5	11,977.0	40.7	38.9	-116.03	4,856.7	-837.4	594.8	516.2	78.54	7.573	
16,300.0	11,703.0	16,540.4	11,975.8	41.4	39.4	-116.02	4,949.5	-835.8	592.3	512.7	79.64	7.438	
16,400.0	11,703.0	16,648.2	11,974.8	42.1	40.0	-116.05	5,057.3	-833.1	589.4	508.4	80.96	7.280	
16,500.0	11,703.0	16,744.3	11,974.2	42.8	40.6	-116.12	5,153.4	-830.5	586.4	504.2	82.13	7.140	
16,600.0	11,703.0	16,843.4	11,973.5	43.5	41.1	-116.16	5,252.5	-828.5	584.0	500.6	83.34	7.007	
16,700.0	11,703.0	16,949.2	11,972.7	44.2	41.7	-116.24	5,358.2	-825.4	580.7	496.1	84.66	6.860	
16,800.0	11,703.0	17,051.2	11,972.8	44.9	42.3	-116.43	5,460.2	-821.6	577.1	491.2	85.93	6.716	
16,900.0	11,703.0	17,146.1	11,972.0	45.6	42.8	-116.53	5,555.0	-818.2	573.2	486.1	87.12	6.580	
17,000.0	11,703.0	17,243.1	11,971.7	46.3	43.4	-116.60	5,651.9	-816.3	571.0	482.7	88.34	6.464	
17,100.0	11,703.0	17,346.8	11,971.4	47.0	44.0	-116.74	5,755.6	-813.1	567.9	478.2	89.66	6.334	
17,200.0	11,703.0	17,441.6	11,970.8	47.7	44.6	-116.80	5,850.4	-810.7	565.1	474.2	90.86	6.219	
17,300.0	11,703.0	17,543.4	11,972.3	48.5	45.2	-117.08	5,952.1	-807.9	563.0	470.8	92.17	6.108	
17,400.0	11,703.0	17,631.6	11,973.6	49.2	45.7	-117.33	6,040.3	-805.4	560.9	467.6	93.28	6.013	
17,412.7	11,703.0	17,641.7	11,973.9	49.3	45.8	-117.36	6,050.4	-805.3	560.9	467.5	93.40	6.005	
17,500.0	11,703.0	17,727.5	11,976.5	49.9	46.3	-117.63	6,136.2	-805.0	561.6	467.1	94.50	5.943	
17,600.0	11,703.0	17,831.6	11,978.8	50.6	46.9	-117.92	6,240.2	-803.7	561.2	465.3	95.86	5.854	
17,700.0	11,703.0	17,934.3	11,979.0	51.3	47.6	-117.97	6,343.0	-803.3	560.6	463.4	97.22	5.766	
17,792.3	11,703.0	18,021.4	11,977.7	52.0	48.1	-117.85	6,430.0	-803.5	560.0	461.6	98.35	5.693	
17,800.0	11,703.0	18,028.4	11,977.6	52.0	48.2	-117.84	6,437.0	-803.6	560.0	461.5	98.44	5.688	
17,900.0	11,703.0	18,120.9	11,976.7	52.8	48.7	-117.69	6,529.5	-805.3	560.8	461.2	99.63	5.629	
18,000.0	11,703.0	18,226.6	11,976.8	53.5	49.4	-117.63	6,635.1	-807.1	562.1	461.0	101.08	5.561	
18,100.0	11,703.0	18,323.1	11,977.0	54.2	50.0	-117.63	6,731.6	-807.9	562.6	460.3	102.35	5.497	
18,200.0	11,703.0	18,419.1	11,976.3	54.9	50.6	-117.47	6,827.7	-810.2	564.1	460.5	103.62	5.444	
18,300.0	11,703.0	18,525.3	11,976.3	55.6	51.3	-117.40	6,933.8	-812.1	565.5	460.4	105.09	5.381	
18,400.0	11,703.0	18,619.1	11,976.5	56.4	51.9	-117.37	7,027.6	-813.5	566.6	460.3	106.32	5.329	
18,500.0	11,703.0	18,720.3	11,977.4	57.1	52.6	-117.37	7,128.8	-815.4	568.4	460.7	107.70	5.277	
18,600.0	11,703.0	18,835.6	11,978.1	57.8	53.3	-117.44	7,244.0	-815.6	568.5	459.2	109.33	5.200	
18,700.0	11,703.0	18,941.8	11,978.9	58.5	54.0	-117.63	7,350.2	-813.6	566.8	456.0	110.78	5.117	
18,800.0	11,703.0	19,042.2	11,979.4	59.3	54.7	-117.82	7,450.6	-810.7	564.3	452.1	112.14	5.032	
18,900.0	11,703.0	19,139.0	11,979.7	60.0	55.3	-117.94	7,547.4	-809.1	562.6	449.1	113.46	4.959	
19,000.0	11,703.0	19,241.6	11,979.4	60.7	56.0	-118.04	7,650.0	-806.9	560.3	445.5	114.86	4.878	
19,100.0	11,703.0	19,341.0	11,978.4	61.5	56.6	-118.02	7,749.3	-805.7	558.4	442.2	116.23	4.804	
19,200.0	11,703.0	19,440.9	11,977.8	62.2	57.3	-118.08	7,849.2	-803.7	556.1	438.5	117.61	4.728	
19,300.0	11,703.0	19,547.9	11,978.0	62.9	58.0	-118.24	7,956.2	-801.3	553.9	434.9	119.08	4.652	
19,400.0	11,703.0	19,647.7	11,976.9	63.7	58.7	-118.32	8,055.9	-797.8	550.1	429.6	120.46	4.567	
19,500.0	11,703.0	19,746.5	11,975.9	64.4	59.3	-118.36	8,154.6	-795.4	547.1	425.3	121.83	4.491	
19,600.0	11,703.0	19,836.5	11,975.7	65.1	60.0	-118.47	8,244.7	-793.2	544.6	421.5	123.07	4.425	
19,660.5	11,703.0	19,890.1	11,976.3	65.6	60.3	-118.56	8,298.3	-792.7	544.3	420.5	123.79	4.397	
19,700.0	11,703.0	19,927.3	11,977.4	65.9	60.6	-118.69	8,335.4	-792.3	544.4	420.1	124.29	4.380	
19,800.0	11,703.0	20,041.7	11,982.3	66.6	61.3	-119.29	8,449.6	-789.7	544.2	418.3	125.91	4.323	
19,900.0	11,703.0	20,154.4	11,983.2	67.3	62.1	-119.64	8,562.3	-785.0	540.7	413.2	127.45	4.242	
20,000.0	11,703.0	20,243.7	11,982.3	68.1	62.7	-119.72	8,651.5	-782.1	537.1	408.4	128.72	4.173	
20,100.0	11,703.0	20,334.7	11,981.7	68.8	63.3	-119.75	8,742.5	-780.9	535.4	405.4	129.98	4.119	
20,200.0	11,703.0	20,441.1	11,981.1	69.6	64.1	-119.76	8,848.9	-780.0	534.0	402.6	131.49	4.061	
20,300.0	11,703.0	20,550.2	11,979.4	70.3	64.8	-119.76	8,958.0	-777.4	530.9	397.9	133.02	3.991	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS 19 FEDERAL COM #112H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 137-r.5 SDI_KPR_ADK, 1257-r.5 MWD+IFR1+MS, 7894-r.5 MWD+IFR1+MS, 8756-r.5 MWD+IFR1+MS, 9629-r.5 MWD+ **Rule Assigned:**

