

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

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		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-025-54952
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.



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NWNW / 450 FNL / 1425 FEL / TWSP: 26S / RANGE: 32E / SECTION: 25 / LAT: 32.0197 / LONG: -103.624421 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 1230 FEL / TWSP: 26S / RANGE: 32E / SECTION: 25 / LAT: 32.020662 / LONG: -103.623794 (TVD: 12243 feet, MD: 12325 feet)

BHL: LOT 1 / 50 FSL / 1230 FEL / TWSP: 26S / RANGE: 32E / SECTION: 36 / LAT: 32.000373 / LONG: -103.623781 (TVD: 12367 feet, MD: 19628 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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

WELL LOCATION INFORMATION

API Number 30-025-54952	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 337697	Property Name ZIA HILLS UNIT 2532 WC	Well Number 710H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,135.59'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL B	Section 25	Township 26S	Range 32E	Lot	Ft. from N/S 450' FNL	Ft. from E/W 1,425' FEL	Latitude 32.019700°	Longitude -103.624421°	County LEA
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Bottom Hole Location

UL LOT 1	Section 36	Township 26S	Range 32E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 1,230' FEL	Latitude 32.000373°	Longitude -103.623781°	County LEA
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Dedicated Acres 899.76	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL B	Section 25	Township 26S	Range 32E	Lot	Ft. from N/S 450' FNL	Ft. from E/W 1,425' FEL	Latitude 32.019700°	Longitude -103.624421°	County LEA
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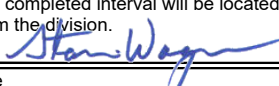
First Take Point (FTP)

UL A	Section 25	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,230' FEL	Latitude 32.020662°	Longitude -103.623794°	County LEA
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Last Take Point (LTP)

UL LOT 1	Section 36	Township 26S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1,230' FEL	Latitude 32.000511°	Longitude -103.623782°	County LEA
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Unitized Area or Area of Uniform Interest Unit	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  1/16/25 Signature Date Stan Wagner Printed Name Email Address		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 1/2/2025 Signature and Seal of Professional Surveyor Certificate Number 12177 Date of Survey 1/2/2025	
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Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

