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.
30-025-53233

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 / 2030 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0278567 / LONG: -103.7123135 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 2659 FSL / 796 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0281589 / LONG: -103.7081827 (TVD: 11475 feet, MD: 11689 feet)

PPP: NESE / 2620 FSL / 797 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0280514 / LONG: -103.7083348 (TVD: 11475 feet, MD: 11648 feet)

PPP: SESE / 1 FSL / 742 FEL / TWSP: 26S / RANGE: 32E / SECTION: 18 / LAT: 32.0355193 / LONG: -103.7081827 (TVD: 11704 feet, MD: 14329 feet)

BHL: NESE / 2620 FSL / 742 FEL / TWSP: 26S / RANGE: 32E / SECTION: 7 / LAT: 32.0574184 / LONG: -103.7082237 (TVD: 11704 feet, MD: 22072 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
30-025-53233	98081	Zia Hills; Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
334841	ZIA HILLS UNIT 1932 WC	713H

[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	2,030'	EAST	LEA

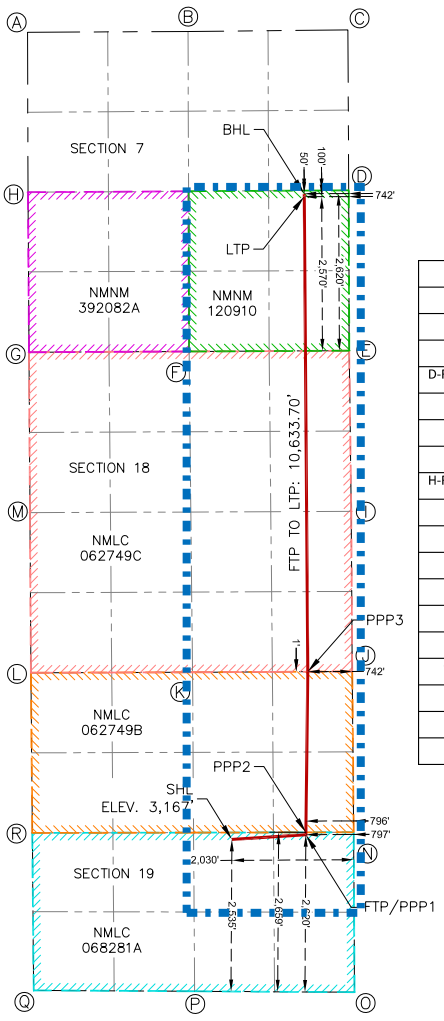
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	7	26-S	32-E		2,620'	SOUTH	742'	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 & 2,030' FEL NEW MEXICO EAST-NAD 83 NORTH:374,426.09' EAST:733,789.66' LAT:32.02785676 LONG:-103.71231353
FIRST TAKE POINT / PENETRATION POINT 1 2,620' FSL & 797' FEL NEW MEXICO EAST-NAD 83 NORTH:374,504.04' EAST:735,022.25' LAT:32.02805149 LONG:-103.70833488
PENETRATION POINT 2 2,659' FSL & 796' FEL NEW MEXICO EAST-NAD 83 NORTH:374,543.12' EAST:735,022.70' LAT:32.02815890 LONG:-103.70833270
PENETRATION POINT 3 1' FSL & 742' FEL NEW MEXICO EAST-NAD 83 NORTH:377,220.96' EAST:735,053.67' LAT:32.03551934 LONG:-103.70818274
LAST TAKE POINT 2,570' FSL & 742' FEL NEW MEXICO EAST-NAD 83 NORTH:385,137.34' EAST:734,995.19' LAT:32.05728097 LONG:-103.70822357
BOTTOM HOLE LOCATION 2,620' FSL & 742' FEL NEW MEXICO EAST-NAD 83 NORTH:385,187.34' EAST:734,994.86' LAT:32.05741841 LONG:-103.70822372

[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

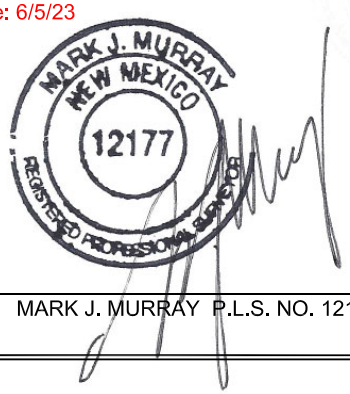
Stan Wagner
Printed Name Date

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 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 713H

1. Geologic Formations

TVD of target	11,704' EOL	Pilot hole depth	NA
MD at TD:	22,072'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1226	Water	
Top of Salt	1543	Salt	
Base of Salt	4009	Salt	
Lamar	4276	Salt Water	
Bell Canyon	4312	Salt Water	
Cherry Canyon	5202	Oil/Gas	
Brushy Canyon	6627	Oil/Gas	
Bone Spring Lime	8271	Oil/Gas	
1st Bone Spring Sand	9284	Oil/Gas	
2nd Bone Spring Sand	9967	Oil/Gas	
3rd Bone Spring Sand	11144	Oil/Gas	
Wolfcamp	11510	Target	
Wolfcamp A	11724	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF 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	11180	7.625"	29.7	P110-ICY	W513	1.28	1.57	3.22	1.93
6.75"	0	10980	5.5"	23	P110-CY	BTC	1.89	2.20	2.89	2.89
6.75"	10980	22,072	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 713H

	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?	

ConocoPhillips Company - Zia Hills Unit 1932 WC 713H

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	689	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	933	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	10,680'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 1932 WC 713H

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 11704' 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

COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

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

Flare Lines will be from both Choke Manifold & Separator to edge of location.

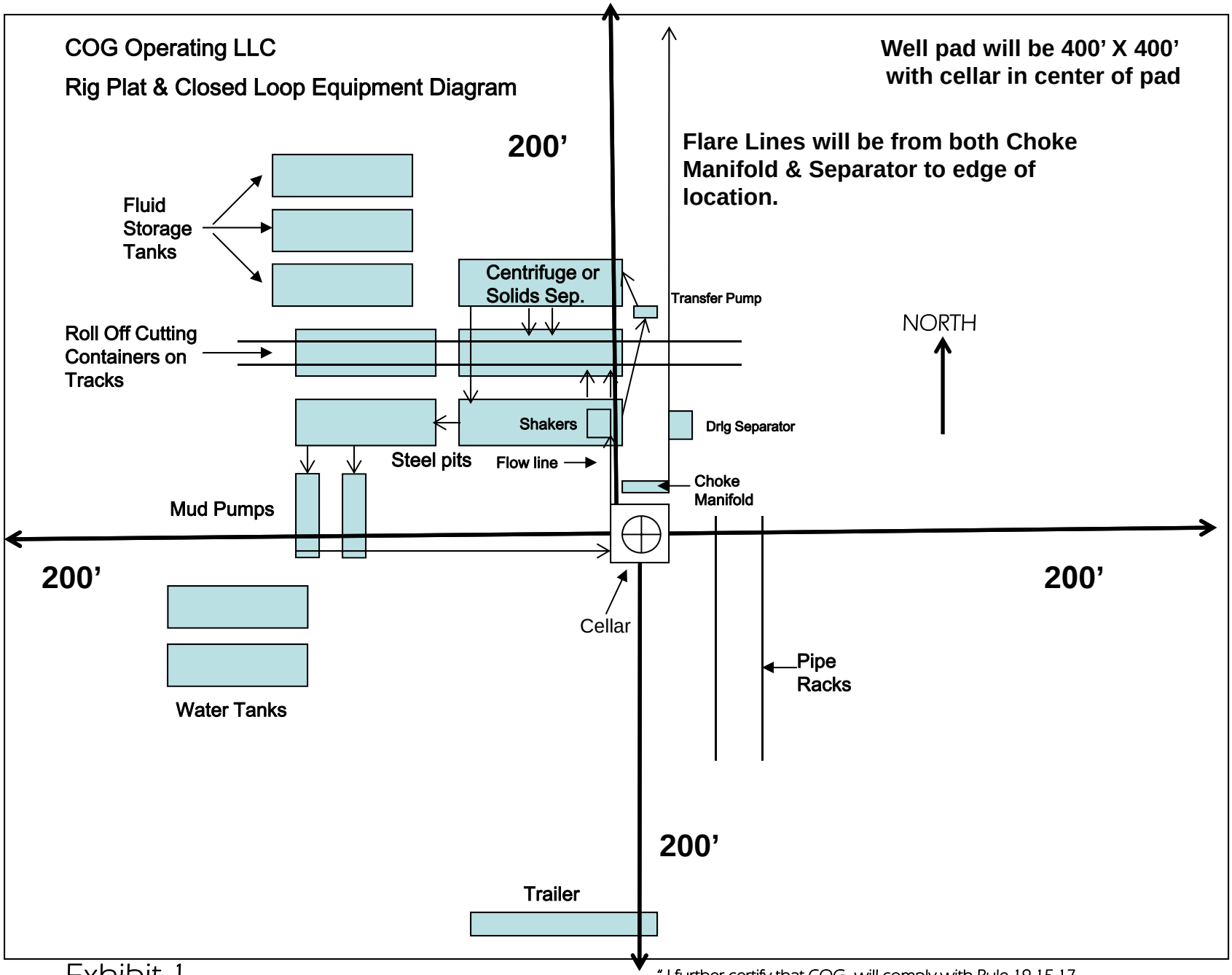


Exhibit 1

" 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 #713H

OWB
PWP1

Anticollision Report

09 May, 2023

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	11,279.5	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
11,279.5	22,072.2	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 FEDERAL #2 - OWB - AWP	3,157.1	3,107.7	313.9	215.5	3.188	CC
CONOCO FEDERAL #2 - OWB - AWP	3,500.0	3,443.1	320.4	206.8	2.821	ES
CONOCO FEDERAL #2 - OWB - AWP	4,100.0	4,026.1	378.5	235.2	2.641	SF
PADUCA 7 6 W1HA FEDERAL #1H - OWB - AWP	22,072.2	11,668.5	363.8	250.1	3.200	CC, ES, SF
PADUCA 7 6 W1HA FEDERAL #2H - OWB - AWP	22,072.2	11,750.8	406.3	275.0	3.094	CC, ES, SF
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,466.6	1,466.8	120.0	110.8	12.979	CC
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,500.0	1,500.0	120.0	110.7	12.900	ES
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,600.0	1,596.4	122.7	113.1	12.802	SF
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	1,760.5	1,765.8	89.5	79.4	8.838	CC, ES
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	1,900.0	1,905.2	92.0	81.4	8.713	SF
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	1,500.0	1,500.1	60.1	50.8	6.459	CC
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	1,700.0	1,702.5	60.6	50.7	6.109	ES
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	22,072.2	22,041.7	824.6	655.3	4.870	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	1,837.5	1,839.7	30.0	19.5	2.866	CC, ES
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	22,072.2	22,192.9	447.7	276.4	2.614	SF
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	1,000.0	1,000.0	30.0	21.5	3.558	CC, ES
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	22,072.2	22,347.5	447.6	276.6	2.618	SF
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,500.0	1,502.9	232.2	222.4	23.840	CC
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,504.4	1,507.3	232.2	222.4	23.814	ES
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,800.0	1,803.1	242.0	231.4	22.791	SF
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	1,981.9	2,008.1	209.0	197.4	17.972	CC
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	2,000.0	2,026.0	209.1	197.4	17.855	ES
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	2,200.0	2,222.1	218.2	205.6	17.294	SF
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	2,134.0	2,159.0	194.9	182.5	15.772	CC, ES
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	4,800.0	4,800.0	410.5	377.2	12.308	SF
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	2,279.9	2,301.4	187.4	174.5	14.580	CC
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	2,500.0	2,521.1	188.3	174.5	13.571	ES
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	5,500.0	5,510.7	237.9	199.0	6.109	SF
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	2,282.9	2,297.6	194.7	182.4	15.796	CC
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	6,600.0	6,613.4	212.3	179.4	6.451	ES
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	11,279.5	11,273.9	235.6	190.7	5.246	SF
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,465.7	1,468.4	202.6	192.8	20.691	CC
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,500.0	1,502.7	202.6	192.8	20.524	ES
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	11,279.5	11,324.0	429.6	378.2	8.361	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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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 FEDERAL #2 - OWB - AWP	22,072.2	4,368.0				Out of Range @TD
PADUCA 7 6 W1HA FEDERAL #1H - OWB - AWP	22,072.2	11,668.5	363.8	250.1	3.200	CC, ES, SF
PADUCA 7 6 W1HA FEDERAL #2H - OWB - AWP	22,072.2	11,750.8	406.3	275.0	3.094	CC, ES, SF
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	22,072.2	22,113.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	22,072.2	22,294.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	22,072.2	22,041.7	824.6	655.3	4.870	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	22,072.2	22,192.9	447.7	276.4	2.614	SF
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	22,072.2	22,347.5	447.6	276.6	2.618	SF
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	22,072.2	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	22,072.2	11,350.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	22,072.2	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	22,072.2	11,400.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	22,072.2	11,300.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	22,072.2	11,499.3				Out of Range @TD

Offset Design: ZIA HILLS UNIT 1932 PROJECT - CONOCO FEDERAL #2 - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 490-INC-ONLY