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,400.0	11,703.0	20,646.6	11,977.6	71.0	65.5	-119.72	9,054.3	-775.2	527.7	393.3	134.39	3.926	
20,500.0	11,703.0	20,754.8	11,976.3	71.8	66.3	-119.87	9,162.4	-770.6	523.0	387.1	135.90	3.849	
20,600.0	11,703.0	20,843.3	11,975.3	72.5	66.9	-119.92	9,250.9	-768.1	519.8	382.6	137.18	3.789	
20,700.0	11,703.0	20,948.9	11,973.6	73.3	67.6	-119.93	9,356.5	-765.4	516.4	377.8	138.67	3.724	
20,800.0	11,703.0	21,050.8	11,970.9	74.0	68.3	-119.81	9,458.2	-763.3	513.0	372.9	140.12	3.661	
20,900.0	11,703.0	21,149.5	11,969.3	74.7	69.0	-119.90	9,556.9	-759.2	508.4	366.8	141.53	3.592	
21,000.0	11,703.0	21,234.8	11,968.3	75.5	69.6	-119.88	9,642.2	-758.1	506.3	363.6	142.75	3.547	
21,100.0	11,703.0	21,337.1	11,970.5	76.2	70.3	-120.20	9,744.4	-756.6	505.9	361.7	144.20	3.508	
21,200.0	11,703.0	21,443.4	11,969.9	77.0	71.1	-120.31	9,850.6	-754.0	503.1	357.4	145.73	3.452	
21,300.0	11,703.0	21,545.3	11,969.1	77.7	71.8	-120.34	9,952.5	-752.4	501.0	353.8	147.18	3.404	
21,400.0	11,703.0	21,657.7	11,968.6	78.5	72.6	-120.61	10,064.9	-747.3	496.7	347.9	148.73	3.339	
21,500.0	11,703.0	21,765.2	11,969.0	79.2	73.4	-121.12	10,172.1	-739.7	490.4	340.3	150.18	3.266	
21,600.0	11,703.0	21,843.1	11,969.8	79.9	73.9	-121.52	10,249.8	-734.7	485.4	334.0	151.40	3.206	
21,700.0	11,703.0	21,939.2	11,973.8	80.7	74.6	-122.16	10,345.7	-731.3	484.3	331.5	152.74	3.171	
21,800.0	11,703.0	22,048.9	11,975.5	81.4	75.4	-122.61	10,455.3	-727.2	481.6	327.3	154.29	3.121	
21,900.0	11,703.0	22,137.7	11,974.0	82.2	76.0	-122.59	10,544.1	-725.6	478.9	323.3	155.57	3.078	
21,936.4	11,703.0	22,167.9	11,973.2	82.4	76.2	-122.49	10,574.3	-725.9	478.6	322.7	155.98	3.069	CC, ES
22,000.0	11,703.0	22,217.2	11,972.6	82.9	76.6	-122.35	10,623.6	-727.3	479.6	323.1	156.54	3.064	SF
22,063.0	11,703.0	22,269.4	11,973.3	83.4	77.0	-122.28	10,675.7	-729.8	482.4	325.3	157.11	3.070	
22,100.0	11,703.0	22,306.0	11,974.3	83.7	77.2	-122.27	10,712.2	-731.6	484.3	326.7	157.62	3.073	
22,113.0	11,703.0	22,319.0	11,974.7	83.8	77.3	-122.28	10,725.2	-732.2	485.0	327.2	157.81	3.073	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	90.15	-0.1	30.0	30.0				
100.0	100.0	99.8	99.8	3.0	3.0	90.15	-0.1	30.0	30.0	23.4	6.52	4.597	
200.0	200.0	199.8	199.8	3.2	3.2	90.15	-0.1	30.0	30.0	23.2	6.76	4.433	
300.0	300.0	299.8	299.8	3.3	3.3	90.15	-0.1	30.0	30.0	23.0	6.99	4.287	
400.0	400.0	399.8	399.8	3.4	3.4	90.15	-0.1	30.0	30.0	22.8	7.21	4.154	
500.0	500.0	499.8	499.8	3.5	3.5	90.15	-0.1	30.0	30.0	22.5	7.43	4.033	
600.0	600.0	599.8	599.8	3.7	3.7	90.15	-0.1	30.0	30.0	22.3	7.64	3.923	
700.0	700.0	699.8	699.8	3.8	3.8	90.15	-0.1	30.0	30.0	22.1	7.84	3.821	
800.0	800.0	799.8	799.8	3.9	3.9	90.15	-0.1	30.0	30.0	21.9	8.04	3.727	
900.0	900.0	899.8	899.8	4.0	4.0	90.15	-0.1	30.0	30.0	21.7	8.23	3.640	
1,000.0	1,000.0	999.8	999.8	4.2	4.2	90.15	-0.1	30.0	30.0	21.5	8.42	3.558	
1,100.0	1,100.0	1,099.8	1,099.8	4.3	4.3	90.15	-0.1	30.0	30.0	21.4	8.61	3.482	
1,200.0	1,200.0	1,199.8	1,199.8	4.4	4.4	90.15	-0.1	30.0	30.0	21.2	8.79	3.411	
1,300.0	1,300.0	1,299.8	1,299.8	4.5	4.5	90.15	-0.1	30.0	30.0	21.0	8.96	3.344	
1,400.0	1,400.0	1,399.8	1,399.8	4.6	4.6	90.15	-0.1	30.0	30.0	20.8	9.13	3.281	
1,500.0	1,500.0	1,499.8	1,499.8	4.8	4.8	90.15	-0.1	30.0	30.0	20.7	9.30	3.221	CC, ES
1,600.0	1,600.0	1,599.0	1,598.9	4.9	4.9	157.10	1.1	31.2	32.8	23.2	9.61	3.412	
1,700.0	1,699.8	1,697.7	1,697.5	5.1	5.1	154.79	4.8	34.7	41.3	31.2	10.08	4.095	
1,800.0	1,799.5	1,796.1	1,795.6	5.3	5.2	152.72	10.7	40.3	55.2	44.8	10.44	5.288	
1,900.0	1,898.7	1,894.5	1,893.7	5.6	5.4	152.47	16.8	46.3	72.6	61.7	10.90	6.657	
2,000.0	1,997.7	1,992.7	1,991.5	5.8	5.7	152.93	23.0	52.2	91.5	80.2	11.32	8.081	
2,100.0	2,096.8	2,090.9	2,089.3	6.1	5.9	153.24	29.1	58.2	110.4	98.6	11.76	9.386	
2,200.0	2,195.8	2,189.1	2,187.1	6.4	6.2	153.45	35.3	64.1	129.3	117.1	12.22	10.576	
2,300.0	2,294.8	2,287.3	2,285.0	6.7	6.4	153.61	41.4	70.1	148.2	135.5	12.71	11.662	
2,400.0	2,393.8	2,385.5	2,382.8	7.0	6.7	153.73	47.6	76.0	167.1	153.9	13.21	12.651	
2,500.0	2,492.9	2,483.7	2,480.6	7.3	7.0	153.83	53.8	82.0	186.0	172.3	13.73	13.552	
2,600.0	2,591.9	2,581.9	2,578.4	7.6	7.3	153.91	59.9	87.9	204.9	190.7	14.26	14.373	
2,700.0	2,690.9	2,680.1	2,676.3	8.0	7.6	153.98	66.1	93.9	223.8	209.0	14.80	15.123	
2,800.0	2,789.9	2,778.3	2,774.1	8.3	7.9	154.04	72.2	99.8	242.7	227.4	15.36	15.807	
2,900.0	2,889.0	2,876.5	2,871.9	8.7	8.2	154.08	78.4	105.7	261.7	245.7	15.92	16.434	
3,000.0	2,988.0	2,976.1	2,971.1	9.0	8.5	154.14	84.5	111.7	280.5	264.0	16.46	17.036	
3,100.0	3,087.0	3,078.3	3,073.0	9.4	8.8	154.39	89.8	116.8	298.3	281.2	17.05	17.491	
3,200.0	3,186.1	3,180.9	3,175.5	9.8	9.1	154.84	93.8	120.6	314.8	297.1	17.65	17.836	
3,300.0	3,285.1	3,283.9	3,278.4	10.2	9.4	155.47	96.4	123.2	330.0	311.8	18.23	18.097	
3,400.0	3,384.1	3,387.2	3,381.7	10.6	9.7	156.26	97.8	124.4	344.0	325.2	18.81	18.292	
3,500.0	3,483.1	3,488.4	3,482.9	10.9	9.8	157.15	97.9	124.6	356.9	337.7	19.27	18.524	
3,527.1	3,510.0	3,515.2	3,509.8	11.0	9.8	157.38	97.9	124.6	360.4	341.0	19.38	18.598	
3,600.0	3,582.2	3,587.5	3,582.0	11.3	9.9	157.99	97.9	124.6	369.4	349.7	19.71	18.739	
3,700.0	3,681.5	3,686.8	3,681.3	11.7	10.0	158.70	97.9	124.6	380.4	360.2	20.19	18.837	
3,800.0	3,781.0	3,786.2	3,780.8	12.1	10.0	159.27	97.9	124.6	389.8	369.1	20.67	18.859	
3,900.0	3,880.7	3,885.9	3,880.4	12.4	10.1	159.72	97.9	124.6	397.6	376.4	21.13	18.813	
4,000.0	3,980.4	3,985.7	3,980.2	12.8	10.2	160.06	97.9	124.6	403.7	382.1	21.58	18.705	
4,100.0	4,080.3	4,085.6	4,080.1	13.1	10.3	160.31	97.9	124.6	408.3	386.3	22.01	18.546	
4,200.0	4,180.3	4,185.5	4,180.0	13.4	10.4	160.47	97.9	124.6	411.2	388.8	22.42	18.343	
4,300.0	4,280.3	4,285.5	4,280.0	13.6	10.5	160.53	97.9	124.6	412.5	389.7	22.76	18.120	
4,327.1	4,307.4	4,312.6	4,307.2	13.7	10.5	92.54	97.9	124.6	412.5	389.7	22.81	18.084	
4,400.0	4,380.3	4,385.5	4,380.0	13.7	10.5	92.54	97.9	124.6	412.5	389.6	22.90	18.013	
4,500.0	4,480.3	4,485.5	4,480.0	13.8	10.6	92.54	97.9	124.6	412.5	389.5	23.05	17.899	
4,600.0	4,580.3	4,585.5	4,580.0	13.8	10.7	92.54	97.9	124.6	412.5	389.3	23.19	17.786	
4,700.0	4,680.3	4,685.5	4,680.0	13.9	10.8	92.54	97.9	124.6	412.5	389.2	23.34	17.675	
4,800.0	4,780.3	4,785.5	4,780.0	13.9	10.9	92.54	97.9	124.6	412.5	389.0	23.49	17.565	
4,900.0	4,880.3	4,885.5	4,880.0	14.0	11.0	92.54	97.9	124.6	412.5	388.9	23.63	17.456	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,980.3	4,985.5	4,980.0	14.0	11.0	92.54	97.9	124.6	412.5	388.7	23.78	17.349	
5,100.0	5,080.3	5,085.5	5,080.0	14.1	11.1	92.54	97.9	124.6	412.5	388.6	23.92	17.242	
5,200.0	5,180.3	5,185.5	5,180.0	14.2	11.2	92.54	97.9	124.6	412.5	388.4	24.07	17.137	
5,300.0	5,280.3	5,285.5	5,280.0	14.2	11.3	92.54	97.9	124.6	412.5	388.3	24.22	17.033	
5,400.0	5,380.3	5,385.5	5,380.0	14.3	11.4	92.54	97.9	124.6	412.5	388.2	24.37	16.930	
5,500.0	5,480.3	5,485.5	5,480.0	14.4	11.5	92.54	97.9	124.6	412.5	388.0	24.51	16.828	
5,600.0	5,580.3	5,585.5	5,580.0	14.4	11.5	92.54	97.9	124.6	412.5	387.9	24.66	16.728	
5,700.0	5,680.3	5,685.5	5,680.0	14.5	11.6	92.54	97.9	124.6	412.5	387.7	24.81	16.628	
5,800.0	5,780.3	5,785.5	5,780.0	14.5	11.7	92.54	97.9	124.6	412.5	387.6	24.96	16.529	
5,900.0	5,880.3	5,885.5	5,880.0	14.6	11.8	92.54	97.9	124.6	412.5	387.4	25.10	16.432	
6,000.0	5,980.3	5,985.5	5,980.0	14.7	11.9	92.54	97.9	124.6	412.5	387.3	25.25	16.335	
6,100.0	6,080.3	6,085.5	6,080.0	14.7	12.0	92.54	97.9	124.6	412.5	387.1	25.40	16.240	
6,200.0	6,180.3	6,185.5	6,180.0	14.8	12.0	92.54	97.9	124.6	412.5	387.0	25.55	16.146	
6,300.0	6,280.3	6,285.5	6,280.0	14.8	12.1	92.54	97.9	124.6	412.5	386.8	25.70	16.052	
6,400.0	6,380.3	6,385.5	6,380.0	14.9	12.2	92.54	97.9	124.6	412.5	386.7	25.85	15.960	
6,500.0	6,480.3	6,485.5	6,480.0	15.0	12.3	92.54	97.9	124.6	412.5	386.5	26.00	15.868	
6,600.0	6,580.3	6,585.5	6,580.0	15.0	12.4	92.54	97.9	124.6	412.5	386.4	26.15	15.778	
6,700.0	6,680.3	6,685.5	6,680.0	15.1	12.5	92.54	97.9	124.6	412.5	386.2	26.30	15.688	
6,800.0	6,780.3	6,785.5	6,780.0	15.2	12.5	92.54	97.9	124.6	412.5	386.1	26.44	15.599	
6,900.0	6,880.3	6,885.5	6,880.0	15.2	12.6	92.54	97.9	124.6	412.5	385.9	26.59	15.512	
7,000.0	6,980.3	6,985.5	6,980.0	15.3	12.7	92.54	97.9	124.6	412.5	385.8	26.74	15.425	
7,100.0	7,080.3	7,085.5	7,080.0	15.4	12.8	92.54	97.9	124.6	412.5	385.6	26.89	15.339	
7,200.0	7,180.3	7,185.5	7,180.0	15.4	12.9	92.54	97.9	124.6	412.5	385.5	27.04	15.254	
7,300.0	7,280.3	7,285.5	7,280.0	15.5	13.0	92.54	97.9	124.6	412.5	385.3	27.19	15.170	
7,400.0	7,380.3	7,385.5	7,380.0	15.5	13.0	92.54	97.9	124.6	412.5	385.2	27.34	15.086	
7,500.0	7,480.3	7,485.5	7,480.0	15.6	13.1	92.54	97.9	124.6	412.5	385.0	27.49	15.004	
7,600.0	7,580.3	7,585.5	7,580.0	15.7	13.2	92.54	97.9	124.6	412.5	384.9	27.65	14.922	
7,700.0	7,680.3	7,685.5	7,680.0	15.7	13.3	92.54	97.9	124.6	412.5	384.7	27.80	14.841	
7,800.0	7,780.3	7,785.5	7,780.0	15.8	13.4	92.54	97.9	124.6	412.5	384.6	27.95	14.761	
7,900.0	7,880.3	7,885.5	7,880.0	15.9	13.5	92.54	97.9	124.6	412.5	384.4	28.10	14.682	
8,000.0	7,980.3	7,985.5	7,980.0	15.9	13.5	92.54	97.9	124.6	412.5	384.3	28.25	14.603	
8,100.0	8,080.3	8,085.5	8,080.0	16.0	13.6	92.54	97.9	124.6	412.5	384.1	28.40	14.526	
8,200.0	8,180.3	8,185.5	8,180.0	16.1	13.7	92.54	97.9	124.6	412.5	384.0	28.55	14.449	
8,300.0	8,280.3	8,285.5	8,280.0	16.1	13.8	92.54	97.9	124.6	412.5	383.8	28.70	14.373	
8,400.0	8,380.3	8,385.5	8,380.0	16.2	13.9	92.54	97.9	124.6	412.5	383.7	28.85	14.297	
8,500.0	8,480.3	8,485.5	8,480.0	16.3	14.0	92.54	97.9	124.6	412.5	383.5	29.00	14.223	
8,600.0	8,580.3	8,585.5	8,580.0	16.3	14.0	92.54	97.9	124.6	412.5	383.4	29.16	14.149	
8,700.0	8,680.3	8,685.5	8,680.0	16.4	14.1	92.54	97.9	124.6	412.5	383.2	29.31	14.075	
8,800.0	8,780.3	8,785.5	8,780.0	16.5	14.2	92.54	97.9	124.6	412.5	383.1	29.46	14.003	
8,900.0	8,880.3	8,885.5	8,880.0	16.5	14.3	92.54	97.9	124.6	412.5	382.9	29.61	13.931	
9,000.0	8,980.3	8,985.5	8,980.0	16.6	14.4	92.54	97.9	124.6	412.5	382.8	29.76	13.860	
9,100.0	9,080.3	9,085.5	9,080.0	16.7	14.5	92.54	97.9	124.6	412.5	382.6	29.92	13.790	
9,200.0	9,180.3	9,185.5	9,180.0	16.7	14.5	92.54	97.9	124.6	412.5	382.5	30.07	13.720	
9,300.0	9,280.3	9,285.5	9,280.0	16.8	14.6	92.54	97.9	124.6	412.5	382.3	30.22	13.651	
9,400.0	9,380.3	9,385.5	9,380.0	16.9	14.7	92.54	97.9	124.6	412.5	382.1	30.37	13.582	
9,500.0	9,480.3	9,485.5	9,480.0	16.9	14.8	92.54	97.9	124.6	412.5	382.0	30.52	13.514	
9,600.0	9,580.3	9,585.5	9,580.0	17.0	14.9	92.54	97.9	124.6	412.5	381.8	30.68	13.447	
9,700.0	9,680.3	9,685.5	9,680.0	17.1	14.9	92.54	97.9	124.6	412.5	381.7	30.83	13.381	
9,800.0	9,780.3	9,785.5	9,780.0	17.1	15.0	92.54	97.9	124.6	412.5	381.5	30.98	13.315	
9,900.0	9,880.3	9,885.5	9,880.0	17.2	15.1	92.54	97.9	124.6	412.5	381.4	31.14	13.249	
10,000.0	9,980.3	9,985.5	9,980.0	17.3	15.2	92.54	97.9	124.6	412.5	381.2	31.29	13.184	
10,100.0	10,080.3	10,085.5	10,080.0	17.3	15.3	92.54	97.9	124.6	412.5	381.1	31.44	13.120	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.0	10,180.3	10,185.5	10,180.0	17.4	15.4	92.54	97.9	124.6	412.5	380.9	31.59	13.057	
10,300.0	10,280.3	10,285.5	10,280.0	17.5	15.4	92.54	97.9	124.6	412.5	380.8	31.75	12.994	
10,400.0	10,380.3	10,385.5	10,380.0	17.5	15.5	92.54	97.9	124.6	412.5	380.6	31.90	12.931	
10,500.0	10,480.3	10,485.5	10,480.0	17.6	15.6	92.54	97.9	124.6	412.5	380.5	32.05	12.870	
10,600.0	10,580.3	10,585.5	10,580.0	17.7	15.7	92.54	97.9	124.6	412.5	380.3	32.21	12.808	
10,700.0	10,680.3	10,685.5	10,680.0	17.8	15.8	92.54	97.9	124.6	412.5	380.2	32.36	12.748	
10,800.0	10,780.3	10,785.5	10,780.0	17.8	15.9	92.54	97.9	124.6	412.5	380.0	32.51	12.687	
10,900.0	10,880.3	10,885.5	10,880.0	17.9	15.9	92.54	97.9	124.6	412.5	379.9	32.67	12.628	
11,000.0	10,980.3	10,985.5	10,980.0	18.0	16.0	92.54	97.9	124.6	412.5	379.7	32.82	12.569	
11,100.0	11,080.3	11,085.5	11,080.0	18.0	16.1	92.54	97.9	124.6	412.5	379.5	32.98	12.510	
11,149.8	11,130.0	11,135.3	11,129.8	18.0	16.1	92.54	97.9	124.6	412.5	379.5	33.03	12.489	
11,200.0	11,180.2	11,185.4	11,180.0	18.1	16.2	93.02	97.9	124.6	412.6	379.5	33.09	12.472	
11,250.0	11,229.8	11,235.0	11,229.5	18.1	16.2	93.88	97.9	124.6	413.0	379.9	33.15	12.460	
11,300.0	11,278.6	11,283.8	11,278.3	18.1	16.3	95.25	97.9	124.6	413.9	380.7	33.22	12.461	
11,350.0	11,326.2	11,333.6	11,328.1	18.1	16.3	97.09	98.4	124.6	415.6	382.3	33.28	12.485	
11,400.0	11,372.4	11,387.0	11,381.3	18.1	16.4	99.07	103.0	124.6	417.8	384.4	33.35	12.527	
11,450.0	11,416.7	11,442.2	11,435.5	18.2	16.4	100.99	113.0	124.6	420.5	387.0	33.44	12.575	
11,500.0	11,458.9	11,499.1	11,490.3	18.2	16.5	102.85	128.7	124.5	423.5	390.0	33.56	12.619	
11,550.0	11,498.5	11,558.0	11,544.9	18.2	16.5	104.62	150.5	124.4	426.9	393.1	33.75	12.649	
11,600.0	11,535.3	11,618.9	11,598.7	18.3	16.6	106.28	178.9	124.3	430.3	396.3	34.00	12.656	
11,650.0	11,569.1	11,681.8	11,650.9	18.3	16.7	107.82	214.0	124.2	433.9	399.5	34.35	12.632	
11,700.0	11,599.5	11,746.6	11,700.3	18.3	16.8	109.20	256.0	124.1	437.3	402.5	34.77	12.576	
11,750.0	11,626.4	11,813.4	11,745.8	18.4	16.9	110.41	304.8	123.9	440.4	405.2	35.27	12.489	
11,800.0	11,649.4	11,881.9	11,786.3	18.4	17.0	111.43	360.0	123.7	443.2	407.4	35.80	12.379	
11,850.0	11,668.5	11,951.8	11,820.6	18.5	17.1	112.23	420.9	123.5	445.5	409.1	36.35	12.256	
11,900.0	11,683.5	12,022.9	11,847.6	18.5	17.1	112.79	486.6	123.3	447.1	410.2	36.86	12.130	
11,950.0	11,694.3	12,094.8	11,866.4	18.6	17.2	113.10	556.0	123.1	448.0	410.7	37.29	12.014	
12,000.0	11,700.8	12,167.0	11,876.3	18.6	17.2	113.16	627.4	122.8	448.2	410.5	37.62	11.914	
12,049.8	11,703.0	12,230.1	11,878.0	18.7	17.3	113.04	690.5	122.6	447.8	409.9	37.82	11.840	
12,100.0	11,703.0	12,280.4	11,878.0	18.8	17.3	113.04	740.7	122.5	447.8	409.7	38.02	11.777	
12,200.0	11,703.0	12,380.4	11,878.0	19.0	17.4	113.04	840.7	122.1	447.8	409.3	38.48	11.637	
12,300.0	11,703.0	12,480.4	11,878.0	19.2	17.6	113.04	940.7	121.8	447.8	408.8	38.99	11.485	
12,400.0	11,703.0	12,580.4	11,878.0	19.4	17.8	113.04	1,040.7	121.5	447.8	408.2	39.55	11.321	
12,500.0	11,703.0	12,680.4	11,878.0	19.7	18.0	113.04	1,140.7	121.1	447.8	407.6	40.16	11.149	
12,600.0	11,703.0	12,780.4	11,878.0	20.0	18.3	113.04	1,240.7	120.8	447.8	406.9	40.82	10.969	
12,700.0	11,703.0	12,880.4	11,878.0	20.4	18.7	113.04	1,340.7	120.5	447.8	406.2	41.53	10.782	
12,800.0	11,703.0	12,980.4	11,878.0	20.7	19.1	113.04	1,440.7	120.1	447.8	405.5	42.27	10.592	
12,900.0	11,703.0	13,080.4	11,878.0	21.1	19.5	113.04	1,540.7	119.8	447.8	404.7	43.06	10.398	
13,000.0	11,703.0	13,180.4	11,878.0	21.5	19.9	113.04	1,640.7	119.5	447.8	403.9	43.89	10.202	
13,100.0	11,703.0	13,280.4	11,878.0	22.0	20.4	113.04	1,740.7	119.1	447.8	403.0	44.75	10.005	
13,200.0	11,703.0	13,380.4	11,878.0	22.4	20.9	113.04	1,840.7	118.8	447.8	402.1	45.65	9.809	
13,300.0	11,703.0	13,480.4	11,878.0	22.9	21.4	113.04	1,940.7	118.5	447.8	401.2	46.58	9.613	
13,400.0	11,703.0	13,580.4	11,878.0	23.4	21.9	113.04	2,040.7	118.1	447.8	400.2	47.54	9.419	
13,500.0	11,703.0	13,680.4	11,878.0	23.9	22.5	113.04	2,140.7	117.8	447.8	399.2	48.52	9.227	
13,600.0	11,703.0	13,780.4	11,878.0	24.4	23.0	113.04	2,240.7	117.5	447.8	398.2	49.54	9.038	
13,700.0	11,703.0	13,880.4	11,878.0	24.9	23.6	113.04	2,340.7	117.2	447.8	397.2	50.58	8.853	
13,800.0	11,703.0	13,980.4	11,878.0	25.5	24.2	113.04	2,440.7	116.8	447.8	396.1	51.64	8.670	
13,900.0	11,703.0	14,080.4	11,878.0	26.0	24.7	113.04	2,540.7	116.5	447.8	395.0	52.73	8.492	
14,000.0	11,703.0	14,180.4	11,878.0	26.6	25.3	113.04	2,640.7	116.2	447.8	393.9	53.83	8.318	
14,100.0	11,703.0	14,280.4	11,878.0	27.2	25.9	113.04	2,740.7	115.8	447.8	392.8	54.96	8.147	
14,200.0	11,703.0	14,380.4	11,878.0	27.8	26.6	113.04	2,840.7	115.5	447.8	391.6	56.10	7.981	
14,300.0	11,703.0	14,480.4	11,878.0	28.4	27.2	113.04	2,940.7	115.2	447.8	390.5	57.26	7.819	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,400.0	11,703.0	14,580.4	11,878.0	29.0	27.8	113.04	3,040.7	114.8	447.7	389.3	58.44	7.662	
14,500.0	11,703.0	14,680.4	11,878.0	29.6	28.5	113.04	3,140.7	114.5	447.7	388.1	59.63	7.509	
14,600.0	11,703.0	14,780.4	11,878.0	30.2	29.1	113.04	3,240.7	114.2	447.7	386.9	60.84	7.360	
14,700.0	11,703.0	14,880.4	11,878.0	30.8	29.7	113.04	3,340.7	113.8	447.7	385.7	62.06	7.215	
14,800.0	11,703.0	14,980.4	11,878.0	31.4	30.4	113.04	3,440.7	113.5	447.7	384.5	63.29	7.075	
14,900.0	11,703.0	15,080.4	11,878.0	32.1	31.1	113.04	3,540.7	113.2	447.7	383.2	64.53	6.938	
15,000.0	11,703.0	15,180.4	11,878.0	32.7	31.7	113.04	3,640.7	112.8	447.7	382.0	65.79	6.806	
15,100.0	11,703.0	15,280.4	11,878.0	33.4	32.4	113.04	3,740.7	112.5	447.7	380.7	67.06	6.677	
15,200.0	11,703.0	15,380.4	11,878.0	34.0	33.1	113.04	3,840.7	112.2	447.7	379.4	68.33	6.552	
15,300.0	11,703.0	15,480.4	11,878.0	34.7	33.7	113.04	3,940.7	111.8	447.7	378.1	69.62	6.431	
15,400.0	11,703.0	15,580.4	11,878.0	35.3	34.4	113.04	4,040.7	111.5	447.7	376.8	70.91	6.314	
15,500.0	11,703.0	15,680.4	11,878.0	36.0	35.1	113.04	4,140.7	111.2	447.7	375.5	72.22	6.200	
15,600.0	11,703.0	15,780.4	11,878.0	36.7	35.8	113.04	4,240.7	110.8	447.7	374.2	73.53	6.089	
15,700.0	11,703.0	15,880.4	11,878.0	37.3	36.5	113.04	4,340.7	110.5	447.7	372.9	74.85	5.982	
15,800.0	11,703.0	15,980.4	11,878.0	38.0	37.2	113.04	4,440.7	110.2	447.7	371.6	76.17	5.878	
15,900.0	11,703.0	16,080.4	11,878.0	38.7	37.9	113.04	4,540.7	109.8	447.7	370.2	77.51	5.777	
16,000.0	11,703.0	16,180.4	11,878.0	39.4	38.6	113.04	4,640.7	109.5	447.7	368.9	78.85	5.679	
16,100.0	11,703.0	16,280.4	11,878.0	40.1	39.3	113.04	4,740.7	109.2	447.7	367.5	80.19	5.583	
16,200.0	11,703.0	16,380.4	11,878.0	40.7	40.0	113.04	4,840.7	108.8	447.7	366.2	81.54	5.491	
16,300.0	11,703.0	16,480.4	11,878.0	41.4	40.7	113.04	4,940.7	108.5	447.7	364.8	82.90	5.401	
16,400.0	11,703.0	16,580.4	11,878.0	42.1	41.4	113.04	5,040.7	108.2	447.7	363.5	84.26	5.314	
16,500.0	11,703.0	16,680.4	11,878.0	42.8	42.1	113.04	5,140.7	107.8	447.7	362.1	85.63	5.229	
16,600.0	11,703.0	16,780.4	11,878.0	43.5	42.8	113.04	5,240.7	107.5	447.7	360.7	87.00	5.146	
16,700.0	11,703.0	16,880.4	11,878.0	44.2	43.5	113.04	5,340.7	107.2	447.7	359.4	88.38	5.066	
16,800.0	11,703.0	16,980.4	11,878.0	44.9	44.2	113.04	5,440.7	106.9	447.7	358.0	89.76	4.988	