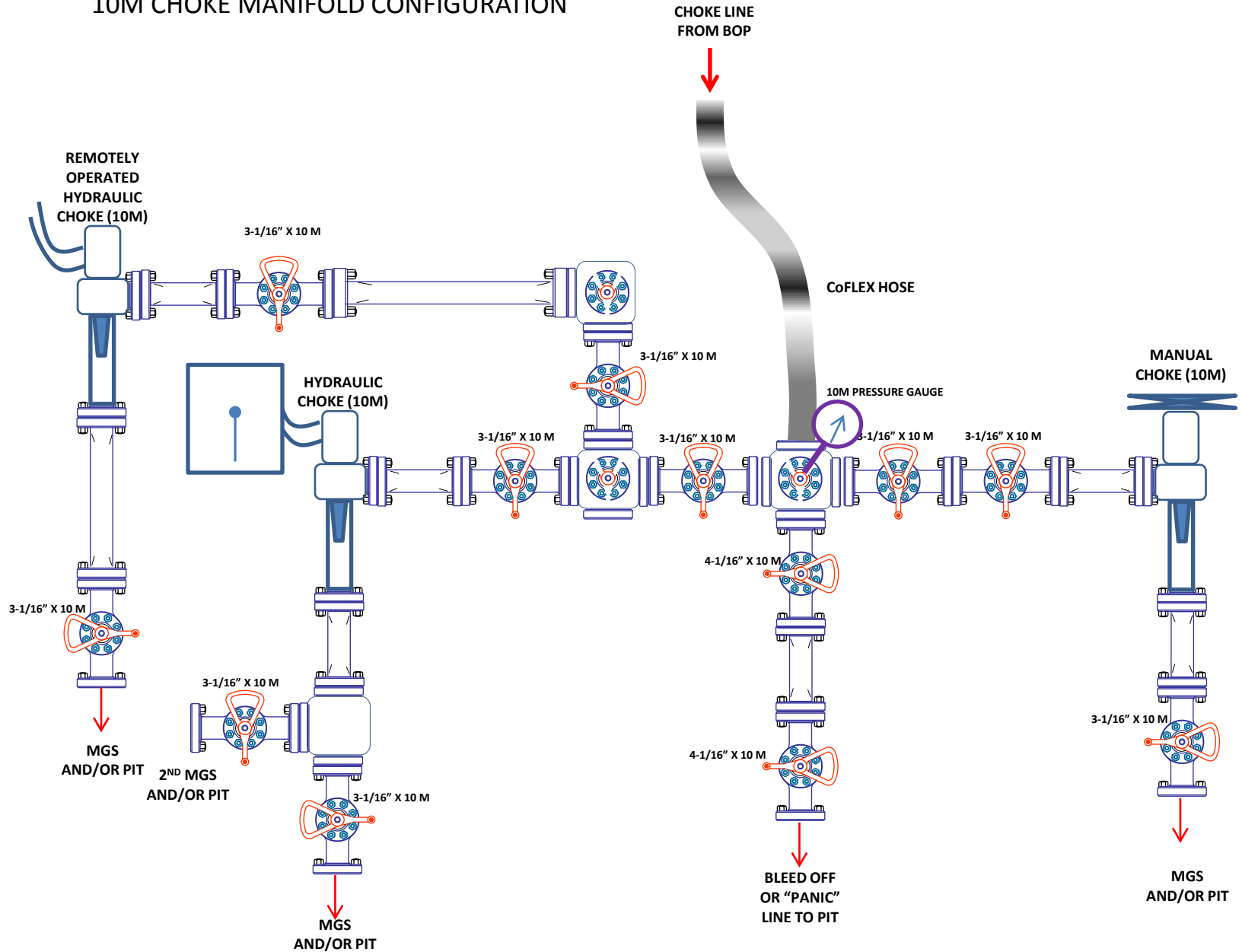
This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the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