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)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Rule Assigned: Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	10.0	121.60	-227.1	369.1	433.6				
100.0	100.0	85.4	85.4	3.0	10.0	121.60	-227.1	369.1	433.4	418.2	15.14	28.627	
200.0	200.0	185.4	185.4	3.2	10.2	121.60	-227.1	369.1	433.4	418.0	15.35	28.224	
300.0	300.0	285.4	285.4	3.3	10.4	121.60	-227.1	369.1	433.4	417.7	15.69	27.625	
400.0	400.0	385.4	385.4	3.4	10.7	121.60	-227.1	369.1	433.4	417.2	16.13	26.868	
500.0	500.0	485.4	485.4	3.5	11.0	121.60	-227.1	369.1	433.4	416.7	16.67	25.994	
600.0	600.0	585.4	585.4	3.7	12.0	121.60	-227.1	369.1	433.4	415.3	18.02	24.043	
700.0	700.0	685.4	685.4	3.8	13.3	121.60	-227.1	369.1	433.4	413.6	19.73	21.963	
751.9	751.9	737.2	737.2	3.9	14.0	121.51	-226.3	369.1	432.9	412.2	20.72	20.897	
800.0	800.0	785.1	785.1	3.9	14.7	121.51	-226.3	369.1	433.0	411.3	21.68	19.970	
900.0	900.0	884.5	884.5	4.0	16.2	121.54	-226.6	369.1	433.1	409.3	23.81	18.191	
1,000.0	1,000.0	985.4	985.4	4.2	17.9	121.60	-227.1	369.1	433.4	407.3	26.11	16.598	
1,100.0	1,100.0	1,085.4	1,085.4	4.3	19.7	121.60	-227.1	369.1	433.4	404.8	28.59	15.159	
1,124.8	1,124.8	1,110.0	1,109.9	4.3	20.1	121.54	-226.6	369.1	433.1	403.9	29.21	14.826	
1,200.0	1,200.0	1,184.0	1,183.9	4.4	21.5	121.58	-226.9	369.1	433.3	402.1	31.12	13.924	
1,300.0	1,300.0	1,285.5	1,285.4	4.5	23.6	121.60	-227.1	369.1	433.4	399.4	33.94	12.770	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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 FEDERAL #2 - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 490-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
1,400.0	1,400.0	1,385.5	1,385.4	4.6	25.7	121.60	-227.1	369.1	433.4	396.5	36.84	11.764	
1,456.8	1,456.8	1,442.2	1,442.1	4.7	26.9	121.49	-226.1	369.1	432.8	394.3	38.51	11.241	
1,500.0	1,500.0	1,485.1	1,485.0	4.8	27.8	121.49	-226.1	369.1	432.9	393.1	39.78	10.883	
1,600.0	1,600.0	1,584.2	1,584.1	4.9	29.9	61.69	-226.5	369.1	432.4	389.7	42.74	10.118	
1,700.0	1,699.9	1,685.5	1,685.3	5.0	32.2	62.25	-227.1	369.1	430.9	385.0	45.88	9.391	
1,800.0	1,799.7	1,785.3	1,785.1	5.2	34.7	63.06	-227.1	369.1	427.9	378.5	49.44	8.654	
1,833.3	1,832.9	1,818.5	1,818.3	5.2	35.6	63.41	-227.1	369.1	426.6	376.0	50.63	8.428	
1,900.0	1,899.3	1,884.8	1,884.6	5.3	37.3	58.86	-227.1	369.1	423.5	370.5	53.00	7.989	
2,000.0	1,998.5	1,983.2	1,983.0	5.6	39.8	55.26	-225.6	369.1	415.7	359.2	56.56	7.350	
2,100.0	2,097.2	2,080.7	2,080.5	5.9	42.4	54.17	-226.2	369.1	406.8	346.7	60.11	6.768	
2,200.0	2,195.3	2,181.2	2,180.7	6.3	45.0	54.61	-227.1	369.1	396.1	332.3	63.78	6.210	
2,299.9	2,292.7	2,278.5	2,278.0	6.7	47.6	56.00	-227.1	369.1	383.0	315.6	67.39	5.684	
2,400.0	2,389.8	2,375.6	2,375.2	7.0	50.2	59.05	-227.1	369.1	369.7	298.7	71.00	5.208	
2,500.0	2,486.8	2,471.5	2,471.0	7.3	52.7	62.04	-225.1	369.1	356.1	281.5	74.56	4.776	
2,600.0	2,583.9	2,566.7	2,566.2	7.7	55.3	65.51	-225.8	369.1	345.8	267.7	78.11	4.427	
2,700.0	2,680.9	2,666.9	2,666.3	8.1	57.9	69.40	-227.1	369.1	337.3	255.4	81.85	4.121	
2,800.0	2,777.9	2,764.0	2,763.3	8.5	60.6	73.24	-227.1	369.1	329.3	243.8	85.50	3.852	
2,900.0	2,875.0	2,861.0	2,860.3	8.8	63.2	77.23	-227.1	369.1	323.0	233.8	89.15	3.623	
3,000.0	2,972.0	2,957.5	2,956.8	9.3	65.8	81.23	-225.4	369.1	316.8	224.0	92.79	3.414	
3,100.0	3,069.0	3,053.1	3,052.4	9.7	68.4	85.42	-225.8	369.1	314.3	217.9	96.40	3.260	
3,157.1	3,124.4	3,107.7	3,107.0	9.9	69.8	87.85	-226.3	369.1	313.9	215.5	98.46	3.188 CC	
3,200.0	3,166.0	3,148.7	3,148.0	10.1	70.9	89.68	-226.7	369.1	314.1	214.1	100.01	3.141	
3,300.0	3,263.1	3,249.4	3,248.4	10.5	74.1	94.12	-227.1	369.1	315.4	210.9	104.45	3.019	
3,400.0	3,360.1	3,346.4	3,345.5	10.9	77.4	98.34	-227.1	369.1	318.1	209.0	109.03	2.917	
3,500.0	3,457.1	3,443.1	3,442.1	11.4	80.6	102.46	-225.0	369.1	320.4	206.8	113.60	2.821 ES	
3,600.0	3,554.2	3,538.0	3,537.0	11.8	83.8	106.40	-225.4	369.1	327.1	209.0	118.10	2.770	
3,700.0	3,651.2	3,632.8	3,631.8	12.3	87.0	110.16	-226.4	369.1	336.1	213.5	122.60	2.741	
3,800.0	3,748.2	3,728.3	3,726.9	12.7	90.5	113.76	-226.9	369.1	345.9	218.4	127.49	2.713	
3,900.0	3,845.2	3,832.1	3,830.6	13.2	94.4	117.47	-227.1	369.1	356.8	223.8	133.03	2.682	
4,000.0	3,942.3	3,929.1	3,927.6	13.6	98.1	120.73	-227.1	369.1	368.8	230.6	138.18	2.669	
4,100.0	4,039.3	4,026.1	4,024.5	14.1	101.7	123.99	-223.3	369.1	378.5	235.2	143.34	2.641 SF	
4,200.0	4,136.3	4,120.2	4,118.6	14.5	105.3	126.75	-223.7	369.1	393.2	244.9	148.35	2.651	
4,300.0	4,233.4	4,214.3	4,212.6	15.0	108.8	129.27	-225.0	369.1	409.6	256.2	153.35	2.671	
4,400.0	4,330.4	4,318.0	4,315.8	15.5	112.8	131.76	-227.1	369.1	427.4	268.5	158.88	2.690	
4,500.0	4,427.4	4,368.0	4,365.7	15.9	114.6	132.97	-227.1	369.1	446.6	286.0	160.61	2.781	
4,600.0	4,524.5	4,368.0	4,365.7	16.4	114.6	132.97	-227.1	369.1	483.5	329.2	154.32	3.133	
4,700.0	4,621.5	4,368.0	4,365.7	16.9	114.6	132.97	-227.1	369.1	536.8	392.1	144.68	3.710	
4,800.0	4,718.5	4,368.0	4,365.7	17.3	114.6	132.97	-227.1	369.1	602.0	467.7	134.27	4.484	
4,900.0	4,815.5	4,368.0	4,365.7	17.8	114.6	132.97	-227.1	369.1	675.8	551.3	124.48	5.429	
5,000.0	4,912.6	4,368.0	4,365.7	18.3	114.6	132.97	-227.1	369.1	755.7	639.8	115.83	6.524	
5,100.0	5,009.6	4,368.0	4,365.7	18.7	114.6	132.97	-227.1	369.1	839.8	731.5	108.39	7.748	
5,200.0	5,106.6	4,368.0	4,365.7	19.2	114.6	132.97	-227.1	369.1	927.2	825.1	102.06	9.085	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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 W1HA FEDERAL #1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 124-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	11,704.0	11,473.6	11,463.3	81.3	40.4	-38.80	10,878.2	951.4	978.1	897.5	80.63	12.130	
21,400.0	11,704.0	11,487.0	11,475.9	82.1	40.4	-39.99	10,882.7	950.9	887.8	805.1	82.70	10.735	
21,500.0	11,704.0	11,500.7	11,488.7	82.8	40.5	-41.25	10,887.7	950.6	799.3	714.0	85.27	9.373	
21,600.0	11,704.0	11,519.0	11,505.5	83.5	40.5	-42.97	10,894.9	950.3	713.0	624.6	88.35	8.070	
21,700.0	11,704.0	11,534.2	11,519.2	84.2	40.5	-44.45	10,901.5	950.2	629.6	537.2	92.45	6.810	
21,800.0	11,704.0	11,550.0	11,533.1	84.9	40.6	-46.04	10,908.9	950.1	550.3	452.6	97.74	5.631	
21,900.0	11,704.0	11,582.0	11,560.5	85.6	40.7	-49.38	10,925.4	950.1	476.3	372.8	103.44	4.604	
22,000.0	11,704.0	11,625.2	11,595.3	86.3	40.8	-53.99	10,951.0	952.1	408.8	299.1	109.64	3.728	
22,022.2	11,704.0	11,638.4	11,605.4	86.5	40.8	-55.37	10,959.3	953.3	394.6	283.8	110.86	3.560	
22,072.2	11,704.0	11,668.5	11,627.7	86.8	40.9	-58.55	10,979.1	957.2	363.8	250.1	113.70	3.200	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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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 W1HA FEDERAL #2H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 190-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	11,704.0	11,647.0	11,622.5	81.3	42.4	67.85	10,838.5	1,591.0	945.2	861.1	84.01	11.250	
21,400.0	11,704.0	11,654.6	11,630.0	82.1	42.4	68.82	10,839.8	1,591.2	856.4	769.6	86.83	9.863	
21,500.0	11,704.0	11,674.0	11,649.0	82.8	42.5	71.34	10,843.7	1,591.6	770.4	680.2	90.25	8.536	
21,600.0	11,704.0	11,674.0	11,649.0	83.5	42.5	71.34	10,843.7	1,591.6	687.6	592.6	95.02	7.236	
21,700.0	11,704.0	11,674.0	11,649.0	84.2	42.5	71.34	10,843.7	1,591.6	609.9	508.8	101.16	6.029	
21,800.0	11,704.0	11,695.4	11,669.8	84.9	42.5	74.18	10,848.8	1,592.2	538.8	430.5	108.29	4.976	
21,900.0	11,704.0	11,710.8	11,684.6	85.6	42.6	76.24	10,853.1	1,592.6	477.6	360.7	116.89	4.086	
22,000.0	11,704.0	11,731.5	11,704.1	86.3	42.6	79.02	10,859.8	1,593.2	430.0	304.2	125.79	3.418	
22,022.2	11,704.0	11,737.0	11,709.3	86.5	42.7	79.76	10,861.7	1,593.4	421.6	294.0	127.62	3.304	
22,072.2	11,704.0	11,750.8	11,722.1	86.8	42.7	81.61	10,866.8	1,593.9	406.3	275.0	131.30	3.094	CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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 #709H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11150-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	0.3	0.3	3.0	3.0	-89.65	0.7	-120.0	120.0				
100.0	100.0	100.3	100.3	3.0	3.0	-89.65	0.7	-120.0	120.0	113.5	6.52	18.407	
200.0	200.0	200.3	200.3	3.2	3.2	-89.65	0.7	-120.0	120.0	113.3	6.76	17.753	
300.0	300.0	300.3	300.3	3.3	3.3	-89.65	0.7	-120.0	120.0	113.0	6.99	17.166	
400.0	400.0	400.3	400.3	3.4	3.4	-89.65	0.7	-120.0	120.0	112.8	7.22	16.635	
500.0	500.0	500.3	500.3	3.5	3.5	-89.65	0.7	-120.0	120.0	112.6	7.43	16.151	
600.0	600.0	600.3	600.3	3.7	3.7	-89.65	0.7	-120.0	120.0	112.4	7.64	15.708	
700.0	700.0	700.3	700.3	3.8	3.8	-89.65	0.7	-120.0	120.0	112.2	7.84	15.301	
800.0	800.0	800.3	800.3	3.9	3.9	-89.65	0.7	-120.0	120.0	112.0	8.04	14.924	
900.0	900.0	900.3	900.3	4.0	4.0	-89.65	0.7	-120.0	120.0	111.8	8.24	14.575	
1,000.0	1,000.0	1,000.3	1,000.3	4.2	4.2	-89.65	0.7	-120.0	120.0	111.6	8.42	14.249	
1,100.0	1,100.0	1,100.3	1,100.3	4.3	4.3	-89.65	0.7	-120.0	120.0	111.4	8.61	13.945	
1,200.0	1,200.0	1,200.3	1,200.3	4.4	4.4	-89.65	0.7	-120.0	120.0	111.2	8.79	13.659	
1,300.0	1,300.0	1,300.3	1,300.3	4.5	4.5	-89.65	0.7	-120.0	120.0	111.1	8.96	13.391	
1,400.0	1,400.0	1,400.3	1,400.3	4.6	4.6	-89.65	0.7	-120.0	120.0	110.9	9.14	13.138	
1,466.6	1,466.6	1,466.8	1,466.8	4.7	4.7	-89.65	0.7	-120.0	120.0	110.8	9.25	12.979 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-89.65	0.7	-120.0	120.0	110.7	9.30	12.900 ES	
1,600.0	1,600.0	1,596.4	1,596.4	4.9	4.9	-149.65	1.3	-121.5	122.7	113.1	9.59	12.802 SF	
1,700.0	1,699.9	1,692.2	1,692.0	5.0	5.0	-149.64	3.1	-126.0	130.8	120.8	10.03	13.046	
1,800.0	1,799.7	1,787.0	1,786.6	5.2	5.3	-149.62	6.1	-133.3	144.2	133.7	10.48	13.754	
1,833.3	1,832.9	1,818.4	1,817.7	5.2	5.4	-149.61	7.4	-136.4	149.8	139.2	10.60	14.136	
1,900.0	1,899.3	1,880.6	1,879.5	5.3	5.5	-154.93	10.2	-143.4	163.1	152.2	10.87	14.997	
2,000.0	1,998.5	1,976.6	1,974.5	5.6	5.8	-159.69	15.2	-155.7	187.3	175.9	11.39	16.443	
2,100.0	2,097.2	2,072.6	2,069.7	5.9	6.0	-162.65	20.2	-168.1	215.0	203.0	11.94	18.006	
2,200.0	2,195.3	2,167.7	2,163.8	6.3	6.3	-164.70	25.1	-180.4	246.0	233.5	12.52	19.647	
2,299.9	2,292.7	2,261.6	2,256.7	6.7	6.5	-166.21	30.0	-192.5	280.2	267.1	13.13	21.347	
2,400.0	2,389.8	2,355.0	2,349.2	7.0	6.8	-166.31	34.9	-204.6	316.2	302.5	13.70	23.081	
2,500.0	2,486.8	2,448.3	2,441.7	7.3	7.1	-166.40	39.8	-216.6	352.1	337.8	14.29	24.636	
2,600.0	2,583.9	2,541.6	2,534.1	7.7	7.4	-166.47	44.6	-228.7	388.0	373.1	14.91	26.024	
2,700.0	2,680.9	2,635.0	2,626.5	8.1	7.7	-166.53	49.5	-240.7	423.9	408.4	15.55	27.266	
2,800.0	2,777.9	2,728.3	2,718.9	8.5	8.1	-166.58	54.4	-252.8	459.8	443.6	16.20	28.377	
2,900.0	2,875.0	2,821.6	2,811.3	8.8	8.4	-166.62	59.2	-264.8	495.7	478.9	16.88	29.373	
3,000.0	2,972.0	2,914.9	2,903.8	9.3	8.7	-166.66	64.1	-276.8	531.7	514.1	17.56	30.268	
3,100.0	3,069.0	3,008.3	2,996.2	9.7	9.1	-166.69	69.0	-288.9	567.6	549.3	18.27	31.074	
3,200.0	3,166.0	3,101.6	3,088.6	10.1	9.4	-166.72	73.8	-300.9	603.5	584.5	18.98	31.801	
3,300.0	3,263.1	3,194.9	3,181.0	10.5	9.8	-166.74	78.7	-313.0	639.4	619.7	19.70	32.459	
3,400.0	3,360.1	3,288.2	3,273.4	10.9	10.1	-166.76	83.6	-325.0	675.3	654.9	20.43	33.056	
3,500.0	3,457.1	3,381.6	3,365.9	11.4	10.5	-166.78	88.4	-337.1	711.2	690.1	21.17	33.599	
3,600.0	3,554.2	3,474.9	3,458.3	11.8	10.8	-166.80	93.3	-349.1	747.2	725.2	21.91	34.095	
3,700.0	3,651.2	3,574.2	3,556.6	12.3	11.2	-166.82	98.4	-361.7	782.9	760.2	22.69	34.509	
3,800.0	3,748.2	3,682.0	3,663.6	12.7	11.6	-166.90	103.3	-373.9	817.3	793.8	23.54	34.724	
3,900.0	3,845.2	3,791.1	3,772.2	13.2	12.0	-167.02	107.5	-384.3	850.1	825.7	24.39	34.852	
4,000.0	3,942.3	3,901.6	3,882.2	13.6	12.4	-167.18	111.0	-392.9	881.1	855.9	25.24	34.915	
4,100.0	4,039.3	4,013.2	3,993.6	14.1	12.8	-167.40	113.7	-399.6	910.5	884.4	26.07	34.926	
4,200.0	4,136.3	4,126.0	4,106.3	14.5	13.2	-167.65	115.6	-404.3	938.2	911.3	26.88	34.898	
4,300.0	4,233.4	4,239.9	4,220.1	15.0	13.5	-167.94	116.6	-406.9	964.1	936.4	27.66	34.853	
4,400.0	4,330.4	4,350.4	4,330.7	15.5	13.7	-168.26	116.9	-407.5	988.3	960.0	28.32	34.897	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	-89.59	0.6	-90.0	90.1				
100.0	100.0	100.0	100.0	3.0	3.0	-89.59	0.6	-90.0	90.1	83.5	6.52	13.811	
200.0	200.0	200.0	200.0	3.2	3.2	-89.59	0.6	-90.0	90.1	83.3	6.76	13.321	
300.0	300.0	300.0	300.0	3.3	3.3	-89.59	0.6	-90.0	90.1	83.1	6.99	12.880	
400.0	400.0	400.0	400.0	3.4	3.4	-89.59	0.6	-90.0	90.1	82.8	7.21	12.482	
500.0	500.0	500.0	500.0	3.5	3.5	-89.59	0.6	-90.0	90.1	82.6	7.43	12.119	
600.0	600.0	600.0	600.0	3.7	3.7	-89.59	0.6	-90.0	90.1	82.4	7.64	11.786	
700.0	700.0	700.0	700.0	3.8	3.8	-89.59	0.6	-90.0	90.1	82.2	7.84	11.481	
800.0	800.0	800.0	800.0	3.9	3.9	-89.59	0.6	-90.0	90.1	82.0	8.04	11.198	
900.0	900.0	900.0	900.0	4.0	4.0	-89.59	0.6	-90.0	90.1	81.8	8.23	10.936	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-89.59	0.6	-90.0	90.1	81.6	8.42	10.691	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-89.59	0.6	-90.0	90.1	81.4	8.61	10.463	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-89.59	0.6	-90.0	90.1	81.3	8.79	10.249	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-89.59	0.6	-90.0	90.1	81.1	8.96	10.048	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-89.59	0.6	-90.0	90.1	80.9	9.13	9.858	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-89.59	0.7	-90.0	90.1	80.7	9.30	9.679	
1,600.0	1,600.0	1,602.2	1,602.2	4.9	4.9	-149.18	2.0	-88.8	90.0	80.4	9.55	9.416	
1,700.0	1,699.9	1,704.4	1,704.2	5.0	5.2	-147.95	5.9	-85.0	89.7	79.7	9.95	9.009	
1,760.5	1,760.3	1,765.8	1,765.4	5.1	5.2	-146.83	9.5	-81.5	89.5	79.4	10.13	8.838	CC, ES
1,800.0	1,799.7	1,805.3	1,804.8	5.2	5.3	-146.17	12.0	-79.1	89.7	79.4	10.25	8.752	
1,833.3	1,832.9	1,838.6	1,838.0	5.2	5.3	-145.73	14.0	-77.1	90.1	79.8	10.33	8.720	
1,900.0	1,899.3	1,905.2	1,904.3	5.3	5.5	-150.40	18.2	-73.1	92.0	81.4	10.55	8.713	SF
2,000.0	1,998.5	2,005.1	2,003.8	5.6	5.7	-154.64	24.5	-67.0	97.6	86.6	11.02	8.857	
2,100.0	2,097.2	2,104.6	2,103.0	5.9	5.9	-157.39	30.7	-61.0	106.7	95.2	11.53	9.261	
2,200.0	2,195.3	2,203.9	2,201.8	6.3	6.2	-159.48	36.9	-55.0	119.3	107.2	12.06	9.888	
2,299.9	2,292.7	2,302.5	2,300.1	6.7	6.5	-161.22	43.1	-49.0	135.2	122.6	12.63	10.703	
2,400.0	2,389.8	2,401.0	2,398.2	7.0	6.7	-161.59	49.3	-43.1	152.8	139.7	13.16	11.613	
2,500.0	2,486.8	2,499.4	2,496.3	7.3	7.0	-161.88	55.5	-37.1	170.5	156.8	13.71	12.433	
2,600.0	2,583.9	2,597.9	2,594.3	7.7	7.3	-162.12	61.6	-31.1	188.1	173.8	14.28	13.171	
2,700.0	2,680.9	2,696.3	2,692.4	8.1	7.6	-162.31	67.8	-25.2	205.8	190.9	14.87	13.836	
2,800.0	2,777.9	2,794.7	2,790.4	8.5	7.9	-162.48	74.0	-19.2	223.4	207.9	15.48	14.435	
2,900.0	2,875.0	2,893.1	2,888.5	8.8	8.3	-162.62	80.2	-13.3	241.1	225.0	16.10	14.976	
3,000.0	2,972.0	2,990.0	2,985.0	9.3	8.5	-162.78	86.1	-7.6	258.9	242.2	16.68	15.520	
3,100.0	3,069.0	3,085.4	3,080.1	9.7	8.8	-163.15	90.9	-2.9	277.6	260.3	17.32	16.033	
3,200.0	3,166.0	3,180.2	3,174.8	10.1	9.1	-163.70	94.5	0.6	297.5	279.5	17.97	16.554	
3,300.0	3,263.1	3,274.6	3,269.1	10.5	9.4	-164.40	97.0	3.0	318.4	299.8	18.63	17.091	
3,400.0	3,360.1	3,368.4	3,362.9	10.9	9.7	-165.21	98.3	4.3	340.5	321.2	19.29	17.650	
3,500.0	3,457.1	3,462.6	3,457.1	11.4	9.8	-166.11	98.6	4.6	363.7	343.8	19.90	18.275	
3,600.0	3,554.2	3,559.6	3,554.2	11.8	9.8	-166.96	98.6	4.6	387.2	366.7	20.51	18.882	
3,700.0	3,651.2	3,656.7	3,651.2	12.3	9.9	-167.72	98.6	4.6	410.9	389.7	21.13	19.444	
3,800.0	3,748.2	3,753.7	3,748.2	12.7	10.0	-168.40	98.6	4.6	434.6	412.8	21.75	19.977	
3,900.0	3,845.2	3,850.7	3,845.3	13.2	10.1	-169.01	98.6	4.6	458.3	435.9	22.38	20.480	
4,000.0	3,942.3	3,947.8	3,942.3	13.6	10.2	-169.56	98.6	4.6	482.1	459.1	23.01	20.957	
4,100.0	4,039.3	4,044.8	4,039.3	14.1	10.3	-170.05	98.6	4.6	505.9	482.3	23.63	21.408	
4,200.0	4,136.3	4,141.8	4,136.4	14.5	10.3	-170.50	98.6	4.6	529.8	505.5	24.26	21.835	
4,300.0	4,233.4	4,238.9	4,233.4	15.0	10.4	-170.92	98.6	4.6	553.7	528.8	24.90	22.240	
4,400.0	4,330.4	4,335.9	4,330.4	15.5	10.5	-171.30	98.6	4.6	577.6	552.1	25.53	22.624	
4,500.0	4,427.4	4,432.9	4,427.4	15.9	10.6	-171.64	98.6	4.6	601.6	575.4	26.17	22.989	
4,600.0	4,524.5	4,529.9	4,524.5	16.4	10.7	-171.97	98.6	4.6	625.5	598.7	26.81	23.335	
4,700.0	4,621.5	4,627.0	4,621.5	16.9	10.7	-172.26	98.6	4.6	649.5	622.1	27.45	23.664	
4,800.0	4,718.5	4,724.0	4,718.5	17.3	10.8	-172.54	98.6	4.6	673.5	645.4	28.09	23.976	
4,900.0	4,815.5	4,821.0	4,815.6	17.8	10.9	-172.80	98.6	4.6	697.5	668.8	28.73	24.274	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	4,912.6	4,918.1	4,912.6	18.3	11.0	-173.04	98.6	4.6	721.5	692.1	29.38	24.557	
5,100.0	5,009.6	5,015.1	5,009.6	18.7	11.1	-173.26	98.6	4.6	745.5	715.5	30.03	24.828	
5,200.0	5,106.6	5,112.1	5,106.7	19.2	11.1	-173.48	98.6	4.6	769.6	738.9	30.68	25.085	
5,300.0	5,203.7	5,209.2	5,203.7	19.7	11.2	-173.67	98.6	4.6	793.6	762.3	31.33	25.331	
5,400.0	5,300.7	5,306.2	5,300.7	20.2	11.3	-173.86	98.6	4.6	817.7	785.7	31.98	25.566	
5,500.0	5,397.7	5,403.2	5,397.7	20.6	11.4	-174.04	98.6	4.6	841.8	809.1	32.64	25.791	
5,600.0	5,494.7	5,500.2	5,494.8	21.1	11.5	-174.20	98.6	4.6	865.8	832.5	33.29	26.006	
5,700.0	5,591.8	5,597.3	5,591.8	21.6	11.6	-174.36	98.6	4.6	889.9	856.0	33.95	26.212	
5,800.0	5,688.8	5,694.3	5,688.8	22.1	11.6	-174.51	98.6	4.6	914.0	879.4	34.61	26.409	
5,900.0	5,785.8	5,791.3	5,785.9	22.6	11.7	-174.65	98.6	4.6	938.1	902.8	35.27	26.598	
6,000.0	5,882.9	5,888.4	5,882.9	23.0	11.8	-174.78	98.6	4.6	962.2	926.2	35.93	26.779	
6,100.0	5,979.9	5,985.4	5,979.9	23.5	11.9	-174.91	98.6	4.6	986.3	949.7	36.59	26.953	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11164-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	0.1	0.1	3.0	3.0	-89.71	0.3	-60.1	60.1				
100.0	100.0	100.1	100.1	3.0	3.0	-89.71	0.3	-60.1	60.1	53.6	6.52	9.216	
200.0	200.0	200.1	200.1	3.2	3.2	-89.71	0.3	-60.1	60.1	53.3	6.76	8.889	
300.0	300.0	300.1	300.1	3.3	3.3	-89.71	0.3	-60.1	60.1	53.1	6.99	8.595	
400.0	400.0	400.1	400.1	3.4	3.4	-89.71	0.3	-60.1	60.1	52.9	7.21	8.329	
500.0	500.0	500.1	500.1	3.5	3.5	-89.71	0.3	-60.1	60.1	52.7	7.43	8.087	
600.0	600.0	600.1	600.1	3.7	3.7	-89.71	0.3	-60.1	60.1	52.5	7.64	7.865	
700.0	700.0	700.1	700.1	3.8	3.8	-89.71	0.3	-60.1	60.1	52.2	7.84	7.661	
800.0	800.0	800.1	800.1	3.9	3.9	-89.71	0.3	-60.1	60.1	52.0	8.04	7.472	
900.0	900.0	900.1	900.1	4.0	4.0	-89.71	0.3	-60.1	60.1	51.9	8.23	7.297	
1,000.0	1,000.0	1,000.1	1,000.1	4.2	4.2	-89.71	0.3	-60.1	60.1	51.7	8.42	7.134	
1,100.0	1,100.0	1,100.1	1,100.1	4.3	4.3	-89.71	0.3	-60.1	60.1	51.5	8.61	6.982	
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	-89.71	0.3	-60.1	60.1	51.3	8.79	6.839	
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	-89.71	0.3	-60.1	60.1	51.1	8.96	6.705	
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	-89.71	0.3	-60.1	60.1	51.0	9.13	6.578	
1,500.0	1,500.0	1,500.1	1,500.1	4.8	4.8	-89.71	0.3	-60.1	60.1	50.8	9.30	6.459	CC
1,504.4	1,504.4	1,504.6	1,504.6	4.8	4.8	-149.71	0.3	-60.1	60.1	50.8	9.31	6.452	
1,600.0	1,600.0	1,601.3	1,601.3	4.9	4.9	-149.52	1.2	-59.1	60.2	50.7	9.53	6.320	
1,700.0	1,699.9	1,702.5	1,702.4	5.0	5.1	-148.96	3.7	-56.0	60.6	50.7	9.92	6.109	ES
1,800.0	1,799.7	1,803.7	1,803.4	5.2	5.3	-148.03	8.1	-50.8	61.2	50.9	10.32	5.930	
1,833.3	1,832.9	1,837.4	1,837.0	5.2	5.3	-147.64	9.9	-48.7	61.5	51.0	10.41	5.902	
1,900.0	1,899.3	1,904.9	1,904.1	5.3	5.5	-151.90	14.1	-43.7	62.4	51.7	10.65	5.857	
2,000.0	1,998.5	2,006.0	2,004.5	5.6	5.7	-154.28	21.8	-34.5	65.1	54.0	11.11	5.856	
2,100.0	2,097.2	2,107.3	2,104.8	5.9	5.9	-155.00	30.0	-23.2	69.4	57.9	11.53	6.020	
2,200.0	2,195.3	2,207.9	2,204.5	6.3	6.1	-157.32	35.6	-10.5	75.3	63.3	12.04	6.255	
2,299.9	2,292.7	2,307.4	2,303.0	6.7	6.4	-159.74	40.8	2.4	84.3	71.6	12.68	6.649	
2,400.0	2,389.8	2,406.9	2,401.5	7.0	6.7	-160.72	46.0	15.2	95.0	81.7	13.29	7.150	
2,500.0	2,486.8	2,506.3	2,500.0	7.3	7.0	-161.51	51.2	28.0	105.8	91.9	13.94	7.591	
2,600.0	2,583.9	2,605.7	2,598.4	7.7	7.4	-162.15	56.4	40.8	116.6	102.0	14.61	7.979	
2,700.0	2,680.9	2,705.1	2,696.9	8.1	7.7	-162.68	61.5	53.7	127.3	112.0	15.30	8.321	
2,800.0	2,777.9	2,804.5	2,795.3	8.5	8.0	-163.13	66.7	66.5	138.1	122.1	16.02	8.624	
2,900.0	2,875.0	2,903.9	2,893.7	8.8	8.4	-163.51	71.9	79.3	148.9	132.2	16.75	8.891	
3,000.0	2,972.0	3,003.3	2,992.2	9.3	8.8	-163.85	77.1	92.2	159.7	142.2	17.50	9.128	
3,100.0	3,069.0	3,102.8	3,090.6	9.7	9.1	-164.14	82.3	105.0	170.5	152.3	18.26	9.339	
3,200.0	3,166.0	3,202.2	3,189.1	10.1	9.5	-164.39	87.5	117.8	181.4	162.3	19.03	9.528	
3,300.0	3,263.1	3,301.6	3,287.5	10.5	9.9	-164.62	92.6	130.6	192.2	172.4	19.82	9.697	
3,400.0	3,360.1	3,401.0	3,386.0	10.9	10.3	-164.82	97.8	143.5	203.0	182.4	20.61	9.849	
3,500.0	3,457.1	3,500.4	3,484.4	11.4	10.7	-165.00	103.0	156.3	213.8	192.4	21.41	9.986	
3,600.0	3,554.2	3,599.8	3,582.9	11.8	11.0	-165.17	108.2	169.1	224.6	202.4	22.22	10.109	
3,700.0	3,651.2	3,699.2	3,681.3	12.3	11.4	-165.32	113.4	182.0	235.5	212.4	23.03	10.222	
3,800.0	3,748.2	3,798.6	3,779.7	12.7	11.8	-165.45	118.6	194.8	246.3	222.4	23.86	10.324	
3,900.0	3,845.2	3,898.0	3,878.2	13.2	12.2	-165.58	123.7	207.6	257.1	232.4	24.68	10.417	
4,000.0	3,942.3	3,997.5	3,976.6	13.6	12.6	-165.69	128.9	220.4	267.9	242.4	25.51	10.502	
4,100.0	4,039.3	4,096.9	4,075.1	14.1	13.0	-165.80	134.1	233.3	278.8	252.4	26.35	10.581	
4,200.0	4,136.3	4,196.3	4,173.5	14.5	13.5	-165.90	139.3	246.1	289.6	262.4	27.19	10.653	
4,300.0	4,233.4	4,295.7	4,272.0	15.0	13.9	-165.99	144.5	258.9	300.4	272.4	28.03	10.719	
4,400.0	4,330.4	4,395.1	4,370.4	15.5	14.3	-166.07	149.7	271.7	311.3	282.4	28.87	10.780	
4,500.0	4,427.4	4,494.5	4,468.8	15.9	14.7	-166.15	154.8	284.6	322.1	292.4	29.72	10.837	
4,600.0	4,524.5	4,593.9	4,567.3	16.4	15.1	-166.22	160.0	297.4	332.9	302.3	30.57	10.890	
4,700.0	4,621.5	4,693.3	4,665.7	16.9	15.5	-166.29	165.2	310.2	343.7	312.3	31.42	10.939	
4,800.0	4,718.5	4,792.7	4,764.2	17.3	15.9	-166.36	170.4	323.1	354.6	322.3	32.28	10.985	
4,900.0	4,815.5	4,892.1	4,862.6	17.8	16.3	-166.42	175.6	335.9	365.4	332.3	33.14	11.027	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11164-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	4,912.6	4,991.6	4,961.1	18.3	16.7	-166.48	180.8	348.7	376.2	342.3	34.00	11.067	
5,100.0	5,009.6	5,090.4	5,058.9	18.7	17.1	-166.53	185.9	361.5	387.1	352.2	34.84	11.110	
5,200.0	5,106.6	5,183.8	5,151.5	19.2	17.5	-166.63	190.4	372.7	398.8	363.2	35.67	11.182	
5,300.0	5,203.7	5,276.8	5,244.0	19.7	17.9	-166.80	194.4	382.5	412.0	375.6	36.48	11.295	
5,400.0	5,300.7	5,369.4	5,336.1	20.2	18.3	-167.04	197.8	390.8	426.8	389.5	37.28	11.447	
5,500.0	5,397.7	5,461.6	5,428.0	20.6	18.6	-167.33	200.6	397.8	443.0	404.9	38.07	11.634	
5,600.0	5,494.7	5,553.2	5,519.4	21.1	18.9	-167.67	202.8	403.3	460.7	421.8	38.85	11.858	
5,700.0	5,591.8	5,644.3	5,610.4	21.6	19.2	-168.05	204.5	407.5	479.8	440.2	39.60	12.116	
5,800.0	5,688.8	5,734.8	5,700.9	22.1	19.5	-168.45	205.6	410.3	500.5	460.2	40.33	12.410	
5,900.0	5,785.8	5,824.7	5,790.8	22.6	19.7	-168.88	206.2	411.7	522.6	481.6	41.00	12.746	
6,000.0	5,882.9	5,916.9	5,882.9	23.0	19.8	-169.34	206.3	412.0	546.1	504.5	41.60	13.129	
6,100.0	5,979.9	6,013.9	5,980.0	23.5	19.9	-169.79	206.3	412.0	569.9	527.7	42.21	13.502	
6,200.0	6,076.9	6,111.0	6,077.0	24.0	19.9	-170.20	206.3	412.0	593.8	551.0	42.82	13.867	
6,300.0	6,174.0	6,208.0	6,174.0	24.5	20.0	-170.58	206.3	412.0	617.6	574.2	43.43	14.223	
6,400.0	6,271.0	6,305.0	6,271.0	25.0	20.0	-170.94	206.3	412.0	641.5	597.5	44.03	14.570	
6,500.0	6,368.0	6,402.0	6,368.1	25.4	20.0	-171.26	206.3	412.0	665.5	620.8	44.64	14.907	
6,600.0	6,465.0	6,499.1	6,465.1	25.9	20.1	-171.57	206.3	412.0	689.4	644.2	45.25	15.236	
6,700.0	6,562.1	6,596.1	6,562.1	26.4	20.1	-171.85	206.3	412.0	713.4	667.5	45.85	15.557	
6,800.0	6,659.1	6,693.1	6,659.2	26.9	20.2	-172.12	206.3	412.0	737.3	690.9	46.46	15.869	
6,821.5	6,680.0	6,714.0	6,680.1	27.0	20.2	-172.17	206.3	412.0	742.5	695.9	46.59	15.937	
6,900.0	6,756.4	6,790.4	6,756.4	27.4	20.2	-172.41	206.3	412.0	760.3	713.2	47.06	16.154	
7,000.0	6,854.4	6,888.4	6,854.5	27.9	20.3	-172.65	206.3	412.0	779.9	732.3	47.66	16.363	
7,100.0	6,953.0	6,987.1	6,953.1	28.3	20.3	-172.84	206.3	412.0	796.2	747.9	48.24	16.504	
7,200.0	7,052.2	7,086.2	7,052.3	28.8	20.4	-172.99	206.3	412.0	809.0	760.2	48.79	16.581	
7,300.0	7,151.7	7,185.8	7,151.8	29.2	20.4	-173.09	206.3	412.0	818.4	769.1	49.31	16.598	
7,400.0	7,251.6	7,285.6	7,251.6	29.5	20.4	-173.16	206.3	412.0	824.4	774.6	49.77	16.563	
7,500.0	7,351.5	7,385.6	7,351.6	29.8	20.5	-173.18	206.3	412.0	826.8	776.7	50.15	16.488	
7,521.5	7,373.1	7,407.1	7,373.1	29.8	20.5	-96.18	206.3	412.0	826.9	776.7	50.18	16.479	
7,600.0	7,451.5	7,485.6	7,451.6	29.9	20.5	-96.18	206.3	412.0	826.9	776.7	50.23	16.462	
7,700.0	7,551.5	7,585.6	7,551.6	29.9	20.6	-96.18	206.3	412.0	826.9	776.6	50.30	16.439	
7,800.0	7,651.5	7,685.6	7,651.6	29.9	20.6	-96.18	206.3	412.0	826.9	776.5	50.37	16.416	
7,900.0	7,751.5	7,785.6	7,751.6	30.0	20.7	-96.18	206.3	412.0	826.9	776.5	50.44	16.393	
8,000.0	7,851.5	7,885.6	7,851.6	30.0	20.7	-96.18	206.3	412.0	826.9	776.4	50.52	16.370	
8,100.0	7,951.5	7,985.6	7,951.6	30.0	20.8	-96.18	206.3	412.0	826.9	776.3	50.59	16.346	
8,200.0	8,051.5	8,085.6	8,051.6	30.0	20.8	-96.18	206.3	412.0	826.9	776.3	50.66	16.323	
8,300.0	8,151.5	8,185.6	8,151.6	30.1	20.9	-96.18	206.3	412.0	826.9	776.2	50.73	16.300	
8,400.0	8,251.5	8,285.6	8,251.6	30.1	20.9	-96.18	206.3	412.0	826.9	776.1	50.81	16.276	
8,500.0	8,351.5	8,385.6	8,351.6	30.1	21.0	-96.18	206.3	412.0	826.9	776.0	50.88	16.253	
8,600.0	8,451.5	8,485.6	8,451.6	30.2	21.0	-96.18	206.3	412.0	826.9	776.0	50.95	16.229	
8,700.0	8,551.5	8,585.6	8,551.6	30.2	21.1	-96.18	206.3	412.0	826.9	775.9	51.03	16.205	
8,800.0	8,651.5	8,685.6	8,651.6	30.2	21.1	-96.18	206.3	412.0	826.9	775.8	51.10	16.182	
8,900.0	8,751.5	8,785.6	8,751.6	30.3	21.2	-96.18	206.3	412.0	826.9	775.7	51.18	16.158	
9,000.0	8,851.5	8,885.6	8,851.6	30.3	21.2	-96.18	206.3	412.0	826.9	775.7	51.25	16.134	
9,100.0	8,951.5	8,985.6	8,951.6	30.3	21.3	-96.18	206.3	412.0	826.9	775.6	51.33	16.110	
9,200.0	9,051.5	9,085.6	9,051.6	30.4	21.3	-96.18	206.3	412.0	826.9	775.5	51.41	16.086	
9,300.0	9,151.5	9,185.6	9,151.6	30.4	21.4	-96.18	206.3	412.0	826.9	775.4	51.48	16.062	
9,400.0	9,251.5	9,285.6	9,251.6	30.4	21.4	-96.18	206.3	412.0	826.9	775.4	51.56	16.038	
9,500.0	9,351.5	9,385.6	9,351.6	30.5	21.5	-96.18	206.3	412.0	826.9	775.3	51.64	16.014	
9,600.0	9,451.5	9,485.6	9,451.6	30.5	21.5	-96.18	206.3	412.0	826.9	775.2	51.71	15.990	
9,700.0	9,551.5	9,585.6	9,551.6	30.5	21.6	-96.18	206.3	412.0	826.9	775.1	51.79	15.966	
9,800.0	9,651.5	9,685.6	9,651.6	30.6	21.6	-96.18	206.3	412.0	826.9	775.0	51.87	15.942	
9,900.0	9,751.5	9,785.6	9,751.6	30.6	21.7	-96.18	206.3	412.0	826.9	775.0	51.95	15.917	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11164-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
10,000.0	9,851.5	9,885.6	9,851.6	30.6	21.7	-96.18	206.3	412.0	826.9	774.9	52.03	15.893	
10,100.0	9,951.5	9,985.6	9,951.6	30.7	21.8	-96.18	206.3	412.0	826.9	774.8	52.11	15.869	
10,200.0	10,051.5	10,085.6	10,051.6	30.7	21.8	-96.18	206.3	412.0	826.9	774.7	52.19	15.844	
10,300.0	10,151.5	10,185.6	10,151.6	30.7	21.9	-96.18	206.3	412.0	826.9	774.6	52.27	15.820	
10,400.0	10,251.5	10,285.6	10,251.6	30.8	21.9	-96.18	206.3	412.0	826.9	774.6	52.35	15.795	
10,500.0	10,351.5	10,385.6	10,351.6	30.8	22.0	-96.18	206.3	412.0	826.9	774.5	52.43	15.771	
10,600.0	10,451.5	10,485.6	10,451.6	30.8	22.0	-96.18	206.3	412.0	826.9	774.4	52.51	15.746	
10,700.0	10,551.5	10,585.6	10,551.6	30.9	22.1	-96.18	206.3	412.0	826.9	774.3	52.60	15.722	
10,800.0	10,651.5	10,685.6	10,651.6	30.9	22.1	-96.18	206.3	412.0	826.9	774.2	52.68	15.697	
10,900.0	10,751.5	10,785.6	10,751.6	31.0	22.2	-96.18	206.3	412.0	826.9	774.2	52.76	15.673	
11,000.0	10,851.5	10,885.6	10,851.6	31.0	22.2	-96.18	206.3	412.0	826.9	774.1	52.85	15.648	
11,100.0	10,951.5	10,985.6	10,951.6	31.0	22.3	-96.18	206.3	412.0	826.9	774.0	52.93	15.623	
11,200.0	11,051.5	11,085.6	11,051.6	31.1	22.3	-96.18	206.3	412.0	826.9	773.9	53.01	15.598	
11,279.5	11,131.0	11,165.3	11,131.3	31.1	22.4	-96.18	206.3	412.0	826.9	773.9	53.06	15.584	
11,300.0	11,151.5	11,189.4	11,155.4	31.1	22.4	-96.02	206.9	412.0	826.9	773.8	53.10	15.574	
11,350.0	11,201.3	11,248.2	11,214.0	31.1	22.4	-95.96	212.5	412.0	826.8	773.6	53.17	15.550	
11,400.0	11,250.6	11,306.9	11,271.5	31.1	22.4	-95.85	224.1	412.0	826.7	773.4	53.23	15.530	
11,450.0	11,299.0	11,365.3	11,327.2	31.1	22.4	-95.69	241.3	411.9	826.4	773.2	53.27	15.514	
11,500.0	11,346.1	11,423.4	11,380.6	31.1	22.5	-95.47	264.1	411.8	826.1	772.8	53.29	15.502	
11,550.0	11,391.6	11,481.0	11,431.1	31.1	22.5	-95.21	291.8	411.8	825.8	772.5	53.29	15.495	
11,600.0	11,435.1	11,538.1	11,478.1	31.1	22.5	-94.90	324.2	411.7	825.4	772.1	53.28	15.491	
11,650.0	11,476.2	11,594.5	11,521.2	31.1	22.5	-94.55	360.6	411.6	825.0	771.7	53.26	15.491	
11,700.0	11,514.8	11,650.4	11,560.0	31.2	22.6	-94.17	400.7	411.4	824.6	771.4	53.23	15.492	
11,750.0	11,550.4	11,705.5	11,594.4	31.2	22.6	-93.75	443.8	411.3	824.2	771.0	53.19	15.494	
11,800.0	11,582.8	11,760.0	11,624.2	31.2	22.6	-93.31	489.3	411.2	823.8	770.6	53.16	15.497	
11,850.0	11,611.8	11,813.7	11,649.2	31.2	22.7	-92.84	536.9	411.0	823.4	770.3	53.13	15.498	
11,900.0	11,637.2	11,866.7	11,669.3	31.2	22.7	-92.36	585.9	410.9	823.1	770.0	53.12	15.496	
11,950.0	11,658.6	11,918.9	11,684.7	31.3	22.8	-91.85	635.8	410.8	822.9	769.8	53.12	15.491	
12,000.0	11,676.1	11,970.5	11,695.3	31.3	22.8	-91.34	686.2	410.6	822.7	769.5	53.14	15.482	
12,050.0	11,689.4	12,021.3	11,701.4	31.3	22.9	-90.82	736.6	410.5	822.5	769.4	53.18	15.467	
12,100.0	11,698.5	12,071.4	11,703.0	31.4	22.9	-90.31	786.7	410.3	822.5	769.2	53.24	15.447	
12,122.0	11,701.1	12,093.2	11,703.0	31.4	23.0	-90.12	808.5	410.2	822.5	769.2	53.29	15.435	
12,150.0	11,703.2	12,121.1	11,703.0	31.4	23.0	-89.98	836.4	410.2	822.5	769.1	53.35	15.415	
12,179.5	11,704.0	12,150.6	11,703.0	31.4	23.0	-89.92	865.9	410.1	822.5	769.0	53.44	15.390	
12,200.0	11,704.0	12,171.1	11,703.0	31.5	23.1	-89.92	886.4	410.0	822.5	769.0	53.51	15.371	
12,300.0	11,704.0	12,271.1	11,703.0	31.6	23.2	-89.92	986.4	409.7	822.5	768.6	53.87	15.267	
12,400.0	11,704.0	12,371.1	11,703.0	31.7	23.4	-89.92	1,086.4	409.4	822.5	768.3	54.28	15.154	
12,500.0	11,704.0	12,471.1	11,703.0	31.9	23.6	-89.92	1,186.4	409.1	822.6	767.8	54.72	15.031	
12,600.0	11,704.0	12,571.1	11,703.0	32.0	23.9	-89.92	1,286.4	408.9	822.6	767.4	55.20	14.901	
12,700.0	11,704.0	12,671.1	11,703.0	32.2	24.1	-89.92	1,386.4	408.6	822.6	766.9	55.72	14.763	
12,800.0	11,704.0	12,771.1	11,703.0	32.4	24.4	-89.92	1,486.4	408.3	822.6	766.3	56.28	14.618	
12,900.0	11,704.0	12,871.1	11,703.0	32.7	24.7	-89.92	1,586.4	408.0	822.6	765.8	56.86	14.467	
13,000.0	11,704.0	12,971.1	11,703.0	32.9	25.1	-89.92	1,686.4	407.7	822.7	765.2	57.49	14.311	
13,100.0	11,704.0	13,071.1	11,703.0	33.2	25.4	-89.92	1,786.4	407.4	822.7	764.5	58.14	14.150	
13,200.0	11,704.0	13,171.1	11,703.0	33.5	25.8	-89.92	1,886.4	407.1	822.7	763.9	58.83	13.985	
13,300.0	11,704.0	13,271.1	11,703.0	33.8	26.2	-89.92	1,986.4	406.8	822.7	763.2	59.54	13.817	
13,400.0	11,704.0	13,371.1	11,703.0	34.1	26.6	-89.92	2,086.4	406.5	822.7	762.5	60.29	13.646	
13,500.0	11,704.0	13,471.1	11,703.0	34.4	27.0	-89.92	2,186.4	406.2	822.8	761.7	61.07	13.474	
13,600.0	11,704.0	13,571.1	11,703.0	34.7	27.4	-89.92	2,286.4	405.9	822.8	760.9	61.87	13.299	
13,700.0	11,704.0	13,671.1	11,703.0	35.1	27.9	-89.92	2,386.4	405.6	822.8	760.1	62.69	13.124	
13,800.0	11,704.0	13,771.1	11,703.0	35.5	28.4	-89.92	2,486.4	405.3	822.8	759.3	63.55	12.948	
13,900.0	11,704.0	13,871.1	11,703.0	35.9	28.8	-89.92	2,586.4	405.1	822.9	758.4	64.42	12.772	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11164-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
14,000.0	11,704.0	13,971.1	11,703.0	36.2	29.3	-89.92	2,686.4	404.8	822.9	757.6	65.32	12.597	
14,100.0	11,704.0	14,071.1	11,703.0	36.7	29.9	-89.92	2,786.4	404.5	822.9	756.7	66.25	12.422	
14,200.0	11,704.0	14,171.1	11,703.0	37.1	30.4	-89.92	2,886.4	404.2	822.9	755.7	67.19	12.248	
14,300.0	11,704.0	14,271.1	11,703.0	37.5	30.9	-89.92	2,986.4	403.9	822.9	754.8	68.15	12.075	
14,400.0	11,704.0	14,371.1	11,703.0	38.0	31.5	-89.92	3,086.4	403.6	823.0	753.8	69.14	11.903	
14,500.0	11,704.0	14,471.1	11,703.0	38.4	32.0	-89.92	3,186.4	403.3	823.0	752.8	70.14	11.734	
14,600.0	11,704.0	14,571.1	11,703.0	38.9	32.6	-89.92	3,286.4	403.0	823.0	751.8	71.16	11.566	
14,700.0	11,704.0	14,671.1	11,703.0	39.4	33.1	-89.92	3,386.4	402.7	823.0	750.8	72.20	11.400	
14,800.0	11,704.0	14,771.1	11,703.0	39.8	33.7	-89.92	3,486.4	402.4	823.0	749.8	73.25	11.236	
14,900.0	11,704.0	14,871.1	11,703.0	40.3	34.3	-89.92	3,586.4	402.1	823.1	748.8	74.32	11.075	
15,000.0	11,704.0	14,971.1	11,703.0	40.8	34.9	-89.92	3,686.4	401.8	823.1	747.7	75.40	10.916	
15,100.0	11,704.0	15,071.1	11,703.0	41.4	35.5	-89.92	3,786.4	401.6	823.1	746.6	76.50	10.759	
15,200.0	11,704.0	15,171.1	11,703.0	41.9	36.1	-89.92	3,886.4	401.3	823.1	745.5	77.61	10.606	
15,300.0	11,704.0	15,271.1	11,703.0	42.4	36.7	-89.92	3,986.4	401.0	823.2	744.4	78.74	10.454	
15,400.0	11,704.0	15,371.1	11,703.0	42.9	37.4	-89.92	4,086.4	400.7	823.2	743.3	79.88	10.306	
15,500.0	11,704.0	15,471.1	11,703.0	43.5	38.0	-89.92	4,186.4	400.4	823.2	742.2	81.03	10.160	
15,600.0	11,704.0	15,571.1	11,703.0	44.0	38.6	-89.92	4,286.4	400.1	823.2	741.0	82.19	10.016	
15,700.0	11,704.0	15,671.1	11,703.0	44.6	39.3	-89.92	4,386.4	399.8	823.2	739.9	83.36	9.876	
15,800.0	11,704.0	15,771.1	11,703.0	45.2	39.9	-89.92	4,486.4	399.5	823.3	738.7	84.54	9.738	
15,900.0	11,704.0	15,871.1	11,703.0	45.7	40.5	-89.92	4,586.4	399.2	823.3	737.5	85.74	9.602	
16,000.0	11,704.0	15,971.1	11,703.0	46.3	41.2	-89.92	4,686.4	398.9	823.3	736.4	86.94	9.470	
16,100.0	11,704.0	16,071.1	11,703.0	46.9	41.9	-89.92	4,786.4	398.6	823.3	735.2	88.15	9.340	
16,200.0	11,704.0	16,171.1	11,703.0	47.5	42.5	-89.92	4,886.4	398.3	823.4	734.0	89.37	9.212	
16,300.0	11,704.0	16,271.1	11,703.0	48.1	43.2	-89.92	4,986.4	398.0	823.4	732.8	90.61	9.088	
16,400.0	11,704.0	16,371.1	11,703.0	48.6	43.8	-89.92	5,086.4	397.8	823.4	731.6	91.84	8.965	
16,500.0	11,704.0	16,471.1	11,703.0	49.2	44.5	-89.92	5,186.4	397.5	823.4	730.3	93.09	8.845	
16,600.0	11,704.0	16,571.1	11,703.0	49.9	45.2	-89.92	5,286.4	397.2	823.4	729.1	94.34	8.728	
16,700.0	11,704.0	16,671.1	11,703.0	50.5	45.9	-89.92	5,386.4	396.9	823.5	727.9	95.60	8.613	
16,800.0	11,704.0	16,771.1	11,703.0	51.1	46.5	-89.92	5,486.4	396.6	823.5	726.6	96.87	8.501	
16,900.0	11,704.0	16,871.1	11,703.0	51.7	47.2	-89.92	5,586.4	396.3	823.5	725.4	98.15	8.390	
17,000.0	11,704.0	16,971.1	11,703.0	52.3	47.9	-89.92	5,686.4	396.0	823.5	724.1	99.43	8.283	
17,100.0	11,704.0	17,071.1	11,703.0	52.9	48.6	-89.92	5,786.4	395.7	823.5	722.8	100.72	8.177	
17,200.0	11,704.0	17,171.1	11,703.0	53.6	49.3	-89.92	5,886.4	395.4	823.6	721.6	102.01	8.073	
17,300.0	11,704.0	17,271.1	11,703.0	54.2	50.0	-89.92	5,986.4	395.1	823.6	720.3	103.31	7.972	
17,400.0	11,704.0	17,371.1	11,703.0	54.8	50.6	-89.92	6,086.4	394.8	823.6	719.0	104.62	7.873	
17,500.0	11,704.0	17,471.1	11,703.0	55.5	51.3	-89.92	6,186.4	394.5	823.6	717.7	105.93	7.776	
17,600.0	11,704.0	17,571.1	11,703.0	56.1	52.0	-89.92	6,286.4	394.2	823.7	716.4	107.24	7.680	
17,700.0	11,704.0	17,671.1	11,703.0	56.8	52.7	-89.92	6,386.4	394.0	823.7	715.1	108.56	7.587	
17,800.0	11,704.0	17,771.1	11,703.0	57.4	53.4	-89.93	6,486.4	393.7	823.7	713.8	109.89	7.496	
17,900.0	11,704.0	17,871.1	11,703.0	58.1	54.1	-89.93	6,586.4	393.4	823.7	712.5	111.22	7.406	
18,000.0	11,704.0	17,971.1	11,703.0	58.7	54.8	-89.93	6,686.4	393.1	823.7	711.2	112.55	7.319	
18,100.0	11,704.0	18,071.1	11,703.0	59.4	55.5	-89.93	6,786.4	392.8	823.8	709.9	113.89	7.233	
18,200.0	11,704.0	18,171.1	11,703.0	60.0	56.2	-89.93	6,886.4	392.5	823.8	708.6	115.23	7.149	
18,300.0	11,704.0	18,271.1	11,703.0	60.7	57.0	-89.93	6,986.4	392.2	823.8	707.2	116.58	7.067	
18,400.0	11,704.0	18,371.1	11,703.0	61.3	57.7	-89.93	7,086.4	391.9	823.8	705.9	117.93	6.986	
18,500.0	11,704.0	18,471.1	11,703.0	62.0	58.4	-89.93	7,186.4	391.6	823.8	704.6	119.28	6.907	
18,600.0	11,704.0	18,571.1	11,703.0	62.7	59.1	-89.93	7,286.4	391.3	823.9	703.2	120.64	6.829	
18,700.0	11,704.0	18,671.1	11,703.0	63.4	59.8	-89.93	7,386.4	391.0	823.9	701.9	122.00	6.753	
18,800.0	11,704.0	18,771.1	11,703.0	64.0	60.5	-89.93	7,486.4	390.7	823.9	700.5	123.37	6.679	
18,900.0	11,704.0	18,871.1	11,703.0	64.7	61.2	-89.93	7,586.4	390.5	823.9	699.2	124.74	6.605	
19,000.0	11,704.0	18,971.1	11,703.0	65.4	61.9	-89.93	7,686.4	390.2	824.0	697.8	126.11	6.534	
19,100.0	11,704.0	19,071.1	11,703.0	66.1	62.7	-89.93	7,786.4	389.9	824.0	696.5	127.48	6.464	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11164-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
19,200.0	11,704.0	19,171.1	11,703.0	66.7	63.4	-89.93	7,886.4	389.6	824.0	695.1	128.86	6.395	
19,300.0	11,704.0	19,271.1	11,703.0	67.4	64.1	-89.93	7,986.4	389.3	824.0	693.8	130.24	6.327	
19,400.0	11,704.0	19,371.1	11,703.0	68.1	64.8	-89.93	8,086.4	389.0	824.0	692.4	131.62	6.261	
19,500.0	11,704.0	19,471.1	11,703.0	68.8	65.5	-89.93	8,186.4	388.7	824.1	691.1	133.01	6.196	
19,600.0	11,704.0	19,571.1	11,703.0	69.5	66.3	-89.93	8,286.4	388.4	824.1	689.7	134.39	6.132	
19,700.0	11,704.0	19,671.1	11,703.0	70.2	67.0	-89.93	8,386.4	388.1	824.1	688.3	135.79	6.069	
19,800.0	11,704.0	19,771.1	11,703.0	70.8	67.7	-89.93	8,486.4	387.8	824.1	687.0	137.18	6.008	
19,900.0	11,704.0	19,871.1	11,703.0	71.5	68.4	-89.93	8,586.4	387.5	824.2	685.6	138.57	5.947	
20,000.0	11,704.0	19,971.1	11,703.0	72.2	69.2	-89.93	8,686.4	387.2	824.2	684.2	139.97	5.888	
20,100.0	11,704.0	20,071.1	11,703.0	72.9	69.9	-89.93	8,786.4	386.9	824.2	682.8	141.37	5.830	
20,200.0	11,704.0	20,171.1	11,703.0	73.6	70.6	-89.93	8,886.4	386.7	824.2	681.4	142.77	5.773	
20,300.0	11,704.0	20,271.1	11,703.0	74.3	71.3	-89.93	8,986.4	386.4	824.2	680.1	144.18	5.717	
20,400.0	11,704.0	20,371.1	11,703.0	75.0	72.1	-89.93	9,086.4	386.1	824.3	678.7	145.58	5.662	
20,500.0	11,704.0	20,471.1	11,703.0	75.7	72.8	-89.93	9,186.4	385.8	824.3	677.3	146.99	5.608	
20,600.0	11,704.0	20,571.1	11,703.0	76.4	73.5	-89.93	9,286.4	385.5	824.3	675.9	148.40	5.555	
20,700.0	11,704.0	20,671.1	11,703.0	77.1	74.3	-89.93	9,386.4	385.2	824.3	674.5	149.81	5.502	
20,800.0	11,704.0	20,771.1	11,703.0	77.8	75.0	-89.93	9,486.4	384.9	824.3	673.1	151.23	5.451	
20,900.0	11,704.0	20,871.1	11,703.0	78.5	75.7	-89.93	9,586.4	384.6	824.4	671.7	152.64	5.401	
21,000.0	11,704.0	20,971.1	11,703.0	79.2	76.5	-89.93	9,686.4	384.3	824.4	670.3	154.06	5.351	
21,100.0	11,704.0	21,071.1	11,703.0	79.9	77.2	-89.93	9,786.4	384.0	824.4	668.9	155.48	5.302	
21,200.0	11,704.0	21,171.1	11,703.0	80.6	77.9	-89.93	9,886.4	383.7	824.4	667.5	156.90	5.255	
21,300.0	11,704.0	21,271.1	11,703.0	81.3	78.7	-89.93	9,986.4	383.4	824.5	666.1	158.32	5.207	
21,400.0	11,704.0	21,371.1	11,703.0	82.1	79.4	-89.93	10,086.4	383.2	824.5	664.7	159.75	5.161	
21,500.0	11,704.0	21,471.1	11,703.0	82.8	80.1	-89.93	10,186.4	382.9	824.5	663.3	161.17	5.116	
21,600.0	11,704.0	21,571.1	11,703.0	83.5	80.9	-89.93	10,286.4	382.6	824.5	661.9	162.60	5.071	
21,700.0	11,704.0	21,671.1	11,703.0	84.2	81.6	-89.93	10,386.4	382.3	824.5	660.5	164.02	5.027	
21,800.0	11,704.0	21,771.1	11,703.0	84.9	82.3	-89.93	10,486.4	382.0	824.6	659.1	165.45	4.984	
21,900.0	11,704.0	21,871.1	11,703.0	85.6	83.1	-89.93	10,586.4	381.7	824.6	657.7	166.88	4.941	
22,000.0	11,704.0	21,971.1	11,703.0	86.3	83.8	-89.93	10,686.4	381.4	824.6	656.3	168.32	4.899	
22,022.2	11,704.0	21,993.3	11,703.0	86.5	84.0	-89.93	10,708.6	381.3	824.6	656.0	168.63	4.890	
22,023.9	11,704.0	21,995.0	11,703.0	86.5	84.0	-89.93	10,710.3	381.3	824.6	656.0	168.66	4.889	
22,072.2	11,704.0	22,041.7	11,703.0	86.8	84.3	-89.93	10,757.0	381.2	824.6	655.3	169.33	4.870 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11396-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	-89.49	0.3	-30.1	30.1				
100.0	100.0	99.9	99.9	3.0	3.0	-89.49	0.3	-30.1	30.1	23.6	6.52	4.613	
200.0	200.0	199.9	199.9	3.2	3.2	-89.49	0.3	-30.1	30.1	23.3	6.76	4.450	
300.0	300.0	299.9	299.9	3.3	3.3	-89.49	0.3	-30.1	30.1	23.1	6.99	4.303	
400.0	400.0	399.9	399.9	3.4	3.4	-89.49	0.3	-30.1	30.1	22.9	7.21	4.169	
500.0	500.0	499.9	499.9	3.5	3.5	-89.49	0.3	-30.1	30.1	22.7	7.43	4.048	
600.0	600.0	599.9	599.9	3.7	3.7	-89.49	0.3	-30.1	30.1	22.4	7.64	3.937	
700.0	700.0	699.9	699.9	3.8	3.8	-89.49	0.3	-30.1	30.1	22.2	7.84	3.835	
800.0	800.0	799.9	799.9	3.9	3.9	-89.49	0.3	-30.1	30.1	22.0	8.04	3.741	
900.0	900.0	899.9	899.9	4.0	4.0	-89.49	0.3	-30.1	30.1	21.8	8.23	3.653	
1,000.0	1,000.0	999.9	999.9	4.2	4.2	-89.49	0.3	-30.1	30.1	21.7	8.42	3.571	
1,100.0	1,100.0	1,099.9	1,099.9	4.3	4.3	-89.49	0.3	-30.1	30.1	21.5	8.61	3.495	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	-89.49	0.3	-30.1	30.1	21.3	8.79	3.424	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	-89.49	0.3	-30.1	30.1	21.1	8.96	3.356	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	-89.49	0.3	-30.1	30.1	20.9	9.13	3.293	
1,500.0	1,500.0	1,499.9	1,499.9	4.8	4.8	-89.49	0.3	-30.1	30.1	20.8	9.30	3.233	
1,600.0	1,600.0	1,600.6	1,600.6	4.9	4.9	-149.48	0.9	-28.9	30.1	20.5	9.53	3.155	
1,700.0	1,699.9	1,701.3	1,701.2	5.0	5.0	-149.45	2.9	-25.5	30.1	20.1	9.93	3.026	
1,800.0	1,799.7	1,802.0	1,801.7	5.2	5.2	-149.41	6.2	-19.7	30.0	19.7	10.35	2.901	
1,833.3	1,832.9	1,835.5	1,835.1	5.2	5.3	-149.40	7.6	-17.3	30.0	19.6	10.45	2.871	
1,837.5	1,837.0	1,839.7	1,839.3	5.2	5.3	-149.80	7.8	-17.0	30.0	19.5	10.47	2.866	CC, ES
1,900.0	1,899.3	1,902.7	1,901.9	5.3	5.4	-154.26	10.9	-11.7	30.2	19.5	10.70	2.825	
2,000.0	1,998.5	2,003.3	2,001.9	5.6	5.7	-156.90	16.8	-1.4	31.6	20.4	11.20	2.824	
2,100.0	2,097.2	2,104.3	2,101.8	5.9	5.9	-156.83	23.7	11.5	34.0	22.4	11.63	2.926	
2,200.0	2,195.3	2,205.5	2,201.4	6.3	6.2	-156.82	30.5	28.0	36.5	24.3	12.20	2.990	
2,299.9	2,292.7	2,306.1	2,299.8	6.7	6.5	-157.23	37.0	47.4	39.2	26.5	12.73	3.082	
2,400.0	2,389.8	2,406.1	2,397.7	7.0	6.8	-156.85	43.4	67.2	43.2	29.9	13.33	3.243	
2,500.0	2,486.8	2,506.0	2,495.4	7.3	7.2	-156.53	49.8	86.9	47.2	33.3	13.96	3.383	
2,600.0	2,583.9	2,605.9	2,593.1	7.7	7.5	-156.26	56.3	106.7	51.2	36.6	14.61	3.505	
2,700.0	2,680.9	2,705.8	2,690.9	8.1	7.9	-156.03	62.7	126.4	55.2	39.9	15.29	3.611	
2,800.0	2,777.9	2,805.7	2,788.6	8.5	8.3	-155.83	69.1	146.2	59.2	43.2	15.99	3.703	
2,900.0	2,875.0	2,905.7	2,886.3	8.8	8.7	-155.65	75.5	166.0	63.2	46.5	16.70	3.784	
3,000.0	2,972.0	3,005.6	2,984.1	9.3	9.1	-155.50	81.9	185.7	67.2	49.8	17.43	3.855	
3,100.0	3,069.0	3,105.5	3,081.8	9.7	9.5	-155.36	88.3	205.5	71.2	53.0	18.17	3.917	
3,200.0	3,166.0	3,205.4	3,179.6	10.1	9.9	-155.24	94.8	225.2	75.2	56.3	18.93	3.972	
3,300.0	3,263.1	3,305.3	3,277.3	10.5	10.3	-155.13	101.2	245.0	79.2	59.5	19.69	4.021	
3,400.0	3,360.1	3,405.3	3,375.0	10.9	10.7	-155.03	107.6	264.7	83.2	62.7	20.47	4.064	
3,500.0	3,457.1	3,505.2	3,472.8	11.4	11.1	-154.94	114.0	284.5	87.2	65.9	21.25	4.103	
3,600.0	3,554.2	3,605.1	3,570.5	11.8	11.6	-154.86	120.4	304.3	91.2	69.1	22.04	4.137	
3,700.0	3,651.2	3,705.0	3,668.2	12.3	12.0	-154.78	126.9	324.0	95.2	72.3	22.84	4.168	
3,800.0	3,748.2	3,804.9	3,766.0	12.7	12.4	-154.71	133.3	343.8	99.2	75.5	23.64	4.196	
3,900.0	3,845.2	3,904.9	3,863.7	13.2	12.9	-154.65	139.7	363.5	103.2	78.7	24.44	4.221	
4,000.0	3,942.3	4,004.8	3,961.4	13.6	13.3	-154.59	146.1	383.3	107.2	81.9	25.25	4.244	
4,100.0	4,039.3	4,104.7	4,059.2	14.1	13.8	-154.54	152.5	403.1	111.2	85.1	26.07	4.265	
4,200.0	4,136.3	4,204.6	4,156.9	14.5	14.2	-154.49	159.0	422.8	115.2	88.3	26.89	4.283	
4,300.0	4,233.4	4,304.5	4,254.7	15.0	14.7	-154.44	165.4	442.6	119.2	91.5	27.71	4.301	
4,400.0	4,330.4	4,404.5	4,352.4	15.5	15.1	-154.39	171.8	462.3	123.2	94.6	28.54	4.316	
4,500.0	4,427.4	4,504.4	4,450.1	15.9	15.6	-154.35	178.2	482.1	127.2	97.8	29.37	4.331	
4,600.0	4,524.5	4,604.3	4,547.9	16.4	16.0	-154.31	184.6	501.8	131.2	101.0	30.20	4.344	
4,700.0	4,621.5	4,704.2	4,645.6	16.9	16.5	-154.28	191.1	521.6	135.2	104.1	31.03	4.356	
4,800.0	4,718.5	4,804.1	4,743.3	17.3	16.9	-154.24	197.5	541.4	139.2	107.3	31.87	4.367	
4,900.0	4,815.5	4,904.1	4,841.1	17.8	17.4	-154.21	203.9	561.1	143.2	110.5	32.71	4.378	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11396-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	4,912.6	5,004.0	4,938.8	18.3	17.9	-154.18	210.3	580.9	147.2	113.6	33.55	4.387	
5,100.0	5,009.6	5,103.9	5,036.6	18.7	18.3	-154.15	216.7	600.6	151.2	116.8	34.39	4.396	
5,200.0	5,106.6	5,203.8	5,134.3	19.2	18.8	-154.12	223.2	620.4	155.2	119.9	35.23	4.405	
5,300.0	5,203.7	5,303.7	5,232.0	19.7	19.2	-154.09	229.6	640.1	159.2	123.1	36.07	4.412	
5,400.0	5,300.7	5,403.7	5,329.8	20.2	19.7	-154.07	236.0	659.9	163.2	126.3	36.92	4.420	
5,500.0	5,397.7	5,503.6	5,427.5	20.6	20.2	-154.04	242.4	679.7	167.2	129.4	37.77	4.426	
5,600.0	5,494.7	5,603.5	5,525.2	21.1	20.6	-154.02	248.8	699.4	171.2	132.6	38.62	4.433	
5,700.0	5,591.8	5,703.4	5,623.0	21.6	21.1	-154.00	255.3	719.2	175.2	135.7	39.47	4.439	
5,800.0	5,688.8	5,803.3	5,720.7	22.1	21.5	-153.98	261.7	738.9	179.2	138.9	40.32	4.444	
5,900.0	5,785.8	5,903.3	5,818.4	22.6	22.0	-153.96	268.1	758.7	183.2	142.0	41.17	4.449	
6,000.0	5,882.9	6,000.0	5,913.3	23.0	22.4	-154.09	274.0	776.9	188.0	146.0	42.03	4.474	
6,100.0	5,979.9	6,093.3	6,005.2	23.5	22.9	-154.67	278.8	791.7	195.7	152.7	42.96	4.554	
6,200.0	6,076.9	6,187.0	6,098.1	24.0	23.3	-155.63	282.7	803.6	206.2	162.2	43.95	4.690	
6,300.0	6,174.0	6,279.9	6,190.5	24.5	23.7	-156.87	285.6	812.6	219.6	174.6	44.96	4.884	
6,400.0	6,271.0	6,371.8	6,282.2	25.0	24.0	-158.30	287.6	818.7	235.9	190.0	45.94	5.136	
6,500.0	6,368.0	6,462.7	6,373.0	25.4	24.3	-159.81	288.6	821.9	255.3	208.4	46.84	5.449	
6,600.0	6,465.0	6,554.7	6,465.0	25.9	24.5	-161.38	288.9	822.6	277.5	229.8	47.65	5.823	
6,700.0	6,562.1	6,651.7	6,562.0	26.4	24.5	-162.85	288.9	822.6	300.6	252.1	48.46	6.202	
6,800.0	6,659.1	6,748.7	6,659.0	26.9	24.5	-164.11	288.9	822.6	323.8	274.6	49.23	6.578	
6,821.5	6,680.0	6,769.6	6,679.9	27.0	24.5	-164.36	288.9	822.6	328.8	279.5	49.39	6.659	