16,900.0	11,703.0	17,080.4	11,878.0	45.6	44.9	113.04	5,540.7	106.5	447.7	356.6	91.14	4.912	
17,000.0	11,703.0	17,180.4	11,878.0	46.3	45.7	113.04	5,640.7	106.2	447.7	355.2	92.53	4.839	
17,100.0	11,703.0	17,280.4	11,878.0	47.0	46.4	113.04	5,740.7	105.9	447.7	353.8	93.92	4.767	
17,200.0	11,703.0	17,380.4	11,878.0	47.7	47.1	113.04	5,840.7	105.5	447.7	352.4	95.32	4.697	
17,300.0	11,703.0	17,480.4	11,878.0	48.5	47.8	113.04	5,940.7	105.2	447.7	351.0	96.72	4.629	
17,400.0	11,703.0	17,580.4	11,878.0	49.2	48.5	113.04	6,040.7	104.9	447.7	349.6	98.12	4.563	
17,500.0	11,703.0	17,680.4	11,878.0	49.9	49.3	113.04	6,140.7	104.5	447.7	348.2	99.53	4.498	
17,600.0	11,703.0	17,780.4	11,878.0	50.6	50.0	113.04	6,240.7	104.2	447.7	346.8	100.94	4.436	
17,700.0	11,703.0	17,880.4	11,878.0	51.3	50.7	113.04	6,340.7	103.9	447.7	345.4	102.35	4.374	
17,800.0	11,703.0	17,980.4	11,878.0	52.0	51.4	113.04	6,440.7	103.5	447.7	344.0	103.77	4.315	
17,900.0	11,703.0	18,080.4	11,878.0	52.8	52.2	113.04	6,540.7	103.2	447.7	342.5	105.19	4.257	
18,000.0	11,703.0	18,180.4	11,878.0	53.5	52.9	113.04	6,640.7	102.9	447.7	341.1	106.61	4.200	
18,100.0	11,703.0	18,280.4	11,878.0	54.2	53.6	113.04	6,740.7	102.5	447.7	339.7	108.03	4.144	
18,200.0	11,703.0	18,380.4	11,878.0	54.9	54.4	113.04	6,840.7	102.2	447.7	338.3	109.45	4.090	
18,300.0	11,703.0	18,480.4	11,878.0	55.6	55.1	113.04	6,940.7	101.9	447.7	336.8	110.88	4.038	
18,400.0	11,703.0	18,580.4	11,878.0	56.4	55.8	113.04	7,040.7	101.5	447.7	335.4	112.31	3.986	
18,500.0	11,703.0	18,680.4	11,878.0	57.1	56.6	113.04	7,140.7	101.2	447.7	334.0	113.74	3.936	
18,600.0	11,703.0	18,780.4	11,878.0	57.8	57.3	113.04	7,240.7	100.9	447.7	332.5	115.18	3.887	
18,700.0	11,703.0	18,880.4	11,878.0	58.5	58.0	113.04	7,340.7	100.5	447.7	331.1	116.61	3.839	
18,800.0	11,703.0	18,980.4	11,878.0	59.3	58.8	113.04	7,440.7	100.2	447.7	329.7	118.05	3.793	
18,900.0	11,703.0	19,080.4	11,878.0	60.0	59.5	113.04	7,540.7	99.9	447.7	328.2	119.49	3.747	
19,000.0	11,703.0	19,180.4	11,878.0	60.7	60.2	113.04	7,640.7	99.5	447.7	326.8	120.93	3.702	
19,100.0	11,703.0	19,280.4	11,878.0	61.5	61.0	113.04	7,740.7	99.2	447.7	325.3	122.38	3.659	
19,200.0	11,703.0	19,380.4	11,878.0	62.2	61.7	113.04	7,840.7	98.9	447.7	323.9	123.82	3.616	
19,300.0	11,703.0	19,480.4	11,878.0	62.9	62.5	113.04	7,940.7	98.5	447.7	322.4	125.27	3.574	
19,400.0	11,703.0	19,580.4	11,878.0	63.7	63.2	113.04	8,040.7	98.2	447.7	321.0	126.71	3.533	
19,500.0	11,703.0	19,680.4	11,878.0	64.4	63.9	113.04	8,140.7	97.9	447.7	319.6	128.16	3.493	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,600.0	11,703.0	19,780.4	11,878.0	65.1	64.7	113.04	8,240.7	97.5	447.7	318.1	129.61	3.454	
19,700.0	11,703.0	19,880.4	11,878.0	65.9	65.4	113.04	8,340.7	97.2	447.7	316.6	131.07	3.416	
19,800.0	11,703.0	19,980.4	11,878.0	66.6	66.2	113.04	8,440.7	96.9	447.7	315.2	132.52	3.378	
19,900.0	11,703.0	20,080.4	11,878.0	67.3	66.9	113.04	8,540.7	96.5	447.7	313.7	133.97	3.342	
20,000.0	11,703.0	20,180.4	11,878.0	68.1	67.6	113.04	8,640.7	96.2	447.7	312.3	135.43	3.306	
20,100.0	11,703.0	20,280.4	11,878.0	68.8	68.4	113.04	8,740.7	95.9	447.7	310.8	136.89	3.271	
20,200.0	11,703.0	20,380.4	11,878.0	69.6	69.1	113.04	8,840.7	95.6	447.7	309.4	138.35	3.236	
20,300.0	11,703.0	20,480.4	11,878.0	70.3	69.9	113.04	8,940.7	95.2	447.7	307.9	139.80	3.202	
20,400.0	11,703.0	20,580.4	11,878.0	71.0	70.6	113.04	9,040.7	94.9	447.7	306.4	141.27	3.169	
20,500.0	11,703.0	20,680.4	11,878.0	71.8	71.4	113.04	9,140.7	94.6	447.7	305.0	142.73	3.137	
20,600.0	11,703.0	20,780.4	11,878.0	72.5	72.1	113.04	9,240.7	94.2	447.7	303.5	144.19	3.105	
20,700.0	11,703.0	20,880.4	11,878.0	73.3	72.9	113.04	9,340.7	93.9	447.7	302.1	145.65	3.074	
20,800.0	11,703.0	20,980.4	11,878.0	74.0	73.6	113.04	9,440.7	93.6	447.7	300.6	147.12	3.043	
20,900.0	11,703.0	21,080.4	11,878.0	74.7	74.4	113.04	9,540.7	93.2	447.7	299.1	148.58	3.013	
21,000.0	11,703.0	21,180.4	11,878.0	75.5	75.1	113.04	9,640.7	92.9	447.7	297.7	150.05	2.984	
21,100.0	11,703.0	21,280.4	11,878.0	76.2	75.8	113.04	9,740.7	92.6	447.7	296.2	151.52	2.955	
21,200.0	11,703.0	21,380.4	11,878.0	77.0	76.6	113.04	9,840.7	92.2	447.7	294.7	152.98	2.926	
21,300.0	11,703.0	21,480.4	11,878.0	77.7	77.3	113.04	9,940.7	91.9	447.7	293.2	154.45	2.899	
21,400.0	11,703.0	21,580.4	11,878.0	78.5	78.1	113.04	10,040.7	91.6	447.7	291.8	155.92	2.871	
21,500.0	11,703.0	21,680.4	11,878.0	79.2	78.8	113.04	10,140.7	91.2	447.7	290.3	157.39	2.844	
21,600.0	11,703.0	21,780.4	11,878.0	79.9	79.6	113.04	10,240.7	90.9	447.7	288.8	158.86	2.818	
21,700.0	11,703.0	21,880.4	11,878.0	80.7	80.3	113.04	10,340.7	90.6	447.7	287.4	160.34	2.792	
21,800.0	11,703.0	21,980.4	11,878.0	81.4	81.1	113.04	10,440.7	90.2	447.7	285.9	161.81	2.767	
21,900.0	11,703.0	22,080.4	11,878.0	82.2	81.8	113.04	10,540.7	89.9	447.7	284.4	163.28	2.742	
22,000.0	11,703.0	22,180.4	11,878.0	82.9	82.6	113.04	10,640.7	89.6	447.7	282.9	164.76	2.717	
22,063.0	11,703.0	22,243.4	11,878.0	83.4	83.1	113.04	10,703.7	89.4	447.7	282.0	165.68	2.702	
22,100.0	11,703.0	22,280.4	11,878.0	83.7	83.3	113.04	10,740.7	89.2	447.7	281.5	166.23	2.693	
22,113.0	11,703.0	22,293.4	11,878.0	83.8	83.4	113.04	10,753.7	89.2	447.7	281.3	166.42	2.690 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11165-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	90.41	-0.4	59.9	59.9				
100.0	100.0	99.8	99.8	3.0	3.0	90.41	-0.4	59.9	59.9	53.4	6.52	9.192	
200.0	200.0	199.8	199.8	3.2	3.2	90.41	-0.4	59.9	59.9	53.2	6.76	8.865	
300.0	300.0	299.8	299.8	3.3	3.3	90.41	-0.4	59.9	59.9	52.9	6.99	8.572	
400.0	400.0	399.8	399.8	3.4	3.4	90.41	-0.4	59.9	59.9	52.7	7.21	8.307	
500.0	500.0	499.8	499.8	3.5	3.5	90.41	-0.4	59.9	59.9	52.5	7.43	8.065	
600.0	600.0	599.8	599.8	3.7	3.7	90.41	-0.4	59.9	59.9	52.3	7.64	7.844	
700.0	700.0	699.8	699.8	3.8	3.8	90.41	-0.4	59.9	59.9	52.1	7.84	7.641	
800.0	800.0	799.8	799.8	3.9	3.9	90.41	-0.4	59.9	59.9	51.9	8.04	7.453	
900.0	900.0	899.8	899.8	4.0	4.0	90.41	-0.4	59.9	59.9	51.7	8.23	7.278	
1,000.0	1,000.0	999.8	999.8	4.2	4.2	90.41	-0.4	59.9	59.9	51.5	8.42	7.115	
1,100.0	1,100.0	1,099.8	1,099.8	4.3	4.3	90.41	-0.4	59.9	59.9	51.3	8.61	6.963	
1,200.0	1,200.0	1,199.8	1,199.8	4.4	4.4	90.41	-0.4	59.9	59.9	51.1	8.79	6.821	
1,300.0	1,300.0	1,299.8	1,299.8	4.5	4.5	90.41	-0.4	59.9	59.9	51.0	8.96	6.687	
1,400.0	1,400.0	1,399.8	1,399.8	4.6	4.6	90.41	-0.4	59.9	59.9	50.8	9.13	6.561	
1,500.0	1,500.0	1,499.8	1,499.8	4.8	4.8	90.41	-0.4	59.9	59.9	50.6	9.30	6.442	CC, ES
1,600.0	1,600.0	1,598.6	1,598.5	4.9	4.9	158.22	0.4	60.9	62.5	53.0	9.58	6.524	
1,700.0	1,699.8	1,696.9	1,696.9	5.1	5.0	157.71	2.8	63.8	70.3	60.3	10.03	7.014	
1,800.0	1,799.5	1,794.6	1,794.3	5.3	5.2	157.07	6.9	68.6	83.3	72.8	10.49	7.944	
1,900.0	1,898.7	1,891.1	1,890.4	5.6	5.4	156.42	12.4	75.3	101.4	90.5	10.97	9.248	
2,000.0	1,997.7	1,986.5	1,985.2	5.8	5.7	155.68	19.5	83.6	123.1	111.7	11.40	10.800	
2,100.0	2,096.8	2,081.3	2,079.1	6.1	5.9	154.80	27.4	93.7	146.6	134.8	11.78	12.447	
2,200.0	2,195.8	2,176.2	2,173.1	6.4	6.1	154.93	33.2	105.4	171.6	159.4	12.19	14.079	
2,300.0	2,294.8	2,272.8	2,268.8	6.7	6.3	155.30	38.3	117.9	197.2	184.5	12.70	15.528	
2,400.0	2,393.8	2,369.5	2,364.5	7.0	6.6	155.59	43.3	130.4	222.8	209.5	13.25	16.810	
2,500.0	2,492.9	2,466.2	2,460.2	7.3	6.9	155.82	48.4	142.9	248.4	234.5	13.83	17.960	
2,600.0	2,591.9	2,562.8	2,556.0	7.6	7.2	156.00	53.4	155.3	273.9	259.5	14.42	18.992	
2,700.0	2,690.9	2,659.5	2,651.7	8.0	7.5	156.16	58.4	167.8	299.5	284.5	15.04	19.920	
2,800.0	2,789.9	2,756.2	2,747.4	8.3	7.9	156.29	63.5	180.3	325.1	309.4	15.66	20.755	
2,900.0	2,889.0	2,852.8	2,843.2	8.7	8.2	156.40	68.5	192.8	350.7	334.4	16.30	21.507	
3,000.0	2,988.0	2,949.5	2,938.9	9.0	8.6	156.49	73.6	205.2	376.3	359.3	16.96	22.188	
3,100.0	3,087.0	3,046.2	3,034.6	9.4	8.9	156.58	78.6	217.7	401.8	384.2	17.62	22.804	
3,200.0	3,186.1	3,142.9	3,130.3	9.8	9.3	156.65	83.6	230.2	427.4	409.1	18.29	23.364	
3,300.0	3,285.1	3,239.5	3,226.1	10.2	9.6	156.71	88.7	242.7	453.0	434.0	18.98	23.873	
3,400.0	3,384.1	3,336.2	3,321.8	10.6	10.0	156.77	93.7	255.1	478.6	458.9	19.66	24.338	
3,500.0	3,483.1	3,432.9	3,417.5	10.9	10.4	156.83	98.8	267.6	504.2	483.8	20.36	24.764	
3,527.1	3,510.0	3,459.1	3,443.5	11.0	10.5	156.84	100.1	271.0	511.1	490.6	20.54	24.890	
3,600.0	3,582.2	3,529.6	3,513.4	11.3	10.8	156.93	103.8	280.1	529.4	508.3	21.03	25.172	
3,700.0	3,681.5	3,626.8	3,609.6	11.7	11.2	156.98	108.9	292.6	553.1	531.3	21.73	25.453	
3,800.0	3,781.0	3,724.3	3,706.1	12.1	11.5	156.95	114.0	305.2	575.2	552.7	22.42	25.652	
3,900.0	3,880.7	3,822.2	3,803.0	12.4	11.9	156.86	119.1	317.8	595.7	572.6	23.11	25.778	
4,000.0	3,980.4	3,920.3	3,900.2	12.8	12.3	156.71	124.2	330.5	614.7	590.9	23.79	25.842	
4,100.0	4,080.3	4,018.7	3,997.7	13.1	12.7	156.51	129.3	343.2	632.1	607.7	24.45	25.852	
4,200.0	4,180.3	4,117.4	4,095.4	13.4	13.1	156.25	134.4	355.9	648.0	622.9	25.09	25.822	
4,300.0	4,280.3	4,216.3	4,193.3	13.6	13.5	155.94	139.6	368.7	662.3	636.6	25.70	25.772	
4,327.1	4,307.4	4,243.2	4,219.9	13.7	13.6	87.84	141.0	372.2	665.9	640.1	25.82	25.785	
4,400.0	4,380.3	4,315.3	4,291.4	13.7	13.9	87.55	144.8	381.5	675.4	649.3	26.14	25.840	
4,500.0	4,480.3	4,414.3	4,389.5	13.8	14.3	87.16	149.9	394.3	688.6	662.0	26.60	25.889	
4,600.0	4,580.3	4,513.4	4,487.5	13.8	14.8	86.79	155.1	407.0	701.8	674.7	27.06	25.931	
4,700.0	4,680.3	4,612.4	4,585.6	13.9	15.2	86.43	160.3	419.8	715.0	687.4	27.54	25.965	
4,800.0	4,780.3	4,711.4	4,683.6	13.9	15.6	86.09	165.4	432.6	728.2	700.2	28.02	25.993	
4,900.0	4,880.3	4,810.4	4,781.7	14.0	16.0	85.75	170.6	445.4	741.4	712.9	28.50	26.015	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11165-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,980.3	4,909.5	4,879.8	14.0	16.4	85.43	175.7	458.1	754.7	725.7	28.99	26.032	
5,100.0	5,080.3	5,008.5	4,977.8	14.1	16.8	85.12	180.9	470.9	768.0	738.5	29.49	26.045	
5,200.0	5,180.3	5,111.5	5,079.8	14.2	17.2	84.81	186.2	484.1	781.3	751.3	30.00	26.041	
5,300.0	5,280.3	5,225.7	5,193.2	14.2	17.7	84.51	191.6	497.3	793.2	762.6	30.60	25.918	
5,400.0	5,380.3	5,340.5	5,307.4	14.3	18.2	84.27	196.0	508.4	803.2	772.0	31.17	25.765	
5,500.0	5,480.3	5,455.8	5,422.2	14.4	18.6	84.08	199.7	517.4	811.3	779.6	31.72	25.579	
5,600.0	5,580.3	5,571.4	5,537.6	14.4	19.0	83.93	202.5	524.3	817.4	785.2	32.22	25.368	
5,700.0	5,680.3	5,687.2	5,653.3	14.5	19.4	83.83	204.4	529.0	821.7	789.0	32.69	25.136	
5,800.0	5,780.3	5,803.2	5,769.3	14.5	19.7	83.78	205.4	531.5	824.0	790.9	33.09	24.902	
5,900.0	5,880.3	5,914.0	5,880.1	14.6	19.8	83.77	205.6	532.0	824.4	791.1	33.26	24.788	
6,000.0	5,980.3	6,014.0	5,980.1	14.7	19.9	83.77	205.6	532.0	824.4	791.0	33.37	24.705	
6,100.0	6,080.3	6,114.0	6,080.1	14.7	19.9	83.77	205.6	532.0	824.4	790.9	33.47	24.628	
6,200.0	6,180.3	6,214.0	6,180.1	14.8	20.0	83.77	205.6	532.0	824.4	790.8	33.58	24.551	
6,300.0	6,280.3	6,314.0	6,280.1	14.8	20.0	83.77	205.6	532.0	824.4	790.7	33.68	24.475	
6,400.0	6,380.3	6,414.0	6,380.1	14.9	20.1	83.77	205.6	532.0	824.4	790.6	33.79	24.398	
6,500.0	6,480.3	6,514.0	6,480.1	15.0	20.1	83.77	205.6	532.0	824.4	790.5	33.90	24.322	
6,600.0	6,580.3	6,614.0	6,580.1	15.0	20.1	83.77	205.6	532.0	824.4	790.4	34.00	24.246	
6,700.0	6,680.3	6,714.0	6,680.1	15.1	20.2	83.77	205.6	532.0	824.4	790.3	34.11	24.170	
6,800.0	6,780.3	6,814.0	6,780.1	15.2	20.2	83.77	205.6	532.0	824.4	790.2	34.22	24.095	
6,900.0	6,880.3	6,914.0	6,880.1	15.2	20.3	83.77	205.6	532.0	824.4	790.1	34.32	24.019	
7,000.0	6,980.3	7,014.0	6,980.1	15.3	20.3	83.77	205.6	532.0	824.4	790.0	34.43	23.944	
7,100.0	7,080.3	7,114.0	7,080.1	15.4	20.4	83.77	205.6	532.0	824.4	789.9	34.54	23.869	
7,200.0	7,180.3	7,214.0	7,180.1	15.4	20.4	83.77	205.6	532.0	824.4	789.8	34.65	23.794	
7,300.0	7,280.3	7,314.0	7,280.1	15.5	20.5	83.77	205.6	532.0	824.4	789.6	34.76	23.719	
7,400.0	7,380.3	7,414.0	7,380.1	15.5	20.5	83.77	205.6	532.0	824.4	789.5	34.87	23.644	
7,500.0	7,480.3	7,514.0	7,480.1	15.6	20.6	83.77	205.6	532.0	824.4	789.4	34.98	23.570	
7,600.0	7,580.3	7,614.0	7,580.1	15.7	20.6	83.77	205.6	532.0	824.4	789.3	35.09	23.496	
7,700.0	7,680.3	7,714.0	7,680.1	15.7	20.6	83.77	205.6	532.0	824.4	789.2	35.20	23.422	
7,800.0	7,780.3	7,814.0	7,780.1	15.8	20.7	83.77	205.6	532.0	824.4	789.1	35.31	23.348	
7,900.0	7,880.3	7,914.0	7,880.1	15.9	20.7	83.77	205.6	532.0	824.4	789.0	35.42	23.274	
8,000.0	7,980.3	8,014.0	7,980.1	15.9	20.8	83.77	205.6	532.0	824.4	788.9	35.53	23.201	
8,100.0	8,080.3	8,114.0	8,080.1	16.0	20.8	83.77	205.6	532.0	824.4	788.8	35.65	23.128	
8,200.0	8,180.3	8,214.0	8,180.1	16.1	20.9	83.77	205.6	532.0	824.4	788.6	35.76	23.055	
8,300.0	8,280.3	8,314.0	8,280.1	16.1	20.9	83.77	205.6	532.0	824.4	788.5	35.87	22.982	
8,400.0	8,380.3	8,414.0	8,380.1	16.2	21.0	83.77	205.6	532.0	824.4	788.4	35.98	22.910	
8,500.0	8,480.3	8,514.0	8,480.1	16.3	21.0	83.77	205.6	532.0	824.4	788.3	36.10	22.838	
8,600.0	8,580.3	8,614.0	8,580.1	16.3	21.1	83.77	205.6	532.0	824.4	788.2	36.21	22.766	
8,700.0	8,680.3	8,714.0	8,680.1	16.4	21.1	83.77	205.6	532.0	824.4	788.1	36.33	22.694	
8,800.0	8,780.3	8,814.0	8,780.1	16.5	21.2	83.77	205.6	532.0	824.4	788.0	36.44	22.622	
8,900.0	8,880.3	8,914.0	8,880.1	16.5	21.2	83.77	205.6	532.0	824.4	787.8	36.56	22.551	
9,000.0	8,980.3	9,014.0	8,980.1	16.6	21.3	83.77	205.6	532.0	824.4	787.7	36.67	22.480	
9,100.0	9,080.3	9,114.0	9,080.1	16.7	21.3	83.77	205.6	532.0	824.4	787.6	36.79	22.409	
9,200.0	9,180.3	9,214.0	9,180.1	16.7	21.4	83.77	205.6	532.0	824.4	787.5	36.91	22.338	
9,300.0	9,280.3	9,314.0	9,280.1	16.8	21.4	83.77	205.6	532.0	824.4	787.4	37.02	22.268	
9,400.0	9,380.3	9,414.0	9,380.1	16.9	21.5	83.77	205.6	532.0	824.4	787.3	37.14	22.198	
9,500.0	9,480.3	9,514.0	9,480.1	16.9	21.5	83.77	205.6	532.0	824.4	787.1	37.26	22.128	
9,600.0	9,580.3	9,614.0	9,580.1	17.0	21.6	83.77	205.6	532.0	824.4	787.0	37.37	22.058	
9,700.0	9,680.3	9,714.0	9,680.1	17.1	21.6	83.77	205.6	532.0	824.4	786.9	37.49	21.989	
9,800.0	9,780.3	9,814.0	9,780.1	17.1	21.7	83.77	205.6	532.0	824.4	786.8	37.61	21.920	
9,900.0	9,880.3	9,914.0	9,880.1	17.2	21.7	83.77	205.6	532.0	824.4	786.7	37.73	21.851	
10,000.0	9,980.3	10,014.0	9,980.1	17.3	21.8	83.77	205.6	532.0	824.4	786.6	37.85	21.782	
10,100.0	10,080.3	10,114.0	10,080.1	17.3	21.8	83.77	205.6	532.0	824.4	786.4	37.97	21.714	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11165-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.0	10,180.3	10,214.0	10,180.1	17.4	21.9	83.77	205.6	532.0	824.4	786.3	38.09	21.645	
10,300.0	10,280.3	10,314.0	10,280.1	17.5	21.9	83.77	205.6	532.0	824.4	786.2	38.21	21.577	
10,400.0	10,380.3	10,414.0	10,380.1	17.5	22.0	83.77	205.6	532.0	824.4	786.1	38.33	21.510	
10,500.0	10,480.3	10,514.0	10,480.1	17.6	22.0	83.77	205.6	532.0	824.4	786.0	38.45	21.442	
10,600.0	10,580.3	10,614.0	10,580.1	17.7	22.1	83.77	205.6	532.0	824.4	785.8	38.57	21.375	
10,700.0	10,680.3	10,714.0	10,680.1	17.8	22.1	83.77	205.6	532.0	824.4	785.7	38.69	21.308	
10,800.0	10,780.3	10,814.0	10,780.1	17.8	22.2	83.77	205.6	532.0	824.4	785.6	38.81	21.242	
10,900.0	10,880.3	10,914.0	10,880.1	17.9	22.3	83.77	205.6	532.0	824.4	785.5	38.93	21.175	
11,000.0	10,980.3	11,014.0	10,980.1	18.0	22.3	83.77	205.6	532.0	824.4	785.3	39.05	21.109	
11,100.0	11,080.3	11,114.0	11,080.1	18.0	22.4	83.77	205.6	532.0	824.4	785.2	39.17	21.045	
11,149.8	11,130.0	11,163.8	11,129.8	18.0	22.4	83.77	205.6	532.0	824.4	785.2	39.21	21.026	
11,200.0	11,180.2	11,207.4	11,173.4	18.1	22.4	83.98	207.2	532.0	824.4	785.1	39.23	21.011	
11,250.0	11,229.8	11,250.0	11,215.7	18.1	22.4	84.04	212.0	532.0	824.3	785.0	39.26	20.996	
11,300.0	11,278.6	11,294.4	11,259.3	18.1	22.4	84.15	220.4	532.0	824.1	784.9	39.28	20.980	
11,350.0	11,326.2	11,338.0	11,301.4	18.1	22.4	84.29	231.8	531.9	823.9	784.6	39.31	20.963	
11,400.0	11,372.4	11,381.7	11,342.6	18.1	22.4	84.47	246.5	531.9	823.7	784.4	39.33	20.944	
11,450.0	11,416.7	11,425.6	11,382.7	18.2	22.5	84.68	264.3	531.9	823.4	784.1	39.35	20.924	
11,500.0	11,458.9	11,469.7	11,421.5	18.2	22.5	84.94	285.3	531.8	823.1	783.7	39.38	20.902	
11,550.0	11,498.5	11,514.1	11,458.7	18.2	22.5	85.22	309.3	531.7	822.7	783.3	39.40	20.879	
11,600.0	11,535.3	11,558.7	11,494.2	18.3	22.5	85.55	336.2	531.6	822.4	783.0	39.43	20.854	
11,650.0	11,569.1	11,603.6	11,527.7	18.3	22.5	85.90	366.1	531.6	822.0	782.6	39.47	20.827	
11,700.0	11,599.5	11,650.0	11,559.8	18.3	22.6	86.29	399.7	531.5	821.7	782.1	39.51	20.795	
11,750.0	11,626.4	11,694.4	11,587.8	18.4	22.6	86.69	434.1	531.4	821.3	781.8	39.56	20.762	
11,800.0	11,649.4	11,740.4	11,614.0	18.4	22.6	87.12	471.9	531.2	821.0	781.4	39.62	20.722	
11,850.0	11,668.5	11,786.8	11,637.2	18.5	22.7	87.58	512.1	531.1	820.7	781.0	39.69	20.677	
11,900.0	11,683.5	11,833.8	11,657.3	18.5	22.7	88.05	554.5	531.0	820.5	780.7	39.78	20.625	
11,950.0	11,694.3	11,881.2	11,674.1	18.6	22.7	88.54	598.9	530.9	820.3	780.4	39.88	20.566	
12,000.0	11,700.8	11,929.2	11,687.2	18.6	22.8	89.05	645.0	530.7	820.1	780.1	40.01	20.498	
12,049.8	11,703.0	11,977.6	11,696.5	18.7	22.8	89.56	692.5	530.6	820.0	779.9	40.15	20.423	
12,076.0	11,703.0	12,003.3	11,699.8	18.7	22.9	89.79	718.0	530.5	820.0	779.8	40.24	20.379	
12,100.0	11,703.0	12,027.2	11,701.8	18.8	22.9	89.93	741.8	530.5	820.0	779.7	40.32	20.337	
12,200.0	11,703.0	12,127.2	11,703.0	19.0	23.0	90.01	841.7	530.2	820.1	779.3	40.74	20.130	
12,300.0	11,703.0	12,227.2	11,703.0	19.2	23.2	90.01	941.7	529.9	820.1	778.9	41.22	19.899	
12,400.0	11,703.0	12,327.2	11,703.0	19.4	23.3	90.01	1,041.7	529.6	820.2	778.4	41.74	19.649	
12,500.0	11,703.0	12,427.2	11,703.0	19.7	23.5	90.01	1,141.7	529.3	820.2	777.9	42.31	19.383	
12,600.0	11,703.0	12,527.2	11,703.0	20.0	23.8	90.01	1,241.7	529.0	820.2	777.3	42.93	19.105	
12,700.0	11,703.0	12,627.2	11,703.0	20.4	24.0	90.01	1,341.7	528.7	820.3	776.7	43.60	18.815	
12,800.0	11,703.0	12,727.2	11,703.0	20.7	24.3	90.01	1,441.7	528.4	820.3	776.0	44.30	18.517	
12,900.0	11,703.0	12,827.2	11,703.0	21.1	24.6	90.01	1,541.7	528.1	820.4	775.3	45.05	18.212	
13,000.0	11,703.0	12,927.2	11,703.0	21.5	24.9	90.01	1,641.7	527.8	820.4	774.6	45.83	17.902	
13,100.0	11,703.0	13,027.2	11,703.0	22.0	25.2	90.01	1,741.7	527.5	820.4	773.8	46.65	17.589	