BOTTOM HOLE LOCATION
50' FSL & 1,230' FEL

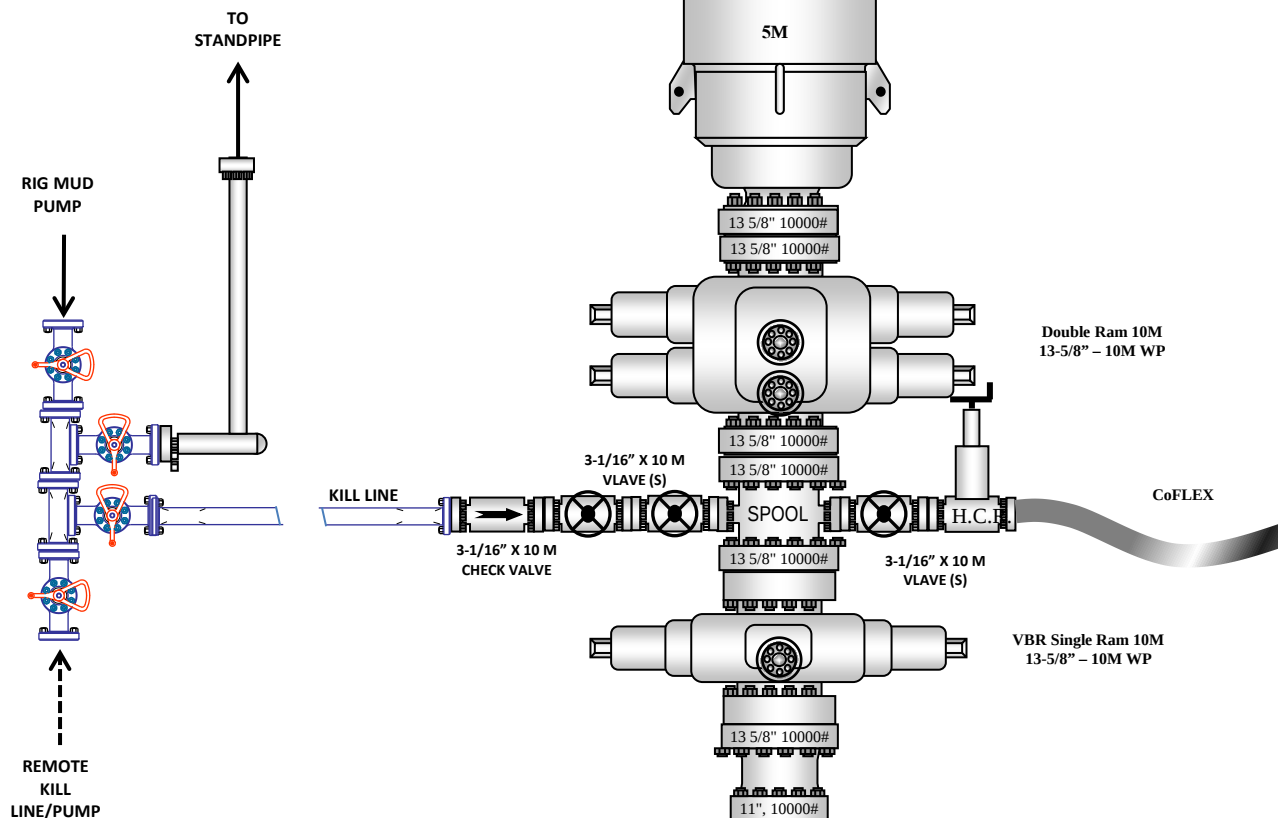
NAD 83 X = 761,291.70'
NAD 83 Y = 364,597.15'
NAD 83 LAT = 32.000373°
NAD 83 LONG = -103.623781°

CORNER COORDINATES NEW MEXICO EAST - NAD 83					
A	IRON PIPE W/BRASS CAP N:372,035.56' E:757,130.94'	E	IRON PIPE W/BRASS CAP N:366,738.27' E:762,506.35'	I	IRON PIPE W/BRASS CAP N:366,688.03' E:757,174.54'
B	IRON PIPE W/BRASS CAP N:372,062.44' E:759,798.66'	F	IRON PIPE W/BRASS CAP N:364,556.02' E:762,522.03'	J	IRON PIPE W/BRASS CAP N:369,361.57' E:757,151.04'
C	IRON PIPE W/BRASS CAP N:372,090.91' E:762,468.69'	G	IRON PIPE W/BRASS CAP N:364,537.04' E:759,854.08'	K	IRON PIPE W/BRASS CAP N:366,713.01' E:759,838.05'
D	IRON PIPE W/BRASS CAP N:369,412.14' E:762,488.67'	H	IRON PIPE W/BRASS CAP N:364,519.44' E:757,187.49'		