6,900.0	6,756.4	6,846.0	6,756.3	27.4	24.6	-165.25	288.9	822.6	346.2	296.2	49.95	6.931	
7,000.0	6,854.4	6,944.0	6,854.3	27.9	24.6	-166.13	288.9	822.6	365.4	314.8	50.62	7.219	
7,100.0	6,953.0	7,042.7	6,953.0	28.3	24.6	-166.80	288.9	822.6	381.4	330.1	51.23	7.444	
7,200.0	7,052.2	7,141.8	7,052.1	28.8	24.7	-167.28	288.9	822.6	394.0	342.2	51.80	7.606	
7,300.0	7,151.7	7,241.4	7,151.7	29.2	24.7	-167.62	288.9	822.6	403.2	350.9	52.31	7.708	
7,400.0	7,251.6	7,341.2	7,251.5	29.5	24.7	-167.82	288.9	822.6	409.1	356.3	52.76	7.753	
7,500.0	7,351.5	7,441.1	7,351.4	29.8	24.8	-167.91	288.9	822.6	411.5	358.4	53.11	7.748	
7,521.5	7,373.1	7,462.7	7,373.0	29.8	24.8	-90.91	288.9	822.6	411.6	358.4	53.14	7.744	
7,600.0	7,451.5	7,541.1	7,451.4	29.9	24.8	-90.91	288.9	822.6	411.6	358.4	53.19	7.738	
7,700.0	7,551.5	7,641.1	7,551.4	29.9	24.9	-90.91	288.9	822.6	411.6	358.3	53.25	7.729	
7,800.0	7,651.5	7,741.1	7,651.4	29.9	24.9	-90.91	288.9	822.6	411.6	358.3	53.32	7.719	
7,900.0	7,751.5	7,841.1	7,751.4	30.0	24.9	-90.91	288.9	822.6	411.6	358.2	53.38	7.710	
8,000.0	7,851.5	7,941.1	7,851.4	30.0	25.0	-90.91	288.9	822.6	411.6	358.1	53.45	7.701	
8,100.0	7,951.5	8,041.1	7,951.4	30.0	25.0	-90.91	288.9	822.6	411.6	358.1	53.51	7.691	
8,200.0	8,051.5	8,141.1	8,051.4	30.0	25.0	-90.91	288.9	822.6	411.6	358.0	53.58	7.682	
8,300.0	8,151.5	8,241.1	8,151.4	30.1	25.1	-90.91	288.9	822.6	411.6	357.9	53.64	7.672	
8,400.0	8,251.5	8,341.1	8,251.4	30.1	25.1	-90.91	288.9	822.6	411.6	357.9	53.71	7.663	
8,500.0	8,351.5	8,441.1	8,351.4	30.1	25.2	-90.91	288.9	822.6	411.6	357.8	53.78	7.653	
8,600.0	8,451.5	8,541.1	8,451.4	30.2	25.2	-90.91	288.9	822.6	411.6	357.7	53.84	7.644	
8,700.0	8,551.5	8,641.1	8,551.4	30.2	25.2	-90.91	288.9	822.6	411.6	357.7	53.91	7.634	
8,800.0	8,651.5	8,741.1	8,651.4	30.2	25.3	-90.91	288.9	822.6	411.6	357.6	53.98	7.625	
8,900.0	8,751.5	8,841.1	8,751.4	30.3	25.3	-90.91	288.9	822.6	411.6	357.5	54.05	7.615	
9,000.0	8,851.5	8,941.1	8,851.4	30.3	25.3	-90.91	288.9	822.6	411.6	357.5	54.12	7.605	
9,100.0	8,951.5	9,041.1	8,951.4	30.3	25.4	-90.91	288.9	822.6	411.6	357.4	54.19	7.596	
9,200.0	9,051.5	9,141.1	9,051.4	30.4	25.4	-90.91	288.9	822.6	411.6	357.3	54.26	7.586	
9,300.0	9,151.5	9,241.1	9,151.4	30.4	25.5	-90.91	288.9	822.6	411.6	357.2	54.33	7.576	
9,400.0	9,251.5	9,341.1	9,251.4	30.4	25.5	-90.91	288.9	822.6	411.6	357.2	54.40	7.566	
9,500.0	9,351.5	9,441.1	9,351.4	30.5	25.5	-90.91	288.9	822.6	411.6	357.1	54.47	7.556	
9,600.0	9,451.5	9,541.1	9,451.4	30.5	25.6	-90.91	288.9	822.6	411.6	357.0	54.54	7.547	
9,700.0	9,551.5	9,641.1	9,551.4	30.5	25.6	-90.91	288.9	822.6	411.6	357.0	54.61	7.537	
9,800.0	9,651.5	9,741.1	9,651.4	30.6	25.7	-90.91	288.9	822.6	411.6	356.9	54.68	7.527	
9,900.0	9,751.5	9,841.1	9,751.4	30.6	25.7	-90.91	288.9	822.6	411.6	356.8	54.75	7.517	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11396-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
10,000.0	9,851.5	9,941.1	9,851.4	30.6	25.8	-90.91	288.9	822.6	411.6	356.7	54.83	7.507	
10,100.0	9,951.5	10,041.1	9,951.4	30.7	25.8	-90.91	288.9	822.6	411.6	356.7	54.90	7.497	
10,200.0	10,051.5	10,141.1	10,051.4	30.7	25.8	-90.91	288.9	822.6	411.6	356.6	54.97	7.487	
10,300.0	10,151.5	10,241.1	10,151.4	30.7	25.9	-90.91	288.9	822.6	411.6	356.5	55.05	7.477	
10,400.0	10,251.5	10,341.1	10,251.4	30.8	25.9	-90.91	288.9	822.6	411.6	356.5	55.12	7.467	
10,500.0	10,351.5	10,441.1	10,351.4	30.8	26.0	-90.91	288.9	822.6	411.6	356.4	55.19	7.457	
10,600.0	10,451.5	10,541.1	10,451.4	30.8	26.0	-90.91	288.9	822.6	411.6	356.3	55.27	7.447	
10,700.0	10,551.5	10,641.1	10,551.4	30.9	26.0	-90.91	288.9	822.6	411.6	356.2	55.34	7.437	
10,800.0	10,651.5	10,741.1	10,651.4	30.9	26.1	-90.91	288.9	822.6	411.6	356.2	55.42	7.426	
10,900.0	10,751.5	10,841.1	10,751.4	31.0	26.1	-90.91	288.9	822.6	411.6	356.1	55.50	7.416	
11,000.0	10,851.5	10,941.1	10,851.4	31.0	26.2	-90.91	288.9	822.6	411.6	356.0	55.57	7.406	
11,100.0	10,951.5	11,041.1	10,951.4	31.0	26.2	-90.91	288.9	822.6	411.6	355.9	55.65	7.396	
11,200.0	11,051.5	11,141.1	11,051.4	31.1	26.3	-90.91	288.9	822.6	411.6	355.8	55.73	7.386	
11,279.5	11,131.0	11,220.7	11,131.0	31.1	26.3	-90.91	288.9	822.6	411.6	355.8	55.78	7.379	
11,300.0	11,151.5	11,241.1	11,151.4	31.1	26.3	-90.80	288.9	822.6	411.6	355.8	55.80	7.376	
11,350.0	11,201.3	11,291.0	11,201.3	31.1	26.3	-91.35	288.9	822.6	411.7	355.7	55.92	7.362	
11,400.0	11,250.6	11,340.2	11,250.6	31.1	26.3	-92.45	288.9	822.6	411.9	355.8	56.13	7.339	
11,450.0	11,299.0	11,388.6	11,298.9	31.1	26.4	-94.07	288.9	822.6	412.7	356.3	56.42	7.315	
11,500.0	11,346.1	11,439.2	11,349.5	31.1	26.4	-96.05	290.5	822.6	414.1	357.3	56.78	7.293	
11,550.0	11,391.6	11,491.8	11,401.7	31.1	26.4	-98.04	296.9	822.6	416.0	358.9	57.15	7.280	
11,600.0	11,435.1	11,546.0	11,454.6	31.1	26.4	-99.98	308.5	822.5	418.4	360.9	57.50	7.277	
11,650.0	11,476.2	11,602.0	11,507.9	31.1	26.4	-101.86	325.6	822.5	421.3	363.4	57.84	7.283	
11,700.0	11,514.8	11,659.9	11,560.9	31.2	26.4	-103.67	348.7	822.4	424.5	366.3	58.17	7.297	
11,750.0	11,550.4	11,719.7	11,613.0	31.2	26.5	-105.38	378.0	822.3	427.9	369.4	58.47	7.317	
11,800.0	11,582.8	11,781.5	11,663.3	31.2	26.5	-106.97	413.9	822.2	431.3	372.6	58.75	7.342	
11,850.0	11,611.8	11,845.2	11,710.8	31.2	26.5	-108.43	456.3	822.1	434.8	375.8	58.99	7.370	
11,900.0	11,637.2	11,910.9	11,754.5	31.2	26.5	-109.72	505.3	822.0	438.1	378.9	59.19	7.401	
11,950.0	11,658.6	11,978.4	11,793.3	31.3	26.6	-110.83	560.4	821.8	441.0	381.7	59.33	7.433	
12,000.0	11,676.1	12,047.4	11,826.0	31.3	26.6	-111.74	621.2	821.7	443.5	384.1	59.41	7.465	
12,050.0	11,689.4	12,117.8	11,851.6	31.3	26.7	-112.42	686.7	821.5	445.4	386.0	59.41	7.498	
12,100.0	11,698.5	12,189.1	11,869.1	31.4	26.7	-112.86	755.8	821.3	446.7	387.4	59.33	7.530	
12,150.0	11,703.2	12,261.0	11,877.9	31.4	26.8	-113.05	827.1	821.1	447.3	388.1	59.16	7.561	
12,179.5	11,704.0	12,301.1	11,879.0	31.4	26.8	-113.04	867.1	821.0	447.3	388.2	59.06	7.573	
12,179.5	11,704.0	12,301.1	11,879.0	31.4	26.8	-113.04	867.2	821.0	447.3	388.2	59.06	7.573	
12,200.0	11,704.0	12,321.6	11,879.0	31.5	26.9	-113.04	887.7	820.9	447.3	388.1	59.12	7.566	
12,300.0	11,704.0	12,421.6	11,879.0	31.6	27.0	-113.04	987.7	820.7	447.3	387.8	59.43	7.526	
12,400.0	11,704.0	12,521.6	11,879.0	31.7	27.2	-113.04	1,087.7	820.4	447.3	387.5	59.78	7.482	
12,500.0	11,704.0	12,621.6	11,879.0	31.9	27.3	-113.04	1,187.7	820.1	447.3	387.1	60.16	7.434	
12,600.0	11,704.0	12,721.6	11,879.0	32.0	27.5	-113.04	1,287.7	819.8	447.3	386.7	60.59	7.382	
12,700.0	11,704.0	12,821.6	11,879.0	32.2	27.8	-113.04	1,387.7	819.6	447.3	386.2	61.04	7.327	
12,800.0	11,704.0	12,921.6	11,879.0	32.4	28.0	-113.04	1,487.7	819.3	447.3	385.7	61.53	7.269	
12,900.0	11,704.0	13,021.6	11,879.0	32.7	28.3	-113.04	1,587.7	819.0	447.3	385.2	62.06	7.208	
13,000.0	11,704.0	13,121.6	11,879.0	32.9	28.5	-113.04	1,687.7	818.7	447.3	384.7	62.61	7.144	
13,100.0	11,704.0	13,221.6	11,879.0	33.2	28.8	-113.04	1,787.7	818.5	447.3	384.1	63.20	7.077	
13,200.0	11,704.0	13,321.6	11,879.0	33.5	29.2	-113.04	1,887.7	818.2	447.3	383.5	63.82	7.009	
13,300.0	11,704.0	13,421.6	11,879.0	33.8	29.5	-113.04	1,987.7	817.9	447.3	382.8	64.47	6.938	
13,400.0	11,704.0	13,521.6	11,879.0	34.1	29.8	-113.04	2,087.7	817.6	447.3	382.2	65.15	6.866	
13,500.0	11,704.0	13,621.6	11,879.0	34.4	30.2	-113.04	2,187.7	817.4	447.3	381.5	65.85	6.793	
13,600.0	11,704.0	13,721.6	11,879.0	34.7	30.6	-113.04	2,287.7	817.1	447.3	380.7	66.58	6.718	
13,700.0	11,704.0	13,821.6	11,879.0	35.1	31.0	-113.04	2,387.7	816.8	447.3	380.0	67.34	6.642	
13,800.0	11,704.0	13,921.6	11,879.0	35.5	31.4	-113.04	2,487.7	816.5	447.3	379.2	68.13	6.566	
13,900.0	11,704.0	14,021.6	11,879.0	35.9	31.9	-113.04	2,587.7	816.3	447.3	378.4	68.94	6.489	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11396-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
14,000.0	11,704.0	14,121.6	11,879.0	36.2	32.3	-113.04	2,687.7	816.0	447.3	377.6	69.77	6.412	
14,100.0	11,704.0	14,221.6	11,879.0	36.7	32.8	-113.04	2,787.7	815.7	447.3	376.7	70.62	6.334	
14,200.0	11,704.0	14,321.6	11,879.0	37.1	33.2	-113.04	2,887.7	815.4	447.3	375.8	71.50	6.256	
14,300.0	11,704.0	14,421.6	11,879.0	37.5	33.7	-113.04	2,987.7	815.2	447.3	374.9	72.40	6.179	
14,400.0	11,704.0	14,521.6	11,879.0	38.0	34.2	-113.04	3,087.7	814.9	447.3	374.0	73.32	6.102	
14,500.0	11,704.0	14,621.6	11,879.0	38.4	34.7	-113.04	3,187.7	814.6	447.3	373.1	74.25	6.024	
14,600.0	11,704.0	14,721.6	11,879.0	38.9	35.2	-113.04	3,287.7	814.3	447.3	372.1	75.21	5.948	
14,700.0	11,704.0	14,821.6	11,879.0	39.4	35.7	-113.04	3,387.7	814.1	447.4	371.2	76.19	5.872	
14,800.0	11,704.0	14,921.6	11,879.0	39.8	36.3	-113.04	3,487.7	813.8	447.4	370.2	77.18	5.796	
14,900.0	11,704.0	15,021.6	11,879.0	40.3	36.8	-113.04	3,587.7	813.5	447.4	369.2	78.19	5.722	
15,000.0	11,704.0	15,121.6	11,879.0	40.8	37.4	-113.04	3,687.7	813.2	447.4	368.2	79.21	5.648	
15,100.0	11,704.0	15,221.6	11,879.0	41.4	37.9	-113.04	3,787.7	813.0	447.4	367.1	80.26	5.574	
15,200.0	11,704.0	15,321.6	11,879.0	41.9	38.5	-113.04	3,887.7	812.7	447.4	366.1	81.31	5.502	
15,300.0	11,704.0	15,421.6	11,879.0	42.4	39.1	-113.04	3,987.7	812.4	447.4	365.0	82.38	5.430	
15,400.0	11,704.0	15,521.6	11,879.0	42.9	39.7	-113.04	4,087.7	812.1	447.4	363.9	83.47	5.360	
15,500.0	11,704.0	15,621.6	11,879.0	43.5	40.2	-113.04	4,187.7	811.9	447.4	362.8	84.56	5.290	
15,600.0	11,704.0	15,721.6	11,879.0	44.0	40.8	-113.04	4,287.7	811.6	447.4	361.7	85.67	5.222	
15,700.0	11,704.0	15,821.6	11,879.0	44.6	41.4	-113.04	4,387.7	811.3	447.4	360.6	86.80	5.154	
15,800.0	11,704.0	15,921.6	11,879.0	45.2	42.0	-113.04	4,487.7	811.0	447.4	359.5	87.93	5.088	
15,900.0	11,704.0	16,021.6	11,879.0	45.7	42.6	-113.04	4,587.7	810.8	447.4	358.3	89.08	5.023	
16,000.0	11,704.0	16,121.6	11,879.0	46.3	43.3	-113.04	4,687.7	810.5	447.4	357.2	90.23	4.958	
16,100.0	11,704.0	16,221.6	11,879.0	46.9	43.9	-113.04	4,787.7	810.2	447.4	356.0	91.40	4.895	
16,200.0	11,704.0	16,321.6	11,879.0	47.5	44.5	-113.04	4,887.7	809.9	447.4	354.8	92.58	4.833	
16,300.0	11,704.0	16,421.6	11,879.0	48.1	45.1	-113.03	4,987.7	809.7	447.4	353.7	93.76	4.772	
16,400.0	11,704.0	16,521.6	11,879.0	48.6	45.8	-113.03	5,087.7	809.4	447.4	352.5	94.96	4.712	
16,500.0	11,704.0	16,621.6	11,879.0	49.2	46.4	-113.03	5,187.7	809.1	447.4	351.3	96.17	4.653	
16,600.0	11,704.0	16,721.6	11,879.0	49.9	47.0	-113.03	5,287.7	808.8	447.4	350.0	97.38	4.595	
16,700.0	11,704.0	16,821.6	11,879.0	50.5	47.7	-113.03	5,387.7	808.6	447.4	348.8	98.60	4.538	
16,800.0	11,704.0	16,921.6	11,879.0	51.1	48.3	-113.03	5,487.7	808.3	447.4	347.6	99.83	4.482	
16,900.0	11,704.0	17,021.6	11,879.0	51.7	49.0	-113.03	5,587.7	808.0	447.4	346.4	101.07	4.427	
17,000.0	11,704.0	17,121.6	11,879.0	52.3	49.6	-113.03	5,687.7	807.7	447.4	345.1	102.31	4.373	
17,100.0	11,704.0	17,221.6	11,879.0	52.9	50.3	-113.03	5,787.7	807.5	447.4	343.9	103.57	4.320	
17,200.0	11,704.0	17,321.6	11,879.0	53.6	51.0	-113.03	5,887.7	807.2	447.5	342.6	104.83	4.269	
17,300.0	11,704.0	17,421.6	11,879.0	54.2	51.6	-113.03	5,987.7	806.9	447.5	341.4	106.09	4.218	
17,400.0	11,704.0	17,521.6	11,879.0	54.8	52.3	-113.03	6,087.7	806.7	447.5	340.1	107.37	4.168	
17,500.0	11,704.0	17,621.6	11,879.0	55.5	52.9	-113.03	6,187.7	806.4	447.5	338.8	108.64	4.119	
17,600.0	11,704.0	17,721.6	11,879.0	56.1	53.6	-113.03	6,287.7	806.1	447.5	337.5	109.93	4.071	
17,700.0	11,704.0	17,821.6	11,879.0	56.8	54.3	-113.03	6,387.7	805.8	447.5	336.3	111.22	4.023	
17,800.0	11,704.0	17,921.6	11,879.0	57.4	55.0	-113.03	6,487.7	805.6	447.5	335.0	112.51	3.977	
17,900.0	11,704.0	18,021.6	11,879.0	58.1	55.6	-113.03	6,587.7	805.3	447.5	333.7	113.82	3.932	
18,000.0	11,704.0	18,121.6	11,879.0	58.7	56.3	-113.03	6,687.7	805.0	447.5	332.4	115.12	3.887	
18,100.0	11,704.0	18,221.6	11,879.0	59.4	57.0	-113.03	6,787.7	804.7	447.5	331.1	116.43	3.843	
18,200.0	11,704.0	18,321.6	11,879.0	60.0	57.7	-113.03	6,887.7	804.5	447.5	329.7	117.75	3.800	
18,300.0	11,704.0	18,421.6	11,879.0	60.7	58.4	-113.03	6,987.7	804.2	447.5	328.4	119.07	3.758	
18,400.0	11,704.0	18,521.6	11,879.0	61.3	59.1	-113.03	7,087.7	803.9	447.5	327.1	120.40	3.717	
18,500.0	11,704.0	18,621.6	11,879.0	62.0	59.8	-113.03	7,187.7	803.6	447.5	325.8	121.73	3.676	
18,600.0	11,704.0	18,721.6	11,879.0	62.7	60.5	-113.03	7,287.7	803.4	447.5	324.4	123.06	3.636	
18,700.0	11,704.0	18,821.6	11,879.0	63.4	61.1	-113.03	7,387.7	803.1	447.5	323.1	124.40	3.597	
18,800.0	11,704.0	18,921.6	11,879.0	64.0	61.8	-113.03	7,487.7	802.8	447.5	321.8	125.74	3.559	
18,900.0	11,704.0	19,021.6	11,879.0	64.7	62.5	-113.03	7,587.7	802.5	447.5	320.4	127.09	3.521	
19,000.0	11,704.0	19,121.6	11,879.0	65.4	63.2	-113.03	7,687.7	802.3	447.5	319.1	128.44	3.484	
19,100.0	11,704.0	19,221.6	11,879.0	66.1	63.9	-113.03	7,787.7	802.0	447.5	317.7	129.79	3.448	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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, 11396-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
19,200.0	11,704.0	19,321.6	11,879.0	66.7	64.6	-113.03	7,887.7	801.7	447.5	316.4	131.15	3.412	
19,300.0	11,704.0	19,421.6	11,879.0	67.4	65.3	-113.03	7,987.7	801.4	447.5	315.0	132.51	3.377	
19,400.0	11,704.0	19,521.6	11,879.0	68.1	66.0	-113.03	8,087.7	801.2	447.5	313.7	133.88	3.343	
19,500.0	11,704.0	19,621.6	11,879.0	68.8	66.8	-113.03	8,187.7	800.9	447.5	312.3	135.24	3.309	
19,600.0	11,704.0	19,721.6	11,879.0	69.5	67.5	-113.03	8,287.7	800.6	447.6	310.9	136.61	3.276	
19,700.0	11,704.0	19,821.6	11,879.0	70.2	68.2	-113.03	8,387.7	800.3	447.6	309.6	137.99	3.243	
19,800.0	11,704.0	19,921.6	11,879.0	70.8	68.9	-113.03	8,487.7	800.1	447.6	308.2	139.36	3.211	
19,900.0	11,704.0	20,021.6	11,879.0	71.5	69.6	-113.03	8,587.7	799.8	447.6	306.8	140.74	3.180	
20,000.0	11,704.0	20,121.6	11,879.0	72.2	70.3	-113.03	8,687.7	799.5	447.6	305.4	142.12	3.149	
20,100.0	11,704.0	20,221.6	11,879.0	72.9	71.0	-113.03	8,787.7	799.2	447.6	304.1	143.51	3.119	
20,200.0	11,704.0	20,321.6	11,879.0	73.6	71.7	-113.03	8,887.7	799.0	447.6	302.7	144.89	3.089	
20,300.0	11,704.0	20,421.6	11,879.0	74.3	72.4	-113.03	8,987.7	798.7	447.6	301.3	146.28	3.060	
20,400.0	11,704.0	20,521.6	11,879.0	75.0	73.2	-113.03	9,087.7	798.4	447.6	299.9	147.67	3.031	
20,500.0	11,704.0	20,621.6	11,879.0	75.7	73.9	-113.03	9,187.7	798.1	447.6	298.5	149.07	3.003	
20,600.0	11,704.0	20,721.6	11,879.0	76.4	74.6	-113.03	9,287.7	797.9	447.6	297.1	150.47	2.975	
20,700.0	11,704.0	20,821.6	11,879.0	77.1	75.3	-113.03	9,387.7	797.6	447.6	295.7	151.86	2.947	
20,800.0	11,704.0	20,921.6	11,879.0	77.8	76.0	-113.02	9,487.7	797.3	447.6	294.3	153.27	2.920	
20,900.0	11,704.0	21,021.6	11,879.0	78.5	76.7	-113.02	9,587.7	797.0	447.6	292.9	154.67	2.894	
21,000.0	11,704.0	21,121.6	11,879.0	79.2	77.5	-113.02	9,687.7	796.8	447.6	291.5	156.07	2.868	
21,100.0	11,704.0	21,221.6	11,879.0	79.9	78.2	-113.02	9,787.7	796.5	447.6	290.1	157.48	2.842	
21,200.0	11,704.0	21,321.6	11,879.0	80.6	78.9	-113.02	9,887.7	796.2	447.6	288.7	158.89	2.817	
21,300.0	11,704.0	21,421.6	11,879.0	81.3	79.6	-113.02	9,987.7	795.9	447.6	287.3	160.30	2.792	
21,400.0	11,704.0	21,521.6	11,879.0	82.1	80.4	-113.02	10,087.7	795.7	447.6	285.9	161.71	2.768	
21,500.0	11,704.0	21,621.6	11,879.0	82.8	81.1	-113.02	10,187.7	795.4	447.6	284.5	163.13	2.744	
21,600.0	11,704.0	21,721.6	11,879.0	83.5	81.8	-113.02	10,287.7	795.1	447.6	283.1	164.55	2.720	
21,700.0	11,704.0	21,821.6	11,879.0	84.2	82.5	-113.02	10,387.7	794.8	447.6	281.7	165.96	2.697	
21,800.0	11,704.0	21,921.6	11,879.0	84.9	83.3	-113.02	10,487.7	794.6	447.6	280.3	167.38	2.674	
21,900.0	11,704.0	22,021.6	11,879.0	85.6	84.0	-113.02	10,587.7	794.3	447.6	278.8	168.80	2.652	
22,000.0	11,704.0	22,121.6	11,879.0	86.3	84.7	-113.02	10,687.7	794.0	447.6	277.4	170.23	2.630	
22,022.2	11,704.0	22,143.8	11,879.0	86.5	84.9	-113.02	10,709.9	793.9	447.6	277.1	170.54	2.625	
22,026.9	11,704.0	22,148.6	11,879.0	86.5	84.9	-113.02	10,714.6	793.9	447.6	277.0	170.61	2.624	
22,072.2	11,704.0	22,192.9	11,879.0	86.8	85.2	-113.02	10,759.0	793.8	447.7	276.4	171.23	2.614 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	90.32	-0.2	30.0	30.0				
100.0	100.0	100.0	100.0	3.0	3.0	90.32	-0.2	30.0	30.0	23.5	6.52	4.596	
200.0	200.0	200.0	200.0	3.2	3.2	90.32	-0.2	30.0	30.0	23.2	6.76	4.433	
300.0	300.0	300.0	300.0	3.3	3.3	90.32	-0.2	30.0	30.0	23.0	6.99	4.287	
400.0	400.0	400.0	400.0	3.4	3.4	90.32	-0.2	30.0	30.0	22.8	7.21	4.154	
500.0	500.0	500.0	500.0	3.5	3.5	90.32	-0.2	30.0	30.0	22.5	7.43	4.033	
600.0	600.0	600.0	600.0	3.7	3.7	90.32	-0.2	30.0	30.0	22.3	7.64	3.923	
700.0	700.0	700.0	700.0	3.8	3.8	90.32	-0.2	30.0	30.0	22.1	7.84	3.821	
800.0	800.0	800.0	800.0	3.9	3.9	90.32	-0.2	30.0	30.0	21.9	8.04	3.727	
900.0	900.0	900.0	900.0	4.0	4.0	90.32	-0.2	30.0	30.0	21.7	8.23	3.640	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	90.32	-0.2	30.0	30.0	21.5	8.42	3.558	CC, ES
1,100.0	1,100.0	1,098.9	1,098.9	4.3	4.3	89.82	0.1	31.7	31.7	23.0	8.72	3.633	
1,200.0	1,200.0	1,197.6	1,197.5	4.4	4.5	88.60	0.9	36.7	36.8	27.8	9.01	4.086	
1,300.0	1,300.0	1,295.9	1,295.3	4.5	4.7	87.18	2.2	45.0	45.3	36.1	9.29	4.882	
1,400.0	1,400.0	1,393.4	1,392.2	4.6	4.9	85.91	4.0	56.6	57.3	47.7	9.56	5.991	
1,500.0	1,500.0	1,490.0	1,487.6	4.8	5.1	84.89	6.4	71.3	72.6	62.8	9.83	7.386	
1,600.0	1,600.0	1,585.8	1,581.7	4.9	5.3	24.34	9.2	88.9	90.1	80.0	10.10	8.918	
1,700.0	1,699.9	1,680.8	1,674.4	5.0	5.5	24.39	12.4	109.5	108.5	98.0	10.49	10.337	
1,800.0	1,799.7	1,776.2	1,766.7	5.2	5.7	24.78	16.2	133.1	127.6	116.8	10.82	11.796	
1,833.3	1,832.9	1,808.9	1,798.4	5.2	5.7	24.99	17.5	141.4	133.8	122.9	10.91	12.267	
1,900.0	1,899.3	1,874.6	1,861.8	5.3	5.9	20.11	20.1	158.2	145.1	133.9	11.18	12.976	
2,000.0	1,998.5	1,973.6	1,957.4	5.6	6.1	15.77	24.2	183.5	159.2	147.5	11.75	13.546	
2,100.0	2,097.2	2,073.0	2,053.4	5.9	6.4	13.23	28.2	209.0	169.9	157.5	12.38	13.720	
2,200.0	2,195.3	2,172.7	2,149.8	6.3	6.7	11.65	32.2	234.4	177.1	164.0	13.06	13.558	
2,299.9	2,292.7	2,272.5	2,246.2	6.7	7.1	10.63	36.3	260.0	180.8	167.0	13.78	13.117	
2,400.0	2,389.8	2,372.6	2,342.8	7.0	7.4	11.09	40.3	285.5	182.8	168.3	14.48	12.627	
2,500.0	2,486.8	2,472.6	2,439.4	7.3	7.8	11.54	44.4	311.1	184.8	169.6	15.20	12.157	
2,600.0	2,583.9	2,572.5	2,536.0	7.7	8.2	11.98	48.4	336.7	186.8	170.9	15.95	11.710	
2,700.0	2,680.9	2,672.5	2,632.5	8.1	8.6	12.41	52.5	362.2	188.8	172.1	16.73	11.289	
2,800.0	2,777.9	2,772.5	2,729.1	8.5	9.0	12.83	56.5	387.8	190.9	173.4	17.52	10.894	
2,900.0	2,875.0	2,872.5	2,825.7	8.8	9.4	13.24	60.5	413.3	192.9	174.6	18.33	10.524	
3,000.0	2,972.0	2,972.4	2,922.2	9.3	9.8	13.65	64.6	438.9	195.0	175.8	19.16	10.179	
3,100.0	3,069.0	3,072.4	3,018.8	9.7	10.2	14.04	68.6	464.4	197.1	177.1	19.99	9.857	
3,200.0	3,166.0	3,172.4	3,115.4	10.1	10.7	14.43	72.7	490.0	199.1	178.3	20.84	9.557	
3,300.0	3,263.1	3,272.3	3,211.9	10.5	11.1	14.81	76.7	515.5	201.2	179.5	21.69	9.277	
3,400.0	3,360.1	3,372.3	3,308.5	10.9	11.6	15.18	80.8	541.1	203.3	180.8	22.55	9.015	
3,500.0	3,457.1	3,472.3	3,405.0	11.4	12.0	15.54	84.8	566.7	205.4	182.0	23.42	8.771	
3,600.0	3,554.2	3,572.2	3,501.6	11.8	12.5	15.90	88.9	592.2	207.5	183.2	24.29	8.543	
3,700.0	3,651.2	3,672.2	3,598.2	12.3	12.9	16.24	92.9	617.8	209.6	184.5	25.17	8.330	
3,800.0	3,748.2	3,772.2	3,694.7	12.7	13.4	16.59	97.0	643.3	211.8	185.7	26.05	8.130	
3,900.0	3,845.2	3,872.1	3,791.3	13.2	13.8	16.92	101.0	668.9	213.9	187.0	26.93	7.942	
4,000.0	3,942.3	3,972.1	3,887.9	13.6	14.3	17.25	105.1	694.4	216.0	188.2	27.82	7.766	
4,100.0	4,039.3	4,072.1	3,984.4	14.1	14.8	17.57	109.1	720.0	218.2	189.5	28.71	7.601	
4,200.0	4,136.3	4,172.1	4,081.0	14.5	15.2	17.89	113.2	745.5	220.3	190.7	29.59	7.445	
4,300.0	4,233.4	4,272.0	4,177.5	15.0	15.7	18.19	117.2	771.1	222.5	192.0	30.49	7.299	
4,400.0	4,330.4	4,372.0	4,274.1	15.5	16.2	18.50	121.3	796.7	224.7	193.3	31.38	7.160	
4,500.0	4,427.4	4,472.0	4,370.7	15.9	16.6	18.80	125.3	822.2	226.8	194.6	32.27	7.029	
4,600.0	4,524.5	4,571.9	4,467.2	16.4	17.1	19.09	129.4	847.8	229.0	195.9	33.16	6.906	
4,700.0	4,621.5	4,671.9	4,563.8	16.9	17.6	19.37	133.4	873.3	231.2	197.1	34.06	6.789	
4,800.0	4,718.5	4,771.9	4,660.4	17.3	18.1	19.65	137.5	898.9	233.4	198.4	34.95	6.678	
4,900.0	4,815.5	4,871.8	4,756.9	17.8	18.5	19.93	141.5	924.4	235.6	199.7	35.84	6.572	
5,000.0	4,912.6	4,971.8	4,853.5	18.3	19.0	20.20	145.5	950.0	237.8	201.1	36.74	6.473	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
5,100.0	5,009.6	5,071.8	4,950.1	18.7	19.5	20.47	149.6	975.5	240.0	202.4	37.63	6.377	
5,200.0	5,106.6	5,171.7	5,046.6	19.2	20.0	20.73	153.6	1,001.1	242.2	203.7	38.53	6.287	
5,300.0	5,203.7	5,271.7	5,143.2	19.7	20.5	20.98	157.7	1,026.6	244.4	205.0	39.42	6.201	
5,400.0	5,300.7	5,371.7	5,239.7	20.2	20.9	21.23	161.7	1,052.2	246.6	206.3	40.31	6.119	
5,500.0	5,397.7	5,471.7	5,336.3	20.6	21.4	21.48	165.8	1,077.8	248.9	207.7	41.20	6.040	
5,600.0	5,494.7	5,571.6	5,432.9	21.1	21.9	21.72	169.8	1,103.3	251.1	209.0	42.09	5.965	
5,700.0	5,591.8	5,671.6	5,529.4	21.6	22.4	21.96	173.9	1,128.9	253.3	210.4	42.98	5.894	
5,800.0	5,688.8	5,771.6	5,626.0	22.1	22.9	22.20	177.9	1,154.4	255.6	211.7	43.87	5.825	
5,900.0	5,785.8	5,871.5	5,722.6	22.6	23.4	22.43	182.0	1,180.0	257.8	213.1	44.76	5.760	
6,000.0	5,882.9	5,971.5	5,819.1	23.0	23.9	22.65	186.0	1,205.5	260.1	214.4	45.65	5.697	
6,100.0	5,979.9	6,071.5	5,915.7	23.5	24.3	22.88	190.1	1,231.1	262.3	215.8	46.54	5.637	
6,200.0	6,076.9	6,171.4	6,012.2	24.0	24.8	23.09	194.1	1,256.6	264.6	217.2	47.43	5.579	
6,300.0	6,174.0	6,271.4	6,108.8	24.5	25.3	23.31	198.2	1,282.2	266.8	218.5	48.31	5.523	
6,400.0	6,271.0	6,371.4	6,205.4	25.0	25.8	23.52	202.2	1,307.8	269.1	219.9	49.20	5.470	
6,500.0	6,368.0	6,471.4	6,301.9	25.4	26.3	23.73	206.3	1,333.3	271.4	221.3	50.08	5.419	
6,600.0	6,465.0	6,571.3	6,398.5	25.9	26.8	23.93	210.3	1,358.9	273.6	222.7	50.96	5.369	
6,700.0	6,562.1	6,671.3	6,495.1	26.4	27.3	24.13	214.4	1,384.4	275.9	224.1	51.85	5.322	
6,800.0	6,659.1	6,771.3	6,591.6	26.9	27.8	24.33	218.4	1,410.0	278.2	225.5	52.73	5.276	
6,821.5	6,680.0	6,792.8	6,612.4	27.0	27.9	24.37	219.3	1,415.5	278.7	225.8	52.91	5.267	
6,900.0	6,756.4	6,871.2	6,688.2	27.4	28.3	24.46	222.4	1,435.5	281.4	227.8	53.62	5.249	
7,000.0	6,854.4	6,971.0	6,784.6	27.9	28.8	24.33	226.5	1,461.0	287.8	233.2	54.59	5.272	
7,100.0	6,953.0	7,070.5	6,880.7	28.3	29.2	23.96	230.5	1,486.5	297.3	241.7	55.60	5.348	
7,200.0	7,052.2	7,169.6	6,976.4	28.8	29.7	23.38	234.5	1,511.8	310.1	253.4	56.65	5.474	
7,300.0	7,151.7	7,277.2	7,080.6	29.2	30.3	22.62	238.7	1,538.2	325.0	267.3	57.77	5.626	
7,400.0	7,251.6	7,388.2	7,189.1	29.5	30.8	21.88	242.4	1,561.4	339.7	280.9	58.77	5.780	
7,500.0	7,351.5	7,500.0	7,299.2	29.8	31.4	21.18	245.4	1,580.6	354.0	294.4	59.59	5.940	
7,521.5	7,373.1	7,524.2	7,323.1	29.8	31.5	98.03	246.0	1,584.1	357.0	297.3	59.72	5.978	
7,600.0	7,451.5	7,612.7	7,410.9	29.9	31.8	97.50	247.8	1,595.6	366.8	306.8	60.07	6.107	
7,700.0	7,551.5	7,726.4	7,524.1	29.9	32.3	97.03	249.5	1,606.3	376.0	315.7	60.37	6.229	
7,800.0	7,651.5	7,840.8	7,638.3	29.9	32.7	96.76	250.5	1,612.6	381.4	320.9	60.49	6.306	
7,900.0	7,751.5	7,954.1	7,751.5	30.0	33.0	96.69	250.8	1,614.5	383.0	322.6	60.38	6.343	
8,000.0	7,851.5	8,054.1	7,851.5	30.0	33.0	96.69	250.8	1,614.5	383.0	322.5	60.42	6.338	
8,100.0	7,951.5	8,154.1	7,951.5	30.0	33.0	96.69	250.8	1,614.5	383.0	322.5	60.48	6.332	
8,200.0	8,051.5	8,254.1	8,051.5	30.0	33.0	96.69	250.8	1,614.5	383.0	322.4	60.53	6.327	
8,300.0	8,151.5	8,354.1	8,151.5	30.1	33.1	96.69	250.8	1,614.5	383.0	322.4	60.58	6.321	
8,400.0	8,251.5	8,454.1	8,251.5	30.1	33.1	96.69	250.8	1,614.5	383.0	322.3	60.64	6.316	
8,500.0	8,351.5	8,554.1	8,351.5	30.1	33.1	96.69	250.8	1,614.5	383.0	322.3	60.69	6.310	
8,600.0	8,451.5	8,654.1	8,451.5	30.2	33.1	96.69	250.8	1,614.5	383.0	322.2	60.75	6.304	
8,700.0	8,551.5	8,754.1	8,551.5	30.2	33.2	96.69	250.8	1,614.5	383.0	322.2	60.80	6.299	
8,800.0	8,651.5	8,854.1	8,651.5	30.2	33.2	96.69	250.8	1,614.5	383.0	322.1	60.86	6.293	
8,900.0	8,751.5	8,954.1	8,751.5	30.3	33.2	96.69	250.8	1,614.5	383.0	322.1	60.91	6.287	
9,000.0	8,851.5	9,054.1	8,851.5	30.3	33.2	96.69	250.8	1,614.5	383.0	322.0	60.97	6.281	
9,100.0	8,951.5	9,154.1	8,951.5	30.3	33.3	96.69	250.8	1,614.5	383.0	321.9	61.03	6.276	
9,200.0	9,051.5	9,254.1	9,051.5	30.4	33.3	96.69	250.8	1,614.5	383.0	321.9	61.08	6.270	
9,300.0	9,151.5	9,354.1	9,151.5	30.4	33.3	96.69	250.8	1,614.5	383.0	321.8	61.14	6.264	
9,400.0	9,251.5	9,454.1	9,251.5	30.4	33.3	96.69	250.8	1,614.5	383.0	321.8	61.20	6.258	
9,500.0	9,351.5	9,554.1	9,351.5	30.5	33.4	96.69	250.8	1,614.5	383.0	321.7	61.26	6.252	
9,600.0	9,451.5	9,654.1	9,451.5	30.5	33.4	96.69	250.8	1,614.5	383.0	321.7	61.31	6.246	
9,700.0	9,551.5	9,754.1	9,551.5	30.5	33.4	96.69	250.8	1,614.5	383.0	321.6	61.37	6.240	
9,800.0	9,651.5	9,854.1	9,651.5	30.6	33.4	96.69	250.8	1,614.5	383.0	321.5	61.43	6.234	
9,900.0	9,751.5	9,954.1	9,751.5	30.6	33.5	96.69	250.8	1,614.5	383.0	321.5	61.49	6.228	
10,000.0	9,851.5	10,054.1	9,851.5	30.6	33.5	96.69	250.8	1,614.5	383.0	321.4	61.55	6.222	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
10,100.0	9,951.5	10,154.1	9,951.5	30.7	33.5	96.69	250.8	1,614.5	383.0	321.4	61.61	6.216	
10,200.0	10,051.5	10,254.1	10,051.5	30.7	33.6	96.69	250.8	1,614.5	383.0	321.3	61.67	6.210	
10,300.0	10,151.5	10,354.1	10,151.5	30.7	33.6	96.69	250.8	1,614.5	383.0	321.2	61.73	6.204	
10,400.0	10,251.5	10,454.1	10,251.5	30.8	33.6	96.69	250.8	1,614.5	383.0	321.2	61.79	6.197	
10,500.0	10,351.5	10,554.1	10,351.5	30.8	33.6	96.69	250.8	1,614.5	383.0	321.1	61.86	6.191	
10,600.0	10,451.5	10,654.1	10,451.5	30.8	33.7	96.69	250.8	1,614.5	383.0	321.0	61.92	6.185	
10,700.0	10,551.5	10,754.1	10,551.5	30.9	33.7	96.69	250.8	1,614.5	383.0	321.0	61.98	6.179	
10,800.0	10,651.5	10,854.1	10,651.5	30.9	33.7	96.69	250.8	1,614.5	383.0	320.9	62.04	6.173	
10,900.0	10,751.5	10,954.1	10,751.5	31.0	33.8	96.69	250.8	1,614.5	383.0	320.9	62.11	6.166	
11,000.0	10,851.5	11,054.1	10,851.5	31.0	33.8	96.69	250.8	1,614.5	383.0	320.8	62.17	6.160	
11,100.0	10,951.5	11,154.1	10,951.5	31.0	33.8	96.69	250.8	1,614.5	383.0	320.7	62.23	6.154	
11,200.0	11,051.5	11,254.1	11,051.5	31.1	33.8	96.69	250.8	1,614.5	383.0	320.7	62.30	6.147	
11,279.5	11,131.0	11,333.6	11,131.0	31.1	33.9	96.69	250.8	1,614.5	383.0	320.6	62.34	6.143	
11,300.0	11,151.5	11,354.1	11,151.5	31.1	33.9	96.89	250.8	1,614.5	383.0	320.7	62.34	6.144	
11,350.0	11,201.3	11,403.9	11,201.3	31.1	33.9	97.43	250.8	1,614.5	383.5	321.3	62.23	6.163	
11,400.0	11,250.6	11,453.2	11,250.6	31.1	33.9	98.52	250.8	1,614.5	384.7	322.7	61.97	6.208	
11,450.0	11,299.0	11,501.6	11,299.0	31.1	33.9	100.09	250.8	1,614.5	386.8	325.2	61.53	6.286	
11,500.0	11,346.1	11,554.1	11,351.5	31.1	33.9	102.09	252.6	1,614.5	389.9	329.1	60.83	6.410	
11,550.0	11,391.6	11,609.2	11,406.1	31.1	33.9	104.04	259.6	1,614.9	393.7	333.7	60.03	6.558	
11,600.0	11,435.1	11,666.0	11,461.5	31.1	33.9	105.89	272.3	1,615.4	398.1	338.9	59.22	6.722	
11,650.0	11,476.2	11,724.8	11,517.1	31.1	33.9	107.60	291.0	1,616.2	402.9	344.5	58.44	6.895	
11,700.0	11,514.8	11,785.6	11,572.3	31.2	34.0	109.17	316.4	1,617.3	408.0	350.3	57.73	7.068	
11,750.0	11,550.4	11,848.3	11,626.2	31.2	34.0	110.57	348.5	1,618.7	413.3	356.2	57.13	7.234	
11,800.0	11,582.8	11,913.1	11,677.8	31.2	34.0	111.78	387.6	1,620.4	418.6	361.9	56.69	7.384	
11,850.0	11,611.8	11,979.8	11,725.9	31.2	34.0	112.78	433.7	1,622.5	423.7	367.3	56.41	7.511	
11,900.0	11,637.2	12,048.2	11,769.3	31.2	34.0	113.54	486.4	1,624.8	428.5	372.1	56.31	7.609	
11,950.0	11,658.6	12,118.1	11,806.9	31.3	34.1	114.06	545.3	1,627.3	432.8	376.4	56.40	7.673	
12,000.0	11,676.1	12,189.2	11,837.5	31.3	34.1	114.31	609.3	1,630.1	436.5	379.8	56.66	7.704	
12,050.0	11,689.4	12,261.1	11,860.1	31.3	34.1	114.30	677.5	1,633.1	439.5	382.5	57.07	7.702	
12,100.0	11,698.5	12,333.4	11,874.1	31.4	34.2	114.02	748.3	1,636.2	441.9	384.3	57.61	7.671	
12,150.0	11,703.2	12,405.6	11,879.0	31.4	34.3	113.47	820.1	1,639.3	443.4	385.2	58.25	7.613	
12,179.5	11,704.0	12,440.5	11,879.0	31.4	34.3	113.21	855.1	1,640.7	444.3	385.8	58.48	7.597	
12,200.0	11,704.0	12,464.4	11,879.0	31.5	34.3	113.18	878.9	1,641.4	444.8	386.2	58.61	7.589	
12,300.0	11,704.0	12,575.3	11,879.0	31.6	34.5	113.12	989.8	1,642.1	445.7	386.5	59.12	7.538	
12,400.0	11,704.0	12,675.3	11,879.0	31.7	34.6	113.12	1,089.8	1,641.8	445.7	386.2	59.48	7.494	
12,500.0	11,704.0	12,775.3	11,879.0	31.9	34.8	113.12	1,189.8	1,641.6	445.7	385.8	59.86	7.445	
12,600.0	11,704.0	12,875.3	11,879.0	32.0	34.9	113.12	1,289.8	1,641.3	445.7	385.4	60.29	7.393	
12,700.0	11,704.0	12,975.3	11,879.0	32.2	35.1	113.12	1,389.8	1,641.1	445.7	385.0	60.75	7.338	
12,800.0	11,704.0	13,075.3	11,879.0	32.4	35.3	113.12	1,489.8	1,640.9	445.8	384.5	61.24	7.279	
12,900.0	11,704.0	13,175.3	11,879.0	32.7	35.6	113.12	1,589.8	1,640.6	445.8	384.0	61.77	7.217	
13,000.0	11,704.0	13,275.3	11,879.0	32.9	35.8	113.12	1,689.8	1,640.4	445.8	383.5	62.33	7.153	
13,100.0	11,704.0	13,375.3	11,879.0	33.2	36.1	113.11	1,789.8	1,640.1	445.8	382.9	62.92	7.086	
13,200.0	11,704.0	13,475.3	11,879.0	33.5	36.3	113.11	1,889.8	1,639.9	445.8	382.3	63.54	7.017	
13,300.0	11,704.0	13,575.3	11,879.0	33.8	36.6	113.11	1,989.8	1,639.6	445.9	381.7	64.19	6.946	
13,400.0	11,704.0	13,675.3	11,879.0	34.1	36.9	113.11	2,089.8	1,639.4	445.9	381.0	64.87	6.873	
13,500.0	11,704.0	13,775.3	11,879.0	34.4	37.2	113.11	2,189.8	1,639.1	445.9	380.3	65.58	6.799	
13,600.0	11,704.0	13,875.3	11,879.0	34.7	37.6	113.11	2,289.8	1,638.9	445.9	379.6	66.32	6.724	
13,700.0	11,704.0	13,975.3	11,879.0	35.1	37.9	113.11	2,389.8	1,638.6	446.0	378.9	67.08	6.648	
13,800.0	11,704.0	14,075.3	11,879.0	35.5	38.3	113.11	2,489.8	1,638.4	446.0	378.1	67.87	6.571	
13,900.0	11,704.0	14,175.3	11,879.0	35.9	38.6	113.11	2,589.8	1,638.1	446.0	377.3	68.68	6.494	
14,000.0	11,704.0	14,275.3	11,879.0	36.2	39.0	113.10	2,689.8	1,637.9	446.0	376.5	69.51	6.416	
14,100.0	11,704.0	14,375.3	11,879.0	36.7	39.4	113.10	2,789.8	1,637.6	446.0	375.7	70.37	6.338	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
14,200.0	11,704.0	14,475.3	11,879.0	37.1	39.8	113.10	2,889.8	1,637.4	446.1	374.8	71.25	6.260	
14,300.0	11,704.0	14,575.3	11,879.0	37.5	40.2	113.10	2,989.8	1,637.1	446.1	373.9	72.15	6.183	
14,400.0	11,704.0	14,675.3	11,879.0	38.0	40.7	113.10	3,089.8	1,636.9	446.1	373.0	73.07	6.105	
14,500.0	11,704.0	14,775.3	11,879.0	38.4	41.1	113.10	3,189.8	1,636.6	446.1	372.1	74.01	6.028	
14,600.0	11,704.0	14,875.3	11,879.0	38.9	41.5	113.10	3,289.8	1,636.4	446.1	371.2	74.97	5.951	
14,700.0	11,704.0	14,975.3	11,879.0	39.4	42.0	113.10	3,389.8	1,636.1	446.2	370.2	75.95	5.874	
14,800.0	11,704.0	15,075.3	11,879.0	39.8	42.5	113.10	3,489.8	1,635.9	446.2	369.2	76.94	5.799	
14,900.0	11,704.0	15,175.3	11,879.0	40.3	42.9	113.09	3,589.8	1,635.6	446.2	368.2	77.95	5.724	
15,000.0	11,704.0	15,275.3	11,879.0	40.8	43.4	113.09	3,689.8	1,635.4	446.2	367.2	78.98	5.650	
15,100.0	11,704.0	15,375.3	11,879.0	41.4	43.9	113.09	3,789.8	1,635.1	446.2	366.2	80.02	5.576	
15,200.0	11,704.0	15,475.3	11,879.0	41.9	44.4	113.09	3,889.8	1,634.9	446.3	365.2	81.08	5.504	
15,300.0	11,704.0	15,575.3	11,879.0	42.4	44.9	113.09	3,989.8	1,634.6	446.3	364.1	82.15	5.432	
15,400.0	11,704.0	15,675.3	11,879.0	42.9	45.4	113.09	4,089.8	1,634.4	446.3	363.1	83.24	5.362	
15,500.0	11,704.0	15,775.3	11,879.0	43.5	45.9	113.09	4,189.8	1,634.1	446.3	362.0	84.34	5.292	
15,600.0	11,704.0	15,875.3	11,879.0	44.0	46.5	113.09	4,289.8	1,633.9	446.3	360.9	85.45	5.223	
15,700.0	11,704.0	15,975.3	11,879.0	44.6	47.0	113.09	4,389.8	1,633.6	446.4	359.8	86.57	5.156	
15,800.0	11,704.0	16,075.3	11,879.0	45.2	47.5	113.08	4,489.8	1,633.4	446.4	358.7	87.71	5.089	
15,900.0	11,704.0	16,175.3	11,879.0	45.7	48.1	113.08	4,589.8	1,633.2	446.4	357.5	88.86	5.024	
16,000.0	11,704.0	16,275.3	11,879.0	46.3	48.6	113.08	4,689.8	1,632.9	446.4	356.4	90.01	4.959	
16,100.0	11,704.0	16,375.3	11,879.0	46.9	49.2	113.08	4,789.8	1,632.7	446.4	355.3	91.18	4.896	
16,200.0	11,704.0	16,475.3	11,879.0	47.5	49.8	113.08	4,889.8	1,632.4	446.5	354.1	92.36	4.834	
16,300.0	11,704.0	16,575.3	11,879.0	48.1	50.3	113.08	4,989.8	1,632.2	446.5	352.9	93.55	4.773	
16,400.0	11,704.0	16,675.3	11,879.0	48.6	50.9	113.08	5,089.8	1,631.9	446.5	351.8	94.74	4.713	
16,500.0	11,704.0	16,775.3	11,879.0	49.2	51.5	113.08	5,189.8	1,631.7	446.5	350.6	95.95	4.654	
16,600.0	11,704.0	16,875.3	11,879.0	49.9	52.1	113.08	5,289.8	1,631.4	446.5	349.4	97.16	4.596	
16,700.0	11,704.0	16,975.3	11,879.0	50.5	52.7	113.07	5,389.8	1,631.2	446.6	348.2	98.39	4.539	
16,800.0	11,704.0	17,075.3	11,879.0	51.1	53.2	113.07	5,489.8	1,630.9	446.6	347.0	99.62	4.483	
16,900.0	11,704.0	17,175.3	11,879.0	51.7	53.8	113.07	5,589.8	1,630.7	446.6	345.7	100.85	4.428	
17,000.0	11,704.0	17,275.3	11,879.0	52.3	54.4	113.07	5,689.8	1,630.4	446.6	344.5	102.10	4.374	
17,100.0	11,704.0	17,375.3	11,879.0	52.9	55.0	113.07	5,789.8	1,630.2	446.6	343.3	103.35	4.321	
17,200.0	11,704.0	17,475.3	11,879.0	53.6	55.7	113.07	5,889.8	1,629.9	446.7	342.0	104.61	4.270	
17,300.0	11,704.0	17,575.3	11,879.0	54.2	56.3	113.07	5,989.8	1,629.7	446.7	340.8	105.88	4.219	
17,400.0	11,704.0	17,675.3	11,879.0	54.8	56.9	113.07	6,089.8	1,629.4	446.7	339.5	107.15	4.169	
17,500.0	11,704.0	17,775.3	11,879.0	55.5	57.5	113.07	6,189.8	1,629.2	446.7	338.3	108.43	4.120	
17,600.0	11,704.0	17,875.3	11,879.0	56.1	58.1	113.06	6,289.8	1,628.9	446.7	337.0	109.71	4.072	
17,700.0	11,704.0	17,975.3	11,879.0	56.8	58.7	113.06	6,389.8	1,628.7	446.8	335.8	111.01	4.025	
17,800.0	11,704.0	18,075.3	11,879.0	57.4	59.4	113.06	6,489.8	1,628.4	446.8	334.5	112.30	3.978	
17,900.0	11,704.0	18,175.3	11,879.0	58.1	60.0	113.06	6,589.8	1,628.2	446.8	333.2	113.60	3.933	
18,000.0	11,704.0	18,275.3	11,879.0	58.7	60.6	113.06	6,689.8	1,627.9	446.8	331.9	114.91	3.889	
18,100.0	11,704.0	18,375.3	11,879.0	59.4	61.3	113.06	6,789.8	1,627.7	446.8	330.6	116.22	3.845	
18,200.0	11,704.0	18,475.3	11,879.0	60.0	61.9	113.06	6,889.8	1,627.4	446.9	329.3	117.54	3.802	
18,300.0	11,704.0	18,575.3	11,879.0	60.7	62.6	113.06	6,989.8	1,627.2	446.9	328.0	118.86	3.760	
18,400.0	11,704.0	18,675.3	11,879.0	61.3	63.2	113.06	7,089.8	1,626.9	446.9	326.7	120.18	3.719	
18,500.0	11,704.0	18,775.3	11,879.0	62.0	63.9	113.05	7,189.8	1,626.7	446.9	325.4	121.51	3.678	
18,600.0	11,704.0	18,875.3	11,879.0	62.7	64.5	113.05	7,289.8	1,626.4	446.9	324.1	122.85	3.638	
18,700.0	11,704.0	18,975.3	11,879.0	63.4	65.2	113.05	7,389.8	1,626.2	447.0	322.8	124.18	3.599	
18,800.0	11,704.0	19,075.3	11,879.0	64.0	65.8	113.05	7,489.8	1,625.9	447.0	321.5	125.53	3.561	
18,900.0	11,704.0	19,175.3	11,879.0	64.7	66.5	113.05	7,589.8	1,625.7	447.0	320.1	126.87	3.523	
19,000.0	11,704.0	19,275.3	11,879.0	65.4	67.1	113.05	7,689.8	1,625.5	447.0	318.8	128.22	3.486	
19,100.0	11,704.0	19,375.3	11,879.0	66.1	67.8	113.05	7,789.8	1,625.2	447.0	317.5	129.57	3.450	
19,200.0	11,704.0	19,475.3	11,879.0	66.7	68.5	113.05	7,889.8	1,625.0	447.1	316.1	130.93	3.415	
19,300.0	11,704.0	19,575.3	11,879.0	67.4	69.1	113.05	7,989.8	1,624.7	447.1	314.8	132.29	3.380	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
19,400.0	11,704.0	19,675.3	11,879.0	68.1	69.8	113.04	8,089.8	1,624.5	447.1	313.5	133.65	3.345	
19,500.0	11,704.0	19,775.3	11,879.0	68.8	70.5	113.04	8,189.8	1,624.2	447.1	312.1	135.02	3.312	
19,600.0	11,704.0	19,875.3	11,879.0	69.5	71.1	113.04	8,289.8	1,624.0	447.1	310.8	136.39	3.278	
19,700.0	11,704.0	19,975.3	11,879.0	70.2	71.8	113.04	8,389.8	1,623.7	447.2	309.4	137.76	3.246	
19,800.0	11,704.0	20,075.3	11,879.0	70.8	72.5	113.04	8,489.8	1,623.5	447.2	308.1	139.14	3.214	
19,900.0	11,704.0	20,175.3	11,879.0	71.5	73.2	113.04	8,589.8	1,623.2	447.2	306.7	140.51	3.183	
20,000.0	11,704.0	20,275.3	11,879.0	72.2	73.8	113.04	8,689.8	1,623.0	447.2	305.3	141.90	3.152	
20,100.0	11,704.0	20,375.3	11,879.0	72.9	74.5	113.04	8,789.8	1,622.7	447.2	304.0	143.28	3.122	
20,200.0	11,704.0	20,475.3	11,879.0	73.6	75.2	113.04	8,889.8	1,622.5	447.3	302.6	144.66	3.092	
20,300.0	11,704.0	20,575.3	11,879.0	74.3	75.9	113.03	8,989.8	1,622.2	447.3	301.2	146.05	3.063	
20,400.0	11,704.0	20,675.3	11,879.0	75.0	76.6	113.03	9,089.8	1,622.0	447.3	299.9	147.44	3.034	
20,500.0	11,704.0	20,775.3	11,879.0	75.7	77.3	113.03	9,189.8	1,621.7	447.3	298.5	148.84	3.005	
20,600.0	11,704.0	20,875.3	11,879.0	76.4	78.0	113.03	9,289.8	1,621.5	447.3	297.1	150.23	2.978	
20,700.0	11,704.0	20,975.3	11,879.0	77.1	78.6	113.03	9,389.8	1,621.2	447.4	295.7	151.63	2.950	
20,800.0	11,704.0	21,075.3	11,879.0	77.8	79.3	113.03	9,489.8	1,621.0	447.4	294.4	153.03	2.924	
20,900.0	11,704.0	21,175.3	11,879.0	78.5	80.0	113.03	9,589.8	1,620.7	447.4	293.0	154.43	2.897	
21,000.0	11,704.0	21,275.3	11,879.0	79.2	80.7	113.03	9,689.8	1,620.5	447.4	291.6	155.84	2.871	
21,100.0	11,704.0	21,375.3	11,879.0	79.9	81.4	113.03	9,789.8	1,620.2	447.5	290.2	157.24	2.846	
21,200.0	11,704.0	21,475.3	11,879.0	80.6	82.1	113.02	9,889.8	1,620.0	447.5	288.8	158.65	2.820	
21,300.0	11,704.0	21,575.3	11,879.0	81.3	82.8	113.02	9,989.8	1,619.7	447.5	287.4	160.06	2.796	
21,400.0	11,704.0	21,675.3	11,879.0	82.1	83.5	113.02	10,089.8	1,619.5	447.5	286.0	161.47	2.771	
21,500.0	11,704.0	21,775.3	11,879.0	82.8	84.2	113.02	10,189.8	1,619.2	447.5	284.6	162.88	2.748	
21,600.0	11,704.0	21,875.3	11,879.0	83.5	84.9	113.02	10,289.8	1,619.0	447.6	283.3	164.30	2.724	
21,700.0	11,704.0	21,975.3	11,879.0	84.2	85.6	113.02	10,389.8	1,618.7	447.6	281.9	165.72	2.701	
21,800.0	11,704.0	22,075.3	11,879.0	84.9	86.3	113.02	10,489.8	1,618.5	447.6	280.5	167.14	2.678	
21,900.0	11,704.0	22,175.3	11,879.0	85.6	87.0	113.02	10,589.8	1,618.2	447.6	279.1	168.56	2.656	
22,000.0	11,704.0	22,275.3	11,879.0	86.3	87.7	113.02	10,689.8	1,618.0	447.6	277.7	169.98	2.633	
22,022.2	11,704.0	22,297.5	11,879.0	86.5	87.9	113.02	10,712.0	1,617.9	447.6	277.3	170.29	2.629	
22,072.2	11,704.0	22,347.5	11,879.0	86.8	88.2	113.02	10,762.0	1,617.8	447.6	276.6	171.00	2.618 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	2.8	2.8	3.0	3.0	-149.17	-199.3	-119.0	232.2				
100.0	100.0	102.8	102.8	3.0	3.0	-149.17	-199.3	-119.0	232.2	225.6	6.52	35.583	
200.0	200.0	202.8	202.8	3.2	3.2	-149.17	-199.3	-119.0	232.2	225.4	6.77	34.283	
300.0	300.0	302.8	302.8	3.3	3.3	-149.17	-199.3	-119.0	232.2	225.1	7.01	33.094	
400.0	400.0	402.8	402.8	3.4	3.4	-149.17	-199.3	-119.0	232.2	224.9	7.25	32.001	
500.0	500.0	502.8	502.8	3.5	3.6	-149.17	-199.3	-119.0	232.2	224.7	7.49	30.991	
600.0	600.0	602.8	602.8	3.7	3.7	-149.17	-199.3	-119.0	232.2	224.4	7.72	30.053	
700.0	700.0	702.8	702.8	3.8	3.8	-149.17	-199.3	-119.0	232.2	224.2	7.96	29.180	
800.0	800.0	802.8	802.8	3.9	3.9	-149.17	-199.3	-119.0	232.2	224.0	8.18	28.363	
900.0	900.0	902.8	902.8	4.0	4.0	-149.17	-199.3	-119.0	232.2	223.7	8.41	27.599	
1,000.0	1,000.0	1,002.8	1,002.8	4.2	4.2	-149.17	-199.3	-119.0	232.2	223.5	8.64	26.880	
1,100.0	1,100.0	1,102.8	1,102.8	4.3	4.3	-149.17	-199.3	-119.0	232.2	223.3	8.86	26.203	
1,200.0	1,200.0	1,202.8	1,202.8	4.4	4.4	-149.17	-199.3	-119.0	232.2	223.1	9.08	25.564	
1,300.0	1,300.0	1,302.8	1,302.8	4.5	4.5	-149.17	-199.3	-119.0	232.2	222.9	9.30	24.959	
1,400.0	1,400.0	1,402.8	1,402.8	4.6	4.6	-149.17	-199.3	-119.0	232.2	222.6	9.52	24.386	
1,500.0	1,500.0	1,502.9	1,502.9	4.8	4.8	-149.17	-199.3	-119.0	232.2	222.4	9.74	23.840	CC
1,504.4	1,504.4	1,507.3	1,507.3	4.8	4.8	150.84	-199.3	-119.0	232.2	222.4	9.75	23.814	ES
1,600.0	1,600.0	1,603.5	1,603.5	4.9	4.9	151.44	-198.2	-120.5	233.1	223.2	9.95	23.429	
1,700.0	1,699.9	1,703.7	1,703.6	5.0	5.1	153.18	-195.1	-124.8	236.3	226.0	10.28	22.980	
1,800.0	1,799.7	1,803.1	1,802.5	5.2	5.4	155.91	-189.9	-131.9	242.0	231.4	10.62	22.791	SF
1,833.3	1,832.9	1,836.0	1,835.2	5.2	5.4	157.01	-187.8	-134.9	244.5	233.9	10.66	22.935	
1,900.0	1,899.3	1,901.4	1,900.2	5.3	5.5	154.04	-183.1	-141.3	250.8	240.0	10.80	23.215	
2,000.0	1,998.5	1,999.1	1,997.1	5.6	5.7	152.83	-176.1	-151.0	263.1	251.9	11.22	23.452	
2,100.0	2,097.2	2,096.0	2,093.3	5.9	6.0	153.54	-169.2	-160.5	279.2	267.6	11.67	23.919	
2,200.0	2,195.3	2,191.9	2,188.5	6.3	6.2	155.15	-162.3	-170.0	299.4	287.2	12.17	24.597	
2,299.9	2,292.7	2,286.7	2,282.6	6.7	6.5	157.12	-155.5	-179.3	323.6	310.9	12.71	25.460	
2,400.0	2,389.8	2,381.2	2,376.4	7.0	6.8	160.47	-148.7	-188.6	350.4	337.2	13.22	26.503	
2,500.0	2,486.8	2,475.6	2,470.0	7.3	7.1	163.34	-142.0	-197.9	378.3	364.5	13.77	27.481	
2,600.0	2,583.9	2,570.0	2,563.7	7.7	7.4	165.83	-135.2	-207.2	406.9	392.6	14.34	28.383	
2,700.0	2,680.9	2,664.3	2,657.4	8.1	7.7	168.00	-128.5	-216.6	436.1	421.2	14.93	29.211	
2,800.0	2,777.9	2,758.7	2,751.1	8.5	8.0	169.90	-121.7	-225.9	465.9	450.4	15.55	29.968	
2,900.0	2,875.0	2,853.1	2,844.7	8.8	8.4	171.57	-114.9	-235.2	496.1	479.9	16.18	30.657	
3,000.0	2,972.0	2,947.4	2,938.4	9.3	8.7	173.05	-108.2	-244.5	526.6	509.8	16.83	31.286	
3,100.0	3,069.0	3,041.8	3,032.1	9.7	9.0	174.38	-101.4	-253.8	557.4	539.9	17.50	31.858	
3,200.0	3,166.0	3,136.2	3,125.7	10.1	9.4	175.56	-94.7	-263.1	588.5	570.3	18.17	32.381	
3,300.0	3,263.1	3,230.6	3,219.4	10.5	9.7	176.63	-87.9	-272.4	619.8	600.9	18.86	32.858	
3,400.0	3,360.1	3,324.9	3,313.1	10.9	10.1	177.60	-81.1	-281.7	651.2	631.7	19.56	33.294	
3,500.0	3,457.1	3,419.3	3,406.7	11.4	10.4	178.48	-74.4	-291.0	682.8	662.6	20.27	33.694	
3,600.0	3,554.2	3,513.7	3,500.4	11.8	10.8	179.28	-67.6	-300.3	714.6	693.6	20.98	34.061	
3,700.0	3,651.2	3,608.0	3,594.1	12.3	11.2	-179.99	-60.9	-309.6	746.4	724.7	21.70	34.398	
3,800.0	3,748.2	3,702.4	3,687.7	12.7	11.5	-179.31	-54.1	-318.9	778.4	756.0	22.43	34.710	
3,900.0	3,845.2	3,796.8	3,781.4	13.2	11.9	-178.69	-47.3	-328.2	810.4	787.3	23.16	34.997	
4,000.0	3,942.3	3,891.2	3,875.1	13.6	12.2	-178.12	-40.6	-337.5	842.6	818.7	23.89	35.263	
4,100.0	4,039.3	3,985.5	3,968.7	14.1	12.6	-177.59	-33.8	-346.8	874.7	850.1	24.63	35.509	
4,200.0	4,136.3	4,079.9	4,062.4	14.5	13.0	-177.09	-27.1	-356.1	907.0	881.6	25.38	35.739	
4,300.0	4,233.4	4,174.3	4,156.1	15.0	13.4	-176.63	-20.3	-365.4	939.3	913.2	26.13	35.952	
4,400.0	4,330.4	4,268.6	4,249.8	15.5	13.7	-176.20	-13.5	-374.7	971.7	944.8	26.88	36.151	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	1.9	1.9	3.0	3.0	-155.94	-199.5	-89.1	218.5				
100.0	100.0	101.9	101.9	3.0	3.0	-155.94	-199.5	-89.1	218.5	212.0	6.52	33.493	
200.0	200.0	201.9	201.9	3.2	3.2	-155.94	-199.5	-89.1	218.5	211.7	6.77	32.265	
300.0	300.0	301.9	301.9	3.3	3.3	-155.94	-199.5	-89.1	218.5	211.5	7.02	31.140	
400.0	400.0	401.9	401.9	3.4	3.4	-155.94	-199.5	-89.1	218.5	211.2	7.26	30.103	
500.0	500.0	501.9	501.9	3.5	3.5	-155.94	-199.5	-89.1	218.5	211.0	7.50	29.142	
600.0	600.0	601.9	601.9	3.7	3.7	-155.94	-199.5	-89.1	218.5	210.8	7.73	28.250	
700.0	700.0	701.9	701.9	3.8	3.8	-155.94	-199.5	-89.1	218.5	210.5	7.97	27.417	
800.0	800.0	801.9	801.9	3.9	3.9	-155.94	-199.5	-89.1	218.5	210.3	8.20	26.639	
900.0	900.0	901.9	901.9	4.0	4.0	-155.94	-199.5	-89.1	218.5	210.1	8.43	25.908	
1,000.0	1,000.0	1,001.9	1,001.9	4.2	4.2	-155.94	-199.5	-89.1	218.5	209.8	8.66	25.222	
1,100.0	1,100.0	1,101.9	1,101.9	4.3	4.3	-155.94	-199.5	-89.1	218.5	209.6	8.89	24.575	
1,200.0	1,200.0	1,201.9	1,201.9	4.4	4.4	-155.94	-199.5	-89.1	218.5	209.4	9.12	23.963	
1,300.0	1,300.0	1,301.9	1,301.9	4.5	4.5	-155.94	-199.5	-89.1	218.5	209.2	9.34	23.385	
1,400.0	1,400.0	1,401.9	1,401.9	4.6	4.6	-155.94	-199.5	-89.1	218.5	208.9	9.57	22.836	
1,500.0	1,500.0	1,502.1	1,502.1	4.8	4.8	-155.94	-199.5	-89.1	218.5	208.7	9.79	22.311	
1,600.0	1,600.0	1,609.4	1,609.3	4.9	5.0	144.53	-197.4	-89.2	217.8	207.7	10.10	21.564	
1,700.0	1,699.9	1,716.4	1,716.2	5.0	5.3	145.92	-191.3	-89.4	216.0	205.5	10.52	20.527	
1,800.0	1,799.7	1,823.0	1,822.3	5.2	5.6	148.26	-181.3	-89.8	213.3	202.3	10.95	19.475	
1,833.3	1,832.9	1,858.4	1,857.5	5.2	5.7	149.26	-177.1	-90.0	212.2	201.2	11.05	19.199	
1,900.0	1,899.3	1,927.1	1,925.6	5.3	5.9	146.28	-167.9	-90.4	210.1	198.8	11.29	18.615	
1,981.9	1,980.5	2,008.1	2,005.7	5.6	6.0	145.40	-156.6	-90.8	209.0	197.4	11.63	17.972	CC
2,000.0	1,998.5	2,026.0	2,023.4	5.6	6.1	145.48	-154.1	-90.9	209.1	197.4	11.71	17.855	ES
2,100.0	2,097.2	2,124.3	2,120.9	5.9	6.3	147.18	-140.5	-91.5	211.6	199.4	12.15	17.410	
2,200.0	2,195.3	2,222.1	2,217.7	6.3	6.6	150.23	-126.9	-92.0	218.2	205.6	12.62	17.294	SF
2,299.9	2,292.7	2,319.1	2,313.8	6.7	6.9	153.94	-113.4	-92.5	229.4	216.3	13.10	17.508	
2,400.0	2,389.8	2,415.9	2,409.6	7.0	7.2	158.94	-99.9	-93.1	243.9	230.4	13.55	18.007	
2,500.0	2,486.8	2,512.6	2,505.4	7.3	7.5	163.37	-86.5	-93.6	260.1	246.1	14.01	18.573	
2,600.0	2,583.9	2,609.4	2,601.2	7.7	7.8	167.27	-73.0	-94.2	277.7	263.3	14.48	19.177	
2,700.0	2,680.9	2,706.1	2,696.9	8.1	8.1	170.72	-59.6	-94.7	296.5	281.5	14.98	19.799	
2,800.0	2,777.9	2,802.8	2,792.7	8.5	8.5	173.75	-46.1	-95.2	316.2	300.7	15.48	20.424	
2,900.0	2,875.0	2,899.5	2,888.5	8.8	8.8	176.43	-32.7	-95.8	336.6	320.6	16.00	21.042	
3,000.0	2,972.0	2,996.2	2,984.2	9.3	9.2	178.81	-19.2	-96.3	357.7	341.2	16.53	21.645	
3,100.0	3,069.0	3,092.9	3,080.0	9.7	9.5	-179.08	-5.8	-96.9	379.3	362.3	17.06	22.230	
3,200.0	3,166.0	3,189.6	3,175.8	10.1	9.9	-177.19	7.7	-97.4	401.4	383.8	17.61	22.792	
3,300.0	3,263.1	3,286.3	3,271.5	10.5	10.2	-175.50	21.1	-97.9	423.9	405.7	18.17	23.331	
3,400.0	3,360.1	3,382.9	3,367.2	10.9	10.6	-173.98	34.5	-98.5	446.6	427.9	18.70	23.887	
3,500.0	3,457.1	3,479.2	3,462.6	11.4	10.9	-172.75	46.8	-99.0	469.8	450.5	19.26	24.390	
3,600.0	3,554.2	3,575.6	3,558.5	11.8	11.3	-171.82	57.5	-99.4	493.1	473.3	19.84	24.852	
3,700.0	3,651.2	3,672.3	3,654.7	12.3	11.6	-171.16	66.7	-99.8	516.7	496.2	20.44	25.284	
3,800.0	3,748.2	3,769.1	3,751.2	12.7	12.0	-170.73	74.2	-100.1	540.3	519.3	21.04	25.685	
3,900.0	3,845.2	3,866.0	3,847.9	13.2	12.3	-170.51	80.0	-100.3	564.1	542.4	21.65	26.056	
4,000.0	3,942.3	3,962.8	3,944.7	13.6	12.6	-170.47	84.3	-100.5	587.8	565.6	22.27	26.400	
4,100.0	4,039.3	4,059.7	4,041.5	14.1	12.9	-170.59	86.9	-100.6	611.6	588.8	22.89	26.718	
4,200.0	4,136.3	4,156.4	4,138.3	14.5	13.1	-170.86	87.9	-100.6	635.5	612.0	23.51	27.031	
4,300.0	4,233.4	4,253.4	4,235.3	15.0	13.1	-171.19	87.9	-100.6	659.4	635.3	24.13	27.325	
4,400.0	4,330.4	4,350.5	4,332.3	15.5	13.2	-171.50	87.9	-100.6	683.4	658.6	24.78	27.581	
4,500.0	4,427.4	4,447.5	4,429.3	15.9	13.3	-171.79	87.9	-100.6	707.3	681.9	25.42	27.822	