13,200.0	11,703.0	13,127.2	11,703.0	22.4	25.6	90.01	1,841.7	527.2	820.5	773.0	47.50	17.274	
13,300.0	11,703.0	13,227.2	11,703.0	22.9	26.0	90.01	1,941.7	527.0	820.5	772.1	48.38	16.959	
13,400.0	11,703.0	13,327.2	11,703.0	23.4	26.4	90.01	2,041.7	526.7	820.6	771.3	49.30	16.645	
13,500.0	11,703.0	13,427.2	11,703.0	23.9	26.8	90.01	2,141.7	526.4	820.6	770.4	50.24	16.333	
13,600.0	11,703.0	13,527.2	11,703.0	24.4	27.2	90.01	2,241.7	526.1	820.6	769.4	51.21	16.025	
13,700.0	11,703.0	13,627.2	11,703.0	24.9	27.7	90.01	2,341.7	525.8	820.7	768.5	52.21	15.720	
13,800.0	11,703.0	13,727.2	11,703.0	25.5	28.1	90.01	2,441.7	525.5	820.7	767.5	53.23	15.419	
13,900.0	11,703.0	13,827.2	11,703.0	26.0	28.6	90.01	2,541.7	525.2	820.8	766.5	54.27	15.123	
14,000.0	11,703.0	13,927.2	11,703.0	26.6	29.1	90.01	2,641.7	524.9	820.8	765.5	55.34	14.833	
14,100.0	11,703.0	14,027.2	11,703.0	27.2	29.6	90.01	2,741.7	524.6	820.8	764.4	56.42	14.548	
14,200.0	11,703.0	14,127.2	11,703.0	27.8	30.1	90.01	2,841.7	524.3	820.9	763.3	57.53	14.270	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11165-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.0	11,703.0	14,227.2	11,703.0	28.4	30.7	90.01	2,941.7	524.0	820.9	762.3	58.65	13.997	
14,400.0	11,703.0	14,327.2	11,703.0	29.0	31.2	90.01	3,041.7	523.7	821.0	761.2	59.79	13.731	
14,500.0	11,703.0	14,427.2	11,703.0	29.6	31.8	90.01	3,141.7	523.5	821.0	760.0	60.94	13.472	
14,600.0	11,703.0	14,527.2	11,703.0	30.2	32.3	90.01	3,241.7	523.2	821.0	758.9	62.11	13.219	
14,700.0	11,703.0	14,627.2	11,703.0	30.8	32.9	90.01	3,341.7	522.9	821.1	757.8	63.30	12.972	
14,800.0	11,703.0	14,727.2	11,703.0	31.4	33.5	90.01	3,441.7	522.6	821.1	756.6	64.50	12.731	
14,900.0	11,703.0	14,827.2	11,703.0	32.1	34.1	90.01	3,541.7	522.3	821.1	755.4	65.71	12.497	
15,000.0	11,703.0	14,927.2	11,703.0	32.7	34.7	90.01	3,641.7	522.0	821.2	754.3	66.93	12.270	
15,100.0	11,703.0	15,027.2	11,703.0	33.4	35.3	90.01	3,741.7	521.7	821.2	753.1	68.16	12.048	
15,200.0	11,703.0	15,127.2	11,703.0	34.0	35.9	90.01	3,841.7	521.4	821.3	751.9	69.41	11.832	
15,300.0	11,703.0	15,227.2	11,703.0	34.7	36.5	90.01	3,941.7	521.1	821.3	750.6	70.66	11.623	
15,400.0	11,703.0	15,327.2	11,703.0	35.3	37.1	90.01	4,041.7	520.8	821.3	749.4	71.93	11.419	
15,500.0	11,703.0	15,427.2	11,703.0	36.0	37.7	90.01	4,141.7	520.5	821.4	748.2	73.20	11.221	
15,600.0	11,703.0	15,527.2	11,703.0	36.7	38.3	90.01	4,241.7	520.2	821.4	746.9	74.49	11.028	
15,700.0	11,703.0	15,627.2	11,703.0	37.3	39.0	90.01	4,341.7	519.9	821.5	745.7	75.78	10.840	
15,800.0	11,703.0	15,727.2	11,703.0	38.0	39.6	90.01	4,441.7	519.7	821.5	744.4	77.08	10.658	
15,900.0	11,703.0	15,827.2	11,703.0	38.7	40.3	90.01	4,541.7	519.4	821.5	743.2	78.38	10.481	
16,000.0	11,703.0	15,927.2	11,703.0	39.4	40.9	90.01	4,641.7	519.1	821.6	741.9	79.70	10.309	
16,100.0	11,703.0	16,027.2	11,703.0	40.1	41.6	90.01	4,741.7	518.8	821.6	740.6	81.02	10.141	
16,200.0	11,703.0	16,127.2	11,703.0	40.7	42.2	90.01	4,841.7	518.5	821.7	739.3	82.34	9.978	
16,300.0	11,703.0	16,227.2	11,703.0	41.4	42.9	90.01	4,941.7	518.2	821.7	738.0	83.68	9.820	
16,400.0	11,703.0	16,327.2	11,703.0	42.1	43.5	90.01	5,041.7	517.9	821.7	736.7	85.01	9.666	
16,500.0	11,703.0	16,427.2	11,703.0	42.8	44.2	90.01	5,141.7	517.6	821.8	735.4	86.36	9.516	
16,600.0	11,703.0	16,527.2	11,703.0	43.5	44.9	90.01	5,241.7	517.3	821.8	734.1	87.71	9.370	
16,700.0	11,703.0	16,627.2	11,703.0	44.2	45.6	90.01	5,341.7	517.0	821.9	732.8	89.06	9.228	
16,800.0	11,703.0	16,727.2	11,703.0	44.9	46.2	90.01	5,441.7	516.7	821.9	731.5	90.42	9.090	
16,900.0	11,703.0	16,827.2	11,703.0	45.6	46.9	90.01	5,541.7	516.4	821.9	730.2	91.79	8.955	
17,000.0	11,703.0	16,927.2	11,703.0	46.3	47.6	90.01	5,641.7	516.2	822.0	728.8	93.15	8.824	
17,100.0	11,703.0	17,027.2	11,703.0	47.0	48.3	90.01	5,741.7	515.9	822.0	727.5	94.53	8.696	
17,200.0	11,703.0	17,127.2	11,703.0	47.7	49.0	90.01	5,841.7	515.6	822.1	726.2	95.90	8.572	
17,300.0	11,703.0	17,227.2	11,703.0	48.5	49.6	90.01	5,941.7	515.3	822.1	724.8	97.28	8.451	
17,400.0	11,703.0	17,327.2	11,703.0	49.2	50.3	90.01	6,041.7	515.0	822.1	723.5	98.67	8.332	
17,500.0	11,703.0	17,427.2	11,703.0	49.9	51.0	90.01	6,141.7	514.7	822.2	722.1	100.05	8.217	
17,600.0	11,703.0	17,527.2	11,703.0	50.6	51.7	90.01	6,241.7	514.4	822.2	720.8	101.45	8.105	
17,700.0	11,703.0	17,627.2	11,703.0	51.3	52.4	90.01	6,341.7	514.1	822.3	719.4	102.84	7.995	
17,800.0	11,703.0	17,727.2	11,703.0	52.0	53.1	90.01	6,441.7	513.8	822.3	718.1	104.24	7.889	
17,900.0	11,703.0	17,827.2	11,703.0	52.8	53.8	90.01	6,541.7	513.5	822.3	716.7	105.64	7.785	
18,000.0	11,703.0	17,927.2	11,703.0	53.5	54.5	90.01	6,641.7	513.2	822.4	715.3	107.04	7.683	
18,100.0	11,703.0	18,027.2	11,703.0	54.2	55.2	90.01	6,741.7	512.9	822.4	714.0	108.45	7.584	
18,200.0	11,703.0	18,127.2	11,703.0	54.9	55.9	90.01	6,841.7	512.6	822.5	712.6	109.85	7.487	
18,300.0	11,703.0	18,227.2	11,703.0	55.6	56.6	90.01	6,941.7	512.4	822.5	711.2	111.27	7.392	
18,400.0	11,703.0	18,327.2	11,703.0	56.4	57.3	90.01	7,041.7	512.1	822.5	709.9	112.68	7.300	
18,500.0	11,703.0	18,427.2	11,703.0	57.1	58.1	90.01	7,141.7	511.8	822.6	708.5	114.10	7.209	
18,600.0	11,703.0	18,527.2	11,703.0	57.8	58.8	90.01	7,241.7	511.5	822.6	707.1	115.51	7.121	
18,700.0	11,703.0	18,627.2	11,703.0	58.5	59.5	90.01	7,341.7	511.2	822.6	705.7	116.93	7.035	
18,800.0	11,703.0	18,727.2	11,703.0	59.3	60.2	90.01	7,441.7	510.9	822.7	704.3	118.36	6.951	
18,900.0	11,703.0	18,827.2	11,703.0	60.0	60.9	90.01	7,541.7	510.6	822.7	702.9	119.78	6.869	
19,000.0	11,703.0	18,927.2	11,703.0	60.7	61.6	90.01	7,641.7	510.3	822.8	701.6	121.21	6.788	
19,100.0	11,703.0	19,027.2	11,703.0	61.5	62.3	90.01	7,741.7	510.0	822.8	700.2	122.64	6.709	
19,200.0	11,703.0	19,127.2	11,703.0	62.2	63.1	90.01	7,841.7	509.7	822.8	698.8	124.07	6.632	
19,300.0	11,703.0	19,227.2	11,703.0	62.9	63.8	90.01	7,941.7	509.4	822.9	697.4	125.50	6.557	
19,400.0	11,703.0	19,327.2	11,703.0	63.7	64.5	90.01	8,041.7	509.1	822.9	696.0	126.93	6.483	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11165-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.0	11,703.0	19,427.2	11,703.0	64.4	65.2	90.01	8,141.7	508.8	823.0	694.6	128.37	6.411	
19,600.0	11,703.0	19,527.2	11,703.0	65.1	65.9	90.01	8,241.7	508.6	823.0	693.2	129.80	6.340	
19,700.0	11,703.0	19,627.2	11,703.0	65.9	66.7	90.01	8,341.7	508.3	823.0	691.8	131.24	6.271	
19,800.0	11,703.0	19,727.2	11,703.0	66.6	67.4	90.01	8,441.7	508.0	823.1	690.4	132.68	6.203	
19,900.0	11,703.0	19,827.2	11,703.0	67.3	68.1	90.01	8,541.7	507.7	823.1	689.0	134.12	6.137	
20,000.0	11,703.0	19,927.2	11,703.0	68.1	68.8	90.01	8,641.7	507.4	823.2	687.6	135.57	6.072	
20,100.0	11,703.0	20,027.2	11,703.0	68.8	69.6	90.01	8,741.7	507.1	823.2	686.2	137.01	6.008	
20,200.0	11,703.0	20,127.2	11,703.0	69.6	70.3	90.01	8,841.7	506.8	823.2	684.8	138.46	5.946	
20,300.0	11,703.0	20,227.2	11,703.0	70.3	71.0	90.01	8,941.7	506.5	823.3	683.4	139.90	5.885	
20,400.0	11,703.0	20,327.2	11,703.0	71.0	71.8	90.01	9,041.7	506.2	823.3	682.0	141.35	5.825	
20,500.0	11,703.0	20,427.2	11,703.0	71.8	72.5	90.01	9,141.7	505.9	823.4	680.6	142.80	5.766	
20,600.0	11,703.0	20,527.2	11,703.0	72.5	73.2	90.01	9,241.7	505.6	823.4	679.1	144.25	5.708	
20,700.0	11,703.0	20,627.2	11,703.0	73.3	73.9	90.01	9,341.7	505.3	823.4	677.7	145.70	5.651	
20,800.0	11,703.0	20,727.2	11,703.0	74.0	74.7	90.01	9,441.7	505.1	823.5	676.3	147.16	5.596	
20,900.0	11,703.0	20,827.2	11,703.0	74.7	75.4	90.01	9,541.7	504.8	823.5	674.9	148.61	5.541	
21,000.0	11,703.0	20,927.2	11,703.0	75.5	76.1	90.01	9,641.7	504.5	823.6	673.5	150.06	5.488	
21,100.0	11,703.0	21,027.2	11,703.0	76.2	76.9	90.01	9,741.7	504.2	823.6	672.1	151.52	5.436	
21,200.0	11,703.0	21,127.2	11,703.0	77.0	77.6	90.01	9,841.7	503.9	823.6	670.7	152.98	5.384	
21,300.0	11,703.0	21,227.2	11,703.0	77.7	78.3	90.01	9,941.7	503.6	823.7	669.2	154.43	5.333	
21,400.0	11,703.0	21,327.2	11,703.0	78.5	79.1	90.01	10,041.7	503.3	823.7	667.8	155.89	5.284	
21,500.0	11,703.0	21,427.2	11,703.0	79.2	79.8	90.01	10,141.7	503.0	823.8	666.4	157.35	5.235	
21,600.0	11,703.0	21,527.2	11,703.0	79.9	80.5	90.01	10,241.7	502.7	823.8	665.0	158.81	5.187	
21,700.0	11,703.0	21,627.2	11,703.0	80.7	81.3	90.01	10,341.7	502.4	823.8	663.6	160.27	5.140	
21,800.0	11,703.0	21,727.2	11,703.0	81.4	82.0	90.01	10,441.7	502.1	823.9	662.1	161.74	5.094	
21,900.0	11,703.0	21,827.2	11,703.0	82.2	82.8	90.01	10,541.7	501.8	823.9	660.7	163.20	5.049	
22,000.0	11,703.0	21,927.2	11,703.0	82.9	83.5	90.01	10,641.7	501.5	824.0	659.3	164.66	5.004	
22,063.0	11,703.0	21,990.2	11,703.0	83.4	84.0	90.01	10,704.7	501.4	824.0	658.4	165.58	4.976	
22,100.0	11,703.0	22,027.2	11,703.0	83.7	84.2	90.01	10,741.7	501.3	824.0	657.9	166.12	4.960	
22,113.0	11,703.0	22,040.2	11,703.0	83.8	84.3	90.01	10,754.7	501.2	824.0	657.7	166.31	4.955 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11410-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	90.29	-0.5	89.9	89.9				
100.0	100.0	99.7	99.7	3.0	3.0	90.29	-0.5	89.9	89.9	83.4	6.52	13.794	
200.0	200.0	199.7	199.7	3.2	3.2	90.29	-0.5	89.9	89.9	83.2	6.76	13.305	
300.0	300.0	299.7	299.7	3.3	3.3	90.29	-0.5	89.9	89.9	82.9	6.99	12.865	
400.0	400.0	399.7	399.7	3.4	3.4	90.29	-0.5	89.9	89.9	82.7	7.21	12.467	
500.0	500.0	499.7	499.7	3.5	3.5	90.29	-0.5	89.9	89.9	82.5	7.43	12.104	
600.0	600.0	599.7	599.7	3.7	3.7	90.29	-0.5	89.9	89.9	82.3	7.64	11.772	
700.0	700.0	699.7	699.7	3.8	3.8	90.29	-0.5	89.9	89.9	82.1	7.84	11.467	
800.0	800.0	799.7	799.7	3.9	3.9	90.29	-0.5	89.9	89.9	81.9	8.04	11.185	
900.0	900.0	899.7	899.7	4.0	4.0	90.29	-0.5	89.9	89.9	81.7	8.23	10.923	
1,000.0	1,000.0	999.7	999.7	4.2	4.2	90.29	-0.5	89.9	89.9	81.5	8.42	10.678	
1,100.0	1,100.0	1,099.7	1,099.7	4.3	4.3	90.29	-0.5	89.9	89.9	81.3	8.61	10.450	
1,200.0	1,200.0	1,199.7	1,199.7	4.4	4.4	90.29	-0.5	89.9	89.9	81.2	8.79	10.236	
1,300.0	1,300.0	1,299.7	1,299.7	4.5	4.5	90.29	-0.5	89.9	89.9	81.0	8.96	10.036	
1,400.0	1,400.0	1,399.7	1,399.7	4.6	4.6	90.29	-0.5	89.9	89.9	80.8	9.13	9.846	
1,500.0	1,500.0	1,499.7	1,499.7	4.8	4.8	90.29	-0.5	89.9	89.9	80.6	9.30	9.667	CC, ES
1,600.0	1,600.0	1,597.6	1,597.6	4.9	4.9	158.27	0.2	91.0	92.7	83.1	9.59	9.662	SF
1,700.0	1,699.8	1,695.1	1,695.1	5.1	5.0	158.22	2.0	94.3	100.8	90.8	10.04	10.041	
1,800.0	1,799.5	1,791.9	1,791.6	5.3	5.2	158.13	5.1	99.6	114.4	103.9	10.51	10.882	
1,900.0	1,898.7	1,887.4	1,886.7	5.6	5.4	158.01	9.4	106.9	133.3	122.3	11.00	12.114	
2,000.0	1,997.7	1,981.7	1,980.4	5.8	5.6	157.83	14.7	116.2	155.9	144.5	11.44	13.627	
2,100.0	2,096.8	2,074.2	2,072.0	6.1	5.8	157.36	21.0	127.3	180.7	168.8	11.83	15.275	
2,200.0	2,195.8	2,164.2	2,160.8	6.4	6.1	157.01	27.0	140.9	208.3	196.0	12.30	16.941	
2,300.0	2,294.8	2,252.5	2,247.5	6.7	6.3	156.80	32.8	156.8	239.0	226.2	12.76	18.735	
2,400.0	2,393.8	2,346.7	2,339.6	7.0	6.6	156.65	38.9	175.5	271.2	258.0	13.28	20.419	
2,500.0	2,492.9	2,441.4	2,432.2	7.3	6.9	156.53	44.9	194.2	303.5	289.6	13.88	21.874	
2,600.0	2,591.9	2,536.0	2,524.8	7.6	7.3	156.44	51.0	212.9	335.8	321.3	14.49	23.174	
2,700.0	2,690.9	2,630.7	2,617.3	8.0	7.6	156.36	57.1	231.6	368.1	352.9	15.12	24.336	
2,800.0	2,789.9	2,725.3	2,709.9	8.3	8.0	156.29	63.2	250.3	400.4	384.6	15.78	25.376	
2,900.0	2,889.0	2,820.0	2,802.5	8.7	8.3	156.24	69.3	269.0	432.6	416.2	16.44	26.310	
3,000.0	2,988.0	2,914.6	2,895.1	9.0	8.7	156.19	75.4	287.7	464.9	447.8	17.12	27.149	
3,100.0	3,087.0	3,009.2	2,987.7	9.4	9.1	156.15	81.4	306.5	497.2	479.4	17.82	27.906	
3,200.0	3,186.1	3,103.9	3,080.2	9.8	9.5	156.11	87.5	325.2	529.5	511.0	18.52	28.590	
3,300.0	3,285.1	3,198.5	3,172.8	10.2	9.8	156.08	93.6	343.9	561.8	542.5	19.23	29.209	
3,400.0	3,384.1	3,293.2	3,265.4	10.6	10.2	156.05	99.7	362.6	594.0	574.1	19.95	29.772	
3,500.0	3,483.1	3,387.8	3,358.0	10.9	10.6	156.02	105.8	381.3	626.3	605.6	20.68	30.285	
3,527.1	3,510.0	3,413.5	3,383.1	11.0	10.8	156.02	107.4	386.4	635.1	614.2	20.87	30.435	
3,600.0	3,582.2	3,482.6	3,450.7	11.3	11.0	156.08	111.8	400.1	658.2	636.8	21.39	30.777	
3,700.0	3,681.5	3,577.9	3,543.9	11.7	11.5	156.11	118.0	418.9	688.6	666.5	22.12	31.133	
3,800.0	3,781.0	3,673.6	3,637.5	12.1	11.9	156.09	124.1	437.8	717.5	694.7	22.85	31.402	
3,900.0	3,880.7	3,769.7	3,731.5	12.4	12.3	156.01	130.3	456.8	744.9	721.3	23.58	31.596	
4,000.0	3,980.4	3,866.3	3,826.0	12.8	12.7	155.88	136.5	475.9	770.7	746.4	24.29	31.725	
4,100.0	4,080.3	3,963.2	3,920.8	13.1	13.1	155.71	142.7	495.1	795.0	770.0	25.00	31.801	
4,200.0	4,180.3	4,060.5	4,015.9	13.4	13.6	155.50	149.0	514.3	817.8	792.2	25.69	31.835	
4,300.0	4,280.3	4,158.1	4,111.4	13.6	14.0	155.25	155.2	533.6	839.1	812.8	26.34	31.853	
4,327.1	4,307.4	4,184.6	4,137.3	13.7	14.1	87.17	156.9	538.9	844.6	818.1	26.49	31.890	
4,400.0	4,380.3	4,255.9	4,207.1	13.7	14.5	86.91	161.5	553.0	859.3	832.4	26.85	32.006	
4,500.0	4,480.3	4,353.7	4,302.7	13.8	14.9	86.56	167.8	572.3	879.4	852.0	27.37	32.134	
4,600.0	4,580.3	4,451.5	4,398.4	13.8	15.3	86.23	174.1	591.6	899.6	871.7	27.89	32.249	
4,700.0	4,680.3	4,549.3	4,494.1	13.9	15.8	85.91	180.4	611.0	919.8	891.3	28.43	32.352	
4,800.0	4,780.3	4,647.1	4,589.8	13.9	16.2	85.61	186.7	630.3	940.0	911.0	28.97	32.445	
4,900.0	4,880.3	4,745.0	4,685.4	14.0	16.7	85.32	193.0	649.7	960.2	930.7	29.52	32.528	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11410-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,980.3	4,842.8	4,781.1	14.0	17.1	85.04	199.2	669.0	980.5	950.4	30.07	32.603	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11277-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	90.35	-0.7	120.0	120.0				
100.0	100.0	99.7	99.7	3.0	3.0	90.35	-0.7	120.0	120.0	113.5	6.52	18.408	
200.0	200.0	199.7	199.7	3.2	3.2	90.35	-0.7	120.0	120.0	113.3	6.76	17.755	
300.0	300.0	299.7	299.7	3.3	3.3	90.35	-0.7	120.0	120.0	113.0	6.99	17.167	
400.0	400.0	399.7	399.7	3.4	3.4	90.35	-0.7	120.0	120.0	112.8	7.21	16.636	
500.0	500.0	499.7	499.7	3.5	3.5	90.35	-0.7	120.0	120.0	112.6	7.43	16.152	
600.0	600.0	599.7	599.7	3.7	3.7	90.35	-0.7	120.0	120.0	112.4	7.64	15.710	
700.0	700.0	699.7	699.7	3.8	3.8	90.35	-0.7	120.0	120.0	112.2	7.84	15.302	
800.0	800.0	799.7	799.7	3.9	3.9	90.35	-0.7	120.0	120.0	112.0	8.04	14.925	
900.0	900.0	899.7	899.7	4.0	4.0	90.35	-0.7	120.0	120.0	111.8	8.23	14.575	
1,000.0	1,000.0	999.7	999.7	4.2	4.2	90.35	-0.7	120.0	120.0	111.6	8.42	14.250	
1,100.0	1,100.0	1,099.7	1,099.7	4.3	4.3	90.35	-0.7	120.0	120.0	111.4	8.61	13.945	
1,200.0	1,200.0	1,199.7	1,199.7	4.4	4.4	90.35	-0.7	120.0	120.0	111.2	8.79	13.660	
1,300.0	1,300.0	1,299.7	1,299.7	4.5	4.5	90.35	-0.7	120.0	120.0	111.1	8.96	13.392	
1,400.0	1,400.0	1,399.7	1,399.7	4.6	4.6	90.35	-0.7	120.0	120.0	110.9	9.13	13.139	
1,500.0	1,500.0	1,499.7	1,499.7	4.8	4.8	90.35	-0.7	120.0	120.0	110.7	9.30	12.900	CC, ES
1,600.0	1,600.0	1,597.0	1,597.0	4.9	4.9	158.33	-0.1	121.1	122.7	113.1	9.59	12.798	SF
1,700.0	1,699.8	1,693.9	1,693.8	5.1	5.0	158.27	1.7	124.3	130.9	120.8	10.04	13.037	
1,800.0	1,799.5	1,790.0	1,789.7	5.3	5.2	158.19	4.8	129.6	144.4	133.9	10.51	13.742	
1,900.0	1,898.7	1,883.9	1,883.3	5.6	5.3	158.12	8.8	136.9	163.4	152.5	10.92	14.970	
2,000.0	1,997.7	1,975.5	1,974.2	5.8	5.5	158.26	13.0	146.8	187.1	175.7	11.37	16.456	
2,100.0	2,096.8	2,065.6	2,063.3	6.1	5.8	158.31	17.3	159.5	213.8	201.9	11.85	18.033	
2,200.0	2,195.8	2,154.1	2,150.4	6.4	6.1	158.29	21.8	174.6	243.4	231.1	12.36	19.691	
2,300.0	2,294.8	2,240.8	2,235.2	6.7	6.4	158.22	26.3	192.0	276.0	263.1	12.89	21.420	
2,400.0	2,393.8	2,328.5	2,320.4	7.0	6.8	158.13	31.0	212.1	311.2	297.8	13.43	23.177	
2,500.0	2,492.9	2,421.8	2,411.0	7.3	7.1	158.04	36.1	234.1	347.2	333.1	14.02	24.764	
2,600.0	2,591.9	2,515.1	2,501.5	7.6	7.4	157.97	41.2	256.1	383.1	368.4	14.63	26.179	
2,700.0	2,690.9	2,608.5	2,592.1	8.0	7.7	157.91	46.2	278.1	419.0	403.7	15.27	27.440	
2,800.0	2,789.9	2,701.8	2,682.6	8.3	8.1	157.86	51.3	300.1	454.9	439.0	15.92	28.566	
2,900.0	2,889.0	2,795.1	2,773.2	8.7	8.4	157.82	56.4	322.1	490.8	474.2	16.60	29.573	
3,000.0	2,988.0	2,888.4	2,863.7	9.0	8.8	157.78	61.5	344.1	526.7	509.4	17.28	30.475	
3,100.0	3,087.0	2,981.8	2,954.3	9.4	9.2	157.75	66.6	366.1	562.6	544.7	17.98	31.286	
3,200.0	3,186.1	3,075.1	3,044.8	9.8	9.6	157.72	71.6	388.1	598.6	579.9	18.70	32.017	
3,300.0	3,285.1	3,168.4	3,135.4	10.2	10.0	157.69	76.7	410.1	634.5	615.1	19.42	32.676	
3,400.0	3,384.1	3,261.7	3,226.0	10.6	10.4	157.67	81.8	432.1	670.4	650.2	20.15	33.274	
3,500.0	3,483.1	3,355.1	3,316.5	10.9	10.8	157.65	86.9	454.1	706.3	685.4	20.89	33.816	
3,527.1	3,510.0	3,380.4	3,341.1	11.0	10.9	157.65	88.3	460.1	716.1	695.0	21.08	33.975	
3,600.0	3,582.2	3,448.6	3,407.2	11.3	11.2	157.72	92.0	476.1	741.8	720.2	21.61	34.336	
3,700.0	3,681.5	3,542.6	3,498.4	11.7	11.6	157.78	97.1	498.3	775.9	753.5	22.35	34.714	
3,800.0	3,781.0	3,637.1	3,590.2	12.1	12.0	157.79	102.2	520.6	808.4	785.3	23.10	35.003	
3,900.0	3,880.7	3,732.2	3,682.4	12.4	12.4	157.75	107.4	543.0	839.4	815.6	23.84	35.215	
4,000.0	3,980.4	3,827.7	3,775.1	12.8	12.8	157.67	112.6	565.5	868.9	844.3	24.57	35.361	
4,100.0	4,080.3	3,923.6	3,868.2	13.1	13.3	157.55	117.8	588.1	896.9	871.6	25.30	35.452	
4,200.0	4,180.3	4,020.0	3,961.7	13.4	13.7	157.40	123.1	610.8	923.3	897.2	26.01	35.502	
4,300.0	4,280.3	4,116.8	4,055.6	13.6	14.2	157.22	128.3	633.6	948.1	921.4	26.68	35.538	
4,327.1	4,307.4	4,143.1	4,081.1	13.7	14.3	89.16	129.8	639.8	954.6	927.8	26.83	35.583	
4,400.0	4,380.3	4,213.8	4,149.7	13.7	14.6	88.94	133.6	656.5	971.9	944.7	27.20	35.724	
4,500.0	4,480.3	4,310.8	4,243.8	13.8	15.1	88.65	138.9	679.4	995.6	967.8	27.75	35.881	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11530-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	90.34	-0.9	150.0	150.0				
100.0	100.0	99.7	99.7	3.0	3.0	90.34	-0.9	150.0	150.0	143.5	6.52	23.005	
200.0	200.0	199.7	199.7	3.2	3.2	90.34	-0.9	150.0	150.0	143.2	6.76	22.188	
300.0	300.0	299.7	299.7	3.3	3.3	90.34	-0.9	150.0	150.0	143.0	6.99	21.454	
400.0	400.0	399.7	399.7	3.4	3.4	90.34	-0.9	150.0	150.0	142.8	7.21	20.790	
500.0	500.0	499.7	499.7	3.5	3.5	90.34	-0.9	150.0	150.0	142.6	7.43	20.186	
600.0	600.0	599.7	599.7	3.7	3.7	90.34	-0.9	150.0	150.0	142.4	7.64	19.632	
700.0	700.0	699.7	699.7	3.8	3.8	90.34	-0.9	150.0	150.0	142.1	7.84	19.123	
800.0	800.0	799.7	799.7	3.9	3.9	90.34	-0.9	150.0	150.0	142.0	8.04	18.652	