10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



ConocoPhillips Company - Zia Hills Unit 2532 WC #710H

1. Geologic Formations

TVD of target	12,367' EOL	Pilot hole depth	NA
MD at TD:	19,629'	Deepest expected fresh water:	300'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	509	Water	
Top of Salt	894	Salt	
Base of Salt	4254	Salt	
Lamar	4480	Salt Water	
Bell Canyon	4486	Salt Water	
Cherry Canyon	5669	Oil/Gas	
Brushy Canyon	7357	Oil/Gas	
Bone Spring	8630	Oil/Gas	
1st Bone Spring Sand	9805	Oil/Gas	
2nd Bone Spring Sand	10472	Oil/Gas	
3rd Bone Spring Sand	11560	Oil/Gas	
Wolfcamp	11975	Oil/Gas	
Wolfcamp A	12192	Target	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	750	10.750"	45.5	J55	BTC	6.09	1.14	20.95	23.33
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.48	1.08	2.88	2.90
8.750"	8500	11800	7.625"	29.7	P110-ICY	W513	1.33	1.63	3.05	1.83
6.75"	0	11600	5.5"	23	P110-CY	BTC	1.93	2.28	2.73	2.73
6.75"	11600	19,629	5.5"	23	P110-CY	W441	1.81	2.14	2.56	2.33
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	750	13.375"	54.5	J55	BTC	3.29	1.69	20.87	22.24
12.25"	0	4380	9.625"	40	L80-IC	BTC	1.89	1.37	5.23	5.41
8.75"	4180	11800	7.625"	29.7	P110-ICY	W513	1.33	1.63	3.05	1.83
6.75"	0	11600	5.5"	23	P110-CY	BTC	1.93	2.28	2.73	2.73
6.75"	11600	19,629	5.5"	23	P110-CY	W441	1.81	2.14	2.56	2.33
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

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.

February 3, 2025

1

ConocoPhillips Company - Zia Hills Unit 2532 WC #710H

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

ConocoPhillips Company - Zia Hills Unit 2532 WC #710H

3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	360	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	850	10.3	3.3	22	24	Halliburton tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	730	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	610	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%