4,600.0	4,524.5	4,544.5	4,526.4	16.4	13.3	-172.06	87.9	-100.6	731.3	705.2	26.07	28.049	
4,700.0	4,621.5	4,641.6	4,623.4	16.9	13.4	-172.32	87.9	-100.6	755.3	728.5	26.72	28.263	
4,800.0	4,718.5	4,738.6	4,720.4	17.3	13.5	-172.55	87.9	-100.6	779.2	751.9	27.38	28.464	
4,900.0	4,815.5	4,835.6	4,817.5	17.8	13.5	-172.78	87.9	-100.6	803.3	775.2	28.03	28.655	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
5,000.0	4,912.6	4,932.7	4,914.5	18.3	13.6	-172.99	87.9	-100.6	827.3	798.6	28.69	28.836	
5,100.0	5,009.6	5,029.7	5,011.5	18.7	13.7	-173.19	87.9	-100.6	851.3	821.9	29.35	29.007	
5,200.0	5,106.6	5,126.7	5,108.6	19.2	13.7	-173.37	87.9	-100.6	875.3	845.3	30.01	29.169	
5,300.0	5,203.7	5,223.7	5,205.6	19.7	13.8	-173.55	87.9	-100.6	899.4	868.7	30.67	29.323	
5,400.0	5,300.7	5,320.8	5,302.6	20.2	13.9	-173.72	87.9	-100.6	923.4	892.1	31.34	29.469	
5,500.0	5,397.7	5,417.8	5,399.6	20.6	13.9	-173.88	87.9	-100.6	947.5	915.5	32.00	29.608	
5,600.0	5,494.7	5,514.8	5,496.7	21.1	14.0	-174.03	87.9	-100.6	971.6	938.9	32.67	29.741	
5,700.0	5,591.8	5,611.9	5,593.7	21.6	14.1	-174.18	87.9	-100.6	995.6	962.3	33.33	29.868	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	1.6	1.6	3.0	3.0	-163.56	-199.7	-58.9	208.2				
100.0	100.0	101.6	101.6	3.0	3.0	-163.56	-199.7	-58.9	208.2	201.7	6.52	31.916	
200.0	200.0	201.6	201.6	3.2	3.2	-163.56	-199.7	-58.9	208.2	201.4	6.77	30.743	
300.0	300.0	301.6	301.6	3.3	3.3	-163.56	-199.7	-58.9	208.2	201.2	7.02	29.665	
400.0	400.0	401.6	401.6	3.4	3.4	-163.56	-199.7	-58.9	208.2	200.9	7.26	28.670	
500.0	500.0	501.6	501.6	3.5	3.5	-163.56	-199.7	-58.9	208.2	200.7	7.50	27.747	
600.0	600.0	601.6	601.6	3.7	3.7	-163.56	-199.7	-58.9	208.2	200.5	7.74	26.888	
700.0	700.0	701.6	701.6	3.8	3.8	-163.56	-199.7	-58.9	208.2	200.2	7.98	26.086	
800.0	800.0	801.6	801.6	3.9	3.9	-163.56	-199.7	-58.9	208.2	200.0	8.22	25.336	
900.0	900.0	901.6	901.6	4.0	4.0	-163.56	-199.7	-58.9	208.2	199.8	8.45	24.631	
1,000.0	1,000.0	1,001.6	1,001.6	4.2	4.2	-163.56	-199.7	-58.9	208.2	199.5	8.69	23.968	
1,100.0	1,100.0	1,101.6	1,101.6	4.3	4.3	-163.56	-199.7	-58.9	208.2	199.3	8.92	23.343	
1,200.0	1,200.0	1,201.6	1,201.6	4.4	4.4	-163.56	-199.7	-58.9	208.2	199.1	9.15	22.753	
1,300.0	1,300.0	1,301.6	1,301.6	4.5	4.5	-163.56	-199.7	-58.9	208.2	198.8	9.38	22.194	
1,400.0	1,400.0	1,401.6	1,401.6	4.6	4.6	-163.56	-199.7	-58.9	208.2	198.6	9.61	21.663	
1,500.0	1,500.0	1,501.7	1,501.7	4.8	4.8	-163.56	-199.7	-58.9	208.2	198.4	9.84	21.159	
1,600.0	1,600.0	1,607.3	1,607.3	4.9	4.9	136.61	-198.4	-58.2	207.8	197.7	10.10	20.571	
1,700.0	1,699.9	1,712.9	1,712.8	5.0	5.1	137.13	-194.6	-56.0	206.6	196.1	10.48	19.705	
1,800.0	1,799.7	1,818.4	1,818.0	5.2	5.3	138.01	-188.2	-52.3	204.6	193.7	10.89	18.790	
1,833.3	1,832.9	1,853.5	1,853.0	5.2	5.4	138.38	-185.5	-50.8	203.8	192.8	10.99	18.540	
1,900.0	1,899.3	1,923.7	1,922.8	5.3	5.6	134.04	-179.4	-47.2	201.8	190.6	11.24	17.950	
2,000.0	1,998.5	2,028.8	2,027.1	5.6	5.8	131.34	-168.0	-40.7	197.9	186.2	11.69	16.928	
2,100.0	2,097.2	2,126.0	2,123.4	5.9	6.1	130.86	-157.4	-32.9	195.1	182.9	12.17	16.030	
2,134.0	2,130.6	2,159.0	2,156.1	6.1	6.1	130.94	-154.4	-29.7	194.9	182.5	12.36	15.772	CC, ES
2,200.0	2,195.3	2,223.1	2,219.7	6.3	6.3	131.32	-149.2	-22.8	195.6	182.9	12.71	15.388	
2,299.9	2,292.7	2,321.5	2,317.1	6.7	6.5	132.37	-143.0	-10.8	199.3	186.1	13.23	15.066	
2,400.0	2,389.8	2,421.0	2,415.6	7.0	6.8	135.19	-136.9	1.7	204.6	190.8	13.81	14.814	
2,500.0	2,486.8	2,520.4	2,514.0	7.3	7.1	137.85	-130.8	14.1	210.3	195.9	14.43	14.574	
2,600.0	2,583.9	2,619.7	2,612.4	7.7	7.4	140.38	-124.8	26.5	216.4	201.3	15.09	14.347	
2,700.0	2,680.9	2,719.1	2,710.8	8.1	7.7	142.76	-118.7	39.0	223.0	207.2	15.78	14.132	
2,800.0	2,777.9	2,818.5	2,809.2	8.5	8.0	145.00	-112.6	51.4	229.9	213.4	16.50	13.933	
2,900.0	2,875.0	2,917.8	2,907.6	8.8	8.4	147.11	-106.6	63.8	237.1	219.9	17.25	13.748	
3,000.0	2,972.0	3,017.2	3,006.0	9.3	8.7	149.09	-100.5	76.3	244.7	226.6	18.02	13.579	
3,100.0	3,069.0	3,116.6	3,104.4	9.7	9.1	150.95	-94.5	88.7	252.5	233.7	18.81	13.424	
3,200.0	3,166.0	3,215.9	3,202.8	10.1	9.5	152.70	-88.4	101.1	260.5	240.9	19.61	13.284	
3,300.0	3,263.1	3,315.3	3,301.2	10.5	9.8	154.35	-82.3	113.5	268.8	248.4	20.43	13.157	
3,400.0	3,360.1	3,414.7	3,399.6	10.9	10.2	155.89	-76.3	126.0	277.3	256.1	21.26	13.043	
3,500.0	3,457.1	3,514.0	3,498.0	11.4	10.6	157.34	-70.2	138.4	286.0	263.9	22.10	12.941	
3,600.0	3,554.2	3,613.4	3,596.4	11.8	11.0	158.71	-64.1	150.8	294.9	272.0	22.95	12.849	
3,700.0	3,651.2	3,712.8	3,694.8	12.3	11.4	160.00	-58.1	163.3	303.9	280.1	23.81	12.767	
3,800.0	3,748.2	3,812.1	3,793.2	12.7	11.7	161.21	-52.0	175.7	313.1	288.4	24.67	12.693	
3,900.0	3,845.2	3,911.5	3,891.6	13.2	12.1	162.35	-46.0	188.1	322.4	296.9	25.53	12.628	
4,000.0	3,942.3	4,010.9	3,990.0	13.6	12.5	163.43	-39.9	200.6	331.8	305.4	26.40	12.570	
4,100.0	4,039.3	4,110.2	4,088.4	14.1	12.9	164.45	-33.8	213.0	341.3	314.1	27.27	12.518	
4,200.0	4,136.3	4,209.6	4,186.8	14.5	13.3	165.41	-27.8	225.4	351.0	322.8	28.14	12.473	
4,300.0	4,233.4	4,309.0	4,285.2	15.0	13.7	166.33	-21.7	237.8	360.7	331.7	29.01	12.432	
4,400.0	4,330.4	4,408.3	4,383.6	15.5	14.1	167.19	-15.6	250.3	370.5	340.6	29.89	12.396	
4,500.0	4,427.4	4,507.7	4,482.0	15.9	14.5	168.01	-9.6	262.7	380.4	349.6	30.76	12.364	
4,600.0	4,524.5	4,607.1	4,580.4	16.4	15.0	168.79	-3.5	275.1	390.4	358.7	31.64	12.337	
4,700.0	4,621.5	4,706.4	4,678.8	16.9	15.4	169.53	2.5	287.6	400.4	367.9	32.52	12.312	
4,800.0	4,718.5	4,800.0	4,771.5	17.3	15.7	170.19	8.2	299.3	410.5	377.2	33.36	12.308	SF
4,900.0	4,815.5	4,891.2	4,862.0	17.8	16.2	170.79	13.1	309.3	422.4	388.2	34.26	12.328	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
5,000.0	4,912.6	4,977.2	4,947.6	18.3	16.6	171.31	16.6	316.3	437.4	402.4	35.01	12.493	
5,100.0	5,009.6	5,062.2	5,032.5	18.7	16.9	171.76	18.9	321.1	455.3	419.6	35.69	12.757	
5,200.0	5,106.6	5,146.4	5,116.6	19.2	17.1	172.15	20.1	323.5	476.1	439.9	36.25	13.134	
5,300.0	5,203.7	5,235.1	5,205.3	19.7	17.3	172.50	20.3	323.9	499.6	462.8	36.78	13.584	
5,400.0	5,300.7	5,332.1	5,302.3	20.2	17.4	172.84	20.3	323.9	523.6	486.3	37.37	14.011	
5,500.0	5,397.7	5,429.2	5,399.4	20.6	17.4	173.16	20.3	323.9	547.7	509.7	37.92	14.443	
5,600.0	5,494.7	5,526.2	5,496.4	21.1	17.5	173.45	20.3	323.9	571.7	533.2	38.47	14.862	
5,700.0	5,591.8	5,623.2	5,593.4	21.6	17.5	173.71	20.3	323.9	595.7	556.7	39.02	15.267	
5,800.0	5,688.8	5,720.3	5,690.5	22.1	17.6	173.96	20.3	323.9	619.8	580.2	39.58	15.659	
5,900.0	5,785.8	5,817.3	5,787.5	22.6	17.6	174.18	20.3	323.9	643.9	603.7	40.15	16.039	
6,000.0	5,882.9	5,914.3	5,884.5	23.0	17.7	174.39	20.3	323.9	668.0	627.2	40.71	16.406	
6,100.0	5,979.9	6,011.3	5,981.5	23.5	17.7	174.59	20.3	323.9	692.0	650.8	41.29	16.762	
6,200.0	6,076.9	6,108.4	6,078.6	24.0	17.8	174.77	20.3	323.9	716.1	674.3	41.86	17.106	
6,300.0	6,174.0	6,205.4	6,175.6	24.5	17.8	174.94	20.3	323.9	740.2	697.8	42.44	17.440	
6,400.0	6,271.0	6,302.4	6,272.6	25.0	17.9	175.10	20.3	323.9	764.3	721.3	43.03	17.763	
6,500.0	6,368.0	6,399.5	6,369.7	25.4	17.9	175.25	20.3	323.9	788.5	744.8	43.62	18.077	
6,600.0	6,465.0	6,496.5	6,466.7	25.9	18.0	175.39	20.3	323.9	812.6	768.4	44.21	18.380	
6,700.0	6,562.1	6,593.5	6,563.7	26.4	18.0	175.53	20.3	323.9	836.7	791.9	44.80	18.675	
6,800.0	6,659.1	6,690.5	6,660.8	26.9	18.1	175.65	20.3	323.9	860.8	815.4	45.40	18.960	
6,821.5	6,680.0	6,711.4	6,681.6	27.0	18.1	175.68	20.3	323.9	866.0	820.5	45.53	19.022	
6,900.0	6,756.4	6,787.8	6,758.0	27.4	18.1	175.79	20.3	323.9	883.9	837.9	46.00	19.217	
7,000.0	6,854.4	6,885.8	6,856.0	27.9	18.2	175.91	20.3	323.9	903.7	857.1	46.60	19.393	
7,100.0	6,953.0	6,984.5	6,954.7	28.3	18.2	176.01	20.3	323.9	920.0	872.8	47.18	19.501	
7,200.0	7,052.2	7,083.6	7,053.8	28.8	18.3	176.08	20.3	323.9	932.9	885.2	47.73	19.544	
7,300.0	7,151.7	7,183.2	7,153.4	29.2	18.3	176.14	20.3	323.9	942.4	894.1	48.26	19.527	
7,400.0	7,251.6	7,283.0	7,253.2	29.5	18.4	176.17	20.3	323.9	948.3	899.6	48.73	19.459	
7,500.0	7,351.5	7,383.0	7,353.2	29.8	18.4	176.18	20.3	323.9	950.8	901.7	49.12	19.356	
7,521.5	7,373.1	7,404.5	7,374.7	29.8	18.4	-106.82	20.3	323.9	950.9	901.7	49.16	19.344	
7,600.0	7,451.5	7,483.0	7,453.2	29.9	18.5	-106.82	20.3	323.9	950.9	901.7	49.21	19.322	
7,700.0	7,551.5	7,583.0	7,553.2	29.9	18.5	-106.82	20.3	323.9	950.9	901.6	49.29	19.292	
7,800.0	7,651.5	7,683.0	7,653.2	29.9	18.6	-106.82	20.3	323.9	950.9	901.5	49.37	19.262	
7,900.0	7,751.5	7,783.0	7,753.2	30.0	18.6	-106.82	20.3	323.9	950.9	901.5	49.44	19.232	
8,000.0	7,851.5	7,883.0	7,853.2	30.0	18.7	-106.82	20.3	323.9	950.9	901.4	49.52	19.203	
8,100.0	7,951.5	7,983.0	7,953.2	30.0	18.8	-106.82	20.3	323.9	950.9	901.3	49.60	19.172	
8,200.0	8,051.5	8,083.0	8,053.2	30.0	18.8	-106.82	20.3	323.9	950.9	901.2	49.67	19.142	
8,300.0	8,151.5	8,183.0	8,153.2	30.1	18.9	-106.82	20.3	323.9	950.9	901.1	49.75	19.112	
8,400.0	8,251.5	8,283.0	8,253.2	30.1	18.9	-106.82	20.3	323.9	950.9	901.1	49.83	19.082	
8,500.0	8,351.5	8,383.0	8,353.2	30.1	19.0	-106.82	20.3	323.9	950.9	901.0	49.91	19.052	
8,600.0	8,451.5	8,483.0	8,453.2	30.2	19.0	-106.82	20.3	323.9	950.9	900.9	49.99	19.022	
8,700.0	8,551.5	8,583.0	8,553.2	30.2	19.1	-106.82	20.3	323.9	950.9	900.8	50.07	18.991	
8,800.0	8,651.5	8,683.0	8,653.2	30.2	19.2	-106.82	20.3	323.9	950.9	900.7	50.15	18.961	
8,900.0	8,751.5	8,783.0	8,753.2	30.3	19.2	-106.82	20.3	323.9	950.9	900.7	50.23	18.930	
9,000.0	8,851.5	8,883.0	8,853.2	30.3	19.3	-106.82	20.3	323.9	950.9	900.6	50.31	18.900	
9,100.0	8,951.5	8,983.0	8,953.2	30.3	19.3	-106.82	20.3	323.9	950.9	900.5	50.39	18.869	
9,200.0	9,051.5	9,083.0	9,053.2	30.4	19.4	-106.82	20.3	323.9	950.9	900.4	50.48	18.839	
9,300.0	9,151.5	9,183.0	9,153.2	30.4	19.4	-106.82	20.3	323.9	950.9	900.3	50.56	18.808	
9,400.0	9,251.5	9,283.0	9,253.2	30.4	19.5	-106.82	20.3	323.9	950.9	900.3	50.64	18.777	
9,500.0	9,351.5	9,383.0	9,353.2	30.5	19.6	-106.82	20.3	323.9	950.9	900.2	50.72	18.747	
9,600.0	9,451.5	9,483.0	9,453.2	30.5	19.6	-106.82	20.3	323.9	950.9	900.1	50.81	18.716	
9,700.0	9,551.5	9,583.0	9,553.2	30.5	19.7	-106.82	20.3	323.9	950.9	900.0	50.89	18.685	
9,800.0	9,651.5	9,683.0	9,653.2	30.6	19.7	-106.82	20.3	323.9	950.9	899.9	50.98	18.654	
9,900.0	9,751.5	9,783.0	9,753.2	30.6	19.8	-106.82	20.3	323.9	950.9	899.8	51.06	18.623	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
10,000.0	9,851.5	9,883.0	9,853.2	30.6	19.8	-106.82	20.3	323.9	950.9	899.8	51.14	18.592	
10,100.0	9,951.5	9,983.0	9,953.2	30.7	19.9	-106.82	20.3	323.9	950.9	899.7	51.23	18.561	
10,200.0	10,051.5	10,083.0	10,053.2	30.7	20.0	-106.82	20.3	323.9	950.9	899.6	51.32	18.531	
10,300.0	10,151.5	10,183.0	10,153.2	30.7	20.0	-106.82	20.3	323.9	950.9	899.5	51.40	18.500	
10,400.0	10,251.5	10,283.0	10,253.2	30.8	20.1	-106.82	20.3	323.9	950.9	899.4	51.49	18.468	
10,500.0	10,351.5	10,383.0	10,353.2	30.8	20.1	-106.82	20.3	323.9	950.9	899.3	51.57	18.437	
10,600.0	10,451.5	10,483.0	10,453.2	30.8	20.2	-106.82	20.3	323.9	950.9	899.2	51.66	18.406	
10,700.0	10,551.5	10,583.0	10,553.2	30.9	20.3	-106.82	20.3	323.9	950.9	899.1	51.75	18.375	
10,800.0	10,651.5	10,683.0	10,653.2	30.9	20.3	-106.82	20.3	323.9	950.9	899.1	51.84	18.344	
10,900.0	10,751.5	10,783.0	10,753.2	31.0	20.4	-106.82	20.3	323.9	950.9	899.0	51.92	18.313	
11,000.0	10,851.5	10,883.0	10,853.2	31.0	20.4	-106.82	20.3	323.9	950.9	898.9	52.01	18.282	
11,100.0	10,951.5	10,983.0	10,953.2	31.0	20.5	-106.82	20.3	323.9	950.9	898.8	52.10	18.251	
11,200.0	11,051.5	11,083.0	11,053.2	31.1	20.6	-106.82	20.3	323.9	950.9	898.7	52.19	18.220	
11,208.7	11,060.2	11,091.6	11,061.8	31.1	20.6	-106.82	20.3	323.9	950.9	898.7	52.20	18.217	
11,279.5	11,131.0	11,161.8	11,132.0	31.1	20.6	-106.82	20.3	323.9	950.9	898.7	52.24	18.204	
11,300.0	11,151.5	11,176.2	11,146.4	31.1	20.6	-106.67	20.1	323.9	951.1	898.9	52.20	18.221	
11,350.0	11,201.3	11,209.7	11,179.9	31.1	20.6	-106.74	18.3	323.9	953.0	900.9	52.10	18.292	
11,400.0	11,250.6	11,250.0	11,219.9	31.1	20.6	-107.02	13.5	323.9	957.2	905.1	52.06	18.385	
11,450.0	11,299.0	11,271.9	11,241.4	31.1	20.7	-106.94	9.7	324.0	963.5	911.7	51.88	18.572	
11,500.0	11,346.1	11,300.0	11,268.9	31.1	20.7	-106.93	3.7	324.0	972.4	920.7	51.76	18.789	
11,550.0	11,391.6	11,322.9	11,290.9	31.1	20.7	-106.64	-2.2	324.0	984.0	932.4	51.59	19.074	
11,600.0	11,435.1	11,350.0	11,316.8	31.1	20.7	-106.37	-10.4	324.1	998.3	946.8	51.45	19.402	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	2.0	2.0	3.0	3.0	-171.74	-199.9	-29.0	202.0				
100.0	100.0	102.0	102.0	3.0	3.0	-171.74	-199.9	-29.0	202.0	195.4	6.52	30.956	
200.0	200.0	202.0	202.0	3.2	3.2	-171.74	-199.9	-29.0	202.0	195.2	6.77	29.815	
300.0	300.0	302.0	302.0	3.3	3.3	-171.74	-199.9	-29.0	202.0	194.9	7.02	28.766	
400.0	400.0	402.0	402.0	3.4	3.4	-171.74	-199.9	-29.0	202.0	194.7	7.27	27.796	
500.0	500.0	502.0	502.0	3.5	3.5	-171.74	-199.9	-29.0	202.0	194.4	7.51	26.896	
600.0	600.0	602.0	602.0	3.7	3.7	-171.74	-199.9	-29.0	202.0	194.2	7.75	26.057	
700.0	700.0	702.0	702.0	3.8	3.8	-171.74	-199.9	-29.0	202.0	194.0	7.99	25.274	
800.0	800.0	802.0	802.0	3.9	3.9	-171.74	-199.9	-29.0	202.0	193.7	8.23	24.540	
900.0	900.0	902.0	902.0	4.0	4.0	-171.74	-199.9	-29.0	202.0	193.5	8.47	23.851	
1,000.0	1,000.0	1,002.0	1,002.0	4.2	4.2	-171.74	-199.9	-29.0	202.0	193.3	8.70	23.203	
1,100.0	1,100.0	1,102.0	1,102.0	4.3	4.3	-171.74	-199.9	-29.0	202.0	193.0	8.94	22.591	
1,200.0	1,200.0	1,202.0	1,202.0	4.4	4.4	-171.74	-199.9	-29.0	202.0	192.8	9.17	22.013	
1,300.0	1,300.0	1,302.0	1,302.0	4.5	4.5	-171.74	-199.9	-29.0	202.0	192.5	9.41	21.466	
1,400.0	1,400.0	1,402.0	1,402.0	4.6	4.6	-171.74	-199.9	-29.0	202.0	192.3	9.64	20.947	
1,500.0	1,500.0	1,502.0	1,502.0	4.8	4.8	-171.74	-199.9	-29.0	202.0	192.1	9.87	20.454	
1,600.0	1,600.0	1,606.5	1,606.5	4.9	4.9	128.32	-198.8	-28.0	201.6	191.5	10.11	19.935	
1,700.0	1,699.9	1,710.9	1,710.8	5.0	5.1	128.50	-195.7	-24.9	200.7	190.3	10.47	19.170	
1,800.0	1,799.7	1,815.3	1,814.9	5.2	5.3	128.83	-190.7	-19.8	199.3	188.4	10.84	18.379	
1,833.3	1,832.9	1,850.1	1,849.6	5.2	5.4	128.97	-188.5	-17.7	198.7	187.7	10.93	18.170	
1,900.0	1,899.3	1,919.6	1,918.8	5.3	5.5	124.06	-183.6	-12.7	197.1	185.9	11.16	17.666	
2,000.0	1,998.5	2,023.8	2,022.2	5.6	5.8	120.28	-174.5	-3.7	193.6	182.0	11.55	16.755	
2,100.0	2,097.2	2,123.1	2,120.4	5.9	6.0	118.71	-165.2	7.4	189.9	178.0	11.96	15.882	
2,200.0	2,195.3	2,222.1	2,218.1	6.3	6.3	118.11	-157.1	21.7	187.9	175.4	12.45	15.091	
2,279.9	2,273.3	2,301.4	2,296.0	6.6	6.5	118.03	-151.5	35.4	187.4	174.5	12.85	14.580 CC	
2,299.9	2,292.7	2,321.3	2,315.4	6.7	6.6	118.04	-150.3	39.1	187.4	174.5	12.93	14.490	
2,400.0	2,389.8	2,421.1	2,413.1	7.0	6.8	119.23	-144.2	58.9	187.8	174.5	13.37	14.052	
2,500.0	2,486.8	2,521.1	2,510.9	7.3	7.2	120.38	-138.1	78.8	188.3	174.5	13.88	13.571 ES	
2,600.0	2,583.9	2,621.0	2,608.6	7.7	7.5	121.53	-132.0	98.6	188.9	174.5	14.42	13.103	
2,700.0	2,680.9	2,720.9	2,706.3	8.1	7.9	122.67	-125.9	118.5	189.6	174.6	14.99	12.648	
2,800.0	2,777.9	2,820.9	2,804.1	8.5	8.2	123.80	-119.9	138.4	190.3	174.7	15.59	12.209	
2,900.0	2,875.0	2,920.8	2,901.8	8.8	8.6	124.93	-113.8	158.2	191.1	174.9	16.21	11.787	
3,000.0	2,972.0	3,020.7	2,999.6	9.3	9.0	126.04	-107.7	178.1	192.0	175.1	16.87	11.382	
3,100.0	3,069.0	3,120.6	3,097.3	9.7	9.4	127.14	-101.6	198.0	192.9	175.4	17.54	10.996	
3,200.0	3,166.0	3,220.6	3,195.1	10.1	9.8	128.23	-95.6	217.8	193.9	175.7	18.25	10.627	
3,300.0	3,263.1	3,320.5	3,292.8	10.5	10.2	129.31	-89.5	237.7	195.0	176.0	18.98	10.276	
3,400.0	3,360.1	3,420.4	3,390.5	10.9	10.6	130.38	-83.4	257.6	196.2	176.4	19.73	9.944	
3,500.0	3,457.1	3,520.3	3,488.3	11.4	11.1	131.43	-77.3	277.4	197.4	176.9	20.50	9.629	
3,600.0	3,554.2	3,620.3	3,586.0	11.8	11.5	132.48	-71.3	297.3	198.7	177.4	21.29	9.330	
3,700.0	3,651.2	3,720.2	3,683.8	12.3	11.9	133.50	-65.2	317.2	200.0	177.9	22.11	9.049	
3,800.0	3,748.2	3,820.1	3,781.5	12.7	12.4	134.52	-59.1	337.1	201.5	178.5	22.94	8.783	
3,900.0	3,845.2	3,920.0	3,879.3	13.2	12.8	135.52	-53.0	356.9	202.9	179.1	23.79	8.532	
4,000.0	3,942.3	4,020.0	3,977.0	13.6	13.2	136.50	-47.0	376.8	204.5	179.8	24.65	8.295	
4,100.0	4,039.3	4,119.9	4,074.7	14.1	13.7	137.47	-40.9	396.7	206.1	180.5	25.53	8.072	
4,200.0	4,136.3	4,219.8	4,172.5	14.5	14.1	138.42	-34.8	416.5	207.7	181.3	26.42	7.862	
4,300.0	4,233.4	4,319.8	4,270.2	15.0	14.6	139.36	-28.7	436.4	209.4	182.1	27.33	7.664	
4,400.0	4,330.4	4,419.7	4,368.0	15.5	15.0	140.29	-22.7	456.3	211.2	183.0	28.25	7.477	
4,500.0	4,427.4	4,519.6	4,465.7	15.9	15.5	141.19	-16.6	476.1	213.0	183.9	29.18	7.301	
4,600.0	4,524.5	4,619.5	4,563.5	16.4	15.9	142.09	-10.5	496.0	214.9	184.8	30.12	7.136	
4,700.0	4,621.5	4,719.5	4,661.2	16.9	16.4	142.96	-4.4	515.9	216.8	185.8	31.07	6.980	
4,800.0	4,718.5	4,819.4	4,758.9	17.3	16.8	143.82	1.6	535.7	218.8	186.8	32.03	6.833	
4,900.0	4,815.5	4,919.3	4,856.7	17.8	17.3	144.67	7.7	555.6	220.8	187.9	32.99	6.694	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
5,000.0	4,912.6	5,019.2	4,954.4	18.3	17.7	145.50	13.8	575.5	222.9	189.0	33.97	6.563	
5,100.0	5,009.6	5,119.2	5,052.2	18.7	18.2	146.31	19.8	595.3	225.0	190.1	34.95	6.440	
5,200.0	5,106.6	5,219.1	5,149.9	19.2	18.7	147.11	25.9	615.2	227.2	191.3	35.93	6.323	
5,300.0	5,203.7	5,318.0	5,246.7	19.7	19.1	147.90	31.9	634.8	229.5	192.6	36.92	6.216	
5,400.0	5,300.7	5,414.5	5,341.3	20.2	19.6	148.78	37.4	652.8	232.9	195.0	37.93	6.140	
5,500.0	5,397.7	5,510.7	5,436.0	20.6	20.0	149.82	42.4	669.2	237.9	199.0	38.95	6.109 SF	
5,600.0	5,494.7	5,606.7	5,530.7	21.1	20.4	150.97	47.0	684.0	244.5	204.5	39.97	6.117	
5,700.0	5,591.8	5,702.4	5,625.4	21.6	20.8	152.21	51.0	697.3	252.7	211.7	40.99	6.166	
5,800.0	5,688.8	5,797.8	5,720.0	22.1	21.2	153.50	54.6	709.1	262.6	220.6	42.00	6.253	
5,900.0	5,785.8	5,892.8	5,814.4	22.6	21.6	154.82	57.7	719.3	274.1	231.1	42.99	6.377	
6,000.0	5,882.9	5,987.4	5,908.5	23.0	22.0	156.13	60.4	727.9	287.4	243.4	43.94	6.539	
6,100.0	5,979.9	6,081.4	6,002.3	23.5	22.3	157.42	62.6	735.1	302.3	257.4	44.87	6.737	
6,200.0	6,076.9	6,174.9	6,095.6	24.0	22.7	158.68	64.3	740.7	318.9	273.1	45.75	6.970	
6,300.0	6,174.0	6,267.9	6,188.5	24.5	23.0	159.87	65.6	744.9	337.2	290.6	46.59	7.238	
6,400.0	6,271.0	6,360.2	6,280.8	25.0	23.2	161.01	66.4	747.6	357.2	309.8	47.36	7.541	
6,500.0	6,368.0	6,451.9	6,372.4	25.4	23.4	162.08	66.8	748.9	378.8	330.8	48.04	7.886	
6,600.0	6,465.0	6,546.5	6,467.0	25.9	23.5	163.11	66.8	749.0	401.8	353.1	48.66	8.258	
6,700.0	6,562.1	6,643.5	6,564.0	26.4	23.6	164.05	66.8	749.0	425.1	375.8	49.29	8.624	
6,800.0	6,659.1	6,740.5	6,661.1	26.9	23.6	164.90	66.8	749.0	448.4	398.5	49.89	8.987	
6,821.5	6,680.0	6,761.4	6,682.0	27.0	23.6	165.07	66.8	749.0	453.5	403.4	50.02	9.066	
6,900.0	6,756.4	6,837.8	6,758.3	27.4	23.6	165.72	66.8	749.0	470.9	420.4	50.49	9.327	
7,000.0	6,854.4	6,935.8	6,856.4	27.9	23.7	166.38	66.8	749.0	490.1	439.0	51.07	9.598	
7,100.0	6,953.0	7,034.5	6,955.0	28.3	23.7	166.89	66.8	749.0	506.1	454.4	51.62	9.804	
7,200.0	7,052.2	7,133.6	7,054.2	28.8	23.7	167.27	66.8	749.0	518.7	466.5	52.14	9.948	
7,300.0	7,151.7	7,233.2	7,153.7	29.2	23.8	167.54	66.8	749.0	527.9	475.3	52.62	10.033	
7,400.0	7,251.6	7,333.0	7,253.5	29.5	23.8	167.70	66.8	749.0	533.8	480.7	53.05	10.061	
7,500.0	7,351.5	7,433.0	7,353.5	29.8	23.9	167.77	66.8	749.0	536.2	482.8	53.40	10.041	
7,521.5	7,373.1	7,454.5	7,375.0	29.8	23.9	-115.23	66.8	749.0	536.3	482.8	53.43	10.036	
7,600.0	7,451.5	7,533.0	7,453.5	29.9	23.9	-115.23	66.8	749.0	536.3	482.8	53.48	10.027	
7,700.0	7,551.5	7,633.0	7,553.5	29.9	23.9	-115.23	66.8	749.0	536.3	482.7	53.55	10.014	
7,800.0	7,651.5	7,733.0	7,653.5	29.9	24.0	-115.23	66.8	749.0	536.3	482.7	53.62	10.001	
7,900.0	7,751.5	7,833.0	7,753.5	30.0	24.0	-115.23	66.8	749.0	536.3	482.6	53.69	9.988	
8,000.0	7,851.5	7,933.0	7,853.5	30.0	24.0	-115.23	66.8	749.0	536.3	482.5	53.76	9.975	
8,100.0	7,951.5	8,033.0	7,953.5	30.0	24.1	-115.23	66.8	749.0	536.3	482.4	53.83	9.962	
8,200.0	8,051.5	8,133.0	8,053.5	30.0	24.1	-115.23	66.8	749.0	536.3	482.4	53.90	9.949	
8,300.0	8,151.5	8,233.0	8,153.5	30.1	24.2	-115.23	66.8	749.0	536.3	482.3	53.97	9.936	
8,400.0	8,251.5	8,333.0	8,253.5	30.1	24.2	-115.23	66.8	749.0	536.3	482.2	54.04	9.923	
8,500.0	8,351.5	8,433.0	8,353.5	30.1	24.2	-115.23	66.8	749.0	536.3	482.2	54.11	9.910	
8,600.0	8,451.5	8,533.0	8,453.5	30.2	24.3	-115.23	66.8	749.0	536.3	482.1	54.19	9.897	
8,700.0	8,551.5	8,633.0	8,553.5	30.2	24.3	-115.23	66.8	749.0	536.3	482.0	54.26	9.884	
8,800.0	8,651.5	8,733.0	8,653.5	30.2	24.4	-115.23	66.8	749.0	536.3	481.9	54.33	9.870	
8,900.0	8,751.5	8,833.0	8,753.5	30.3	24.4	-115.23	66.8	749.0	536.3	481.9	54.40	9.857	
9,000.0	8,851.5	8,933.0	8,853.5	30.3	24.4	-115.23	66.8	749.0	536.3	481.8	54.48	9.844	
9,100.0	8,951.5	9,033.0	8,953.5	30.3	24.5	-115.23	66.8	749.0	536.3	481.7	54.55	9.831	
9,200.0	9,051.5	9,133.0	9,053.5	30.4	24.5	-115.23	66.8	749.0	536.3	481.6	54.63	9.817	
9,300.0	9,151.5	9,233.0	9,153.5	30.4	24.6	-115.23	66.8	749.0	536.3	481.6	54.70	9.804	
9,400.0	9,251.5	9,333.0	9,253.5	30.4	24.6	-115.23	66.8	749.0	536.3	481.5	54.78	9.790	
9,500.0	9,351.5	9,433.0	9,353.5	30.5	24.7	-115.23	66.8	749.0	536.3	481.4	54.85	9.777	
9,600.0	9,451.5	9,533.0	9,453.5	30.5	24.7	-115.23	66.8	749.0	536.3	481.3	54.93	9.763	
9,700.0	9,551.5	9,633.0	9,553.5	30.5	24.7	-115.23	66.8	749.0	536.3	481.3	55.00	9.750	
9,800.0	9,651.5	9,733.0	9,653.5	30.6	24.8	-115.23	66.8	749.0	536.3	481.2	55.08	9.736	
9,900.0	9,751.5	9,833.0	9,753.5	30.6	24.8	-115.23	66.8	749.0	536.3	481.1	55.16	9.723	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
10,000.0	9,851.5	9,933.0	9,853.5	30.6	24.9	-115.23	66.8	749.0	536.3	481.0	55.23	9.709	
10,100.0	9,951.5	10,033.0	9,953.5	30.7	24.9	-115.23	66.8	749.0	536.3	481.0	55.31	9.695	
10,200.0	10,051.5	10,133.0	10,053.5	30.7	25.0	-115.23	66.8	749.0	536.3	480.9	55.39	9.682	
10,300.0	10,151.5	10,233.0	10,153.5	30.7	25.0	-115.23	66.8	749.0	536.3	480.8	55.47	9.668	
10,400.0	10,251.5	10,333.0	10,253.5	30.8	25.0	-115.23	66.8	749.0	536.3	480.7	55.55	9.654	
10,500.0	10,351.5	10,433.0	10,353.5	30.8	25.1	-115.23	66.8	749.0	536.3	480.6	55.63	9.641	
10,600.0	10,451.5	10,533.0	10,453.5	30.8	25.1	-115.23	66.8	749.0	536.3	480.6	55.71	9.627	
10,700.0	10,551.5	10,633.0	10,553.5	30.9	25.2	-115.23	66.8	749.0	536.3	480.5	55.79	9.613	
10,800.0	10,651.5	10,733.0	10,653.5	30.9	25.2	-115.23	66.8	749.0	536.3	480.4	55.87	9.599	
10,900.0	10,751.5	10,833.0	10,753.5	31.0	25.3	-115.23	66.8	749.0	536.3	480.3	55.95	9.586	
11,000.0	10,851.5	10,933.0	10,853.5	31.0	25.3	-115.23	66.8	749.0	536.3	480.2	56.03	9.572	
11,100.0	10,951.5	11,033.0	10,953.5	31.0	25.4	-115.23	66.8	749.0	536.3	480.2	56.11	9.558	
11,200.0	11,051.5	11,133.0	11,053.5	31.1	25.4	-115.23	66.8	749.0	536.3	480.1	56.19	9.544	
11,279.5	11,131.0	11,212.5	11,133.0	31.1	25.4	-115.23	66.8	749.0	536.3	480.0	56.24	9.535	
11,300.0	11,151.5	11,232.9	11,153.5	31.1	25.4	-115.09	66.8	749.0	536.4	480.2	56.25	9.537	
11,350.0	11,201.3	11,282.8	11,203.3	31.1	25.5	-115.32	66.8	749.0	538.1	481.9	56.25	9.566	
11,400.0	11,250.6	11,332.1	11,252.6	31.1	25.5	-115.78	66.8	749.0	541.7	485.5	56.22	9.636	
11,450.0	11,299.0	11,380.4	11,301.0	31.1	25.5	-116.42	66.8	749.0	547.4	491.3	56.14	9.751	
11,500.0	11,346.1	11,414.5	11,335.0	31.1	25.5	-116.78	66.1	749.0	555.8	500.0	55.80	9.961	
11,550.0	11,391.6	11,450.0	11,370.4	31.1	25.5	-117.31	63.3	749.0	568.0	512.5	55.43	10.247	
11,600.0	11,435.1	11,470.0	11,390.2	31.1	25.5	-116.95	60.8	749.0	583.9	529.1	54.78	10.659	
11,650.0	11,476.2	11,500.0	11,419.8	31.1	25.5	-117.00	55.6	749.1	603.9	549.7	54.23	11.136	
11,700.0	11,514.8	11,511.5	11,431.0	31.2	25.5	-115.43	53.2	749.1	627.7	574.3	53.43	11.748	
11,750.0	11,550.4	11,526.9	11,446.0	31.2	25.5	-113.69	49.7	749.1	655.3	602.6	52.70	12.436	
11,800.0	11,582.8	11,550.0	11,468.3	31.2	25.5	-112.16	43.7	749.1	686.5	634.4	52.06	13.188	
11,850.0	11,611.8	11,550.0	11,468.3	31.2	25.5	-107.84	43.7	749.1	720.3	669.1	51.24	14.057	
11,900.0	11,637.2	11,550.0	11,468.3	31.2	25.5	-102.67	43.7	749.1	756.9	706.4	50.51	14.985	
11,950.0	11,658.6	11,550.0	11,468.3	31.3	25.5	-96.68	43.7	749.1	795.5	745.6	49.84	15.959	
12,000.0	11,676.1	11,550.0	11,468.3	31.3	25.5	-89.98	43.7	749.1	835.6	786.3	49.25	16.965	
12,050.0	11,689.4	11,550.0	11,468.3	31.3	25.5	-82.77	43.7	749.1	876.7	828.0	48.72	17.994	
12,100.0	11,698.5	11,550.0	11,468.3	31.4	25.5	-75.35	43.7	749.1	918.4	870.1	48.25	19.035	
12,150.0	11,703.2	11,550.0	11,468.3	31.4	25.5	-68.05	43.7	749.1	960.3	912.5	47.83	20.079	
12,179.5	11,704.0	11,550.0	11,468.3	31.4	25.5	-63.93	43.7	749.1	985.0	937.4	47.60	20.696	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	3.5	3.5	3.0	3.0	179.73	-200.0	1.0	200.0				
100.0	100.0	103.5	103.5	3.0	3.1	179.73	-200.0	1.0	200.0	193.5	6.53	30.656	
200.0	200.0	203.5	203.5	3.2	3.2	179.73	-200.0	1.0	200.0	193.3	6.78	29.524	
300.0	300.0	303.5	303.5	3.3	3.3	179.73	-200.0	1.0	200.0	193.0	7.02	28.484	
400.0	400.0	403.5	403.5	3.4	3.4	179.73	-200.0	1.0	200.0	192.8	7.27	27.522	
500.0	500.0	503.5	503.5	3.5	3.6	179.73	-200.0	1.0	200.0	192.5	7.51	26.629	
600.0	600.0	603.5	603.5	3.7	3.7	179.73	-200.0	1.0	200.0	192.3	7.75	25.797	
700.0	700.0	703.5	703.5	3.8	3.8	179.73	-200.0	1.0	200.0	192.0	8.00	25.019	
800.0	800.0	803.5	803.5	3.9	3.9	179.73	-200.0	1.0	200.0	191.8	8.24	24.291	
900.0	900.0	903.5	903.5	4.0	4.0	179.73	-200.0	1.0	200.0	191.6	8.47	23.607	
1,000.0	1,000.0	1,003.5	1,003.5	4.2	4.2	179.73	-200.0	1.0	200.0	191.3	8.71	22.963	
1,100.0	1,100.0	1,103.5	1,103.5	4.3	4.3	179.73	-200.0	1.0	200.0	191.1	8.95	22.356	
1,200.0	1,200.0	1,203.5	1,203.5	4.4	4.4	179.73	-200.0	1.0	200.0	190.9	9.18	21.782	
1,300.0	1,300.0	1,303.5	1,303.5	4.5	4.5	179.73	-200.0	1.0	200.0	190.6	9.42	21.238	
1,400.0	1,400.0	1,403.5	1,403.5	4.6	4.6	179.73	-200.0	1.0	200.0	190.4	9.65	20.723	
1,500.0	1,500.0	1,503.6	1,503.6	4.8	4.8	179.72	-200.0	1.0	200.0	190.2	9.89	20.233	
1,600.0	1,600.0	1,606.3	1,606.3	4.9	4.9	119.69	-199.3	2.2	200.0	189.9	10.10	19.794	
1,700.0	1,699.9	1,709.0	1,708.9	5.0	5.0	119.64	-197.2	5.9	199.9	189.5	10.43	19.168	
1,800.0	1,799.7	1,811.6	1,811.3	5.2	5.2	119.58	-193.7	12.0	199.7	189.0	10.76	18.570	
1,833.3	1,832.9	1,845.8	1,845.4	5.2	5.3	119.55	-192.2	14.5	199.7	188.9	10.83	18.438	
1,900.0	1,899.3	1,914.3	1,913.4	5.3	5.5	114.23	-188.8	20.4	199.3	188.3	11.01	18.099	
2,000.0	1,998.5	2,016.9	2,015.3	5.6	5.7	109.65	-182.6	31.2	197.9	186.6	11.34	17.449	
2,100.0	2,097.2	2,116.4	2,113.7	5.9	5.9	107.18	-175.9	44.3	196.0	184.4	11.65	16.834	
2,200.0	2,195.3	2,215.4	2,211.2	6.3	6.3	105.72	-169.7	60.8	195.0	182.9	12.01	16.228	
2,282.9	2,276.2	2,297.6	2,291.6	6.6	6.5	104.95	-165.0	76.9	194.7	182.4	12.32	15.796 CC	
2,299.9	2,292.7	2,314.4	2,308.0	6.7	6.6	104.83	-164.1	80.5	194.7	182.3	12.38	15.722	
2,400.0	2,389.8	2,414.0	2,404.8	7.0	6.9	104.99	-159.0	103.4	195.0	182.3	12.71	15.340	
2,500.0	2,486.8	2,514.0	2,501.8	7.3	7.3	104.96	-154.0	127.1	195.4	182.3	13.10	14.918	
2,600.0	2,583.9	2,614.0	2,598.8	7.7	7.6	104.93	-148.9	150.8	195.8	182.3	13.49	14.516	
2,700.0	2,680.9	2,714.0	2,695.9	8.1	8.0	104.90	-143.9	174.4	196.2	182.4	13.89	14.125	
2,800.0	2,777.9	2,814.0	2,792.9	8.5	8.4	104.87	-138.9	198.1	196.7	182.4	14.31	13.746	
2,900.0	2,875.0	2,914.0	2,889.9	8.8	8.8	104.84	-133.8	221.8	197.1	182.3	14.73	13.381	
3,000.0	2,972.0	3,014.0	2,986.9	9.3	9.2	104.81	-128.8	245.4	197.5	182.3	15.16	13.028	
3,100.0	3,069.0	3,114.0	3,084.0	9.7	9.6	104.78	-123.8	269.1	197.9	182.3	15.59	12.689	
3,200.0	3,166.0	3,214.0	3,181.0	10.1	10.0	104.75	-118.7	292.7	198.3	182.3	16.04	12.364	
3,300.0	3,263.1	3,314.0	3,278.0	10.5	10.4	104.72	-113.7	316.4	198.7	182.2	16.49	12.051	
3,400.0	3,360.1	3,414.0	3,375.1	10.9	10.9	104.69	-108.7	340.1	199.1	182.2	16.94	11.751	
3,500.0	3,457.1	3,514.0	3,472.1	11.4	11.3	104.66	-103.7	363.7	199.5	182.1	17.41	11.463	
3,600.0	3,554.2	3,614.0	3,569.1	11.8	11.8	104.63	-98.6	387.4	199.9	182.1	17.87	11.187	
3,700.0	3,651.2	3,714.0	3,666.1	12.3	12.2	104.60	-93.6	411.1	200.3	182.0	18.34	10.923	
3,800.0	3,748.2	3,814.0	3,763.2	12.7	12.7	104.57	-88.6	434.7	200.8	181.9	18.82	10.669	
3,900.0	3,845.2	3,914.0	3,860.2	13.2	13.1	104.54	-83.5	458.4	201.2	181.9	19.29	10.426	
4,000.0	3,942.3	4,014.0	3,957.2	13.6	13.6	104.51	-78.5	482.1	201.6	181.8	19.77	10.193	
4,100.0	4,039.3	4,114.0	4,054.3	14.1	14.0	104.48	-73.5	505.7	202.0	181.7	20.26	9.970	
4,200.0	4,136.3	4,214.0	4,151.3	14.5	14.5	104.45	-68.4	529.4	202.4	181.6	20.75	9.755	
4,300.0	4,233.4	4,314.0	4,248.3	15.0	14.9	104.42	-63.4	553.0	202.8	181.6	21.24	9.550	
4,400.0	4,330.4	4,414.0	4,345.3	15.5	15.4	104.39	-58.4	576.7	203.2	181.5	21.73	9.352	
4,500.0	4,427.4	4,514.0	4,442.4	15.9	15.9	104.37	-53.4	600.4	203.6	181.4	22.22	9.163	
4,600.0	4,524.5	4,614.0	4,539.4	16.4	16.3	104.34	-48.3	624.0	204.0	181.3	22.72	8.980	
4,700.0	4,621.5	4,714.0	4,636.4	16.9	16.8	104.31	-43.3	647.7	204.4	181.2	23.22	8.805	
4,800.0	4,718.5	4,814.0	4,733.5	17.3	17.3	104.28	-38.3	671.4	204.8	181.1	23.72	8.637	
4,900.0	4,815.5	4,914.0	4,830.5	17.8	17.8	104.25	-33.2	695.0	205.3	181.0	24.22	8.475	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
5,000.0	4,912.6	5,014.0	4,927.5	18.3	18.2	104.23	-28.2	718.7	205.7	180.9	24.72	8.319	
5,100.0	5,009.6	5,114.0	5,024.5	18.7	18.7	104.20	-23.2	742.3	206.1	180.9	25.23	8.169	
5,200.0	5,106.6	5,214.0	5,121.6	19.2	19.2	104.17	-18.1	766.0	206.5	180.8	25.73	8.024	
5,300.0	5,203.7	5,314.0	5,218.6	19.7	19.6	104.14	-13.1	789.7	206.9	180.7	26.24	7.885	
5,400.0	5,300.7	5,414.0	5,315.6	20.2	20.1	104.11	-8.1	813.3	207.3	180.6	26.75	7.750	
5,500.0	5,397.7	5,514.0	5,412.7	20.6	20.6	104.09	-3.1	837.0	207.7	180.5	27.26	7.620	
5,600.0	5,494.7	5,614.0	5,509.7	21.1	21.1	104.06	2.0	860.7	208.1	180.4	27.77	7.495	
5,700.0	5,591.8	5,714.0	5,606.7	21.6	21.6	104.03	7.0	884.3	208.5	180.3	28.28	7.374	
5,800.0	5,688.8	5,814.0	5,703.7	22.1	22.0	104.01	12.0	908.0	209.0	180.2	28.79	7.257	
5,900.0	5,785.8	5,914.0	5,800.8	22.6	22.5	103.98	17.1	931.7	209.4	180.1	29.31	7.144	
6,000.0	5,882.9	6,014.0	5,897.8	23.0	23.0	103.95	22.1	955.3	209.8	180.0	29.82	7.035	
6,100.0	5,979.9	6,114.0	5,994.8	23.5	23.5	103.92	27.1	979.0	210.2	179.9	30.33	6.929	
6,200.0	6,076.9	6,214.0	6,091.9	24.0	24.0	103.90	32.2	1,002.6	210.6	179.7	30.85	6.827	
6,300.0	6,174.0	6,314.0	6,188.9	24.5	24.4	103.87	37.2	1,026.3	211.0	179.6	31.36	6.728	
6,400.0	6,271.0	6,414.0	6,285.9	25.0	24.9	103.84	42.2	1,050.0	211.4	179.5	31.88	6.632	
6,500.0	6,368.0	6,514.0	6,383.0	25.4	25.4	103.82	47.2	1,073.6	211.8	179.4	32.39	6.539	
6,600.0	6,465.0	6,613.4	6,479.5	25.9	25.9	103.85	52.2	1,096.9	212.3	179.4	32.91	6.451 ES	
6,700.0	6,562.1	6,711.7	6,575.5	26.4	26.4	104.58	56.6	1,117.4	213.4	179.8	33.61	6.348	
6,800.0	6,659.1	6,809.6	6,671.9	26.9	26.8	106.17	60.2	1,134.7	215.4	180.8	34.55	6.234	
6,821.5	6,680.0	6,830.7	6,692.6	27.0	26.9	106.62	60.9	1,137.9	215.9	181.2	34.78	6.209	
6,900.0	6,756.4	6,907.2	6,768.4	27.4	27.3	108.34	63.2	1,148.6	218.2	182.5	35.66	6.119	
7,000.0	6,854.4	7,004.4	6,865.0	27.9	27.7	110.46	65.4	1,159.2	221.3	184.5	36.79	6.016	
7,100.0	6,953.0	7,101.4	6,961.7	28.3	28.1	112.51	67.0	1,166.7	224.6	186.7	37.88	5.929	
7,200.0	7,052.2	7,198.1	7,058.3	28.8	28.4	114.47	67.9	1,170.9	228.0	189.1	38.92	5.859	
7,300.0	7,151.7	7,295.1	7,155.3	29.2	28.5	116.35	68.1	1,172.0	231.6	191.8	39.87	5.810	
7,400.0	7,251.6	7,394.9	7,255.1	29.5	28.5	117.71	68.1	1,172.0	234.4	193.7	40.64	5.768	
7,500.0	7,351.5	7,494.9	7,355.1	29.8	28.6	118.27	68.1	1,172.0	235.5	194.5	41.05	5.737	
7,521.5	7,373.1	7,516.4	7,376.6	29.8	28.6	-164.71	68.1	1,172.0	235.6	194.5	41.08	5.734	
7,600.0	7,451.5	7,594.9	7,455.1	29.9	28.6	-164.71	68.1	1,172.0	235.6	194.4	41.15	5.724	
7,700.0	7,551.5	7,694.9	7,555.1	29.9	28.6	-164.71	68.1	1,172.0	235.6	194.3	41.25	5.711	
7,800.0	7,651.5	7,794.9	7,655.1	29.9	28.7	-164.71	68.1	1,172.0	235.6	194.2	41.35	5.698	
7,900.0	7,751.5	7,894.9	7,755.1	30.0	28.7	-164.71	68.1	1,172.0	235.6	194.1	41.44	5.684	
8,000.0	7,851.5	7,994.9	7,855.1	30.0	28.7	-164.71	68.1	1,172.0	235.6	194.0	41.54	5.671	
8,100.0	7,951.5	8,094.9	7,955.1	30.0	28.8	-164.71	68.1	1,172.0	235.6	193.9	41.64	5.658	
8,200.0	8,051.5	8,194.9	8,055.1	30.0	28.8	-164.71	68.1	1,172.0	235.6	193.8	41.74	5.644	
8,300.0	8,151.5	8,294.9	8,155.1	30.1	28.8	-164.71	68.1	1,172.0	235.6	193.7	41.84	5.631	
8,400.0	8,251.5	8,394.9	8,255.1	30.1	28.8	-164.71	68.1	1,172.0	235.6	193.6	41.94	5.618	
8,500.0	8,351.5	8,494.9	8,355.1	30.1	28.9	-164.71	68.1	1,172.0	235.6	193.5	42.04	5.604	
8,600.0	8,451.5	8,594.9	8,455.1	30.2	28.9	-164.71	68.1	1,172.0	235.6	193.4	42.14	5.591	
8,700.0	8,551.5	8,694.9	8,555.1	30.2	28.9	-164.71	68.1	1,172.0	235.6	193.3	42.24	5.578	
8,800.0	8,651.5	8,794.9	8,655.1	30.2	29.0	-164.71	68.1	1,172.0	235.6	193.2	42.34	5.564	
8,900.0	8,751.5	8,894.9	8,755.1	30.3	29.0	-164.71	68.1	1,172.0	235.6	193.1	42.44	5.551	
9,000.0	8,851.5	8,994.9	8,855.1	30.3	29.0	-164.71	68.1	1,172.0	235.6	193.0	42.54	5.538	
9,100.0	8,951.5	9,094.9	8,955.1	30.3	29.1	-164.71	68.1	1,172.0	235.6	192.9	42.64	5.525	
9,200.0	9,051.5	9,194.9	9,055.1	30.4	29.1	-164.71	68.1	1,172.0	235.6	192.8	42.74	5.511	
9,300.0	9,151.5	9,294.9	9,155.1	30.4	29.1	-164.71	68.1	1,172.0	235.6	192.7	42.85	5.498	
9,400.0	9,251.5	9,394.9	9,255.1	30.4	29.2	-164.71	68.1	1,172.0	235.6	192.6	42.95	5.485	
9,500.0	9,351.5	9,494.9	9,355.1	30.5	29.2	-164.71	68.1	1,172.0	235.6	192.5	43.05	5.472	
9,600.0	9,451.5	9,594.9	9,455.1	30.5	29.2	-164.71	68.1	1,172.0	235.6	192.4	43.16	5.459	
9,700.0	9,551.5	9,694.9	9,555.1	30.5	29.3	-164.71	68.1	1,172.0	235.6	192.3	43.26	5.446	
9,800.0	9,651.5	9,794.9	9,655.1	30.6	29.3	-164.71	68.1	1,172.0	235.6	192.2	43.36	5.433	
9,900.0	9,751.5	9,894.9	9,755.1	30.6	29.3	-164.71	68.1	1,172.0	235.6	192.1	43.47	5.419	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
10,000.0	9,851.5	9,994.9	9,855.1	30.6	29.4	-164.71	68.1	1,172.0	235.6	192.0	43.57	5.406	
10,100.0	9,951.5	10,094.9	9,955.1	30.7	29.4	-164.71	68.1	1,172.0	235.6	191.9	43.68	5.393	
10,200.0	10,051.5	10,194.9	10,055.1	30.7	29.4	-164.71	68.1	1,172.0	235.6	191.8	43.79	5.380	
10,300.0	10,151.5	10,294.9	10,155.1	30.7	29.5	-164.71	68.1	1,172.0	235.6	191.7	43.89	5.367	
10,400.0	10,251.5	10,394.9	10,255.1	30.8	29.5	-164.71	68.1	1,172.0	235.6	191.6	44.00	5.354	
10,500.0	10,351.5	10,494.9	10,355.1	30.8	29.5	-164.71	68.1	1,172.0	235.6	191.5	44.10	5.341	
10,600.0	10,451.5	10,594.9	10,455.1	30.8	29.6	-164.71	68.1	1,172.0	235.6	191.4	44.21	5.328	
10,700.0	10,551.5	10,694.9	10,555.1	30.9	29.6	-164.71	68.1	1,172.0	235.6	191.3	44.32	5.315	
10,800.0	10,651.5	10,794.9	10,655.1	30.9	29.6	-164.71	68.1	1,172.0	235.6	191.2	44.43	5.303	
10,900.0	10,751.5	10,894.9	10,755.1	31.0	29.7	-164.71	68.1	1,172.0	235.6	191.0	44.54	5.290	
11,000.0	10,851.5	10,994.9	10,855.1	31.0	29.7	-164.71	68.1	1,172.0	235.6	190.9	44.64	5.277	
11,100.0	10,951.5	11,094.9	10,955.1	31.0	29.8	-164.71	68.1	1,172.0	235.6	190.8	44.75	5.264	
11,200.0	11,051.5	11,194.9	11,055.1	31.1	29.8	-164.71	68.1	1,172.0	235.6	190.7	44.86	5.251	
11,208.7	11,060.2	11,203.6	11,063.8	31.1	29.8	-164.71	68.1	1,172.0	235.6	190.7	44.87	5.250	
11,279.5	11,131.0	11,273.9	11,134.0	31.1	29.8	-164.71	68.1	1,172.0	235.6	190.7	44.91	5.246	SF
11,300.0	11,151.5	11,288.9	11,149.1	31.1	29.8	-164.57	68.0	1,172.0	236.2	191.4	44.75	5.278	
11,350.0	11,201.3	11,324.2	11,184.3	31.1	29.8	-164.71	65.9	1,172.0	242.8	198.5	44.28	5.482	
11,400.0	11,250.6	11,358.0	11,217.9	31.1	29.8	-164.93	62.0	1,172.0	256.3	212.6	43.76	5.857	
11,450.0	11,299.0	11,389.3	11,248.7	31.1	29.8	-165.15	56.6	1,172.1	276.5	233.2	43.25	6.392	
11,500.0	11,346.1	11,417.6	11,276.2	31.1	29.8	-165.27	50.2	1,172.1	302.7	259.9	42.82	7.069	
11,550.0	11,391.6	11,450.0	11,307.4	31.1	29.8	-165.50	41.3	1,172.2	334.4	291.9	42.54	7.862	
11,600.0	11,435.1	11,463.4	11,320.1	31.1	29.8	-164.77	37.1	1,172.2	370.5	328.3	42.26	8.768	
11,650.0	11,476.2	11,480.8	11,336.5	31.1	29.8	-163.89	31.2	1,172.2	410.6	368.5	42.12	9.750	
11,700.0	11,514.8	11,500.0	11,354.3	31.2	29.9	-162.71	24.1	1,172.3	453.9	411.9	42.03	10.799	
11,750.0	11,550.4	11,500.0	11,354.3	31.2	29.9	-159.01	24.1	1,172.3	499.6	457.6	42.02	11.889	
11,800.0	11,582.8	11,513.0	11,366.2	31.2	29.9	-154.65	19.0	1,172.3	547.0	505.0	42.00	13.024	
11,850.0	11,611.8	11,517.9	11,370.7	31.2	29.9	-144.67	17.0	1,172.3	595.7	553.7	42.00	14.183	
11,900.0	11,637.2	11,520.4	11,373.0	31.2	29.9	-120.69	15.9	1,172.3	645.2	603.2	42.01	15.359	
11,950.0	11,658.6	11,520.7	11,373.3	31.3	29.9	-71.63	15.8	1,172.3	694.9	652.9	42.01	16.544	
12,000.0	11,676.1	11,519.1	11,371.8	31.3	29.9	-36.42	16.5	1,172.3	744.6	702.6	42.00	17.730	
12,050.0	11,689.4	11,515.8	11,368.8	31.3	29.9	-22.09	17.8	1,172.3	793.8	751.8	41.98	18.911	
12,100.0	11,698.5	11,500.0	11,354.3	31.4	29.9	-14.69	24.1	1,172.3	842.5	800.5	41.98	20.068	
12,150.0	11,703.2	11,500.0	11,354.3	31.4	29.9	-11.41	24.1	1,172.3	889.7	847.8	41.92	21.226	
12,179.5	11,704.0	11,500.0	11,354.3	31.4	29.9	-10.04	24.1	1,172.3	917.1	875.3	41.87	21.903	
12,200.0	11,704.0	11,500.0	11,354.3	31.5	29.9	-10.04	24.1	1,172.3	936.0	894.2	41.84	22.371	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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	2.7	2.7	3.0	3.0	171.20	-200.2	31.0	202.6				
100.0	100.0	102.7	102.7	3.0	3.0	171.20	-200.2	31.0	202.6	196.1	6.52	31.056	
200.0	200.0	202.7	202.7	3.2	3.2	171.20	-200.2	31.0	202.6	195.9	6.77	29.911	
300.0	300.0	302.7	302.7	3.3	3.3	171.20	-200.2	31.0	202.6	195.6	7.02	28.859	
400.0	400.0	402.7	402.7	3.4	3.4	171.20	-200.2	31.0	202.6	195.4	7.27	27.886	
500.0	500.0	502.7	502.7	3.5	3.6	171.20	-200.2	31.0	202.6	195.1	7.51	26.983	
600.0	600.0	602.7	602.7	3.7	3.7	171.20	-200.2	31.0	202.6	194.9	7.75	26.142	
700.0	700.0	702.7	702.7	3.8	3.8	171.20	-200.2	31.0	202.6	194.6	7.99	25.357	
800.0	800.0	802.7	802.7	3.9	3.9	171.20	-200.2	31.0	202.6	194.4	8.23	24.621	
900.0	900.0	902.7	902.7	4.0	4.0	171.20	-200.2	31.0	202.6	194.2	8.47	23.930	
1,000.0	1,000.0	1,002.7	1,002.7	4.2	4.2	171.20	-200.2	31.0	202.6	193.9	8.70	23.280	
1,100.0	1,100.0	1,102.7	1,102.7	4.3	4.3	171.20	-200.2	31.0	202.6	193.7	8.94	22.667	
1,200.0	1,200.0	1,202.7	1,202.7	4.4	4.4	171.20	-200.2	31.0	202.6	193.5	9.17	22.087	
1,300.0	1,300.0	1,302.7	1,302.7	4.5	4.5	171.20	-200.2	31.0	202.6	193.2	9.41	21.538	
1,400.0	1,400.0	1,402.7	1,402.7	4.6	4.6	171.20	-200.2	31.0	202.6	193.0	9.64	21.018	
1,465.7	1,465.7	1,468.4	1,468.4	4.7	4.7	171.20	-200.2	31.0	202.6	192.8	9.79	20.691	CC
1,500.0	1,500.0	1,502.7	1,502.7	4.8	4.8	171.20	-200.2	31.0	202.6	192.8	9.87	20.524	ES
1,600.0	1,600.0	1,602.6	1,602.6	4.9	4.9	111.02	-200.0	32.8	203.1	193.1	10.07	20.176	
1,700.0	1,699.9	1,702.4	1,702.3	5.0	5.0	110.53	-199.2	38.1	204.6	194.3	10.37	19.736	
1,800.0	1,799.7	1,802.1	1,801.6	5.2	5.3	109.76	-198.0	46.8	207.2	196.5	10.66	19.426	
1,833.3	1,832.9	1,835.3	1,834.6	5.2	5.3	109.44	-197.5	50.4	208.2	197.5	10.73	19.413	
1,900.0	1,899.3	1,901.7	1,900.4	5.3	5.6	103.42	-196.3	58.9	210.5	199.6	10.88	19.341	
2,000.0	1,998.5	2,001.1	1,998.6	5.6	5.9	97.52	-194.2	74.3	213.7	202.5	11.17	19.123	
2,100.0	2,097.2	2,100.4	2,096.0	5.9	6.2	93.54	-191.5	93.1	216.7	205.2	11.47	18.896	
2,200.0	2,195.3	2,200.0	2,193.1	6.3	6.6	90.57	-188.4	115.3	219.5	207.7	11.77	18.648	
2,299.9	2,292.7	2,299.1	2,288.8	6.7	6.9	88.31	-184.9	140.2	222.1	210.0	12.02	18.474	
2,400.0	2,389.8	2,399.1	2,385.5	7.0	7.2	87.91	-181.3	165.9	224.4	212.0	12.36	18.151	
2,500.0	2,486.8	2,499.1	2,482.0	7.3	7.5	87.51	-177.7	191.5	226.7	214.0	12.72	17.826	
2,600.0	2,583.9	2,599.0	2,578.6	7.7	7.9	87.12	-174.1	217.1	229.0	215.9	13.09	17.503	
2,700.0	2,680.9	2,699.0	2,675.2	8.1	8.3	86.74	-170.5	242.8	231.4	217.9	13.47	17.182	
2,800.0	2,777.9	2,799.0	2,771.7	8.5	8.7	86.37	-166.9	268.4	233.7	219.9	13.86	16.865	
2,900.0	2,875.0	2,898.9	2,868.3	8.8	9.1	86.01	-163.3	294.0	236.1	221.8	14.26	16.554	
3,000.0	2,972.0	2,998.9	2,964.8	9.3	9.5	85.65	-159.7	319.6	238.4	223.8	14.67	16.250	
3,100.0	3,069.0	3,098.8	3,061.4	9.7	9.9	85.30	-156.1	345.2	240.8	225.7	15.10	15.953	
3,200.0	3,166.0	3,198.8	3,157.9	10.1	10.3	84.95	-152.5	370.9	243.2	227.7	15.53	15.663	
3,300.0	3,263.1	3,298.8	3,254.5	10.5	10.8	84.62	-148.9	396.5	245.6	229.6	15.97	15.382	
3,400.0	3,360.1	3,398.7	3,351.0	10.9	11.2	84.29	-145.3	422.1	248.0	231.6	16.42	15.109	
3,500.0	3,457.1	3,498.7	3,447.6	11.4	11.7	83.96	-141.7	447.7	250.4	233.6	16.87	14.844	
3,600.0	3,554.2	3,598.6	3,544.1	11.8	12.1	83.64	-138.1	473.3	252.8	235.5	17.33	14.587	
3,700.0	3,651.2	3,698.6	3,640.7	12.3	12.6	83.33	-134.5	499.0	255.3	237.5	17.80	14.338	
3,800.0	3,748.2	3,798.6	3,737.3	12.7	13.0	83.03	-130.9	524.6	257.7	239.4	18.28	14.098	
3,900.0	3,845.2	3,898.5	3,833.8	13.2	13.5	82.73	-127.3	550.2	260.2	241.4	18.76	13.865	
4,000.0	3,942.3	3,998.5	3,930.4	13.6	13.9	82.43	-123.7	575.8	262.6	243.4	19.25	13.640	
4,100.0	4,039.3	4,098.4	4,026.9	14.1	14.4	82.14	-120.1	601.4	265.1	245.3	19.75	13.423	
4,200.0	4,136.3	4,198.4	4,123.5	14.5	14.9	81.86	-116.5	627.1	267.5	247.3	20.25	13.213	
4,300.0	4,233.4	4,298.4	4,220.0	15.0	15.3	81.58	-112.9	652.7	270.0	249.2	20.75	13.010	
4,400.0	4,330.4	4,398.3	4,316.6	15.5	15.8	81.31	-109.3	678.3	272.5	251.2	21.26	12.814	
4,500.0	4,427.4	4,498.3	4,413.1	15.9	16.3	81.04	-105.7	703.9	275.0	253.2	21.78	12.624	
4,600.0	4,524.5	4,598.3	4,509.7	16.4	16.7	80.77	-102.1	729.5	277.4	255.1	22.30	12.441	
4,700.0	4,621.5	4,698.2	4,606.3	16.9	17.2	80.51	-98.5	755.2	279.9	257.1	22.83	12.264	
4,800.0	4,718.5	4,798.2	4,702.8	17.3	17.7	80.26	-94.9	780.8	282.4	259.1	23.36	12.093	
4,900.0	4,815.5	4,898.1	4,799.4	17.8	18.2	80.01	-91.3	806.4	284.9	261.1	23.89	11.927	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
5,000.0	4,912.6	4,998.1	4,895.9	18.3	18.6	79.76	-87.7	832.0	287.5	263.0	24.43	11.767	
5,100.0	5,009.6	5,098.1	4,992.5	18.7	19.1	79.52	-84.1	857.6	290.0	265.0	24.97	11.612	
5,200.0	5,106.6	5,198.0	5,089.0	19.2	19.6	79.28	-80.5	883.3	292.5	267.0	25.52	11.462	
5,300.0	5,203.7	5,298.0	5,185.6	19.7	20.1	79.05	-76.9	908.9	295.0	268.9	26.07	11.317	
5,400.0	5,300.7	5,397.9	5,282.1	20.2	20.6	78.82	-73.3	934.5	297.5	270.9	26.62	11.176	
5,500.0	5,397.7	5,497.9	5,378.7	20.6	21.0	78.60	-69.7	960.1	300.1	272.9	27.18	11.040	
5,600.0	5,494.7	5,597.9	5,475.2	21.1	21.5	78.37	-66.1	985.7	302.6	274.9	27.74	10.909	
5,700.0	5,591.8	5,697.8	5,571.8	21.6	22.0	78.16	-62.5	1,011.4	305.2	276.9	28.31	10.781	
5,800.0	5,688.8	5,797.8	5,668.4	22.1	22.5	77.94	-58.9	1,037.0	307.7	278.8	28.87	10.657	
5,900.0	5,785.8	5,897.7	5,764.9	22.6	23.0	77.73	-55.3	1,062.6	310.3	280.8	29.45	10.537	
6,000.0	5,882.9	5,997.7	5,861.5	23.0	23.5	77.52	-51.7	1,088.2	312.8	282.8	30.02	10.421	
6,100.0	5,979.9	6,097.7	5,958.0	23.5	24.0	77.32	-48.1	1,113.8	315.4	284.8	30.60	10.308	
6,200.0	6,076.9	6,197.6	6,054.6	24.0	24.4	77.12	-44.5	1,139.5	318.0	286.8	31.18	10.198	
6,300.0	6,174.0	6,297.6	6,151.1	24.5	24.9	76.92	-40.9	1,165.1	320.5	288.8	31.76	10.092	
6,400.0	6,271.0	6,397.5	6,247.7	25.0	25.4	76.73	-37.3	1,190.7	323.1	290.7	32.35	9.988	
6,500.0	6,368.0	6,497.5	6,344.2	25.4	25.9	76.54	-33.7	1,216.3	325.7	292.7	32.94	9.888	
6,600.0	6,465.0	6,597.5	6,440.8	25.9	26.4	76.35	-30.1	1,241.9	328.2	294.7	33.53	9.790	
6,700.0	6,562.1	6,697.4	6,537.3	26.4	26.9	76.16	-26.5	1,267.6	330.8	296.7	34.12	9.696	
6,800.0	6,659.1	6,797.4	6,633.9	26.9	27.4	75.98	-22.9	1,293.2	333.4	298.7	34.72	9.604	
6,821.5	6,680.0	6,818.9	6,654.7	27.0	27.5	75.94	-22.1	1,298.7	334.0	299.1	34.84	9.586	
6,900.0	6,756.4	6,897.3	6,730.4	27.4	27.9	75.67	-19.3	1,318.8	336.3	300.9	35.34	9.515	
7,000.0	6,854.4	6,997.1	6,826.8	27.9	28.4	74.83	-15.7	1,344.4	340.0	303.9	36.11	9.416	
7,100.0	6,953.0	7,097.0	6,923.3	28.3	28.8	73.49	-12.1	1,369.9	344.8	307.8	37.03	9.313	
7,200.0	7,052.2	7,198.6	7,021.7	28.8	29.3	71.79	-8.6	1,394.8	350.5	312.4	38.09	9.202	
7,300.0	7,151.7	7,300.2	7,120.6	29.2	29.8	69.90	-5.3	1,418.0	356.9	317.7	39.24	9.095	
7,400.0	7,251.6	7,401.8	7,219.9	29.5	30.3	67.83	-2.3	1,439.5	364.2	323.7	40.49	8.995	
7,500.0	7,351.5	7,503.5	7,319.6	29.8	30.8	65.60	0.5	1,459.2	372.6	330.8	41.84	8.907	
7,521.5	7,373.1	7,525.4	7,341.1	29.8	30.9	142.11	1.0	1,463.2	374.6	332.5	42.12	8.893	
7,600.0	7,451.5	7,605.4	7,419.8	29.9	31.2	140.27	3.0	1,477.1	381.8	338.6	43.14	8.850	
7,700.0	7,551.5	7,707.8	7,521.0	29.9	31.7	138.20	5.3	1,493.5	390.5	346.2	44.33	8.810	
7,800.0	7,651.5	7,810.9	7,623.0	29.9	32.2	136.44	7.3	1,508.0	398.7	353.3	45.40	8.783	
7,900.0	7,751.5	7,914.4	7,725.7	30.0	32.6	134.95	9.1	1,520.9	406.2	359.8	46.34	8.766	
8,000.0	7,851.5	8,018.4	7,829.1	30.0	33.0	133.71	10.7	1,531.9	412.7	365.6	47.15	8.753	
8,100.0	7,951.5	8,122.8	7,933.0	30.0	33.4	132.71	12.0	1,541.1	418.3	370.5	47.85	8.743	
8,200.0	8,051.5	8,227.4	8,037.4	30.0	33.8	131.94	13.0	1,548.4	422.9	374.4	48.42	8.734	
8,300.0	8,151.5	8,332.3	8,142.2	30.1	34.2	131.37	13.8	1,553.9	426.3	377.4	48.87	8.723	
8,400.0	8,251.5	8,437.4	8,247.2	30.1	34.5	131.00	14.3	1,557.4	428.5	379.3	49.19	8.711	
8,500.0	8,351.5	8,542.6	8,352.3	30.1	34.7	130.83	14.5	1,559.1	429.6	380.2	49.36	8.703	
8,600.0	8,451.5	8,644.5	8,454.2	30.2	34.8	130.82	14.5	1,559.2	429.6	380.2	49.41	8.695	
8,700.0	8,551.5	8,744.5	8,554.2	30.2	34.8	130.82	14.5	1,559.2	429.6	380.1	49.48	8.682	
8,800.0	8,651.5	8,844.5	8,654.2	30.2	34.8	130.82	14.5	1,559.2	429.6	380.1	49.55	8.670	
8,900.0	8,751.5	8,944.5	8,754.2	30.3	34.9	130.82	14.5	1,559.2	429.6	380.0	49.62	8.658	
9,000.0	8,851.5	9,044.5	8,854.2	30.3	34.9	130.82	14.5	1,559.2	429.6	379.9	49.69	8.646	
9,100.0	8,951.5	9,144.5	8,954.2	30.3	34.9	130.82	14.5	1,559.2	429.6	379.9	49.76	8.634	
9,200.0	9,051.5	9,244.5	9,054.2	30.4	34.9	130.82	14.5	1,559.2	429.6	379.8	49.83	8.622	
9,300.0	9,151.5	9,344.5	9,154.2	30.4	34.9	130.82	14.5	1,559.2	429.6	379.7	49.90	8.609	
9,400.0	9,251.5	9,444.5	9,254.2	30.4	35.0	130.82	14.5	1,559.2	429.6	379.7	49.98	8.597	
9,500.0	9,351.5	9,544.5	9,354.2	30.5	35.0	130.82	14.5	1,559.2	429.6	379.6	50.05	8.585	
9,600.0	9,451.5	9,644.5	9,454.2	30.5	35.0	130.82	14.5	1,559.2	429.6	379.5	50.12	8.572	
9,700.0	9,551.5	9,744.5	9,554.2	30.5	35.0	130.82	14.5	1,559.2	429.6	379.4	50.19	8.560	
9,800.0	9,651.5	9,844.5	9,654.2	30.6	35.1	130.82	14.5	1,559.2	429.6	379.4	50.27	8.547	
9,900.0	9,751.5	9,944.5	9,754.2	30.6	35.1	130.82	14.5	1,559.2	429.6	379.3	50.34	8.535	