900.0	900.0	899.7	899.7	4.0	4.0	90.34	-0.9	150.0	150.0	141.8	8.23	18.215	
1,000.0	1,000.0	999.7	999.7	4.2	4.2	90.34	-0.9	150.0	150.0	141.6	8.42	17.808	CC, ES
1,100.0	1,100.0	1,094.8	1,094.8	4.3	4.3	90.25	-0.7	151.5	151.6	142.9	8.71	17.408	SF
1,200.0	1,200.0	1,189.6	1,189.5	4.4	4.4	89.97	0.1	156.2	156.5	147.5	8.99	17.416	
1,300.0	1,300.0	1,284.1	1,283.6	4.5	4.6	89.55	1.3	163.9	164.7	155.4	9.26	17.789	
1,400.0	1,400.0	1,377.9	1,376.8	4.6	4.8	89.02	3.0	174.6	176.1	166.6	9.52	18.495	
1,500.0	1,500.0	1,470.9	1,468.8	4.8	5.0	88.43	5.1	188.1	190.7	180.9	9.78	19.504	
1,600.0	1,600.0	1,562.6	1,559.0	4.9	5.2	155.86	7.7	204.4	210.1	200.0	10.09	20.813	
1,700.0	1,699.8	1,652.4	1,646.7	5.1	5.4	155.56	10.7	223.0	235.6	225.1	10.52	22.401	
1,800.0	1,799.5	1,739.6	1,731.5	5.3	5.6	155.44	14.0	243.8	267.2	256.3	10.91	24.499	
1,900.0	1,898.7	1,831.9	1,820.5	5.6	5.8	155.49	17.7	267.3	303.4	292.1	11.33	26.780	
2,000.0	1,997.7	1,924.4	1,909.9	5.8	6.0	155.92	21.4	291.0	341.2	329.4	11.79	28.951	
2,100.0	2,096.8	2,017.0	1,999.4	6.1	6.3	156.27	25.2	314.7	379.0	366.7	12.28	30.868	
2,200.0	2,195.8	2,109.6	2,088.8	6.4	6.5	156.55	28.9	338.3	416.8	404.0	12.81	32.540	
2,300.0	2,294.8	2,202.1	2,178.2	6.7	6.8	156.78	32.7	362.0	454.6	441.2	13.37	33.993	
2,400.0	2,393.8	2,294.7	2,267.6	7.0	7.2	156.98	36.4	385.6	492.4	478.4	13.97	35.254	
2,500.0	2,492.9	2,387.2	2,357.0	7.3	7.5	157.15	40.2	409.3	530.2	515.6	14.59	36.347	
2,600.0	2,591.9	2,479.8	2,446.4	7.6	7.8	157.30	43.9	433.0	568.0	552.8	15.23	37.297	
2,700.0	2,690.9	2,572.4	2,535.8	8.0	8.2	157.43	47.7	456.6	605.8	590.0	15.89	38.122	
2,800.0	2,789.9	2,664.9	2,625.2	8.3	8.5	157.54	51.4	480.3	643.7	627.1	16.57	38.842	
2,900.0	2,889.0	2,757.5	2,714.6	8.7	8.9	157.65	55.2	504.0	681.5	664.2	17.27	39.471	
3,000.0	2,988.0	2,850.1	2,804.0	9.0	9.3	157.74	58.9	527.6	719.3	701.3	17.97	40.021	
3,100.0	3,087.0	2,942.6	2,893.5	9.4	9.7	157.82	62.7	551.3	757.1	738.4	18.69	40.504	
3,200.0	3,186.1	3,035.2	2,982.9	9.8	10.1	157.89	66.4	574.9	795.0	775.5	19.42	40.929	
3,300.0	3,285.1	3,127.8	3,072.3	10.2	10.5	157.96	70.2	598.6	832.8	812.6	20.16	41.305	
3,400.0	3,384.1	3,220.3	3,161.7	10.6	10.9	158.02	73.9	622.3	870.6	849.7	20.91	41.637	
3,500.0	3,483.1	3,312.9	3,251.1	10.9	11.3	158.08	77.6	645.9	908.4	886.8	21.66	41.932	
3,527.1	3,510.0	3,338.0	3,275.4	11.0	11.4	158.09	78.7	652.4	918.7	896.9	21.86	42.029	
3,600.0	3,582.2	3,405.6	3,340.7	11.3	11.7	158.23	81.4	669.6	945.9	923.5	22.40	42.227	
3,700.0	3,681.5	3,498.9	3,430.8	11.7	12.1	158.37	85.2	693.5	981.9	958.7	23.16	42.392	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11161-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.6	2.6	3.0	3.0	179.71	-200.1	1.0	200.1				
100.0	100.0	102.6	102.6	3.0	3.0	179.71	-200.1	1.0	200.1	193.5	6.52	30.664	
200.0	200.0	202.6	202.6	3.2	3.2	179.71	-200.1	1.0	200.1	193.3	6.77	29.533	
300.0	300.0	302.6	302.6	3.3	3.3	179.71	-200.1	1.0	200.1	193.1	7.02	28.493	
400.0	400.0	402.6	402.6	3.4	3.4	179.71	-200.1	1.0	200.1	192.8	7.27	27.530	
500.0	500.0	502.6	502.6	3.5	3.6	179.71	-200.1	1.0	200.1	192.6	7.51	26.637	
600.0	600.0	602.6	602.6	3.7	3.7	179.71	-200.1	1.0	200.1	192.3	7.75	25.804	
700.0	700.0	702.6	702.6	3.8	3.8	179.71	-200.1	1.0	200.1	192.1	7.99	25.027	
800.0	800.0	802.6	802.6	3.9	3.9	179.71	-200.1	1.0	200.1	191.8	8.23	24.298	
900.0	900.0	902.6	902.6	4.0	4.0	179.71	-200.1	1.0	200.1	191.6	8.47	23.614	
1,000.0	1,000.0	1,002.6	1,002.6	4.2	4.2	179.71	-200.1	1.0	200.1	191.4	8.71	22.970	
1,100.0	1,100.0	1,102.6	1,102.6	4.3	4.3	179.71	-200.1	1.0	200.1	191.1	8.95	22.362	
1,200.0	1,200.0	1,202.6	1,202.6	4.4	4.4	179.71	-200.1	1.0	200.1	190.9	9.18	21.788	
1,300.0	1,300.0	1,302.6	1,302.6	4.5	4.5	179.71	-200.1	1.0	200.1	190.7	9.42	21.244	
1,400.0	1,400.0	1,402.6	1,402.6	4.6	4.6	179.71	-200.1	1.0	200.1	190.4	9.65	20.728	
1,500.0	1,500.0	1,502.7	1,502.7	4.8	4.8	179.71	-200.1	1.0	200.1	190.2	9.89	20.237	
1,600.0	1,600.0	1,607.0	1,607.0	4.9	4.9	-112.32	-198.9	-0.6	199.6	189.5	10.14	19.694	
1,700.0	1,699.8	1,711.3	1,711.1	5.1	5.1	-112.46	-195.5	-5.3	198.3	187.8	10.49	18.902	
1,800.0	1,799.5	1,815.5	1,814.9	5.3	5.4	-112.70	-189.9	-13.0	196.2	185.3	10.83	18.106	
1,900.0	1,898.7	1,916.9	1,915.5	5.6	5.5	-113.23	-182.7	-22.8	193.7	182.6	11.11	17.431	
2,000.0	1,997.7	2,016.8	2,014.7	5.8	5.8	-114.16	-175.6	-32.7	191.9	180.4	11.47	16.729	
2,100.0	2,096.8	2,116.7	2,113.9	6.1	6.0	-115.10	-168.4	-42.5	190.1	178.2	11.84	16.048	
2,200.0	2,195.8	2,216.7	2,213.1	6.4	6.3	-116.06	-161.3	-52.4	188.3	176.1	12.24	15.388	
2,300.0	2,294.8	2,316.6	2,312.3	6.7	6.6	-117.04	-154.1	-62.3	186.6	174.0	12.65	14.750	
2,400.0	2,393.8	2,416.6	2,411.5	7.0	6.9	-118.03	-146.9	-72.1	185.0	171.9	13.09	14.134	
2,500.0	2,492.9	2,516.5	2,510.6	7.3	7.2	-119.04	-139.8	-82.0	183.4	169.8	13.54	13.540	
2,600.0	2,591.9	2,616.4	2,609.8	7.6	7.6	-120.07	-132.6	-91.8	181.9	167.8	14.02	12.968	
2,700.0	2,690.9	2,716.4	2,709.0	8.0	7.9	-121.12	-125.5	-101.7	180.4	165.9	14.53	12.418	
2,800.0	2,789.9	2,816.3	2,808.2	8.3	8.2	-122.19	-118.3	-111.5	179.0	163.9	15.05	11.890	
2,900.0	2,889.0	2,916.2	2,907.4	8.7	8.6	-123.27	-111.1	-121.4	177.6	162.0	15.60	11.385	
3,000.0	2,988.0	3,016.2	3,006.6	9.0	8.9	-124.36	-104.0	-131.2	176.4	160.2	16.18	10.902	
3,100.0	3,087.0	3,116.1	3,105.8	9.4	9.3	-125.47	-96.8	-141.1	175.1	158.4	16.77	10.441	
3,200.0	3,186.1	3,216.0	3,205.0	9.8	9.7	-126.60	-89.7	-150.9	174.0	156.6	17.40	10.002	
3,300.0	3,285.1	3,316.0	3,304.2	10.2	10.0	-127.74	-82.5	-160.8	172.9	154.9	18.04	9.584	
3,400.0	3,384.1	3,415.9	3,403.4	10.6	10.4	-128.90	-75.3	-170.6	171.9	153.2	18.71	9.187	
3,500.0	3,483.1	3,515.8	3,502.5	10.9	10.8	-130.07	-68.2	-180.5	171.0	151.6	19.40	8.811	
3,527.1	3,510.0	3,542.9	3,529.5	11.0	10.9	-130.39	-66.2	-183.2	170.7	151.1	19.58	8.719	
3,600.0	3,582.2	3,615.8	3,601.7	11.3	11.2	-131.12	-61.0	-190.3	169.8	149.7	20.07	8.459	
3,700.0	3,681.5	3,715.7	3,701.0	11.7	11.6	-131.76	-53.9	-200.2	167.6	146.8	20.74	8.081	
3,800.0	3,781.0	3,815.7	3,800.1	12.1	12.0	-131.95	-46.7	-210.0	164.2	142.8	21.35	7.691	
3,900.0	3,880.7	3,915.6	3,899.3	12.4	12.3	-131.69	-39.6	-219.9	159.6	137.7	21.89	7.291	
4,000.0	3,980.4	4,015.4	3,998.4	12.8	12.7	-130.91	-32.4	-229.7	153.9	131.6	22.36	6.885	
4,100.0	4,080.3	4,115.1	4,097.3	13.1	13.1	-129.54	-25.3	-239.6	147.1	124.4	22.71	6.480	
4,200.0	4,180.3	4,214.7	4,196.2	13.4	13.5	-127.48	-18.1	-249.4	139.4	116.5	22.91	6.083	
4,300.0	4,280.3	4,314.1	4,294.8	13.6	13.9	-124.55	-11.0	-259.2	130.8	107.9	22.91	5.708	
4,327.1	4,307.4	4,341.0	4,321.6	13.7	14.0	168.42	-9.1	-261.8	128.4	105.5	22.85	5.618	
4,400.0	4,380.3	4,413.3	4,393.3	13.7	14.3	171.22	-3.9	-269.0	121.9	99.3	22.62	5.390	
4,500.0	4,480.3	4,512.6	4,491.9	13.8	14.7	175.57	3.2	-278.8	113.7	91.4	22.21	5.117	
4,600.0	4,580.3	4,611.8	4,590.4	13.8	15.1	-179.44	10.3	-288.5	106.1	84.5	21.66	4.899	
4,700.0	4,680.3	4,711.1	4,688.9	13.9	15.5	-173.75	17.4	-298.3	99.5	78.5	21.00	4.739	
4,800.0	4,780.3	4,810.3	4,787.4	13.9	15.9	-167.33	24.5	-308.1	94.0	73.7	20.29	4.633	
4,900.0	4,880.3	4,909.6	4,885.9	14.0	16.3	-160.22	31.6	-317.9	89.9	70.2	19.68	4.566	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11161-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,980.3	5,008.9	4,984.4	14.0	16.7	-152.57	38.8	-327.7	87.2	67.8	19.38	4.501	
5,100.0	5,080.3	5,108.1	5,082.9	14.1	17.1	-144.60	45.9	-337.5	86.2	66.7	19.58	4.405	
5,107.4	5,087.7	5,115.5	5,090.2	14.1	17.1	-144.00	46.4	-338.2	86.2	66.6	19.62	4.396	CC
5,200.0	5,180.3	5,207.4	5,181.5	14.2	17.5	-136.60	53.0	-347.3	87.0	66.6	20.36	4.271	ES
5,300.0	5,280.3	5,306.6	5,280.0	14.2	17.9	-128.88	60.1	-357.0	89.4	67.7	21.65	4.129	
5,400.0	5,380.3	5,405.9	5,378.5	14.3	18.3	-121.69	67.2	-366.8	93.3	70.1	23.23	4.018	
5,500.0	5,480.3	5,505.7	5,477.6	14.4	18.7	-115.32	74.1	-376.4	98.4	73.6	24.83	3.964	
5,600.0	5,580.3	5,606.1	5,577.5	14.4	19.1	-110.36	80.1	-384.6	103.7	77.5	26.25	3.951	
5,700.0	5,680.3	5,706.8	5,677.9	14.5	19.5	-106.62	85.1	-391.5	108.6	81.2	27.42	3.962	
5,800.0	5,780.3	5,807.8	5,778.6	14.5	19.8	-103.90	89.1	-396.9	112.8	84.5	28.35	3.979	
5,900.0	5,880.3	5,909.0	5,879.7	14.6	20.2	-102.03	92.0	-401.0	116.0	87.0	29.08	3.990	
6,000.0	5,980.3	6,010.4	5,981.0	14.7	20.5	-100.88	93.9	-403.5	118.2	88.5	29.62	3.989	
6,100.0	6,080.3	6,111.8	6,082.4	14.7	20.7	-100.39	94.7	-404.7	119.1	89.1	29.96	3.975	
6,200.0	6,180.3	6,212.2	6,182.8	14.8	20.8	-100.37	94.7	-404.7	119.1	89.1	30.07	3.962	
6,300.0	6,280.3	6,312.2	6,282.8	14.8	20.8	-100.37	94.7	-404.7	119.1	89.0	30.19	3.946	
6,400.0	6,380.3	6,412.2	6,382.8	14.9	20.9	-100.37	94.7	-404.7	119.1	88.8	30.31	3.931	
6,500.0	6,480.3	6,512.2	6,482.8	15.0	20.9	-100.37	94.7	-404.7	119.1	88.7	30.43	3.915	
6,600.0	6,580.3	6,612.2	6,582.8	15.0	20.9	-100.37	94.7	-404.7	119.1	88.6	30.55	3.900	
6,700.0	6,680.3	6,712.2	6,682.8	15.1	21.0	-100.37	94.7	-404.7	119.1	88.5	30.68	3.884	
6,800.0	6,780.3	6,812.2	6,782.8	15.2	21.0	-100.37	94.7	-404.7	119.1	88.3	30.80	3.869	
6,900.0	6,880.3	6,912.2	6,882.8	15.2	21.1	-100.37	94.7	-404.7	119.1	88.2	30.92	3.853	
7,000.0	6,980.3	7,012.2	6,982.8	15.3	21.1	-100.37	94.7	-404.7	119.1	88.1	31.04	3.838	
7,100.0	7,080.3	7,112.2	7,082.8	15.4	21.2	-100.37	94.7	-404.7	119.1	88.0	31.17	3.823	
7,200.0	7,180.3	7,212.2	7,182.8	15.4	21.2	-100.37	94.7	-404.7	119.1	87.9	31.29	3.808	
7,300.0	7,280.3	7,312.2	7,282.8	15.5	21.3	-100.37	94.7	-404.7	119.1	87.7	31.41	3.793	
7,400.0	7,380.3	7,412.2	7,382.8	15.5	21.3	-100.37	94.7	-404.7	119.1	87.6	31.54	3.778	
7,500.0	7,480.3	7,512.2	7,482.8	15.6	21.4	-100.37	94.7	-404.7	119.1	87.5	31.66	3.763	
7,600.0	7,580.3	7,612.2	7,582.8	15.7	21.4	-100.37	94.7	-404.7	119.1	87.4	31.79	3.748	
7,700.0	7,680.3	7,712.2	7,682.8	15.7	21.4	-100.37	94.7	-404.7	119.1	87.2	31.91	3.734	
7,800.0	7,780.3	7,812.2	7,782.8	15.8	21.5	-100.37	94.7	-404.7	119.1	87.1	32.04	3.719	
7,900.0	7,880.3	7,912.2	7,882.8	15.9	21.5	-100.37	94.7	-404.7	119.1	87.0	32.16	3.705	
8,000.0	7,980.3	8,012.2	7,982.8	15.9	21.6	-100.37	94.7	-404.7	119.1	86.9	32.29	3.690	
8,100.0	8,080.3	8,112.2	8,082.8	16.0	21.6	-100.37	94.7	-404.7	119.1	86.7	32.41	3.676	
8,200.0	8,180.3	8,212.2	8,182.8	16.1	21.7	-100.37	94.7	-404.7	119.1	86.6	32.54	3.661	
8,300.0	8,280.3	8,312.2	8,282.8	16.1	21.7	-100.37	94.7	-404.7	119.1	86.5	32.67	3.647	
8,400.0	8,380.3	8,412.2	8,382.8	16.2	21.8	-100.37	94.7	-404.7	119.1	86.4	32.79	3.633	
8,500.0	8,480.3	8,512.2	8,482.8	16.3	21.8	-100.37	94.7	-404.7	119.1	86.2	32.92	3.619	
8,600.0	8,580.3	8,612.2	8,582.8	16.3	21.9	-100.37	94.7	-404.7	119.1	86.1	33.05	3.605	
8,700.0	8,680.3	8,712.2	8,682.8	16.4	21.9	-100.37	94.7	-404.7	119.1	86.0	33.18	3.591	
8,800.0	8,780.3	8,812.2	8,782.8	16.5	22.0	-100.37	94.7	-404.7	119.1	85.8	33.31	3.577	
8,900.0	8,880.3	8,912.2	8,882.8	16.5	22.0	-100.37	94.7	-404.7	119.1	85.7	33.44	3.563	
9,000.0	8,980.3	9,012.2	8,982.8	16.6	22.1	-100.37	94.7	-404.7	119.1	85.6	33.56	3.550	
9,100.0	9,080.3	9,112.2	9,082.8	16.7	22.1	-100.37	94.7	-404.7	119.1	85.5	33.69	3.536	
9,200.0	9,180.3	9,212.2	9,182.8	16.7	22.2	-100.37	94.7	-404.7	119.1	85.3	33.82	3.523	
9,300.0	9,280.3	9,312.2	9,282.8	16.8	22.2	-100.37	94.7	-404.7	119.1	85.2	33.95	3.509	
9,400.0	9,380.3	9,412.2	9,382.8	16.9	22.3	-100.37	94.7	-404.7	119.1	85.1	34.08	3.496	
9,500.0	9,480.3	9,512.2	9,482.8	16.9	22.3	-100.37	94.7	-404.7	119.1	84.9	34.21	3.482	
9,600.0	9,580.3	9,612.2	9,582.8	17.0	22.4	-100.37	94.7	-404.7	119.1	84.8	34.34	3.469	
9,700.0	9,680.3	9,712.2	9,682.8	17.1	22.4	-100.37	94.7	-404.7	119.1	84.7	34.47	3.456	
9,800.0	9,780.3	9,812.2	9,782.8	17.1	22.5	-100.37	94.7	-404.7	119.1	84.5	34.61	3.443	
9,900.0	9,880.3	9,912.2	9,882.8	17.2	22.5	-100.37	94.7	-404.7	119.1	84.4	34.74	3.430	
10,000.0	9,980.3	10,012.2	9,982.8	17.3	22.6	-100.37	94.7	-404.7	119.1	84.3	34.87	3.417	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11161-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	10,080.3	10,112.2	10,082.8	17.3	22.6	-100.37	94.7	-404.7	119.1	84.1	35.00	3.404	
10,200.0	10,180.3	10,212.2	10,182.8	17.4	22.7	-100.37	94.7	-404.7	119.1	84.0	35.13	3.391	
10,300.0	10,280.3	10,312.2	10,282.8	17.5	22.7	-100.37	94.7	-404.7	119.1	83.9	35.27	3.379	
10,400.0	10,380.3	10,412.2	10,382.8	17.5	22.8	-100.37	94.7	-404.7	119.1	83.7	35.40	3.366	
10,500.0	10,480.3	10,512.2	10,482.8	17.6	22.8	-100.37	94.7	-404.7	119.1	83.6	35.53	3.353	
10,600.0	10,580.3	10,612.2	10,582.8	17.7	22.9	-100.37	94.7	-404.7	119.1	83.5	35.66	3.341	
10,700.0	10,680.3	10,712.2	10,682.8	17.8	22.9	-100.37	94.7	-404.7	119.1	83.3	35.80	3.328	
10,800.0	10,780.3	10,812.2	10,782.8	17.8	23.0	-100.37	94.7	-404.7	119.1	83.2	35.93	3.316	
10,900.0	10,880.3	10,912.2	10,882.8	17.9	23.1	-100.37	94.7	-404.7	119.1	83.1	36.06	3.304	
11,000.0	10,980.3	11,012.2	10,982.8	18.0	23.1	-100.37	94.7	-404.7	119.1	82.9	36.20	3.291	
11,100.0	11,080.3	11,112.2	11,082.8	18.0	23.2	-100.37	94.7	-404.7	119.1	82.8	36.33	3.280	
11,133.0	11,113.3	11,145.2	11,115.8	18.0	23.2	-100.37	94.7	-404.7	119.1	82.8	36.36	3.277	
11,149.8	11,130.0	11,161.4	11,132.0	18.0	23.2	-100.37	94.7	-404.7	119.1	82.8	36.38	3.275	SF
11,200.0	11,180.2	11,210.1	11,180.7	18.1	23.2	-102.05	92.7	-404.7	120.0	83.9	36.04	3.330	
11,250.0	11,229.8	11,255.9	11,226.1	18.1	23.2	-107.04	86.9	-404.7	123.3	88.2	35.05	3.517	
11,300.0	11,278.6	11,300.0	11,269.3	18.1	23.3	-114.04	78.0	-404.6	131.0	97.4	33.66	3.893	
11,350.0	11,326.2	11,335.3	11,303.3	18.1	23.3	-120.19	68.5	-404.5	145.2	112.5	32.74	4.435	
11,400.0	11,372.4	11,367.1	11,333.3	18.1	23.3	-125.41	58.2	-404.5	166.9	134.5	32.45	5.144	
11,450.0	11,416.7	11,393.3	11,357.7	18.2	23.3	-128.76	48.4	-404.4	195.7	162.9	32.81	5.966	
11,500.0	11,458.9	11,414.2	11,376.7	18.2	23.3	-130.08	39.8	-404.4	230.6	197.1	33.51	6.882	
11,550.0	11,498.5	11,430.3	11,391.1	18.2	23.3	-129.24	32.8	-404.3	270.1	235.8	34.27	7.881	
11,600.0	11,535.3	11,450.0	11,408.6	18.3	23.3	-128.30	23.6	-404.2	313.2	278.6	34.65	9.040	
11,650.0	11,569.1	11,450.0	11,408.6	18.3	23.3	-119.37	23.6	-404.2	358.5	323.0	35.56	10.083	
11,700.0	11,599.5	11,450.0	11,408.6	18.3	23.3	-106.41	23.6	-404.2	405.6	369.4	36.16	11.216	
11,750.0	11,626.4	11,450.0	11,408.6	18.4	23.3	-89.24	23.6	-404.2	453.7	417.1	36.54	12.415	
11,800.0	11,649.4	11,450.0	11,408.6	18.4	23.3	-70.29	23.6	-404.2	502.1	465.3	36.75	13.662	
11,850.0	11,668.5	11,450.0	11,408.6	18.5	23.3	-53.59	23.6	-404.2	550.4	513.6	36.83	14.945	
11,900.0	11,683.5	11,450.0	11,408.6	18.5	23.3	-41.04	23.6	-404.2	598.4	561.6	36.81	16.255	
11,950.0	11,694.3	11,450.0	11,408.6	18.6	23.3	-32.19	23.6	-404.2	645.8	609.1	36.73	17.583	
12,000.0	11,700.8	11,432.3	11,393.0	18.6	23.3	-24.53	31.8	-404.3	691.9	655.0	36.88	18.763	
12,049.8	11,703.0	11,423.2	11,384.8	18.7	23.3	-20.05	35.9	-404.3	736.7	699.9	36.81	20.016	
12,100.0	11,703.0	11,400.0	11,363.8	18.8	23.3	-18.91	45.8	-404.4	781.7	744.8	36.91	21.180	
12,200.0	11,703.0	11,400.0	11,363.8	19.0	23.3	-18.91	45.8	-404.4	871.6	835.1	36.54	23.853	
12,300.0	11,703.0	11,381.8	11,347.0	19.2	23.3	-18.09	52.9	-404.4	963.0	926.6	36.48	26.402	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11325-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.7	1.7	3.0	3.0	171.22	-200.2	30.9	202.6				
100.0	100.0	101.7	101.7	3.0	3.0	171.22	-200.2	30.9	202.6	196.1	6.52	31.058	
200.0	200.0	201.7	201.7	3.2	3.2	171.22	-200.2	30.9	202.6	195.8	6.77	29.914	
300.0	300.0	301.7	301.7	3.3	3.3	171.22	-200.2	30.9	202.6	195.6	7.02	28.862	
400.0	400.0	401.7	401.7	3.4	3.4	171.22	-200.2	30.9	202.6	195.4	7.27	27.889	
500.0	500.0	501.7	501.7	3.5	3.5	171.22	-200.2	30.9	202.6	195.1	7.51	26.986	
600.0	600.0	601.7	601.7	3.7	3.7	171.22	-200.2	30.9	202.6	194.9	7.75	26.145	
700.0	700.0	701.7	701.7	3.8	3.8	171.22	-200.2	30.9	202.6	194.6	7.99	25.359	
800.0	800.0	801.7	801.7	3.9	3.9	171.22	-200.2	30.9	202.6	194.4	8.23	24.623	
900.0	900.0	901.7	901.7	4.0	4.0	171.22	-200.2	30.9	202.6	194.1	8.47	23.932	
1,000.0	1,000.0	1,001.7	1,001.7	4.2	4.2	171.22	-200.2	30.9	202.6	193.9	8.70	23.282	
1,100.0	1,100.0	1,101.7	1,101.7	4.3	4.3	171.22	-200.2	30.9	202.6	193.7	8.94	22.668	
1,200.0	1,200.0	1,201.7	1,201.7	4.4	4.4	171.22	-200.2	30.9	202.6	193.4	9.17	22.089	
1,300.0	1,300.0	1,301.7	1,301.7	4.5	4.5	171.22	-200.2	30.9	202.6	193.2	9.41	21.540	
1,400.0	1,400.0	1,401.7	1,401.7	4.6	4.6	171.22	-200.2	30.9	202.6	193.0	9.64	21.019	
1,500.0	1,500.0	1,501.8	1,501.8	4.8	4.8	171.22	-200.2	30.9	202.6	192.7	9.87	20.521	
1,600.0	1,600.0	1,609.3	1,609.3	4.9	5.0	-121.33	-198.2	30.9	201.6	191.4	10.21	19.752	
1,700.0	1,699.8	1,716.5	1,716.3	5.1	5.3	-122.97	-192.1	30.6	198.7	188.1	10.65	18.662	
1,800.0	1,799.5	1,823.3	1,822.6	5.3	5.6	-125.79	-182.0	30.2	194.4	183.3	11.11	17.497	
1,900.0	1,898.7	1,927.4	1,925.8	5.6	5.9	-129.79	-168.6	29.7	189.2	177.6	11.57	16.344	
2,000.0	1,997.7	2,026.2	2,023.7	5.8	6.1	-134.19	-154.8	29.1	185.1	173.1	11.99	15.444	
2,100.0	2,096.8	2,125.1	2,121.6	6.1	6.3	-138.75	-141.1	28.6	182.2	169.8	12.43	14.664	
2,200.0	2,195.8	2,224.0	2,219.5	6.4	6.6	-143.43	-127.3	28.0	180.5	167.6	12.89	14.009	
2,284.1	2,279.1	2,307.1	2,301.9	6.6	6.9	-147.40	-115.8	27.5	180.1	166.8	13.29	13.553	CC
2,300.0	2,294.8	2,322.8	2,317.4	6.7	6.9	-148.16	-113.6	27.5	180.1	166.7	13.36	13.477	ES
2,400.0	2,393.8	2,421.7	2,415.3	7.0	7.2	-152.87	-99.8	26.9	180.9	167.1	13.85	13.064	
2,500.0	2,492.9	2,520.5	2,513.2	7.3	7.5	-157.52	-86.1	26.4	183.0	168.7	14.34	12.762	
2,600.0	2,591.9	2,619.4	2,611.1	7.6	7.8	-162.03	-72.3	25.8	186.3	171.4	14.83	12.562	
2,700.0	2,690.9	2,718.3	2,709.0	8.0	8.2	-166.37	-58.6	25.3	190.7	175.4	15.31	12.453	
2,800.0	2,789.9	2,817.1	2,806.9	8.3	8.5	-170.50	-44.8	24.7	196.1	180.3	15.79	12.424	
2,900.0	2,889.0	2,916.0	2,904.8	8.7	8.9	-174.38	-31.1	24.1	202.6	186.3	16.25	12.462	
3,000.0	2,988.0	3,014.8	3,002.7	9.0	9.2	-178.01	-17.4	23.6	209.9	193.2	16.71	12.557	
3,100.0	3,087.0	3,113.7	3,100.6	9.4	9.6	178.60	-3.6	23.0	218.0	200.8	17.17	12.699	
3,200.0	3,186.1	3,212.6	3,198.5	9.8	10.0	175.47	10.1	22.5	226.8	209.2	17.61	12.877	
3,300.0	3,285.1	3,311.4	3,296.4	10.2	10.3	172.58	23.9	21.9	236.3	218.2	18.05	13.088	
3,400.0	3,384.1	3,409.8	3,393.8	10.6	10.7	169.96	37.4	21.4	246.3	227.9	18.45	13.348	