1 st Intermediate	0'	50%
Production	11,300'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	450	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	630	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	300	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	300	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	820	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	610	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	4,180'	20%
Production	11,550'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2532 WC #710H

4. Pressure Control Equipment

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

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

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

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

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

ConocoPhillips Company - Zia Hills Unit 2532 WC #710H

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	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	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
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5b. Contingency Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Brine	8.4 - 9	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

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
N	CBL	
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - Zia Hills Unit 2532 WC #710H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8040 psi at 12367' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

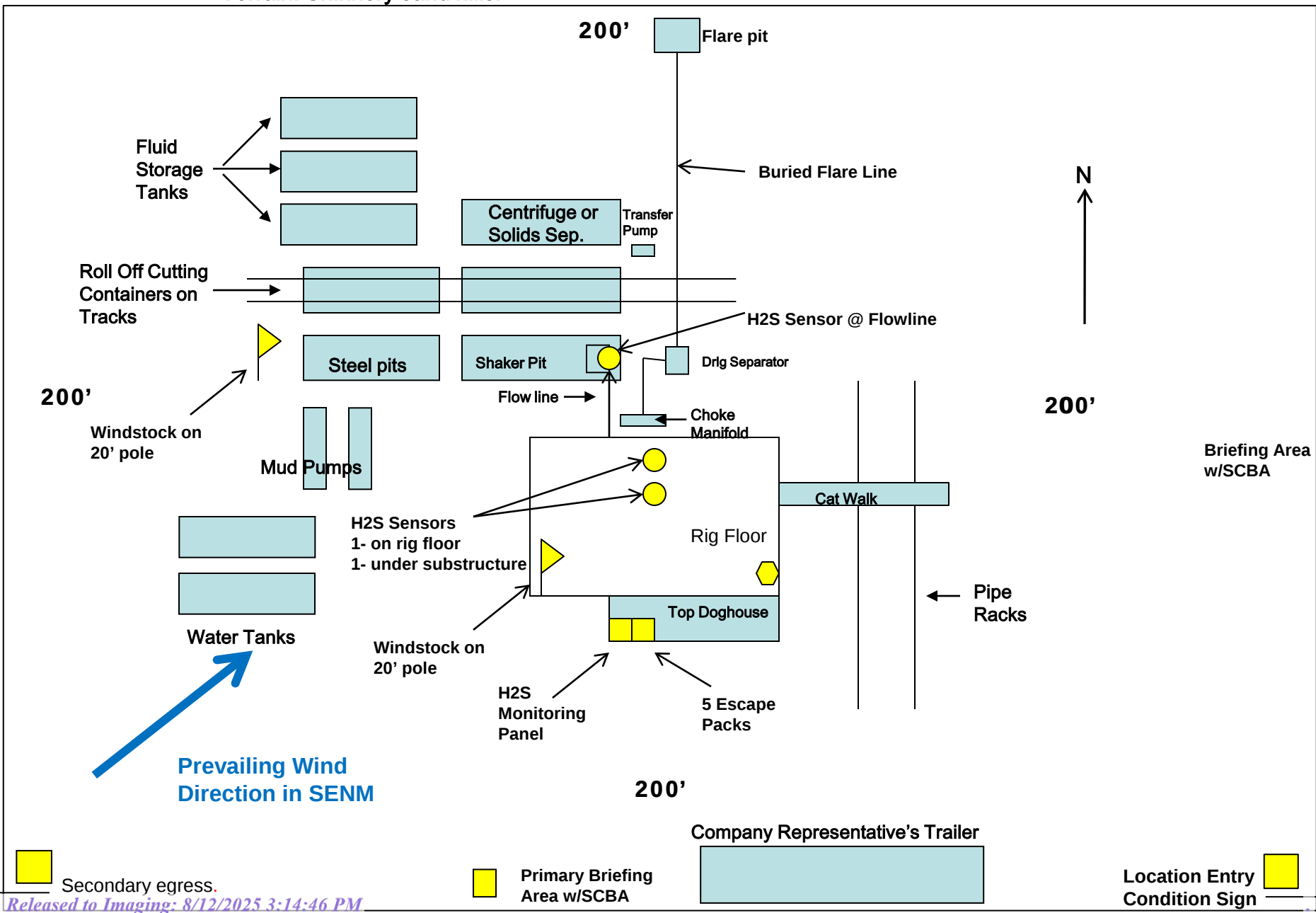
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