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 #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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
10,000.0	9,851.5	10,044.5	9,854.2	30.6	35.1	130.82	14.5	1,559.2	429.6	379.2	50.41	8.522	
10,100.0	9,951.5	10,144.5	9,954.2	30.7	35.1	130.82	14.5	1,559.2	429.6	379.1	50.49	8.510	
10,200.0	10,051.5	10,244.5	10,054.2	30.7	35.2	130.82	14.5	1,559.2	429.6	379.1	50.56	8.497	
10,300.0	10,151.5	10,344.5	10,154.2	30.7	35.2	130.82	14.5	1,559.2	429.6	379.0	50.64	8.484	
10,400.0	10,251.5	10,444.5	10,254.2	30.8	35.2	130.82	14.5	1,559.2	429.6	378.9	50.71	8.472	
10,500.0	10,351.5	10,544.5	10,354.2	30.8	35.3	130.82	14.5	1,559.2	429.6	378.8	50.79	8.459	
10,600.0	10,451.5	10,644.5	10,454.2	30.8	35.3	130.82	14.5	1,559.2	429.6	378.8	50.87	8.446	
10,700.0	10,551.5	10,744.5	10,554.2	30.9	35.3	130.82	14.5	1,559.2	429.6	378.7	50.94	8.434	
10,800.0	10,651.5	10,844.5	10,654.2	30.9	35.3	130.82	14.5	1,559.2	429.6	378.6	51.02	8.421	
10,900.0	10,751.5	10,944.5	10,754.2	31.0	35.4	130.82	14.5	1,559.2	429.6	378.5	51.10	8.408	
11,000.0	10,851.5	11,044.5	10,854.2	31.0	35.4	130.82	14.5	1,559.2	429.6	378.5	51.18	8.395	
11,100.0	10,951.5	11,144.5	10,954.2	31.0	35.4	130.82	14.5	1,559.2	429.6	378.4	51.25	8.382	
11,200.0	11,051.5	11,244.5	11,054.2	31.1	35.4	130.82	14.5	1,559.2	429.6	378.3	51.33	8.370	
11,279.5	11,131.0	11,324.0	11,133.8	31.1	35.5	130.82	14.5	1,559.2	429.6	378.2	51.38	8.361 SF	
11,300.0	11,151.5	11,344.5	11,154.2	31.1	35.5	131.00	14.5	1,559.2	429.9	378.5	51.38	8.367	
11,350.0	11,201.3	11,394.3	11,204.1	31.1	35.5	131.19	14.5	1,559.2	432.5	381.2	51.25	8.439	
11,400.0	11,250.6	11,443.6	11,253.3	31.1	35.5	131.59	14.5	1,559.2	438.0	387.1	50.94	8.599	
11,450.0	11,299.0	11,492.0	11,301.7	31.1	35.5	132.13	14.5	1,559.2	446.5	396.1	50.47	8.848	
11,500.0	11,346.1	11,524.2	11,333.9	31.1	35.5	132.27	14.0	1,559.3	458.8	408.7	50.10	9.158	
11,550.0	11,391.6	11,550.0	11,359.7	31.1	35.5	132.08	12.3	1,559.4	476.1	426.4	49.65	9.588	
11,600.0	11,435.1	11,575.6	11,385.1	31.1	35.5	131.69	9.5	1,559.6	498.1	449.1	49.05	10.156	
11,650.0	11,476.2	11,600.0	11,409.2	31.1	35.5	130.98	5.7	1,559.8	524.8	476.4	48.36	10.852	
11,700.0	11,514.8	11,614.7	11,423.7	31.2	35.5	129.13	3.0	1,560.0	555.7	507.9	47.79	11.628	
11,750.0	11,550.4	11,629.4	11,438.1	31.2	35.5	126.67	-0.2	1,560.2	590.3	543.1	47.19	12.509	
11,800.0	11,582.8	11,650.0	11,458.0	31.2	35.5	124.11	-5.1	1,560.5	628.3	581.8	46.51	13.509	
11,850.0	11,611.8	11,650.0	11,458.0	31.2	35.5	118.23	-5.1	1,560.5	668.7	622.5	46.15	14.490	
11,900.0	11,637.2	11,650.0	11,458.0	31.2	35.5	110.75	-5.1	1,560.5	711.4	665.6	45.79	15.535	
11,950.0	11,658.6	11,650.0	11,458.0	31.3	35.5	101.57	-5.1	1,560.5	755.7	710.2	45.44	16.630	
12,000.0	11,676.1	11,650.0	11,458.0	31.3	35.5	90.89	-5.1	1,560.5	801.0	755.9	45.10	17.760	
12,050.0	11,689.4	11,650.0	11,458.0	31.3	35.5	79.40	-5.1	1,560.5	846.9	802.1	44.78	18.913	
12,100.0	11,698.5	11,650.0	11,458.0	31.4	35.5	68.11	-5.1	1,560.5	892.9	848.4	44.47	20.078	
12,150.0	11,703.2	11,650.0	11,458.0	31.4	35.5	57.92	-5.1	1,560.5	938.7	894.6	44.18	21.247	
12,179.5	11,704.0	11,650.0	11,458.0	31.4	35.5	52.63	-5.1	1,560.5	965.6	921.6	44.02	21.937	
12,200.0	11,704.0	11,650.0	11,458.0	31.5	35.5	52.63	-5.1	1,560.5	984.2	940.3	43.91	22.415	