3,500.0	3,483.1	3,507.8	3,491.1	10.9	11.0	167.87	49.5	20.9	257.2	238.3	18.91	13.602	
3,527.1	3,510.0	3,534.4	3,517.5	11.0	11.1	167.40	52.4	20.8	260.2	241.2	19.02	13.684	
3,600.0	3,582.2	3,606.0	3,588.7	11.3	11.4	166.30	59.9	20.5	268.2	248.8	19.34	13.868	
3,700.0	3,681.5	3,704.5	3,686.9	11.7	11.8	165.11	68.6	20.1	278.1	258.3	19.80	14.040	
3,800.0	3,781.0	3,803.3	3,785.4	12.1	12.1	164.24	75.7	19.9	286.6	266.4	20.27	14.141	
3,900.0	3,880.7	3,902.3	3,884.2	12.4	12.4	163.65	81.1	19.6	293.9	273.1	20.73	14.174	
4,000.0	3,980.4	4,001.4	3,983.2	12.8	12.7	163.32	84.8	19.5	299.7	278.5	21.19	14.143	
4,100.0	4,080.3	4,100.6	4,082.4	13.1	13.0	163.22	86.8	19.4	304.0	282.4	21.63	14.056	
4,200.0	4,180.3	4,200.1	4,181.9	13.4	13.1	163.32	87.1	19.4	306.9	284.9	22.02	13.942	
4,300.0	4,280.3	4,300.1	4,281.9	13.6	13.2	163.40	87.1	19.4	308.2	285.8	22.38	13.773	
4,327.1	4,307.4	4,327.2	4,309.1	13.7	13.2	95.40	87.1	19.4	308.3	285.9	22.43	13.745	
4,400.0	4,380.3	4,400.1	4,381.9	13.7	13.2	95.40	87.1	19.4	308.3	285.8	22.52	13.688	
4,500.0	4,480.3	4,500.1	4,481.9	13.8	13.3	95.40	87.1	19.4	308.3	285.6	22.67	13.598	
4,600.0	4,580.3	4,600.1	4,581.9	13.8	13.4	95.40	87.1	19.4	308.3	285.5	22.82	13.509	
4,700.0	4,680.3	4,700.1	4,681.9	13.9	13.4	95.40	87.1	19.4	308.3	285.3	22.97	13.421	
4,800.0	4,780.3	4,800.1	4,781.9	13.9	13.5	95.40	87.1	19.4	308.3	285.2	23.12	13.334	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11325-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,880.3	4,900.1	4,881.9	14.0	13.6	95.40	87.1	19.4	308.3	285.0	23.27	13.248	
5,000.0	4,980.3	5,000.1	4,981.9	14.0	13.6	95.40	87.1	19.4	308.3	284.9	23.42	13.164	
5,100.0	5,080.3	5,100.1	5,081.9	14.1	13.7	95.40	87.1	19.4	308.3	284.7	23.57	13.080	
5,200.0	5,180.3	5,200.1	5,181.9	14.2	13.8	95.40	87.1	19.4	308.3	284.6	23.72	12.997	
5,300.0	5,280.3	5,300.1	5,281.9	14.2	13.9	95.40	87.1	19.4	308.3	284.4	23.87	12.915	
5,400.0	5,380.3	5,400.1	5,381.9	14.3	13.9	95.40	87.1	19.4	308.3	284.3	24.02	12.835	
5,500.0	5,480.3	5,500.1	5,481.9	14.4	14.0	95.40	87.1	19.4	308.3	284.1	24.17	12.755	
5,600.0	5,580.3	5,600.1	5,581.9	14.4	14.1	95.40	87.1	19.4	308.3	284.0	24.32	12.676	
5,700.0	5,680.3	5,700.1	5,681.9	14.5	14.1	95.40	87.1	19.4	308.3	283.8	24.47	12.597	
5,800.0	5,780.3	5,800.1	5,781.9	14.5	14.2	95.40	87.1	19.4	308.3	283.7	24.62	12.520	
5,900.0	5,880.3	5,900.1	5,881.9	14.6	14.3	95.40	87.1	19.4	308.3	283.5	24.77	12.444	
6,000.0	5,980.3	6,000.1	5,981.9	14.7	14.4	95.40	87.1	19.4	308.3	283.4	24.92	12.368	
6,100.0	6,080.3	6,100.1	6,081.9	14.7	14.4	95.40	87.1	19.4	308.3	283.2	25.08	12.294	
6,200.0	6,180.3	6,200.1	6,181.9	14.8	14.5	95.40	87.1	19.4	308.3	283.1	25.23	12.220	
6,300.0	6,280.3	6,300.1	6,281.9	14.8	14.6	95.40	87.1	19.4	308.3	282.9	25.38	12.147	
6,400.0	6,380.3	6,400.1	6,381.9	14.9	14.6	95.40	87.1	19.4	308.3	282.7	25.53	12.075	
6,500.0	6,480.3	6,500.1	6,481.9	15.0	14.7	95.40	87.1	19.4	308.3	282.6	25.68	12.004	
6,600.0	6,580.3	6,600.1	6,581.9	15.0	14.8	95.40	87.1	19.4	308.3	282.4	25.83	11.933	
6,700.0	6,680.3	6,700.1	6,681.9	15.1	14.9	95.40	87.1	19.4	308.3	282.3	25.99	11.863	
6,800.0	6,780.3	6,800.1	6,781.9	15.2	14.9	95.40	87.1	19.4	308.3	282.1	26.14	11.794	
6,900.0	6,880.3	6,900.1	6,881.9	15.2	15.0	95.40	87.1	19.4	308.3	282.0	26.29	11.726	
7,000.0	6,980.3	7,000.1	6,981.9	15.3	15.1	95.40	87.1	19.4	308.3	281.8	26.44	11.658	
7,100.0	7,080.3	7,100.1	7,081.9	15.4	15.1	95.40	87.1	19.4	308.3	281.7	26.60	11.591	
7,200.0	7,180.3	7,200.1	7,181.9	15.4	15.2	95.40	87.1	19.4	308.3	281.5	26.75	11.525	
7,300.0	7,280.3	7,300.1	7,281.9	15.5	15.3	95.40	87.1	19.4	308.3	281.4	26.90	11.460	
7,400.0	7,380.3	7,400.1	7,381.9	15.5	15.4	95.40	87.1	19.4	308.3	281.2	27.05	11.395	
7,500.0	7,480.3	7,500.1	7,481.9	15.6	15.4	95.40	87.1	19.4	308.3	281.1	27.21	11.331	
7,600.0	7,580.3	7,600.1	7,581.9	15.7	15.5	95.40	87.1	19.4	308.3	280.9	27.36	11.268	
7,700.0	7,680.3	7,700.1	7,681.9	15.7	15.6	95.40	87.1	19.4	308.3	280.8	27.51	11.205	
7,800.0	7,780.3	7,800.1	7,781.9	15.8	15.7	95.40	87.1	19.4	308.3	280.6	27.67	11.143	
7,900.0	7,880.3	7,900.1	7,881.9	15.9	15.7	95.40	87.1	19.4	308.3	280.5	27.82	11.082	
8,000.0	7,980.3	8,000.1	7,981.9	15.9	15.8	95.40	87.1	19.4	308.3	280.3	27.97	11.021	
8,100.0	8,080.3	8,100.1	8,081.9	16.0	15.9	95.40	87.1	19.4	308.3	280.2	28.13	10.961	
8,200.0	8,180.3	8,200.1	8,181.9	16.1	15.9	95.40	87.1	19.4	308.3	280.0	28.28	10.902	
8,300.0	8,280.3	8,300.1	8,281.9	16.1	16.0	95.40	87.1	19.4	308.3	279.8	28.43	10.843	
8,400.0	8,380.3	8,400.1	8,381.9	16.2	16.1	95.40	87.1	19.4	308.3	279.7	28.59	10.784	
8,500.0	8,480.3	8,500.1	8,481.9	16.3	16.2	95.40	87.1	19.4	308.3	279.5	28.74	10.727	
8,600.0	8,580.3	8,600.1	8,581.9	16.3	16.2	95.40	87.1	19.4	308.3	279.4	28.89	10.670	
8,700.0	8,680.3	8,700.1	8,681.9	16.4	16.3	95.40	87.1	19.4	308.3	279.2	29.05	10.613	
8,800.0	8,780.3	8,800.1	8,781.9	16.5	16.4	95.40	87.1	19.4	308.3	279.1	29.20	10.557	
8,900.0	8,880.3	8,900.1	8,881.9	16.5	16.5	95.40	87.1	19.4	308.3	278.9	29.36	10.502	
9,000.0	8,980.3	9,000.1	8,981.9	16.6	16.5	95.40	87.1	19.4	308.3	278.8	29.51	10.447	
9,100.0	9,080.3	9,100.1	9,081.9	16.7	16.6	95.40	87.1	19.4	308.3	278.6	29.66	10.393	
9,200.0	9,180.3	9,200.1	9,181.9	16.7	16.7	95.40	87.1	19.4	308.3	278.5	29.82	10.339	
9,300.0	9,280.3	9,300.1	9,281.9	16.8	16.8	95.40	87.1	19.4	308.3	278.3	29.97	10.286	
9,400.0	9,380.3	9,400.1	9,381.9	16.9	16.8	95.40	87.1	19.4	308.3	278.2	30.13	10.233	
9,500.0	9,480.3	9,500.1	9,481.9	16.9	16.9	95.40	87.1	19.4	308.3	278.0	30.28	10.181	
9,600.0	9,580.3	9,600.1	9,581.9	17.0	17.0	95.40	87.1	19.4	308.3	277.8	30.44	10.129	
9,700.0	9,680.3	9,700.1	9,681.9	17.1	17.1	95.40	87.1	19.4	308.3	277.7	30.59	10.078	
9,800.0	9,780.3	9,800.1	9,781.9	17.1	17.1	95.40	87.1	19.4	308.3	277.5	30.74	10.027	
9,900.0	9,880.3	9,900.1	9,881.9	17.2	17.2	95.40	87.1	19.4	308.3	277.4	30.90	9.977	
10,000.0	9,980.3	10,000.1	9,981.9	17.3	17.3	95.40	87.1	19.4	308.3	277.2	31.05	9.927	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11325-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	10,080.3	10,100.1	10,081.9	17.3	17.3	95.40	87.1	19.4	308.3	277.1	31.21	9.878	
10,200.0	10,180.3	10,200.1	10,181.9	17.4	17.4	95.40	87.1	19.4	308.3	276.9	31.36	9.829	
10,300.0	10,280.3	10,300.1	10,281.9	17.5	17.5	95.40	87.1	19.4	308.3	276.8	31.52	9.781	
10,400.0	10,380.3	10,400.1	10,381.9	17.5	17.6	95.40	87.1	19.4	308.3	276.6	31.67	9.733	
10,500.0	10,480.3	10,500.1	10,481.9	17.6	17.6	95.40	87.1	19.4	308.3	276.5	31.83	9.686	
10,600.0	10,580.3	10,600.1	10,581.9	17.7	17.7	95.40	87.1	19.4	308.3	276.3	31.98	9.639	
10,700.0	10,680.3	10,700.1	10,681.9	17.8	17.8	95.40	87.1	19.4	308.3	276.1	32.14	9.592	
10,800.0	10,780.3	10,800.1	10,781.9	17.8	17.9	95.40	87.1	19.4	308.3	276.0	32.29	9.546	
10,900.0	10,880.3	10,900.1	10,881.9	17.9	17.9	95.40	87.1	19.4	308.3	275.8	32.45	9.500	
11,000.0	10,980.3	11,000.1	10,981.9	18.0	18.0	95.40	87.1	19.4	308.3	275.7	32.61	9.455	
11,100.0	11,080.3	11,100.1	11,081.9	18.0	18.1	95.40	87.1	19.4	308.3	275.5	32.76	9.410	
11,149.8	11,130.0	11,149.9	11,131.7	18.0	18.1	95.40	87.1	19.4	308.3	275.5	32.82	9.394	
11,200.0	11,180.2	11,200.0	11,181.9	18.1	18.2	95.98	87.1	19.4	308.5	275.6	32.89	9.380	
11,250.0	11,229.8	11,249.6	11,231.4	18.1	18.2	97.10	87.1	19.4	309.3	276.3	33.00	9.372 SF	
11,300.0	11,278.6	11,298.4	11,280.2	18.1	18.2	98.88	87.1	19.4	310.8	277.7	33.15	9.376	
11,350.0	11,326.2	11,343.9	11,325.7	18.1	18.3	101.12	86.8	19.4	313.6	280.3	33.30	9.417	
11,400.0	11,372.4	11,383.4	11,365.1	18.1	18.3	103.71	84.2	19.4	319.0	285.5	33.51	9.518	
11,450.0	11,416.7	11,418.1	11,399.5	18.2	18.4	106.28	79.6	19.4	328.0	294.2	33.79	9.708	
11,500.0	11,458.9	11,450.0	11,430.9	18.2	18.4	108.66	73.6	19.5	341.7	307.6	34.12	10.014	
11,550.0	11,498.5	11,471.8	11,452.1	18.2	18.4	109.58	68.5	19.5	360.5	325.9	34.52	10.443	
11,600.0	11,535.3	11,491.1	11,470.6	18.3	18.5	109.70	63.3	19.6	384.5	349.5	34.94	11.004	
11,650.0	11,569.1	11,500.0	11,479.1	18.3	18.5	107.66	60.7	19.6	413.4	378.0	35.42	11.670	
11,700.0	11,599.5	11,516.4	11,494.7	18.3	18.5	106.04	55.5	19.6	446.4	410.6	35.74	12.489	
11,750.0	11,626.4	11,523.4	11,501.3	18.4	18.5	102.04	53.2	19.6	482.9	446.8	36.08	13.385	
11,800.0	11,649.4	11,527.2	11,504.9	18.4	18.5	96.48	51.9	19.6	522.1	485.8	36.35	14.363	
11,850.0	11,668.5	11,528.3	11,505.9	18.5	18.5	89.42	51.5	19.6	563.3	526.8	36.56	15.407	
11,900.0	11,683.5	11,527.0	11,504.7	18.5	18.5	81.17	52.0	19.6	605.8	569.1	36.71	16.503	
11,950.0	11,694.3	11,523.7	11,501.6	18.6	18.5	72.24	53.1	19.6	649.0	612.2	36.79	17.639	
12,000.0	11,700.8	11,518.5	11,496.7	18.6	18.5	63.32	54.8	19.6	692.4	655.6	36.83	18.802	
12,049.8	11,703.0	11,500.0	11,479.1	18.7	18.5	53.69	60.7	19.6	735.7	698.8	36.94	19.918	
12,100.0	11,703.0	11,500.0	11,479.1	18.8	18.5	53.69	60.7	19.6	779.1	742.3	36.83	21.157	
12,200.0	11,703.0	11,500.0	11,479.1	19.0	18.5	53.69	60.7	19.6	867.7	831.1	36.66	23.672	
12,300.0	11,703.0	11,480.9	11,460.8	19.2	18.4	51.53	66.1	19.5	958.1	921.4	36.65	26.139	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11162-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.4	1.4	3.0	3.0	163.05	-200.4	61.1	209.5				
100.0	100.0	101.4	101.4	3.0	3.0	163.05	-200.4	61.1	209.5	203.0	6.52	32.118	
200.0	200.0	201.4	201.4	3.2	3.2	163.05	-200.4	61.1	209.5	202.7	6.77	30.938	
300.0	300.0	301.4	301.4	3.3	3.3	163.05	-200.4	61.1	209.5	202.5	7.02	29.854	
400.0	400.0	401.4	401.4	3.4	3.4	163.05	-200.4	61.1	209.5	202.3	7.26	28.853	
500.0	500.0	501.4	501.4	3.5	3.5	163.05	-200.4	61.1	209.5	202.0	7.50	27.924	
600.0	600.0	601.4	601.4	3.7	3.7	163.05	-200.4	61.1	209.5	201.8	7.74	27.060	
700.0	700.0	701.4	701.4	3.8	3.8	163.05	-200.4	61.1	209.5	201.5	7.98	26.254	
800.0	800.0	801.4	801.4	3.9	3.9	163.05	-200.4	61.1	209.5	201.3	8.22	25.499	
900.0	900.0	901.4	901.4	4.0	4.0	163.05	-200.4	61.1	209.5	201.1	8.45	24.791	
1,000.0	1,000.0	1,001.4	1,001.4	4.2	4.2	163.05	-200.4	61.1	209.5	200.8	8.69	24.124	
1,100.0	1,100.0	1,101.4	1,101.4	4.3	4.3	163.05	-200.4	61.1	209.5	200.6	8.92	23.495	
1,200.0	1,200.0	1,201.4	1,201.4	4.4	4.4	163.05	-200.4	61.1	209.5	200.4	9.15	22.902	
1,300.0	1,300.0	1,301.4	1,301.4	4.5	4.5	163.05	-200.4	61.1	209.5	200.1	9.38	22.339	
1,400.0	1,400.0	1,401.4	1,401.4	4.6	4.6	163.05	-200.4	61.1	209.5	199.9	9.61	21.806	
1,500.0	1,500.0	1,501.4	1,501.4	4.8	4.8	163.05	-200.4	61.1	209.5	199.7	9.84	21.299	
1,507.6	1,507.6	1,509.4	1,509.4	4.8	4.8	-128.95	-200.4	61.1	209.5	199.7	9.86	21.259	CC
1,600.0	1,600.0	1,605.3	1,605.3	4.9	4.9	-129.62	-199.2	61.8	209.7	199.6	10.09	20.784	ES
1,700.0	1,699.8	1,708.8	1,708.7	5.1	5.1	-131.60	-195.5	63.9	210.4	199.9	10.45	20.125	
1,800.0	1,799.5	1,811.7	1,811.3	5.3	5.3	-134.83	-189.4	67.4	212.1	201.2	10.83	19.585	
1,900.0	1,898.7	1,913.6	1,912.8	5.6	5.6	-139.16	-181.0	72.3	215.5	204.3	11.22	19.206	
2,000.0	1,997.7	2,014.6	2,013.0	5.8	5.8	-144.22	-170.4	78.4	220.3	208.8	11.57	19.045	SF
2,100.0	2,096.8	2,107.1	2,104.7	6.1	6.0	-149.03	-160.0	85.4	227.1	215.2	11.90	19.078	
2,200.0	2,195.8	2,200.0	2,196.7	6.4	6.3	-153.61	-151.7	94.6	238.6	226.2	12.35	19.319	
2,300.0	2,294.8	2,288.1	2,284.0	6.7	6.4	-157.54	-145.7	105.1	254.6	241.9	12.68	20.082	
2,400.0	2,393.8	2,384.9	2,379.9	7.0	6.7	-161.34	-139.8	117.2	272.8	259.7	13.09	20.836	
2,500.0	2,492.9	2,481.7	2,475.7	7.3	7.0	-164.66	-133.9	129.3	292.0	278.5	13.56	21.544	
2,600.0	2,591.9	2,578.4	2,571.5	7.6	7.3	-167.58	-128.0	141.4	312.1	298.1	14.05	22.209	
2,700.0	2,690.9	2,675.2	2,667.3	8.0	7.6	-170.14	-122.1	153.5	332.9	318.3	14.58	22.827	
2,800.0	2,789.9	2,772.0	2,763.2	8.3	7.9	-172.41	-116.2	165.6	354.3	339.2	15.14	23.396	
2,900.0	2,889.0	2,868.7	2,859.0	8.7	8.2	-174.42	-110.3	177.7	376.2	360.4	15.73	23.918	
3,000.0	2,988.0	2,965.5	2,954.8	9.0	8.5	-176.20	-104.4	189.8	398.4	382.1	16.33	24.396	
3,100.0	3,087.0	3,062.3	3,050.6	9.4	8.9	-177.81	-98.5	201.9	421.0	404.0	16.95	24.833	
3,200.0	3,186.1	3,159.0	3,146.5	9.8	9.2	-179.25	-92.6	214.0	443.9	426.3	17.59	25.232	
3,300.0	3,285.1	3,255.8	3,242.3	10.2	9.6	179.45	-86.7	226.1	467.0	448.7	18.24	25.598	
3,400.0	3,384.1	3,352.6	3,338.1	10.6	10.0	178.28	-80.8	238.2	490.3	471.4	18.91	25.934	
3,500.0	3,483.1	3,449.3	3,434.0	10.9	10.3	177.21	-74.9	250.3	513.8	494.2	19.58	26.242	
3,527.1	3,510.0	3,475.6	3,460.0	11.0	10.4	176.93	-73.3	253.6	520.2	500.4	19.75	26.341	
3,600.0	3,582.2	3,546.2	3,529.9	11.3	10.7	176.23	-69.0	262.4	537.0	516.8	20.23	26.547	
3,700.0	3,681.5	3,643.4	3,626.2	11.7	11.1	175.34	-63.0	274.6	558.7	537.8	20.91	26.723	
3,800.0	3,781.0	3,741.0	3,722.8	12.1	11.5	174.49	-57.1	286.8	578.8	557.3	21.58	26.820	
3,900.0	3,880.7	3,838.9	3,819.8	12.4	11.9	173.69	-51.1	299.1	597.4	575.1	22.25	26.847	
4,000.0	3,980.4	3,937.1	3,917.0	12.8	12.2	172.91	-45.1	311.4	614.4	591.5	22.91	26.815	
4,100.0	4,080.3	4,035.6	4,014.5	13.1	12.6	172.16	-39.1	323.7	629.7	606.2	23.56	26.733	
4,200.0	4,180.3	4,134.3	4,112.2	13.4	13.0	171.42	-33.1	336.0	643.5	619.3	24.18	26.615	
4,300.0	4,280.3	4,233.2	4,210.2	13.6	13.4	170.69	-27.1	348.4	655.7	630.9	24.75	26.488	
4,327.1	4,307.4	4,260.0	4,236.8	13.7	13.5	102.49	-25.4	351.7	658.7	633.8	24.87	26.489	
4,400.0	4,380.3	4,332.2	4,308.2	13.7	13.8	101.95	-21.0	360.8	666.7	641.6	25.14	26.521	
4,500.0	4,480.3	4,431.2	4,406.3	13.8	14.2	101.23	-15.0	373.2	677.8	652.2	25.54	26.538	
4,600.0	4,580.3	4,530.3	4,504.3	13.8	14.6	100.53	-8.9	385.5	688.9	663.0	25.95	26.548	
4,700.0	4,680.3	4,629.3	4,602.4	13.9	15.0	99.85	-2.9	397.9	700.2	673.8	26.37	26.552	
4,800.0	4,780.3	4,728.3	4,700.5	13.9	15.5	99.20	3.1	410.3	711.6	684.8	26.80	26.550	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11162-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,880.3	4,835.5	4,806.6	14.0	15.9	98.53	9.6	423.5	722.8	695.5	27.33	26.448	
5,000.0	4,980.3	4,961.4	4,931.9	14.0	16.5	97.94	15.3	435.2	731.5	703.5	27.99	26.133	
5,100.0	5,080.3	5,088.3	5,058.5	14.1	17.0	97.61	18.6	442.1	736.4	707.9	28.49	25.848	
5,200.0	5,180.3	5,211.5	5,181.7	14.2	17.2	97.53	19.5	443.9	737.8	709.0	28.76	25.656	
5,300.0	5,280.3	5,311.5	5,281.7	14.2	17.4	97.53	19.5	443.9	737.8	708.8	28.97	25.468	
5,400.0	5,380.3	5,411.5	5,381.7	14.3	17.4	97.53	19.5	443.9	737.8	708.7	29.09	25.366	
5,500.0	5,480.3	5,511.5	5,481.7	14.4	17.5	97.53	19.5	443.9	737.8	708.6	29.20	25.264	
5,600.0	5,580.3	5,611.5	5,581.7	14.4	17.5	97.53	19.5	443.9	737.8	708.5	29.32	25.163	
5,700.0	5,680.3	5,711.5	5,681.7	14.5	17.6	97.53	19.5	443.9	737.8	708.3	29.44	25.062	
5,800.0	5,780.3	5,811.5	5,781.7	14.5	17.6	97.53	19.5	443.9	737.8	708.2	29.56	24.961	
5,900.0	5,880.3	5,911.5	5,881.7	14.6	17.7	97.53	19.5	443.9	737.8	708.1	29.68	24.861	
6,000.0	5,980.3	6,011.5	5,981.7	14.7	17.7	97.53	19.5	443.9	737.8	708.0	29.80	24.762	
6,100.0	6,080.3	6,111.5	6,081.7	14.7	17.8	97.53	19.5	443.9	737.8	707.9	29.91	24.662	
6,200.0	6,180.3	6,211.5	6,181.7	14.8	17.8	97.53	19.5	443.9	737.8	707.7	30.04	24.564	
6,300.0	6,280.3	6,311.5	6,281.7	14.8	17.9	97.53	19.5	443.9	737.8	707.6	30.16	24.466	
6,400.0	6,380.3	6,411.5	6,381.7	14.9	17.9	97.53	19.5	443.9	737.8	707.5	30.28	24.368	
6,500.0	6,480.3	6,511.5	6,481.7	15.0	18.0	97.53	19.5	443.9	737.8	707.4	30.40	24.271	
6,600.0	6,580.3	6,611.5	6,581.7	15.0	18.0	97.53	19.5	443.9	737.8	707.3	30.52	24.174	
6,700.0	6,680.3	6,711.5	6,681.7	15.1	18.1	97.53	19.5	443.9	737.8	707.1	30.64	24.078	
6,800.0	6,780.3	6,811.5	6,781.7	15.2	18.1	97.53	19.5	443.9	737.8	707.0	30.76	23.982	
6,900.0	6,880.3	6,911.5	6,881.7	15.2	18.2	97.53	19.5	443.9	737.8	706.9	30.89	23.886	
7,000.0	6,980.3	7,011.5	6,981.7	15.3	18.2	97.53	19.5	443.9	737.8	706.8	31.01	23.792	
7,100.0	7,080.3	7,111.5	7,081.7	15.4	18.3	97.53	19.5	443.9	737.8	706.6	31.13	23.697	
7,200.0	7,180.3	7,211.5	7,181.7	15.4	18.3	97.53	19.5	443.9	737.8	706.5	31.26	23.603	
7,300.0	7,280.3	7,311.5	7,281.7	15.5	18.4	97.53	19.5	443.9	737.8	706.4	31.38	23.510	
7,400.0	7,380.3	7,411.5	7,381.7	15.5	18.4	97.53	19.5	443.9	737.8	706.3	31.51	23.417	
7,500.0	7,480.3	7,511.5	7,481.7	15.6	18.5	97.53	19.5	443.9	737.8	706.1	31.63	23.325	
7,600.0	7,580.3	7,611.5	7,581.7	15.7	18.6	97.53	19.5	443.9	737.8	706.0	31.76	23.233	
7,700.0	7,680.3	7,711.5	7,681.7	15.7	18.6	97.53	19.5	443.9	737.8	705.9	31.88	23.141	
7,800.0	7,780.3	7,811.5	7,781.7	15.8	18.7	97.53	19.5	443.9	737.8	705.8	32.01	23.050	
7,900.0	7,880.3	7,911.5	7,881.7	15.9	18.7	97.53	19.5	443.9	737.8	705.6	32.13	22.960	
8,000.0	7,980.3	8,011.5	7,981.7	15.9	18.8	97.53	19.5	443.9	737.8	705.5	32.26	22.870	
8,100.0	8,080.3	8,111.5	8,081.7	16.0	18.8	97.53	19.5	443.9	737.8	705.4	32.39	22.781	
8,200.0	8,180.3	8,211.5	8,181.7	16.1	18.9	97.53	19.5	443.9	737.8	705.3	32.51	22.691	
8,300.0	8,280.3	8,311.5	8,281.7	16.1	18.9	97.53	19.5	443.9	737.8	705.1	32.64	22.603	
8,400.0	8,380.3	8,411.5	8,381.7	16.2	19.0	97.53	19.5	443.9	737.8	705.0	32.77	22.515	
8,500.0	8,480.3	8,511.5	8,481.7	16.3	19.1	97.53	19.5	443.9	737.8	704.9	32.90	22.427	
8,600.0	8,580.3	8,611.5	8,581.7	16.3	19.1	97.53	19.5	443.9	737.8	704.7	33.02	22.340	
8,700.0	8,680.3	8,711.5	8,681.7	16.4	19.2	97.53	19.5	443.9	737.8	704.6	33.15	22.254	
8,800.0	8,780.3	8,811.5	8,781.7	16.5	19.2	97.53	19.5	443.9	737.8	704.5	33.28	22.167	
8,900.0	8,880.3	8,911.5	8,881.7	16.5	19.3	97.53	19.5	443.9	737.8	704.4	33.41	22.082	
9,000.0	8,980.3	9,011.5	8,981.7	16.6	19.3	97.53	19.5	443.9	737.8	704.2	33.54	21.997	
9,100.0	9,080.3	9,111.5	9,081.7	16.7	19.4	97.53	19.5	443.9	737.8	704.1	33.67	21.912	
9,200.0	9,180.3	9,211.5	9,181.7	16.7	19.5	97.53	19.5	443.9	737.8	704.0	33.80	21.828	
9,300.0	9,280.3	9,311.5	9,281.7	16.8	19.5	97.53	19.5	443.9	737.8	703.8	33.93	21.744	
9,400.0	9,380.3	9,411.5	9,381.7	16.9	19.6	97.53	19.5	443.9	737.8	703.7	34.06	21.661	
9,500.0	9,480.3	9,511.5	9,481.7	16.9	19.6	97.53	19.5	443.9	737.8	703.6	34.19	21.578	
9,600.0	9,580.3	9,611.5	9,581.7	17.0	19.7	97.53	19.5	443.9	737.8	703.5	34.32	21.495	
9,700.0	9,680.3	9,711.5	9,681.7	17.1	19.7	97.53	19.5	443.9	737.8	703.3	34.45	21.414	
9,800.0	9,780.3	9,811.5	9,781.7	17.1	19.8	97.53	19.5	443.9	737.8	703.2	34.59	21.332	
9,900.0	9,880.3	9,911.5	9,881.7	17.2	19.9	97.53	19.5	443.9	737.8	703.1	34.72	21.251	
10,000.0	9,980.3	10,011.5	9,981.7	17.3	19.9	97.53	19.5	443.9	737.8	702.9	34.85	21.171	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11162-r.5 MWD+IFR1+MS