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

COG Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

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



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2532 PROJECT

**_ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532
WC 710H**

OWB

Plan: PWP0

Standard Planning Report

18 July, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2532 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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

Site	ZIA HILLS UNIT 2532 PROJECT		
Site Position:		Northing:	368,227.67 usft
From:	Map	Easting:	718,635.67 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 37.478 N
		Longitude:	103° 37' 40.703 W

Well	_ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H					
Well Position	+N/-S	0.0 usft	Northing:	371,570.03 usft	Latitude:	32° 1' 10.471 N
	+E/-W	0.0 usft	Easting:	719,909.85 usft	Longitude:	103° 37' 25.650 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,135.0 usft
Grid Convergence:	0.38 °					

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	7/16/2024	6.27	59.53	47,159.98167006

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	178.46

Plan Survey Tool Program	Date	7/18/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,628.7 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1 rev.5	

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Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2532 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,555.9	11.12	19.38	4,552.4	50.7	17.8	2.00	2.00	0.00	19.38	
5,924.3	11.12	19.38	5,895.1	299.6	105.4	0.00	0.00	0.00	0.00	
7,036.1	0.00	0.00	7,000.0	401.1	141.1	1.00	-1.00	0.00	180.00	
11,925.6	0.00	0.00	11,889.5	401.1	141.1	0.00	0.00	0.00	0.00	
12,675.6	90.00	179.63	12,367.0	-76.4	144.2	12.00	12.00	23.95	179.63	
19,628.7	90.00	179.63	12,367.0	-7,029.3	189.3	0.00	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2532 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	2.00	19.38	4,100.0	1.6	0.6	-1.6	2.00	2.00	0.00	
4,200.0	4.00	19.38	4,199.8	6.6	2.3	-6.5	2.00	2.00	0.00	
4,300.0	6.00	19.38	4,299.5	14.8	5.2	-14.7	2.00	2.00	0.00	
4,400.0	8.00	19.38	4,398.7	26.3	9.3	-26.0	2.00	2.00	0.00	
4,500.0	10.00	19.38	4,497.5	41.1	14.4	-40.7	2.00	2.00	0.00	
4,555.9	11.12	19.38	4,552.4	50.7	17.8	-50.2	2.00	2.00	0.00	
4,600.0	11.12	19.38	4,595.7	58.7	20.7	-58.2	0.00	0.00	0.00	
4,700.0	11.12	19.38	4,693.8	76.9	27.1	-76.2	0.00	0.00	0.00	
4,800.0	11.12	19.38	4,791.9	95.1	33.5	-94.2	0.00	0.00	0.00	
4,900.0	11.12	19.38	4,890.1	113.3	39.9	-112.2	0.00	0.00	0.00	
5,000.0	11.12	19.38	4,988.2	131.5	46.3	-130.2	0.00	0.00	0.00	
5,100.0	11.12	19.38	5,086.3	149.7	52.7	-148.2	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2532 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	11.12	19.38	5,184.4	167.9	59.1	-166.2	0.00	0.00	0.00	
5,300.0	11.12	19.38	5,282.6	186.1	65.5	-184.3	0.00	0.00	0.00	
5,400.0	11.12	19.38	5,380.7	204.3	71.9	-202.3	0.00	0.00	0.00	
5,500.0	11.12	19.38	5,478.8	222.5	78.2	-220.3	0.00	0.00	0.00	
5,600.0	11.12	19.38	5,576.9	240.7	84.6	-238.3	0.00	0.00	0.00	
5,700.0	11.12	19.38	5,675.0	258.9	91.0	-256.3	0.00	0.00	0.00	
5,800.0	11.12	19.38	5,773.2	277.0	97.4	-274.3	0.00	0.00	0.00	
5,900.0	11.12	19.38	5,871.3	295.2	103.8	-292.3	0.00	0.00	0.00	
5,924.3	11.12	19.38	5,895.1	299.6	105.4	-296.7	0.00	0.00	0.00	
6,000.0	10.36	19.38	5,969.5	313.0	110.1	-309.9	1.00	-1.00	0.00	
6,100.0	9.36	19.38	6,068.0	329.1	115.8	-325.9	1.00	-1.00	0.00	
6,200.0	8.36	19.38	6,166.8	343.6	120.9	-340.3	1.00	-1.00	0.00	
6,300.0	7.36	19.38	6,265.9	356.6	125.4	-353.0	1.00	-1.00	0.00	
6,400.0	6.36	19.38	6,365.2	367.8	129.4	-364.2	1.00	-1.00	0.00	
6,500.0	5.36	19.38	6,464.7	377.5	132.8	-373.7	1.00	-1.00	0.00	
6,600.0	4.36	19.38	6,564.3	385.4	135.6	-381.7	1.00	-1.00	0.00	
6,700.0	3.36	19.38	6,664.1	391.8	137.8	-388.0	1.00	-1.00	0.00	
6,800.0	2.36	19.38	6,763.9	396.5	139.5	-392.6	1.00	-1.00	0.00	
6,900.0	1.36	19.38	6,863.9	399.6	140.5	-395.6	1.00	-1.00	0.00	
7,000.0	0.36	19.38	6,963.9	401.0	141.0	-397.1	1.00	-1.00	0.00	
7,036.1	0.00	0.00	7,000.0	401.1	141.1	-397.2	1.00	-1.00	0.00	