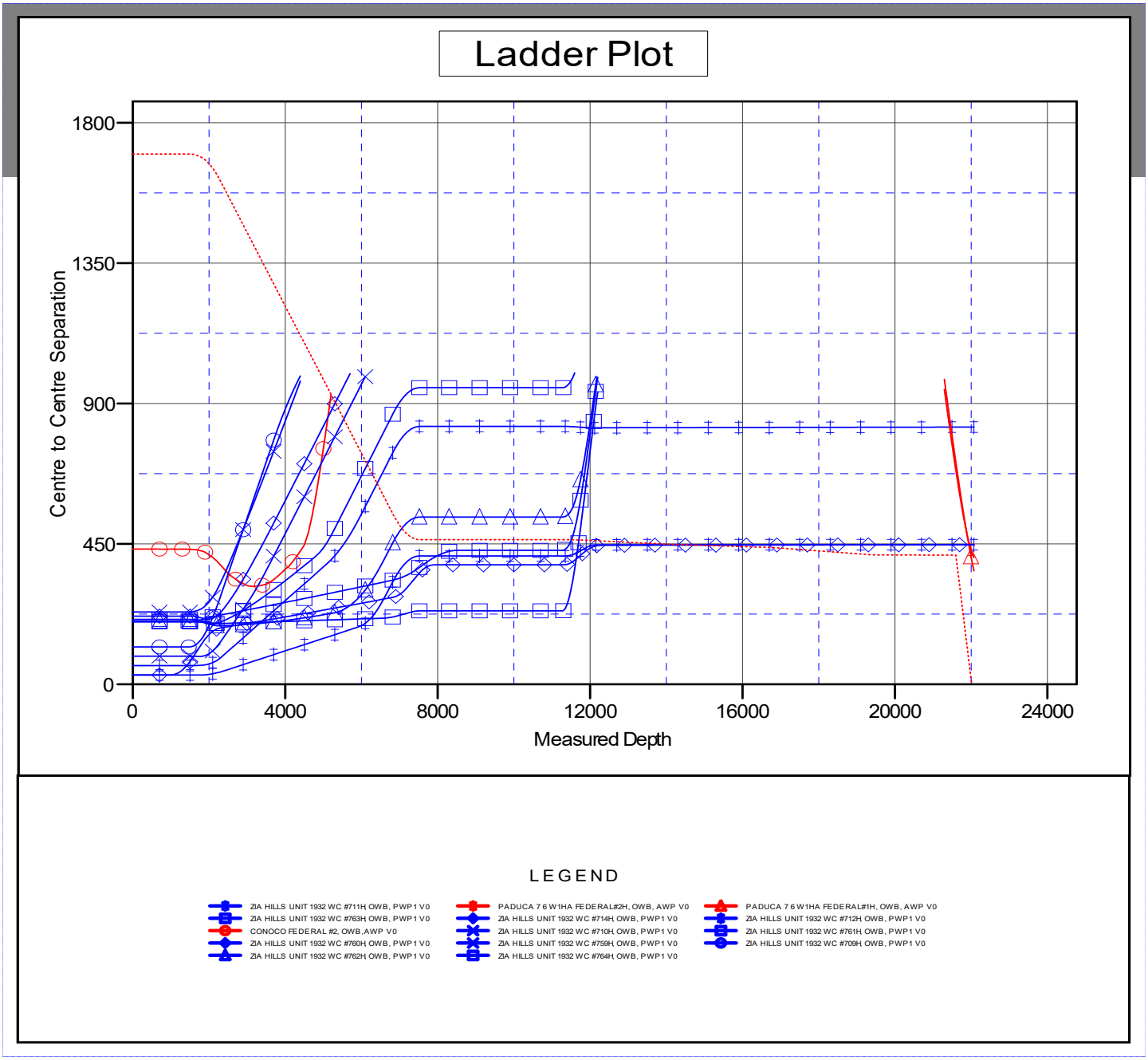
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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 @ 3196.6usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #713H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