Offset Well Error: 3.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.0	10,080.3	10,111.5	10,081.7	17.3	20.0	97.53	19.5	443.9	737.8	702.8	34.98	21.091	
10,200.0	10,180.3	10,211.5	10,181.7	17.4	20.0	97.53	19.5	443.9	737.8	702.7	35.11	21.011	
10,300.0	10,280.3	10,311.5	10,281.7	17.5	20.1	97.53	19.5	443.9	737.8	702.5	35.25	20.932	
10,400.0	10,380.3	10,411.5	10,381.7	17.5	20.2	97.53	19.5	443.9	737.8	702.4	35.38	20.853	
10,500.0	10,480.3	10,511.5	10,481.7	17.6	20.2	97.53	19.5	443.9	737.8	702.3	35.51	20.775	
10,600.0	10,580.3	10,611.5	10,581.7	17.7	20.3	97.53	19.5	443.9	737.8	702.1	35.65	20.697	
10,700.0	10,680.3	10,711.5	10,681.7	17.8	20.3	97.53	19.5	443.9	737.8	702.0	35.78	20.620	
10,800.0	10,780.3	10,811.5	10,781.7	17.8	20.4	97.53	19.5	443.9	737.8	701.9	35.91	20.543	
10,900.0	10,880.3	10,911.5	10,881.7	17.9	20.5	97.53	19.5	443.9	737.8	701.7	36.05	20.467	
11,000.0	10,980.3	11,011.5	10,981.7	18.0	20.5	97.53	19.5	443.9	737.8	701.6	36.18	20.391	
11,100.0	11,080.3	11,111.5	11,081.7	18.0	20.6	97.53	19.5	443.9	737.8	701.5	36.31	20.316	
11,149.8	11,130.0	11,161.2	11,131.4	18.0	20.6	97.53	19.5	443.9	737.8	701.4	36.35	20.295	
11,200.0	11,180.2	11,200.0	11,170.2	18.1	20.6	97.88	18.3	443.9	738.3	702.0	36.36	20.305	
11,250.0	11,229.8	11,244.4	11,214.3	18.1	20.6	98.49	13.6	443.9	740.1	703.8	36.33	20.372	
11,300.0	11,278.6	11,282.2	11,251.5	18.1	20.7	99.27	6.9	444.0	743.4	707.1	36.27	20.494	
11,350.0	11,326.2	11,316.0	11,284.4	18.1	20.7	100.10	-1.1	444.0	748.5	712.3	36.20	20.678	
11,400.0	11,372.4	11,350.0	11,316.8	18.1	20.7	101.00	-11.1	444.1	756.0	719.9	36.10	20.944	
11,450.0	11,416.7	11,370.3	11,335.9	18.2	20.7	101.12	-18.0	444.1	766.1	730.1	36.04	21.259	
11,500.0	11,458.9	11,390.5	11,354.7	18.2	20.7	101.02	-25.5	444.2	779.3	743.3	35.98	21.661	
11,550.0	11,498.5	11,400.0	11,363.4	18.2	20.7	99.94	-29.3	444.2	795.6	759.6	35.98	22.110	
11,600.0	11,535.3	11,418.5	11,380.2	18.3	20.7	99.16	-37.0	444.3	814.8	778.9	35.92	22.688	
11,650.0	11,569.1	11,426.9	11,387.7	18.3	20.7	97.32	-40.7	444.3	837.1	801.2	35.92	23.307	
11,700.0	11,599.5	11,432.2	11,392.5	18.3	20.7	94.85	-43.1	444.3	862.1	826.2	35.93	23.992	
11,750.0	11,626.4	11,434.7	11,394.7	18.4	20.7	91.78	-44.2	444.3	889.5	853.5	35.96	24.738	
11,800.0	11,649.4	11,434.8	11,394.8	18.4	20.7	88.16	-44.3	444.3	918.8	882.9	35.98	25.541	
11,850.0	11,668.5	11,432.7	11,393.0	18.5	20.7	84.06	-43.3	444.3	949.8	913.8	35.99	26.394	
11,900.0	11,683.5	11,428.8	11,389.5	18.5	20.7	79.60	-41.6	444.3	982.0	946.0	35.98	27.292	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11386-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.7	1.7	3.0	3.0	155.60	-200.6	91.0	220.3				
100.0	100.0	101.7	101.7	3.0	3.0	155.60	-200.6	91.0	220.3	213.7	6.52	33.766	
200.0	200.0	201.7	201.7	3.2	3.2	155.60	-200.6	91.0	220.3	213.5	6.77	32.529	
300.0	300.0	301.7	301.7	3.3	3.3	155.60	-200.6	91.0	220.3	213.3	7.02	31.395	
400.0	400.0	401.7	401.7	3.4	3.4	155.60	-200.6	91.0	220.3	213.0	7.26	30.349	
500.0	500.0	501.7	501.7	3.5	3.5	155.60	-200.6	91.0	220.3	212.8	7.50	29.381	
600.0	600.0	601.7	601.7	3.7	3.7	155.60	-200.6	91.0	220.3	212.5	7.73	28.482	
700.0	700.0	701.7	701.7	3.8	3.8	155.60	-200.6	91.0	220.3	212.3	7.97	27.643	
800.0	800.0	801.7	801.7	3.9	3.9	155.60	-200.6	91.0	220.3	212.1	8.20	26.859	
900.0	900.0	901.7	901.7	4.0	4.0	155.60	-200.6	91.0	220.3	211.8	8.43	26.123	
1,000.0	1,000.0	1,001.7	1,001.7	4.2	4.2	155.60	-200.6	91.0	220.3	211.6	8.66	25.431	
1,100.0	1,100.0	1,101.7	1,101.7	4.3	4.3	155.60	-200.6	91.0	220.3	211.4	8.89	24.779	
1,200.0	1,200.0	1,201.7	1,201.7	4.4	4.4	155.60	-200.6	91.0	220.3	211.2	9.12	24.163	
1,300.0	1,300.0	1,301.7	1,301.7	4.5	4.5	155.60	-200.6	91.0	220.3	210.9	9.34	23.580	
1,400.0	1,400.0	1,401.7	1,401.7	4.6	4.6	155.60	-200.6	91.0	220.3	210.7	9.57	23.028	
1,500.0	1,500.0	1,501.7	1,501.7	4.8	4.8	155.60	-200.6	91.0	220.3	210.5	9.79	22.503	CC
1,504.4	1,504.4	1,506.3	1,506.3	4.8	4.8	-136.41	-200.6	91.0	220.3	210.5	9.80	22.479	ES
1,600.0	1,600.0	1,603.7	1,603.7	4.9	4.9	-137.05	-199.6	92.0	221.1	211.0	10.03	22.033	
1,700.0	1,699.8	1,705.4	1,705.3	5.1	5.1	-138.94	-196.7	94.9	223.6	213.2	10.39	21.519	
1,800.0	1,799.5	1,806.2	1,805.9	5.3	5.3	-141.93	-191.9	99.7	228.5	217.7	10.76	21.231	
1,900.0	1,898.7	1,906.0	1,905.2	5.6	5.5	-145.84	-185.3	106.3	236.2	225.1	11.15	21.188	SF
2,000.0	1,997.7	2,004.6	2,003.1	5.8	5.8	-150.32	-177.1	114.5	246.3	234.8	11.50	21.421	
2,100.0	2,096.8	2,097.0	2,094.6	6.1	5.9	-154.65	-168.3	124.2	258.3	246.5	11.82	21.863	
2,200.0	2,195.8	2,186.0	2,182.5	6.4	6.2	-158.71	-160.7	136.1	274.6	262.3	12.24	22.439	
2,300.0	2,294.8	2,273.6	2,268.6	6.7	6.4	-162.46	-154.2	150.3	295.1	282.4	12.67	23.297	
2,400.0	2,393.8	2,361.4	2,354.7	7.0	6.7	-165.91	-148.5	167.0	319.6	306.6	13.07	24.457	
2,500.0	2,492.9	2,456.1	2,447.3	7.3	6.9	-169.15	-142.8	185.9	346.2	332.7	13.57	25.512	
2,600.0	2,591.9	2,550.7	2,539.8	7.6	7.3	-171.93	-137.0	204.7	373.7	359.6	14.13	26.442	
2,700.0	2,690.9	2,645.3	2,632.3	8.0	7.6	-174.34	-131.3	223.5	402.0	387.2	14.73	27.289	
2,800.0	2,789.9	2,739.9	2,724.9	8.3	7.9	-176.44	-125.5	242.3	430.8	415.4	15.35	28.057	
2,900.0	2,889.0	2,834.5	2,817.4	8.7	8.3	-178.28	-119.8	261.1	460.1	444.1	16.00	28.752	
3,000.0	2,988.0	2,929.1	2,910.0	9.0	8.6	-179.90	-114.0	279.9	489.7	473.1	16.67	29.381	
3,100.0	3,087.0	3,023.7	3,002.5	9.4	9.0	178.67	-108.3	298.7	519.7	502.4	17.35	29.952	
3,200.0	3,186.1	3,118.4	3,095.1	9.8	9.4	177.38	-102.5	317.5	550.0	532.0	18.05	30.469	
3,300.0	3,285.1	3,213.0	3,187.6	10.2	9.8	176.24	-96.8	336.4	580.5	561.7	18.76	30.940	
3,400.0	3,384.1	3,307.6	3,280.2	10.6	10.2	175.20	-91.0	355.2	611.2	591.7	19.48	31.369	
3,500.0	3,483.1	3,402.2	3,372.7	10.9	10.6	174.26	-85.3	374.0	642.1	621.8	20.21	31.762	
3,527.1	3,510.0	3,427.9	3,397.8	11.0	10.7	174.02	-83.7	379.1	650.5	630.1	20.40	31.883	
3,600.0	3,582.2	3,496.9	3,465.4	11.3	11.0	173.43	-79.5	392.8	672.6	651.7	20.92	32.147	
3,700.0	3,681.5	3,592.2	3,558.5	11.7	11.4	172.67	-73.7	411.7	701.7	680.1	21.66	32.396	
3,800.0	3,781.0	3,687.9	3,652.1	12.1	11.8	171.95	-67.9	430.8	729.3	706.9	22.40	32.562	
3,900.0	3,880.7	3,784.0	3,746.2	12.4	12.2	171.26	-62.0	449.9	755.3	732.1	23.13	32.658	
4,000.0	3,980.4	3,880.5	3,840.6	12.8	12.6	170.61	-56.2	469.1	779.7	755.9	23.85	32.693	
4,100.0	4,080.3	3,977.5	3,935.4	13.1	13.0	169.97	-50.3	488.4	802.6	778.0	24.56	32.678	
4,200.0	4,180.3	4,074.7	4,030.5	13.4	13.5	169.35	-44.4	507.7	823.9	798.6	25.25	32.628	
4,300.0	4,280.3	4,172.3	4,126.0	13.6	13.9	168.74	-38.4	527.1	843.6	817.7	25.90	32.573	
4,327.1	4,307.4	4,198.8	4,152.0	13.7	14.0	100.57	-36.8	532.4	848.7	822.7	26.04	32.597	
4,400.0	4,380.3	4,270.1	4,221.7	13.7	14.3	100.11	-32.5	546.5	862.2	835.9	26.38	32.690	
4,500.0	4,480.3	4,367.9	4,317.3	13.8	14.8	99.49	-26.5	566.0	880.9	854.0	26.87	32.786	
4,600.0	4,580.3	4,465.7	4,413.0	13.8	15.2	98.90	-20.6	585.4	899.6	872.2	27.37	32.871	
4,700.0	4,680.3	4,563.6	4,508.7	13.9	15.7	98.34	-14.7	604.9	918.4	890.6	27.88	32.945	
4,800.0	4,780.3	4,661.4	4,604.4	13.9	16.1	97.80	-8.7	624.3	937.3	908.9	28.40	33.009	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11386-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,880.3	4,759.2	4,700.1	14.0	16.6	97.28	-2.8	643.8	956.3	927.4	28.92	33.065	
5,000.0	4,980.3	4,857.0	4,795.7	14.0	17.0	96.78	3.2	663.2	975.4	945.9	29.46	33.113	
5,100.0	5,080.3	4,954.8	4,891.4	14.1	17.4	96.30	9.1	682.7	994.5	964.5	30.00	33.154	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11274-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	3.3	3.3	3.0	3.0	148.93	-200.8	121.0	234.4				
100.0	100.0	103.3	103.3	3.0	3.1	148.93	-200.8	121.0	234.4	227.9	6.52	35.925	
200.0	200.0	203.3	203.3	3.2	3.2	148.93	-200.8	121.0	234.4	227.6	6.77	34.612	
300.0	300.0	303.3	303.3	3.3	3.3	148.93	-200.8	121.0	234.4	227.4	7.02	33.413	
400.0	400.0	403.3	403.3	3.4	3.4	148.93	-200.8	121.0	234.4	227.1	7.25	32.310	
500.0	500.0	503.3	503.3	3.5	3.6	148.93	-200.8	121.0	234.4	226.9	7.49	31.290	
600.0	600.0	603.3	603.3	3.7	3.7	148.93	-200.8	121.0	234.4	226.7	7.72	30.344	
700.0	700.0	703.3	703.3	3.8	3.8	148.93	-200.8	121.0	234.4	226.4	7.96	29.462	
800.0	800.0	803.3	803.3	3.9	3.9	148.93	-200.8	121.0	234.4	226.2	8.18	28.639	
900.0	900.0	903.3	903.3	4.0	4.0	148.93	-200.8	121.0	234.4	226.0	8.41	27.867	
1,000.0	1,000.0	1,003.3	1,003.3	4.2	4.2	148.93	-200.8	121.0	234.4	225.8	8.64	27.142	
1,100.0	1,100.0	1,103.3	1,103.3	4.3	4.3	148.93	-200.8	121.0	234.4	225.5	8.86	26.459	
1,200.0	1,200.0	1,203.3	1,203.3	4.4	4.4	148.93	-200.8	121.0	234.4	225.3	9.08	25.814	
1,300.0	1,300.0	1,303.3	1,303.3	4.5	4.5	148.93	-200.8	121.0	234.4	225.1	9.30	25.204	
1,400.0	1,400.0	1,403.3	1,403.3	4.6	4.6	148.93	-200.8	121.0	234.4	224.9	9.52	24.626	
1,465.5	1,465.5	1,468.8	1,468.8	4.7	4.7	148.93	-200.8	121.0	234.4	224.7	9.66	24.264	CC
1,500.0	1,500.0	1,503.3	1,503.3	4.8	4.8	148.93	-200.8	121.0	234.4	224.7	9.74	24.076	ES
1,600.0	1,600.0	1,603.1	1,603.1	4.9	4.9	-143.65	-200.1	122.2	235.8	225.9	9.98	23.625	
1,700.0	1,699.8	1,702.5	1,702.4	5.1	5.0	-145.28	-198.1	125.6	240.3	229.9	10.35	23.218	
1,800.0	1,799.5	1,801.0	1,800.7	5.3	5.2	-147.83	-194.8	131.2	248.1	237.4	10.73	23.128	SF
1,900.0	1,898.7	1,898.3	1,897.6	5.6	5.4	-151.07	-190.4	138.9	259.8	248.7	11.13	23.345	
2,000.0	1,997.7	1,994.3	1,992.9	5.8	5.7	-154.76	-184.8	148.6	274.5	263.0	11.50	23.882	
2,100.0	2,096.8	2,086.1	2,083.8	6.1	5.8	-158.35	-178.6	160.0	291.3	279.5	11.82	24.635	
2,200.0	2,195.8	2,174.3	2,170.7	6.4	6.1	-161.72	-172.9	173.6	311.6	299.4	12.24	25.459	
2,300.0	2,294.8	2,260.8	2,255.7	6.7	6.4	-164.87	-167.8	189.4	335.7	323.0	12.70	26.433	
2,400.0	2,393.8	2,345.6	2,338.4	7.0	6.7	-167.76	-163.2	207.4	363.3	350.2	13.16	27.599	
2,500.0	2,492.9	2,435.5	2,425.6	7.3	7.0	-170.55	-158.6	228.5	394.0	380.3	13.68	28.797	
2,600.0	2,591.9	2,528.8	2,516.1	7.6	7.3	-173.04	-153.9	250.6	425.6	411.3	14.29	29.787	
2,700.0	2,690.9	2,622.1	2,606.7	8.0	7.6	-175.20	-149.2	272.7	457.9	443.0	14.92	30.691	
2,800.0	2,789.9	2,715.3	2,697.2	8.3	8.0	-177.08	-144.6	294.8	490.7	475.1	15.57	31.505	
2,900.0	2,889.0	2,808.6	2,787.7	8.7	8.4	-178.73	-139.9	316.8	523.9	507.6	16.25	32.239	
3,000.0	2,988.0	2,901.9	2,878.2	9.0	8.7	179.82	-135.2	338.9	557.4	540.5	16.94	32.900	
3,100.0	3,087.0	2,995.2	2,968.7	9.4	9.1	178.53	-130.5	361.0	591.3	573.6	17.65	33.496	
3,200.0	3,186.1	3,088.5	3,059.3	9.8	9.5	177.38	-125.8	383.1	625.4	607.0	18.37	34.035	
3,300.0	3,285.1	3,181.8	3,149.8	10.2	9.9	176.34	-121.1	405.2	659.7	640.6	19.11	34.524	
3,400.0	3,384.1	3,275.1	3,240.3	10.6	10.3	175.41	-116.4	427.2	694.1	674.3	19.85	34.969	
3,500.0	3,483.1	3,368.4	3,330.8	10.9	10.7	174.57	-111.7	449.3	728.7	708.1	20.60	35.374	
3,527.1	3,510.0	3,393.7	3,355.4	11.0	10.8	174.35	-110.4	455.3	738.2	717.4	20.79	35.500	
3,600.0	3,582.2	3,461.9	3,421.5	11.3	11.1	173.82	-107.0	471.4	763.1	741.7	21.33	35.773	
3,700.0	3,681.5	3,555.8	3,512.7	11.7	11.5	173.14	-102.3	493.7	795.9	773.8	22.09	36.033	
3,800.0	3,781.0	3,650.4	3,604.4	12.1	11.9	172.49	-97.5	516.0	827.2	804.4	22.84	36.211	
3,900.0	3,880.7	3,745.4	3,696.6	12.4	12.3	171.89	-92.7	538.5	857.0	833.4	23.60	36.318	
4,000.0	3,980.4	3,840.9	3,789.3	12.8	12.8	171.31	-87.9	561.1	885.2	860.9	24.34	36.365	
4,100.0	4,080.3	3,936.8	3,882.4	13.1	13.2	170.75	-83.1	583.8	911.9	886.8	25.08	36.364	
4,200.0	4,180.3	4,033.2	3,975.9	13.4	13.7	170.20	-78.3	606.6	936.9	911.2	25.79	36.328	
4,300.0	4,280.3	4,129.9	4,069.7	13.6	14.1	169.67	-73.4	629.5	960.4	934.0	26.47	36.290	
4,327.1	4,307.4	4,156.3	4,095.3	13.7	14.2	101.52	-72.1	635.7	966.6	939.9	26.61	36.321	
4,400.0	4,380.3	4,227.0	4,163.9	13.7	14.5	101.12	-68.5	652.5	982.8	955.8	26.97	36.435	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11508-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.4	2.4	3.0	3.0	143.07	-201.0	151.0	251.4				
100.0	100.0	102.4	102.4	3.0	3.0	143.07	-201.0	151.0	251.4	244.9	6.52	38.535	
200.0	200.0	202.4	202.4	3.2	3.2	143.07	-201.0	151.0	251.4	244.6	6.77	37.132	
300.0	300.0	302.4	302.4	3.3	3.3	143.07	-201.0	151.0	251.4	244.4	7.01	35.853	
400.0	400.0	402.4	402.4	3.4	3.4	143.07	-201.0	151.0	251.4	244.1	7.25	34.679	
500.0	500.0	502.4	502.4	3.5	3.5	143.07	-201.0	151.0	251.4	243.9	7.48	33.595	
600.0	600.0	602.4	602.4	3.7	3.7	143.07	-201.0	151.0	251.4	243.7	7.71	32.591	
700.0	700.0	702.4	702.4	3.8	3.8	143.07	-201.0	151.0	251.4	243.5	7.94	31.657	
800.0	800.0	802.4	802.4	3.9	3.9	143.07	-201.0	151.0	251.4	243.2	8.17	30.785	
900.0	900.0	902.4	902.4	4.0	4.0	143.07	-201.0	151.0	251.4	243.0	8.39	29.969	
1,000.0	1,000.0	1,002.4	1,002.4	4.2	4.2	143.07	-201.0	151.0	251.4	242.8	8.61	29.203	
1,100.0	1,100.0	1,102.4	1,102.4	4.3	4.3	143.07	-201.0	151.0	251.4	242.6	8.83	28.482	
1,200.0	1,200.0	1,202.4	1,202.4	4.4	4.4	143.07	-201.0	151.0	251.4	242.4	9.04	27.801	
1,300.0	1,300.0	1,302.4	1,302.4	4.5	4.5	143.07	-201.0	151.0	251.4	242.1	9.26	27.157	
1,400.0	1,400.0	1,402.4	1,402.4	4.6	4.6	143.07	-201.0	151.0	251.4	241.9	9.47	26.547	
1,465.8	1,465.8	1,468.3	1,468.3	4.7	4.7	143.07	-201.0	151.0	251.4	241.8	9.61	26.164	CC
1,500.0	1,500.0	1,502.4	1,502.4	4.8	4.8	143.07	-201.0	151.0	251.4	241.7	9.68	25.967	ES
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-149.45	-200.7	152.8	253.8	243.8	9.96	25.486	
1,700.0	1,699.8	1,693.4	1,693.2	5.1	5.0	-150.84	-200.1	157.5	260.9	250.5	10.35	25.194	SF
1,800.0	1,799.5	1,787.3	1,786.8	5.3	5.2	-153.00	-199.0	165.3	273.0	262.2	10.78	25.336	
1,900.0	1,898.7	1,879.5	1,878.4	5.6	5.5	-155.67	-197.5	175.9	290.6	279.4	11.23	25.877	
2,000.0	1,997.7	1,969.8	1,967.7	5.8	5.8	-158.67	-195.6	189.1	312.4	300.8	11.65	26.820	
2,100.0	2,096.8	2,058.5	2,055.0	6.1	6.1	-161.61	-193.4	204.8	337.1	325.0	12.10	27.857	
2,200.0	2,195.8	2,145.4	2,140.0	6.4	6.4	-164.45	-190.9	222.7	364.7	352.1	12.59	28.976	
2,300.0	2,294.8	2,230.5	2,222.6	6.7	6.7	-167.12	-188.1	242.7	395.3	382.2	13.07	30.248	
2,400.0	2,393.8	2,321.0	2,310.0	7.0	6.9	-169.76	-184.8	265.9	428.2	414.6	13.58	31.533	
2,500.0	2,492.9	2,413.5	2,399.4	7.3	7.2	-172.09	-181.5	289.6	461.9	447.7	14.18	32.575	
2,600.0	2,591.9	2,506.0	2,488.8	7.6	7.6	-174.11	-178.2	313.3	496.3	481.5	14.81	33.510	
2,700.0	2,690.9	2,598.6	2,578.2	8.0	7.9	-175.87	-174.8	337.0	531.1	515.6	15.46	34.349	
2,800.0	2,789.9	2,691.1	2,667.5	8.3	8.3	-177.42	-171.5	360.7	566.3	550.2	16.13	35.099	
2,900.0	2,889.0	2,783.6	2,756.9	8.7	8.6	-178.79	-168.2	384.5	601.9	585.0	16.83	35.771	
3,000.0	2,988.0	2,876.2	2,846.3	9.0	9.0	179.99	-164.8	408.2	637.7	620.2	17.53	36.374	
3,100.0	3,087.0	2,968.7	2,935.7	9.4	9.4	178.90	-161.5	431.9	673.7	655.5	18.25	36.916	
3,200.0	3,186.1	3,061.2	3,025.1	9.8	9.8	177.92	-158.2	455.6	710.0	691.0	18.98	37.404	
3,300.0	3,285.1	3,153.8	3,114.4	10.2	10.2	177.03	-154.8	479.3	746.4	726.7	19.72	37.844	
3,400.0	3,384.1	3,246.3	3,203.8	10.6	10.6	176.22	-151.5	503.0	782.9	762.5	20.47	38.243	
3,500.0	3,483.1	3,338.8	3,293.2	10.9	11.0	175.49	-148.2	526.8	819.6	798.4	21.23	38.605	
3,527.1	3,510.0	3,363.9	3,317.4	11.0	11.1	175.30	-147.3	533.2	829.6	808.2	21.43	38.720	
3,600.0	3,582.2	3,431.5	3,382.7	11.3	11.4	174.84	-144.8	550.5	856.0	834.0	21.97	38.964	
3,700.0	3,681.5	3,524.8	3,472.8	11.7	11.8	174.24	-141.5	574.4	890.9	868.1	22.73	39.188	
3,800.0	3,781.0	3,618.6	3,563.5	12.1	12.2	173.68	-138.1	598.5	924.2	900.7	23.50	39.333	
3,900.0	3,880.7	3,713.0	3,654.7	12.4	12.6	173.15	-134.7	622.7	956.0	931.8	24.26	39.410	
4,000.0	3,980.4	3,807.9	3,746.3	12.8	13.1	172.64	-131.3	647.0	986.2	961.2	25.01	39.430	

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

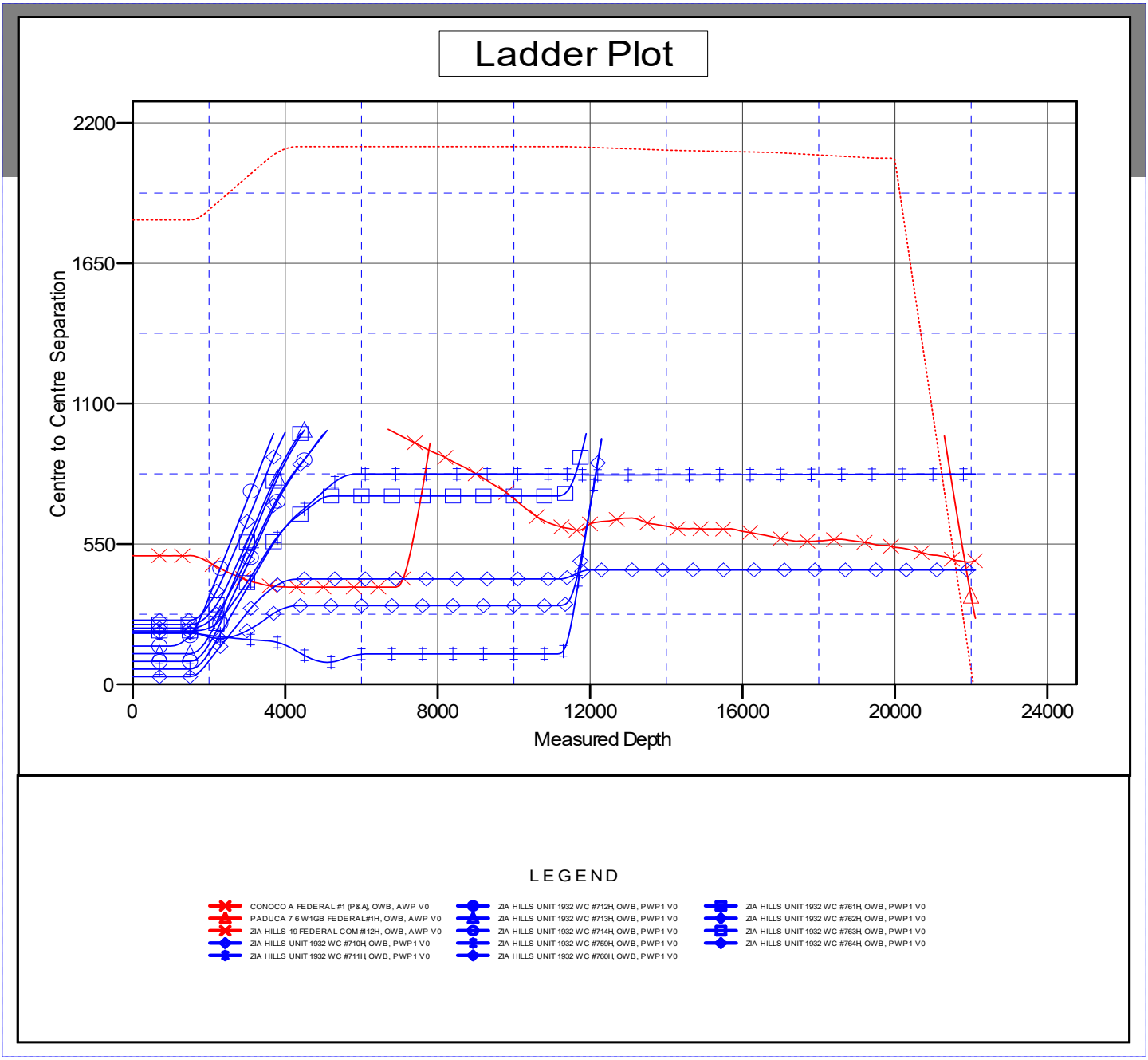
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to RKB=30ft @ 3196.9usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #709H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



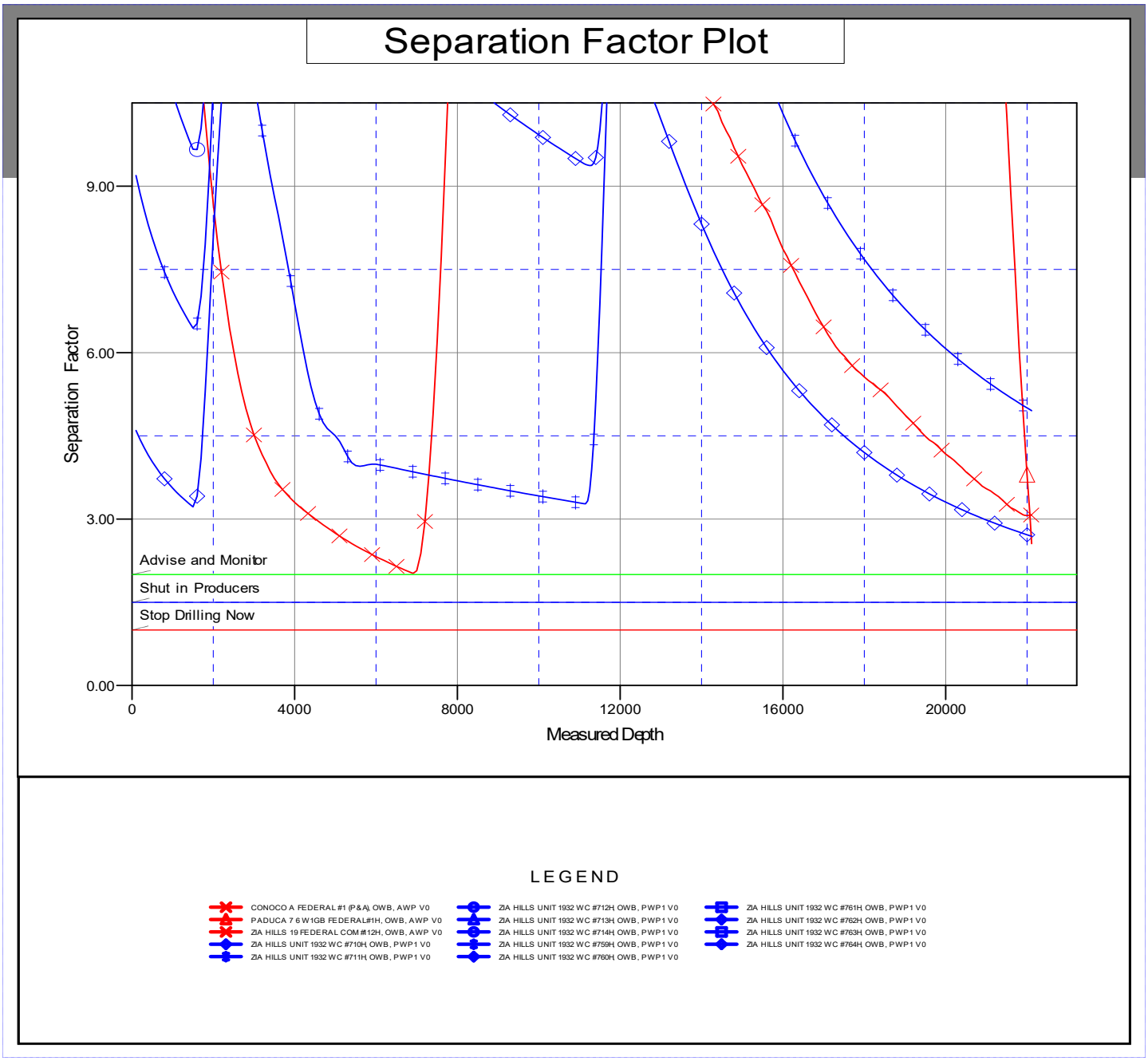
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #709H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.9usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.9usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #709H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Central Planning Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to RKB=30ft @ 3196.9usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #709H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



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ConocoPhillips

Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS UNIT 1932 PROJECT
Well: ZIA HILLS UNIT 1932 WC #709H
Wellbore: OWB
Design: PWP1
GL: 3166.9
RKB=30ft @ 3196.9usft

WELL DETAILS: ZIA HILLS UNIT 1932 WC #709H

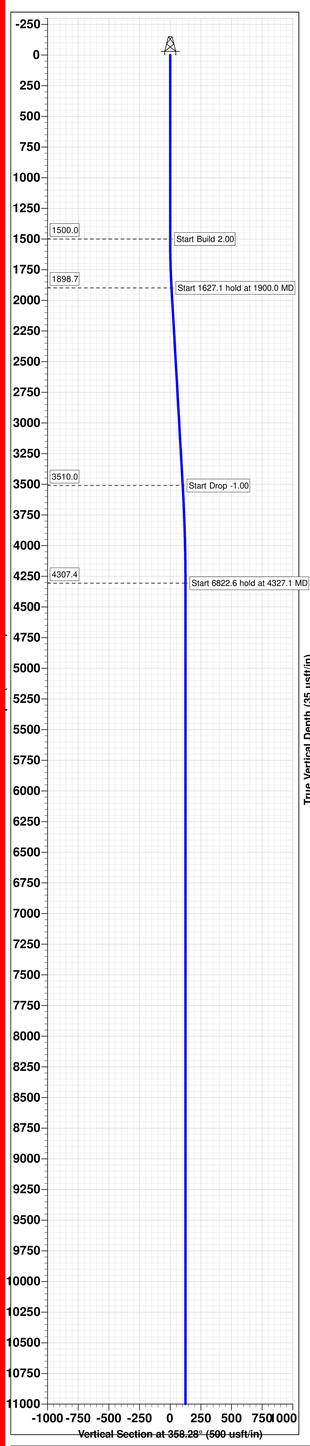
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	374369.64	692482.60	32° 1' 39.848 N	103° 42' 44.026 W

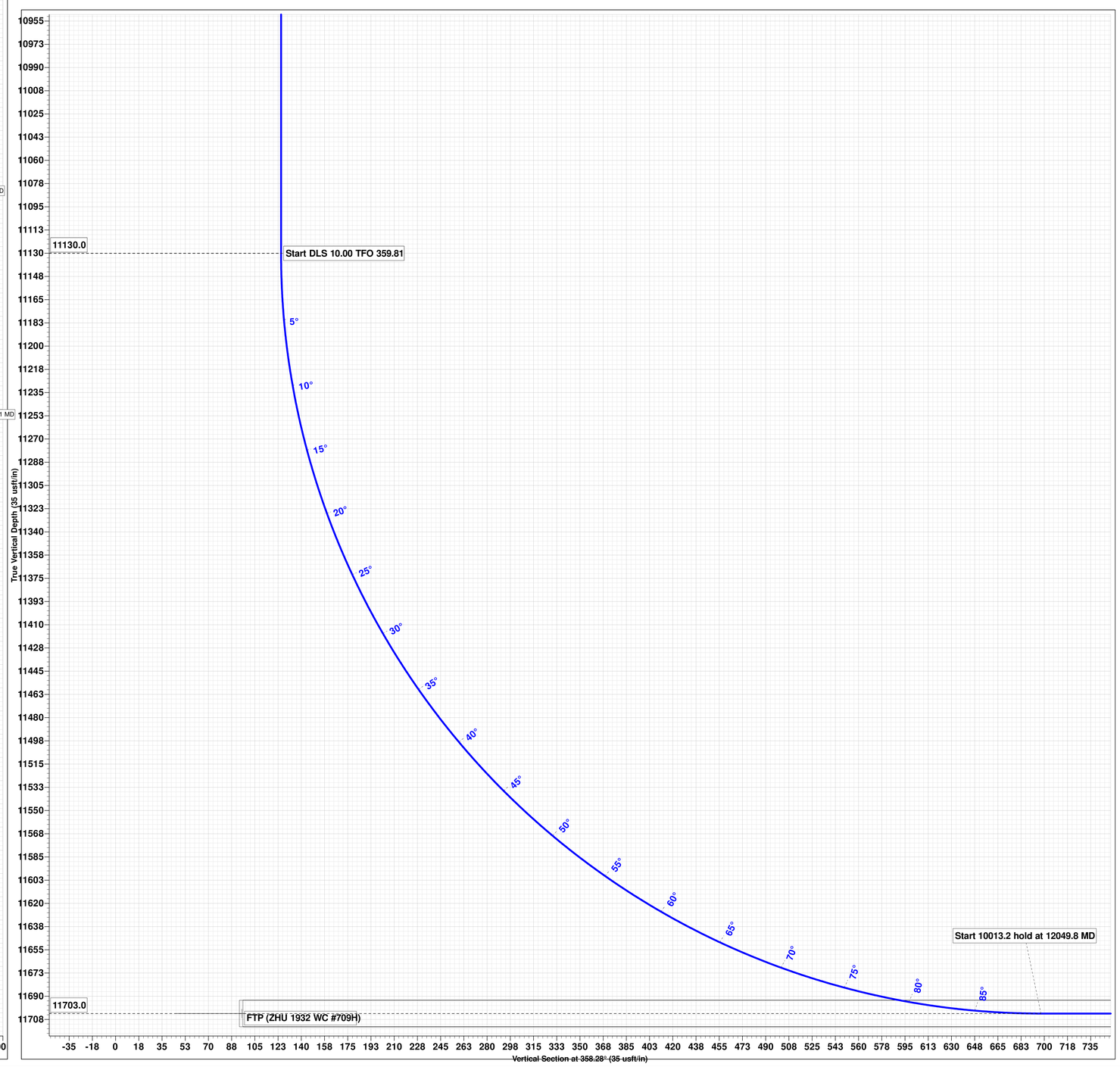
DESIGN TARGET DETAILS

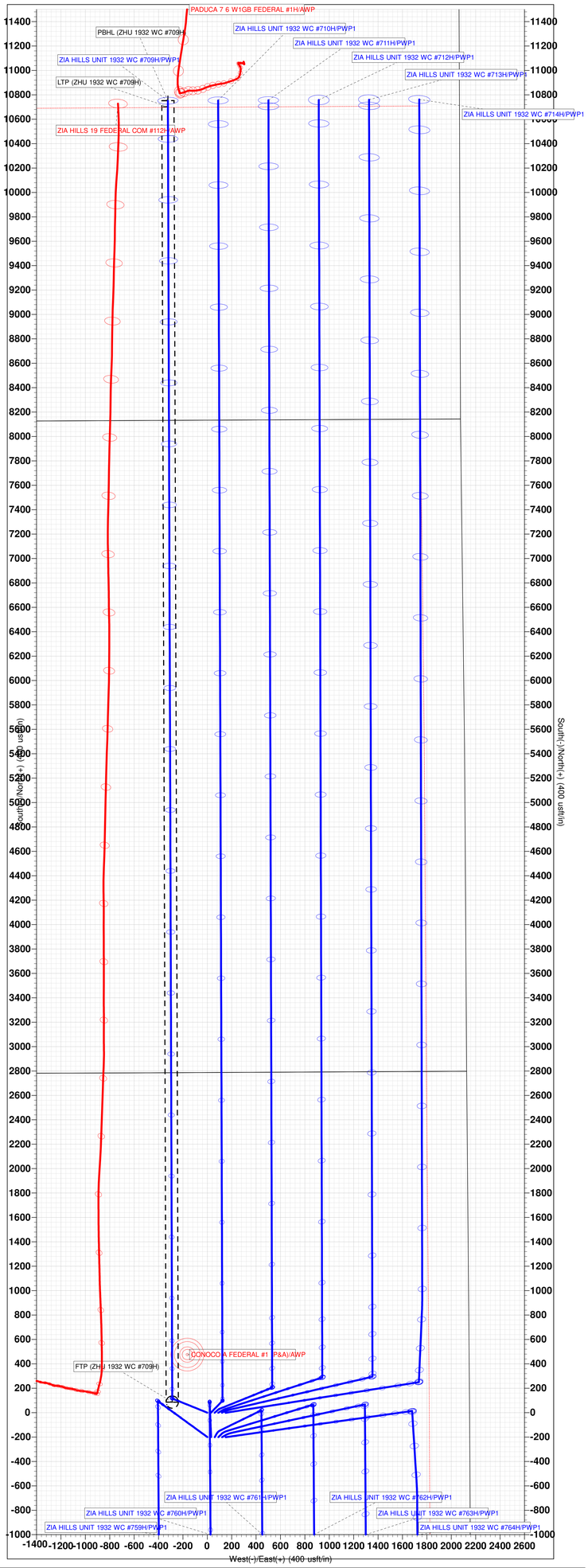
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (ZHU 1932 WC #709H)	11703.0	86.6	-287.5	374456.25	692195.14
LTP (ZHU 1932 WC #709H)	11703.0	10702.3	-322.6	385071.94	692159.99
PBHL (ZHU 1932 WC #709H)	11703.0	10752.3	-322.7	385121.94	692159.87

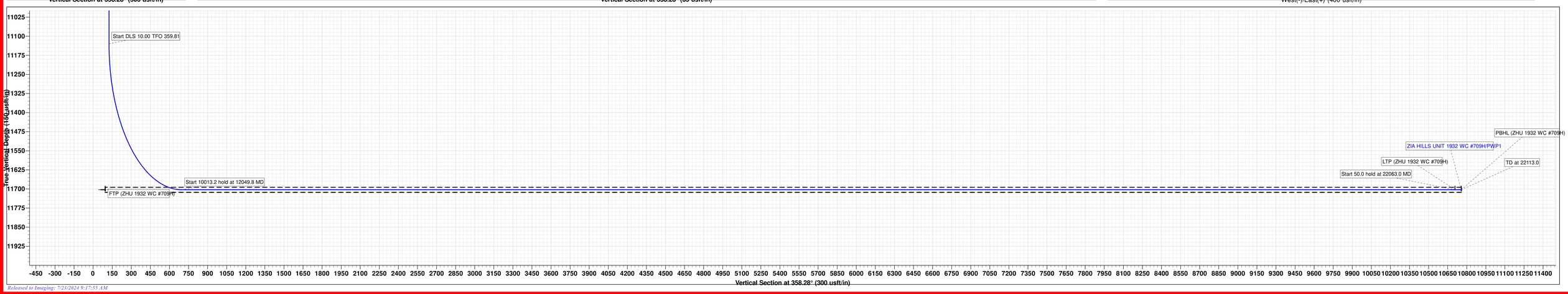
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
1900.0	8.00	292.00	1898.7	10.4	-25.8	2.00	292.00	11.2
3527.1	8.00	292.00	3510.0	95.3	-235.8	0.00	0.00	102.3
4327.1	0.00	0.00	4307.4	116.2	-287.5	1.00	180.00	124.7
11149.8	0.00	0.00	11130.0	116.2	-287.5	0.00	0.00	124.7
12049.8	90.00	359.81	11703.0	689.1	-289.4	10.00	359.81	697.5
22063.0	90.00	359.81	11703.0	10702.3	-322.6	0.00	0.00	10707.2
22113.0	90.00	359.81	11703.0	10752.3	-322.8	0.00	0.00	10757.1









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PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	ZIA HILLS UNIT 1932 WC 709H
SURFACE HOLE FOOTAGE:	2535'/S & 2150'/E
BOTTOM HOLE FOOTAGE	2620'/S & 2390'/E
LOCATION:	Section 19, T.26 S., R.32 E.
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 Onshore Order 6 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 **10-3/4** inch surface casing shall be set at approximately **1350** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

 Approval Date: 07/12/2024

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

2. The **7-5/8** inch intermediate casing shall be set at approximately **11,050** feet. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

❖ 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. The **5-1/2** inch production casing shall be set at approximately **22,113** feet The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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 **10-3/4** 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)

Casing Clearance:

- Overlap clearance OK for production interval

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)

- If well located in 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

- If well located in 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
      - Notify the BLM when moving in and removing the Spudder Rig.
      - 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.
      - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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-P 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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:

    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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
    e. 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.

    a. 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).

    b. 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.)

c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. 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.

e. The results of the test shall be reported to the appropriate BLM office.

f. 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.

g. 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.

h. 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 part 3170 Subpart 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.

KPI 7/10/2024

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 (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S 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 H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S 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 H_2S 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

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

EMERGENCY RESPONSE NUMBERS

	OFFICE
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

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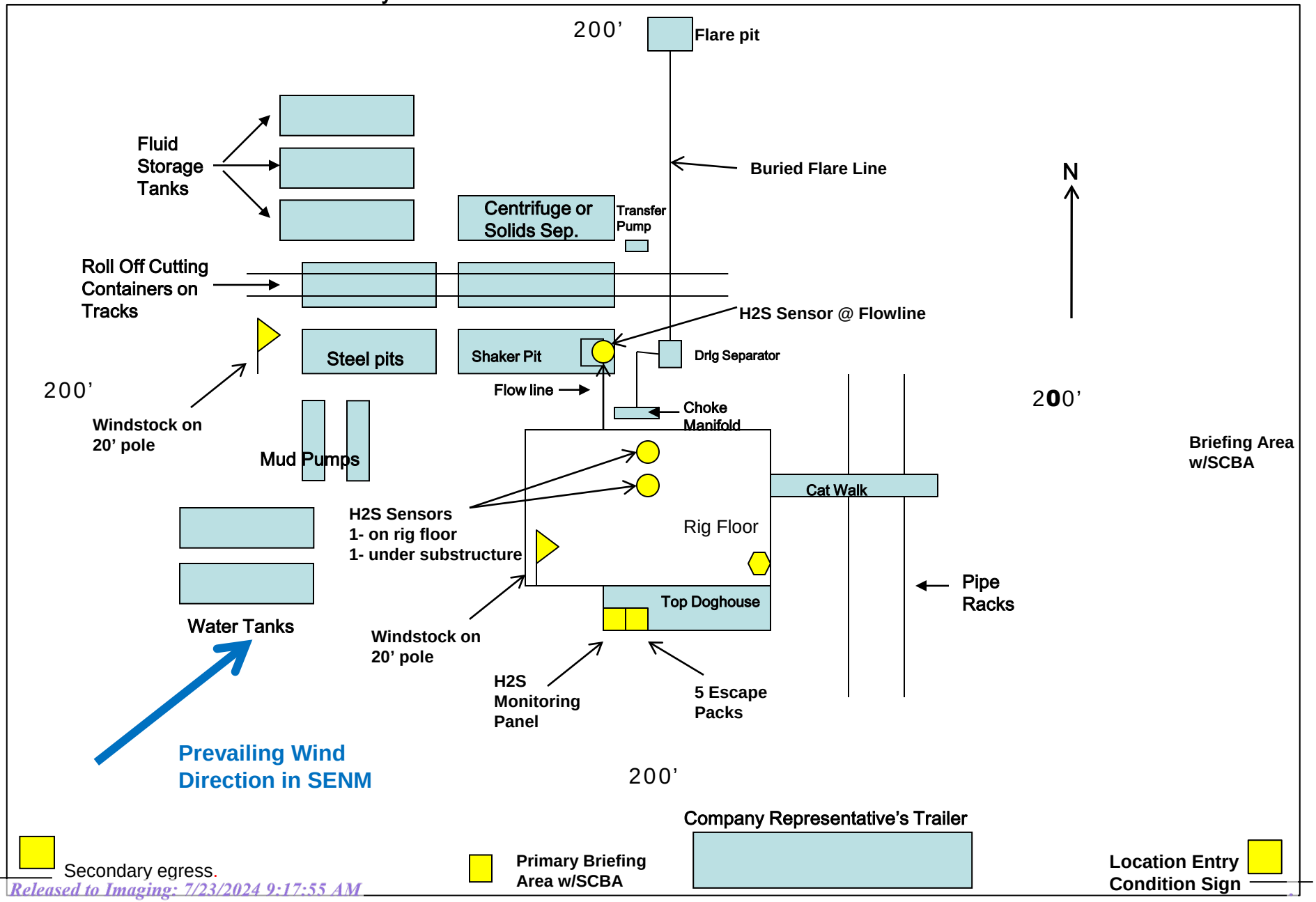
COG Operating LLC
H_2S Equipment Schematic
Terrain: Shinnery sand hills.

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



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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 364348

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 364348
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/23/2024
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	7/23/2024
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	7/23/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	7/23/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	7/23/2024