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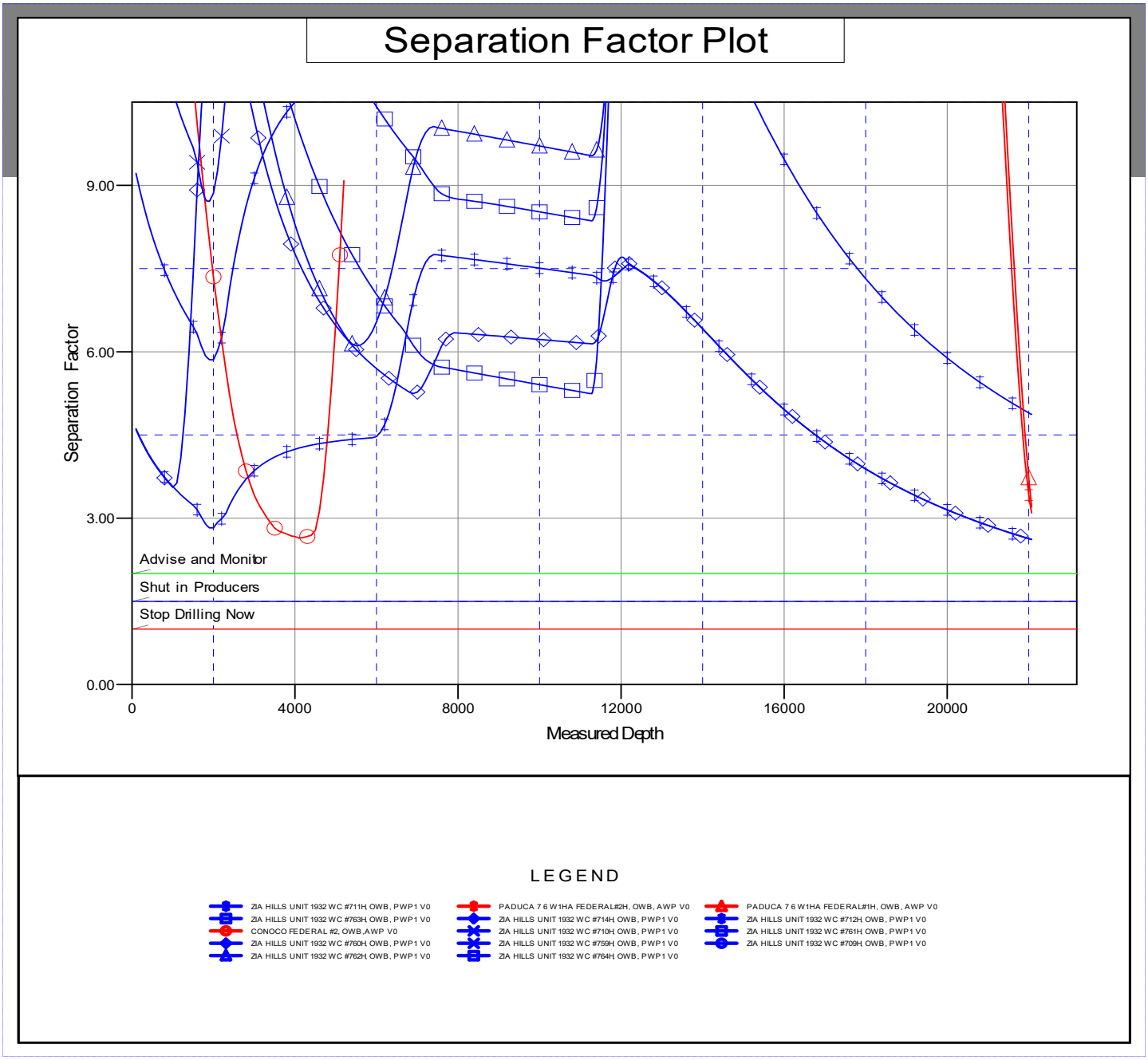
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Project:	LEA PROSPECT (NM-E)	**TVD Reference:**	RKB=30ft @ 3196.6usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	**MD Reference:**	RKB=30ft @ 3196.6usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #713H	**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 @ 3196.6usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #713H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



DELAWARE BASIN EAST

LEA PROSPECT (NM-E)
ZIA HILLS UNIT 1932 PROJECT
ZIA HILLS UNIT 1932 WC #713H

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 #713H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.6usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.6usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #713H	**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 #713H

Well Position	**+N/-S**	0.0 usft	**Northing:**	374,368.91 usft	**Latitude:**	32° 1' 39.834 N
	+E/-W	0.0 usft	**Easting:**	692,602.62 usft	**Longitude:**	103° 42' 42.632 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,166.6 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	47,256.41641555

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	6.39

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	11,279.5	PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5	
3	11,279.5	22,072.2	PWP1 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.6usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.6usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #713H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,833.3	5.00	60.00	1,832.9	7.3	12.6	1.50	1.50	0.00	60.00	
2,299.9	14.00	77.00	2,292.7	30.2	85.3	2.00	1.93	3.64	25.86	
6,821.5	14.00	77.00	6,680.0	276.2	1,151.2	0.00	0.00	0.00	0.00	
7,521.5	0.00	0.00	7,373.1	295.4	1,234.1	2.00	-2.00	-11.00	-180.00	
11,279.5	0.00	0.00	11,131.0	295.4	1,234.1	0.00	0.00	0.00	0.00	
12,179.5	90.00	359.85	11,704.0	868.3	1,232.6	10.00	10.00	-0.02	359.85	
22,022.2	90.00	359.85	11,704.0	10,711.0	1,205.9	0.00	0.00	0.00	0.00	
22,072.2	90.00	359.85	11,704.0	10,761.0	1,205.8	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.6usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.6usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #713H	**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 1.50									
1,600.0	1.50	60.00	1,600.0	0.7	1.1	0.8	1.50	1.50	0.00
1,700.0	3.00	60.00	1,699.9	2.6	4.5	3.1	1.50	1.50	0.00
1,800.0	4.50	60.00	1,799.7	5.9	10.2	7.0	1.50	1.50	0.00
1,833.3	5.00	60.00	1,832.9	7.3	12.6	8.6	1.50	1.50	0.00
Start DLS 2.00 TFO 25.86									
1,900.0	6.23	65.37	1,899.3	10.2	18.4	12.2	2.00	1.84	8.05
2,000.0	8.13	70.33	1,998.5	14.9	30.0	18.1	2.00	1.90	4.96
2,100.0	10.07	73.41	2,097.2	19.7	45.0	24.6	2.00	1.94	3.08
2,200.0	12.03	75.49	2,195.3	24.9	63.5	31.8	2.00	1.96	2.09
2,299.9	14.00	77.00	2,292.7	30.2	85.3	39.5	2.00	1.97	1.51
Start 4521.6 hold at 2299.9 MD									
2,400.0	14.00	77.00	2,389.8	35.6	108.9	47.5	0.00	0.00	0.00
2,500.0	14.00	77.00	2,486.8	41.1	132.5	55.6	0.00	0.00	0.00
2,600.0	14.00	77.00	2,583.9	46.5	156.1	63.6	0.00	0.00	0.00
2,700.0	14.00	77.00	2,680.9	52.0	179.7	71.6	0.00	0.00	0.00
2,800.0	14.00	77.00	2,777.9	57.4	203.2	79.7	0.00	0.00	0.00
2,900.0	14.00	77.00	2,875.0	62.8	226.8	87.7	0.00	0.00	0.00
3,000.0	14.00	77.00	2,972.0	68.3	250.4	95.7	0.00	0.00	0.00
3,100.0	14.00	77.00	3,069.0	73.7	273.9	103.8	0.00	0.00	0.00
3,200.0	14.00	77.00	3,166.0	79.2	297.5	111.8	0.00	0.00	0.00
3,300.0	14.00	77.00	3,263.1	84.6	321.1	119.8	0.00	0.00	0.00
3,400.0	14.00	77.00	3,360.1	90.0	344.7	127.9	0.00	0.00	0.00
3,500.0	14.00	77.00	3,457.1	95.5	368.2	135.9	0.00	0.00	0.00
3,600.0	14.00	77.00	3,554.2	100.9	391.8	143.9	0.00	0.00	0.00
3,700.0	14.00	77.00	3,651.2	106.4	415.4	152.0	0.00	0.00	0.00
3,800.0	14.00	77.00	3,748.2	111.8	439.0	160.0	0.00	0.00	0.00
3,900.0	14.00	77.00	3,845.2	117.3	462.5	168.0	0.00	0.00	0.00
4,000.0	14.00	77.00	3,942.3	122.7	486.1	176.1	0.00	0.00	0.00
4,100.0	14.00	77.00	4,039.3	128.1	509.7	184.1	0.00	0.00	0.00
4,200.0	14.00	77.00	4,136.3	133.6	533.2	192.1	0.00	0.00	0.00
4,300.0	14.00	77.00	4,233.4	139.0	556.8	200.2	0.00	0.00	0.00
4,400.0	14.00	77.00	4,330.4	144.5	580.4	208.2	0.00	0.00	0.00
4,500.0	14.00	77.00	4,427.4	149.9	604.0	216.2	0.00	0.00	0.00
4,600.0	14.00	77.00	4,524.5	155.4	627.5	224.3	0.00	0.00	0.00
4,700.0	14.00	77.00	4,621.5	160.8	651.1	232.3	0.00	0.00	0.00
4,800.0	14.00	77.00	4,718.5	166.2	674.7	240.3	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 #713H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.6usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.6usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #713H	**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)
4,900.0	14.00	77.00	4,815.5	171.7	698.2	248.4	0.00	0.00	0.00
5,000.0	14.00	77.00	4,912.6	177.1	721.8	256.4	0.00	0.00	0.00
5,100.0	14.00	77.00	5,009.6	182.6	745.4	264.4	0.00	0.00	0.00
5,200.0	14.00	77.00	5,106.6	188.0	769.0	272.5	0.00	0.00	0.00
5,300.0	14.00	77.00	5,203.7	193.4	792.5	280.5	0.00	0.00	0.00
5,400.0	14.00	77.00	5,300.7	198.9	816.1	288.5	0.00	0.00	0.00
5,500.0	14.00	77.00	5,397.7	204.3	839.7	296.5	0.00	0.00	0.00
5,600.0	14.00	77.00	5,494.7	209.8	863.3	304.6	0.00	0.00	0.00
5,700.0	14.00	77.00	5,591.8	215.2	886.8	312.6	0.00	0.00	0.00
5,800.0	14.00	77.00	5,688.8	220.7	910.4	320.6	0.00	0.00	0.00
5,900.0	14.00	77.00	5,785.8	226.1	934.0	328.7	0.00	0.00	0.00
6,000.0	14.00	77.00	5,882.9	231.5	957.5	336.7	0.00	0.00	0.00
6,100.0	14.00	77.00	5,979.9	237.0	981.1	344.7	0.00	0.00	0.00
6,200.0	14.00	77.00	6,076.9	242.4	1,004.7	352.8	0.00	0.00	0.00
6,300.0	14.00	77.00	6,174.0	247.9	1,028.3	360.8	0.00	0.00	0.00
6,400.0	14.00	77.00	6,271.0	253.3	1,051.8	368.8	0.00	0.00	0.00
6,500.0	14.00	77.00	6,368.0	258.8	1,075.4	376.9	0.00	0.00	0.00
6,600.0	14.00	77.00	6,465.0	264.2	1,099.0	384.9	0.00	0.00	0.00
6,700.0	14.00	77.00	6,562.1	269.6	1,122.5	392.9	0.00	0.00	0.00
6,800.0	14.00	77.00	6,659.1	275.1	1,146.1	401.0	0.00	0.00	0.00
6,821.5	14.00	77.00	6,680.0	276.2	1,151.2	402.7	0.00	0.00	0.00
Start DLS 2.00 TFO -180.00									
6,900.0	12.43	77.00	6,756.4	280.3	1,168.7	408.7	2.00	-2.00	0.00
7,000.0	10.43	77.00	6,854.4	284.7	1,188.0	415.2	2.00	-2.00	0.00
7,100.0	8.43	77.00	6,953.0	288.4	1,203.9	420.7	2.00	-2.00	0.00
7,200.0	6.43	77.00	7,052.2	291.3	1,216.5	425.0	2.00	-2.00	0.00
7,300.0	4.43	77.00	7,151.7	293.5	1,225.8	428.1	2.00	-2.00	0.00
7,400.0	2.43	77.00	7,251.6	294.8	1,231.6	430.1	2.00	-2.00	0.00
7,500.0	0.43	77.00	7,351.5	295.4	1,234.0	430.9	2.00	-2.00	0.00
7,521.5	0.00	0.00	7,373.1	295.4	1,234.1	431.0	2.00	-2.00	-357.55
Start 3758.0 hold at 7521.5 MD									
7,600.0	0.00	0.00	7,451.5	295.4	1,234.1	431.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,551.5	295.4	1,234.1	431.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,651.5	295.4	1,234.1	431.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,751.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,851.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,100.0	0.00	0.00	7,951.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,051.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,151.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,251.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,351.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,451.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,551.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,651.5	295.4	1,234.1	431.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,751.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,851.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,100.0	0.00	0.00	8,951.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,051.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,151.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,251.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,351.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,451.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,551.5	295.4	1,234.1	431.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,651.5	295.4	1,234.1	431.0	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 #713H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.6usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.6usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #713H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.0	0.00	0.00	9,751.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,000.0	0.00	0.00	9,851.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,100.0	0.00	0.00	9,951.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,051.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,151.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,251.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,351.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,451.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,551.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,800.0	0.00	0.00	10,651.5	295.4	1,234.1	431.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,751.5	295.4	1,234.1	431.0	0.00	0.00	0.00
11,000.0	0.00	0.00	10,851.5	295.4	1,234.1	431.0	0.00	0.00	0.00
11,100.0	0.00	0.00	10,951.5	295.4	1,234.1	431.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,051.5	295.4	1,234.1	431.0	0.00	0.00	0.00
11,279.5	0.00	0.00	11,131.0	295.4	1,234.1	431.0	0.00	0.00	0.00
Start DLS 10.00 TFO 359.85									
11,300.0	2.05	359.85	11,151.5	295.8	1,234.1	431.3	10.00	10.00	-0.76
11,350.0	7.05	359.85	11,201.3	299.7	1,234.1	435.3	10.00	10.00	0.00
11,400.0	12.05	359.85	11,250.6	308.0	1,234.1	443.5	10.00	10.00	0.00
11,450.0	17.05	359.85	11,299.0	320.6	1,234.0	456.0	10.00	10.00	0.00
11,500.0	22.05	359.85	11,346.1	337.3	1,234.0	472.6	10.00	10.00	0.00
11,550.0	27.05	359.85	11,391.6	358.1	1,233.9	493.2	10.00	10.00	0.00
11,600.0	32.05	359.85	11,435.1	382.7	1,233.9	517.7	10.00	10.00	0.00
11,650.0	37.05	359.85	11,476.2	411.1	1,233.8	545.9	10.00	10.00	0.00
11,700.0	42.05	359.85	11,514.8	442.9	1,233.7	577.5	10.00	10.00	0.00
11,750.0	47.05	359.85	11,550.4	477.9	1,233.6	612.3	10.00	10.00	0.00
11,800.0	52.05	359.85	11,582.8	516.0	1,233.5	650.1	10.00	10.00	0.00
11,850.0	57.05	359.85	11,611.8	556.7	1,233.4	690.6	10.00	10.00	0.00
11,900.0	62.05	359.85	11,637.2	599.8	1,233.3	733.4	10.00	10.00	0.00
11,950.0	67.05	359.85	11,658.6	644.9	1,233.2	778.2	10.00	10.00	0.00
12,000.0	72.05	359.85	11,676.1	691.7	1,233.0	824.7	10.00	10.00	0.00
12,050.0	77.05	359.85	11,689.4	739.9	1,232.9	872.6	10.00	10.00	0.00
12,100.0	82.05	359.85	11,698.5	789.1	1,232.8	921.4	10.00	10.00	0.00
12,150.0	87.05	359.85	11,703.2	838.8	1,232.6	970.9	10.00	10.00	0.00
12,179.5	90.00	359.85	11,704.0	868.3	1,232.6	1,000.2	10.00	10.00	0.00
Start 9842.7 hold at 12179.5 MD									
12,200.0	90.00	359.85	11,704.0	888.8	1,232.5	1,020.5	0.00	0.00	0.00
12,300.0	90.00	359.85	11,704.0	988.8	1,232.2	1,119.9	0.00	0.00	0.00
12,400.0	90.00	359.85	11,704.0	1,088.8	1,232.0	1,219.2	0.00	0.00	0.00
12,500.0	90.00	359.85	11,704.0	1,188.8	1,231.7	1,318.6	0.00	0.00	0.00
12,600.0	90.00	359.85	11,704.0	1,288.8	1,231.4	1,417.9	0.00	0.00	0.00
12,700.0	90.00	359.85	11,704.0	1,388.8	1,231.2	1,517.3	0.00	0.00	0.00
12,800.0	90.00	359.85	11,704.0	1,488.8	1,230.9	1,616.6	0.00	0.00	0.00
12,900.0	90.00	359.85	11,704.0	1,588.8	1,230.6	1,716.0	0.00	0.00	0.00
13,000.0	90.00	359.85	11,704.0	1,688.8	1,230.3	1,815.3	0.00	0.00	0.00
13,100.0	90.00	359.85	11,704.0	1,788.8	1,230.1	1,914.7	0.00	0.00	0.00
13,200.0	90.00	359.85	11,704.0	1,888.8	1,229.8	2,014.0	0.00	0.00	0.00
13,300.0	90.00	359.85	11,704.0	1,988.8	1,229.5	2,113.4	0.00	0.00	0.00
13,400.0	90.00	359.85	11,704.0	2,088.8	1,229.3	2,212.7	0.00	0.00	0.00
13,500.0	90.00	359.85	11,704.0	2,188.8	1,229.0	2,312.0	0.00	0.00	0.00
13,600.0	90.00	359.85	11,704.0	2,288.8	1,228.7	2,411.4	0.00	0.00	0.00
13,700.0	90.00	359.85	11,704.0	2,388.8	1,228.4	2,510.7	0.00	0.00	0.00
13,800.0	90.00	359.85	11,704.0	2,488.8	1,228.2	2,610.1	0.00	0.00	0.00
13,900.0	90.00	359.85	11,704.0	2,588.8	1,227.9	2,709.4	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Central Planning Prod	**Local Co-ordinate Reference:**	Well ZIA HILLS UNIT 1932 WC #713H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.6usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.6usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #713H	**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)
14,000.0	90.00	359.85	11,704.0	2,688.8	1,227.6	2,808.8	0.00	0.00	0.00
14,100.0	90.00	359.85	11,704.0	2,788.8	1,227.4	2,908.1	0.00	0.00	0.00
14,200.0	90.00	359.85	11,704.0	2,888.8	1,227.1	3,007.5	0.00	0.00	0.00
14,300.0	90.00	359.85	11,704.0	2,988.8	1,226.8	3,106.8	0.00	0.00	0.00
14,400.0	90.00	359.85	11,704.0	3,088.8	1,226.6	3,206.2	0.00	0.00	0.00
14,500.0	90.00	359.85	11,704.0	3,188.8	1,226.3	3,305.5	0.00	0.00	0.00
14,600.0	90.00	359.85	11,704.0	3,288.8	1,226.0	3,404.9	0.00	0.00	0.00
14,700.0	90.00	359.85	11,704.0	3,388.8	1,225.7	3,504.2	0.00	0.00	0.00
14,800.0	90.00	359.85	11,704.0	3,488.8	1,225.5	3,603.6	0.00	0.00	0.00
14,900.0	90.00	359.85	11,704.0	3,588.8	1,225.2	3,702.9	0.00	0.00	0.00
15,000.0	90.00	359.85	11,704.0	3,688.8	1,224.9	3,802.3	0.00	0.00	0.00
15,100.0	90.00	359.85	11,704.0	3,788.8	1,224.7	3,901.6	0.00	0.00	0.00
15,200.0	90.00	359.85	11,704.0	3,888.8	1,224.4	4,001.0	0.00	0.00	0.00
15,300.0	90.00	359.85	11,704.0	3,988.8	1,224.1	4,100.3	0.00	0.00	0.00
15,400.0	90.00	359.85	11,704.0	4,088.8	1,223.8	4,199.7	0.00	0.00	0.00
15,500.0	90.00	359.85	11,704.0	4,188.8	1,223.6	4,299.0	0.00	0.00	0.00
15,600.0	90.00	359.85	11,704.0	4,288.8	1,223.3	4,398.3	0.00	0.00	0.00
15,700.0	90.00	359.85	11,704.0	4,388.8	1,223.0	4,497.7	0.00	0.00	0.00
15,800.0	90.00	359.85	11,704.0	4,488.8	1,222.8	4,597.0	0.00	0.00	0.00
15,900.0	90.00	359.85	11,704.0	4,588.8	1,222.5	4,696.4	0.00	0.00	0.00
16,000.0	90.00	359.85	11,704.0	4,688.8	1,222.2	4,795.7	0.00	0.00	0.00
16,100.0	90.00	359.85	11,704.0	4,788.8	1,222.0	4,895.1	0.00	0.00	0.00
16,200.0	90.00	359.85	11,704.0	4,888.8	1,221.7	4,994.4	0.00	0.00	0.00
16,300.0	90.00	359.85	11,704.0	4,988.8	1,221.4	5,093.8	0.00	0.00	0.00
16,400.0	90.00	359.85	11,704.0	5,088.8	1,221.1	5,193.1	0.00	0.00	0.00
16,500.0	90.00	359.85	11,704.0	5,188.8	1,220.9	5,292.5	0.00	0.00	0.00
16,600.0	90.00	359.85	11,704.0	5,288.8	1,220.6	5,391.8	0.00	0.00	0.00
16,700.0	90.00	359.85	11,704.0	5,388.8	1,220.3	5,491.2	0.00	0.00	0.00
16,800.0	90.00	359.85	11,704.0	5,488.8	1,220.1	5,590.5	0.00	0.00	0.00
16,900.0	90.00	359.85	11,704.0	5,588.8	1,219.8	5,689.9	0.00	0.00	0.00
17,000.0	90.00	359.85	11,704.0	5,688.8	1,219.5	5,789.2	0.00	0.00	0.00
17,100.0	90.00	359.85	11,704.0	5,788.8	1,219.3	5,888.6	0.00	0.00	0.00
17,200.0	90.00	359.85	11,704.0	5,888.8	1,219.0	5,987.9	0.00	0.00	0.00
17,300.0	90.00	359.85	11,704.0	5,988.8	1,218.7	6,087.3	0.00	0.00	0.00
17,400.0	90.00	359.85	11,704.0	6,088.8	1,218.4	6,186.6	0.00	0.00	0.00
17,500.0	90.00	359.85	11,704.0	6,188.8	1,218.2	6,286.0	0.00	0.00	0.00
17,600.0	90.00	359.85	11,704.0	6,288.8	1,217.9	6,385.3	0.00	0.00	0.00
17,700.0	90.00	359.85	11,704.0	6,388.8	1,217.6	6,484.7	0.00	0.00	0.00
17,800.0	90.00	359.85	11,704.0	6,488.8	1,217.4	6,584.0	0.00	0.00	0.00
17,900.0	90.00	359.85	11,704.0	6,588.8	1,217.1	6,683.3	0.00	0.00	0.00
18,000.0	90.00	359.85	11,704.0	6,688.8	1,216.8	6,782.7	0.00	0.00	0.00
18,100.0	90.00	359.85	11,704.0	6,788.8	1,216.5	6,882.0	0.00	0.00	0.00
18,200.0	90.00	359.85	11,704.0	6,888.8	1,216.3	6,981.4	0.00	0.00	0.00
18,300.0	90.00	359.85	11,704.0	6,988.8	1,216.0	7,080.7	0.00	0.00	0.00
18,400.0	90.00	359.85	11,704.0	7,088.8	1,215.7	7,180.1	0.00	0.00	0.00
18,500.0	90.00	359.85	11,704.0	7,188.8	1,215.5	7,279.4	0.00	0.00	0.00
18,600.0	90.00	359.85	11,704.0	7,288.8	1,215.2	7,378.8	0.00	0.00	0.00
18,700.0	90.00	359.85	11,704.0	7,388.8	1,214.9	7,478.1	0.00	0.00	0.00
18,800.0	90.00	359.85	11,704.0	7,488.8	1,214.7	7,577.5	0.00	0.00	0.00
18,900.0	90.00	359.85	11,704.0	7,588.8	1,214.4	7,676.8	0.00	0.00	0.00
19,000.0	90.00	359.85	11,704.0	7,688.8	1,214.1	7,776.2	0.00	0.00	0.00
19,100.0	90.00	359.85	11,704.0	7,788.8	1,213.8	7,875.5	0.00	0.00	0.00
19,200.0	90.00	359.85	11,704.0	7,888.8	1,213.6	7,974.9	0.00	0.00	0.00
19,300.0	90.00	359.85	11,704.0	7,988.8	1,213.3	8,074.2	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 #713H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.6usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.6usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #713H	**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)
19,400.0	90.00	359.85	11,704.0	8,088.8	1,213.0	8,173.6	0.00	0.00	0.00
19,500.0	90.00	359.85	11,704.0	8,188.8	1,212.8	8,272.9	0.00	0.00	0.00
19,600.0	90.00	359.85	11,704.0	8,288.8	1,212.5	8,372.3	0.00	0.00	0.00
19,700.0	90.00	359.85	11,704.0	8,388.8	1,212.2	8,471.6	0.00	0.00	0.00
19,800.0	90.00	359.85	11,704.0	8,488.8	1,211.9	8,571.0	0.00	0.00	0.00
19,900.0	90.00	359.85	11,704.0	8,588.8	1,211.7	8,670.3	0.00	0.00	0.00
20,000.0	90.00	359.85	11,704.0	8,688.8	1,211.4	8,769.7	0.00	0.00	0.00
20,100.0	90.00	359.85	11,704.0	8,788.8	1,211.1	8,869.0	0.00	0.00	0.00
20,200.0	90.00	359.85	11,704.0	8,888.8	1,210.9	8,968.3	0.00	0.00	0.00
20,300.0	90.00	359.85	11,704.0	8,988.8	1,210.6	9,067.7	0.00	0.00	0.00
20,400.0	90.00	359.85	11,704.0	9,088.8	1,210.3	9,167.0	0.00	0.00	0.00
20,500.0	90.00	359.85	11,704.0	9,188.8	1,210.1	9,266.4	0.00	0.00	0.00
20,600.0	90.00	359.85	11,704.0	9,288.8	1,209.8	9,365.7	0.00	0.00	0.00
20,700.0	90.00	359.85	11,704.0	9,388.8	1,209.5	9,465.1	0.00	0.00	0.00
20,800.0	90.00	359.85	11,704.0	9,488.8	1,209.2	9,564.4	0.00	0.00	0.00
20,900.0	90.00	359.85	11,704.0	9,588.8	1,209.0	9,663.8	0.00	0.00	0.00
21,000.0	90.00	359.85	11,704.0	9,688.8	1,208.7	9,763.1	0.00	0.00	0.00
21,100.0	90.00	359.85	11,704.0	9,788.8	1,208.4	9,862.5	0.00	0.00	0.00
21,200.0	90.00	359.85	11,704.0	9,888.8	1,208.2	9,961.8	0.00	0.00	0.00
21,300.0	90.00	359.85	11,704.0	9,988.8	1,207.9	10,061.2	0.00	0.00	0.00
21,400.0	90.00	359.85	11,704.0	10,088.8	1,207.6	10,160.5	0.00	0.00	0.00
21,500.0	90.00	359.85	11,704.0	10,188.8	1,207.4	10,259.9	0.00	0.00	0.00
21,600.0	90.00	359.85	11,704.0	10,288.8	1,207.1	10,359.2	0.00	0.00	0.00
21,700.0	90.00	359.85	11,704.0	10,388.8	1,206.8	10,458.6	0.00	0.00	0.00
21,800.0	90.00	359.85	11,704.0	10,488.8	1,206.5	10,557.9	0.00	0.00	0.00
21,900.0	90.00	359.85	11,704.0	10,588.8	1,206.3	10,657.3	0.00	0.00	0.00
22,000.0	90.00	359.85	11,704.0	10,688.8	1,206.0	10,756.6	0.00	0.00	0.00
22,022.2	90.00	359.85	11,704.0	10,711.0	1,205.9	10,778.7	0.00	0.00	0.00
Start 50.0 hold at 22022.2 MD									
22,072.2	90.00	359.85	11,704.0	10,761.0	1,205.8	10,828.3	0.00	0.00	0.00
TD at 22072.2									

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
PBHL (ZHU 1932 WC #7	0.00	179.85	11,704.0	10,761.0	1,205.6	385,129.90	693,808.23	32° 3' 26.256 N	103° 42' 27.903 W
- plan misses target center by 0.2usft at 22072.2usft MD (11704.0 TVD, 10761.0 N, 1205.8 E)									
- Rectangle (sides W100.0 H10,683.7 D20.0)									
FTP (ZHU 1932 WC #71	0.00	0.00	11,704.0	77.9	1,232.6	374,446.86	693,835.18	32° 1' 40.535 N	103° 42' 28.309 W
- plan misses target center by 403.5usft at 11648.7usft MD (11475.2 TVD, 410.3 N, 1233.8 E)									
- Circle (radius 50.0)									
LTP (ZHU 1932 WC #71	0.00	0.00	11,704.0	10,711.0	1,205.9	385,079.91	693,808.56	32° 3' 25.762 N	103° 42' 27.903 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 #713H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	RKB=30ft @ 3196.6usft
Project:	LEA PROSPECT (NM-E)	**MD Reference:**	RKB=30ft @ 3196.6usft
Site:	ZIA HILLS UNIT 1932 PROJECT	**North Reference:**	Grid
Well:	ZIA HILLS UNIT 1932 WC #713H	**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 1.50
1,833.3	1,832.9	7.3	12.6	Start DLS 2.00 TFO 25.86
2,299.9	2,292.7	30.2	85.3	Start 4521.6 hold at 2299.9 MD
6,821.5	6,680.0	276.2	1,151.2	Start DLS 2.00 TFO -180.00
7,521.5	7,373.1	295.4	1,234.1	Start 3758.0 hold at 7521.5 MD
11,279.5	11,131.0	295.4	1,234.1	Start DLS 10.00 TFO 359.85
12,179.5	11,704.0	868.3	1,232.6	Start 9842.7 hold at 12179.5 MD
22,022.2	11,704.0	10,711.0	1,205.9	Start 50.0 hold at 22022.2 MD
22,072.2	11,704.0	10,761.0	1,205.8	TD at 22072.2

ConocoPhillips

Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS UNIT 1932 PROJECT
Well: ZIA HILLS UNIT 1932 WC #713H
Wellbore: OWB
Design: PWP1
GL: 3166.6
RKB=30ft @ 3196.6usft

WELL DETAILS: ZIA HILLS UNIT 1932 WC #713H

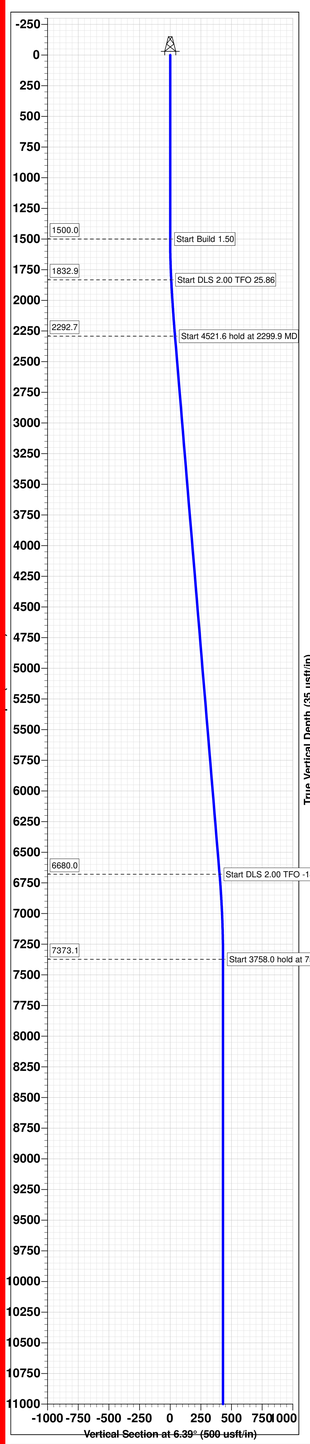
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	374368.91	692602.62	32° 1' 39.834 N	103° 42' 42.632 W

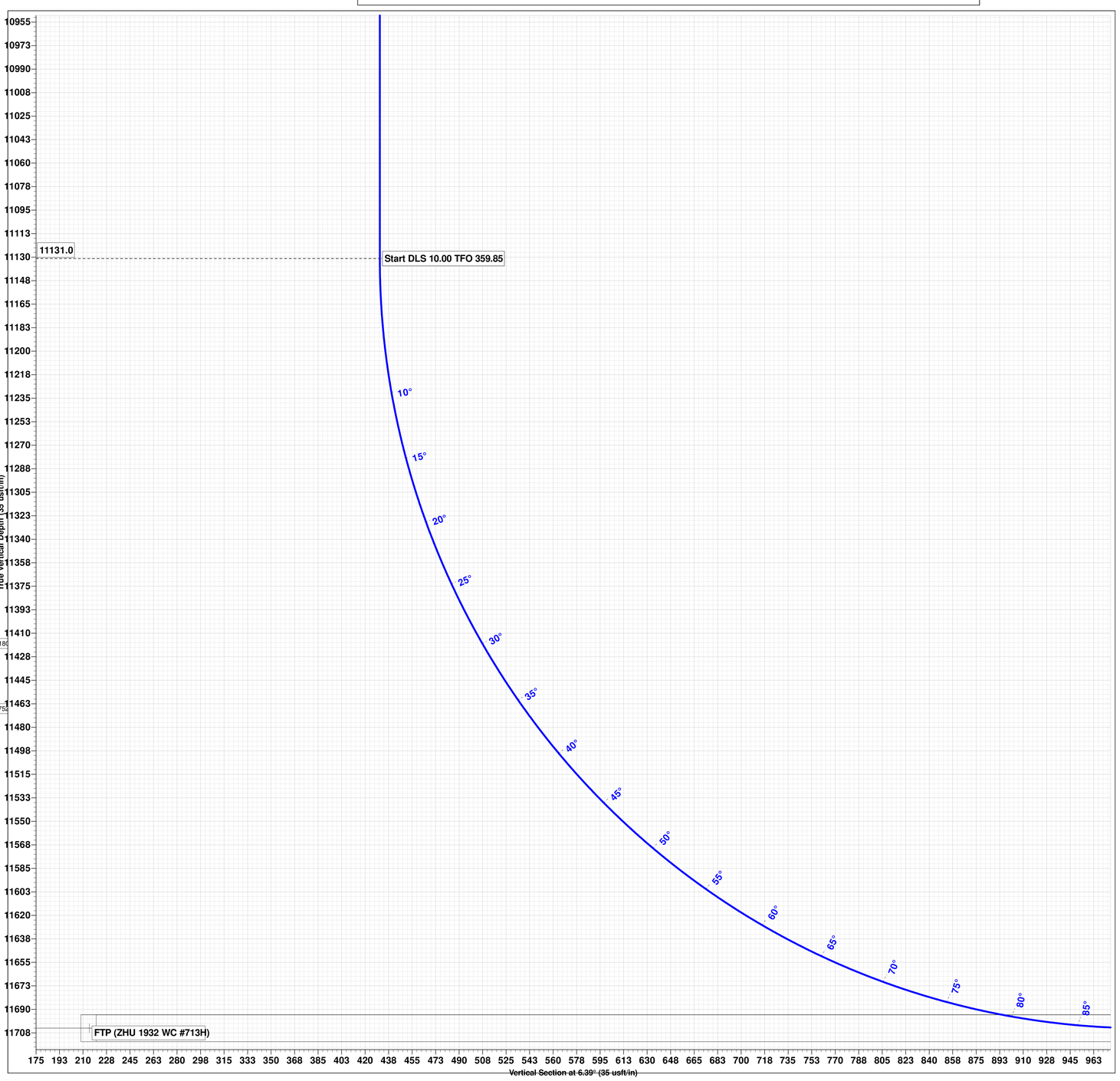
DESIGN TARGET DETAILS

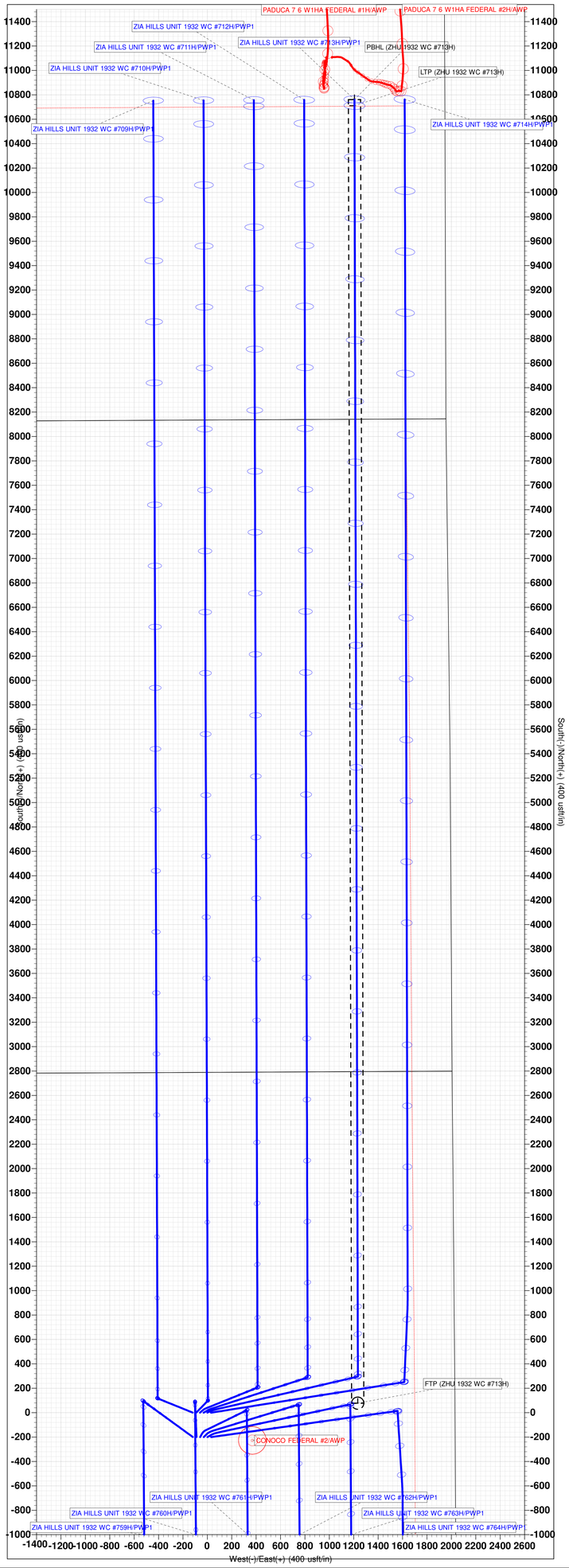
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (ZHU 1932 WC #713H)	11704.0	78.0	1232.6	374446.86	693835.18
LTP (ZHU 1932 WC #713H)	11704.0	10711.0	1205.9	385079.91	693808.56
PBHL (ZHU 1932 WC #713H)	11704.0	10761.0	1205.6	385129.90	693808.23

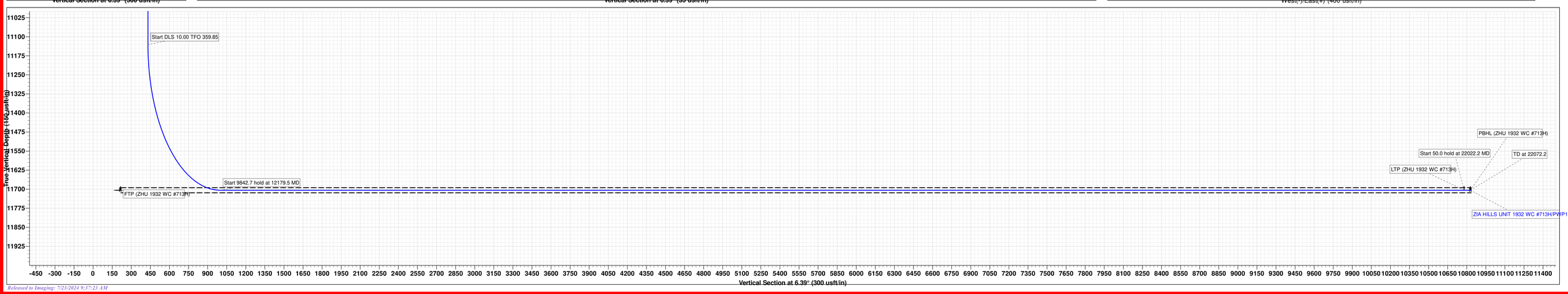
SECTION DETAILS

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
1833.3	5.00	60.00	1832.9	7.3	12.6	1.50	60.00	8.6
2299.9	14.00	77.00	2292.7	30.2	85.3	2.00	25.86	39.5
6821.5	14.00	77.00	6680.0	276.2	1151.2	0.00	0.00	402.7
7521.5	0.00	0.00	7373.1	295.4	1234.1	2.00	-180.00	431.0
11279.5	0.00	0.00	11131.0	295.4	1234.1	0.00	0.00	431.0
12179.5	90.00	359.85	11704.0	868.3	1232.6	10.00	359.85	1000.2
22022.2	90.00	359.85	11704.0	10711.0	1205.9	0.00	0.00	10778.7
22072.2	90.00	359.85	11704.0	10761.0	1205.8	0.00	0.00	10828.3









PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	ZIA HILLS UNIT 1932 WC 713H
SURFACE HOLE FOOTAGE:	2535'/S & 2030'/E
BOTTOM HOLE FOOTAGE	2620'/S & 742'/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	[x] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[ ] Break Testing	[ ] Offline Cementing	[x] 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 **11,180** 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 **22,072** 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,

Approval Date: 07/12/2024

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.

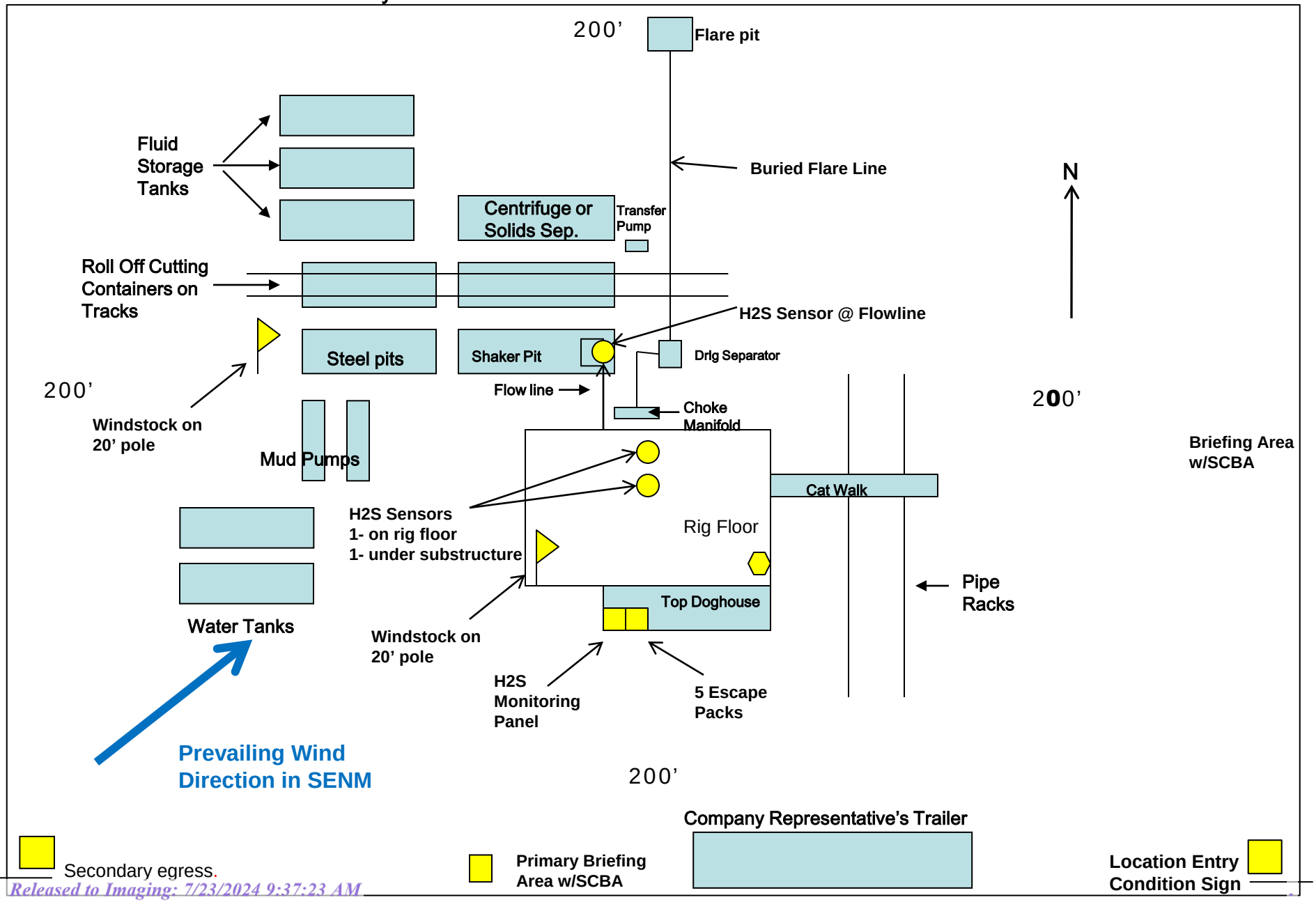
Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI 7/10/2024

Approval Date: 07/12/2024

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

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



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

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 364358

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 364358
	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