7,100.0	0.00	0.00	7,063.9	401.1	141.1	-397.2	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,163.9	401.1	141.1	-397.2	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,263.9	401.1	141.1	-397.2	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,363.9	401.1	141.1	-397.2	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,463.9	401.1	141.1	-397.2	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,563.9	401.1	141.1	-397.2	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,663.9	401.1	141.1	-397.2	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,763.9	401.1	141.1	-397.2	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,863.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,963.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,063.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,163.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,263.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,363.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,463.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,563.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,663.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,763.9	401.1	141.1	-397.2	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,863.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,963.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,063.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,163.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,263.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,363.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,463.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,563.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,663.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,763.9	401.1	141.1	-397.2	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,863.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,963.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,063.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,163.9	401.1	141.1	-397.2	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2532 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,300.0	0.00	0.00	10,263.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,363.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,463.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,563.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,663.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,763.9	401.1	141.1	-397.2	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,863.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,963.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,063.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,163.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,263.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,363.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,463.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,563.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,663.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,763.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,863.9	401.1	141.1	-397.2	0.00	0.00	0.00	
11,925.6	0.00	0.00	11,889.5	401.1	141.1	-397.2	0.00	0.00	0.00	
11,950.0	2.92	179.63	11,913.9	400.5	141.1	-396.5	12.00	12.00	0.00	
11,975.0	5.92	179.63	11,938.8	398.6	141.1	-394.6	12.00	12.00	0.00	
12,000.0	8.92	179.63	11,963.6	395.3	141.1	-391.4	12.00	12.00	0.00	
12,025.0	11.92	179.63	11,988.2	390.8	141.1	-386.9	12.00	12.00	0.00	
12,050.0	14.92	179.63	12,012.5	385.0	141.2	-381.1	12.00	12.00	0.00	
12,075.0	17.92	179.63	12,036.4	377.9	141.2	-374.0	12.00	12.00	0.00	
12,100.0	20.92	179.63	12,060.0	369.6	141.3	-365.7	12.00	12.00	0.00	
12,125.0	23.92	179.63	12,083.1	360.1	141.3	-356.1	12.00	12.00	0.00	
12,150.0	26.92	179.63	12,105.7	349.3	141.4	-345.4	12.00	12.00	0.00	
12,175.0	29.92	179.63	12,127.7	337.4	141.5	-333.5	12.00	12.00	0.00	
12,200.0	32.92	179.63	12,149.0	324.4	141.6	-320.5	12.00	12.00	0.00	
12,225.0	35.92	179.63	12,169.6	310.3	141.7	-306.4	12.00	12.00	0.00	
12,250.0	38.92	179.63	12,189.5	295.1	141.8	-291.2	12.00	12.00	0.00	
12,275.0	41.92	179.63	12,208.5	278.9	141.9	-275.0	12.00	12.00	0.00	
12,300.0	44.92	179.63	12,226.7	261.7	142.0	-257.8	12.00	12.00	0.00	
12,325.0	47.92	179.63	12,243.9	243.6	142.1	-239.7	12.00	12.00	0.00	
12,350.0	50.92	179.63	12,260.2	224.6	142.2	-220.7	12.00	12.00	0.00	
12,375.0	53.92	179.63	12,275.4	204.8	142.4	-200.9	12.00	12.00	0.00	
12,400.0	56.92	179.63	12,289.6	184.2	142.5	-180.3	12.00	12.00	0.00	
12,425.0	59.92	179.63	12,302.7	162.9	142.6	-159.0	12.00	12.00	0.00	
12,450.0	62.92	179.63	12,314.6	141.0	142.8	-137.1	12.00	12.00	0.00	
12,475.0	65.92	179.63	12,325.4	118.4	142.9	-114.5	12.00	12.00	0.00	
12,500.0	68.92	179.63	12,335.0	95.3	143.1	-91.5	12.00	12.00	0.00	
12,525.0	71.92	179.63	12,343.4	71.8	143.2	-67.9	12.00	12.00	0.00	
12,550.0	74.92	179.63	12,350.5	47.8	143.4	-44.0	12.00	12.00	0.00	
12,575.0	77.92	179.63	12,356.4	23.5	143.5	-19.7	12.00	12.00	0.00	
12,600.0	80.92	179.63	12,361.0	-1.0	143.7	4.9	12.00	12.00	0.00	
12,625.0	83.92	179.63	12,364.3	-25.8	143.8	29.7	12.00	12.00	0.00	
12,650.0	86.92	179.63	12,366.3	-50.7	144.0	54.6	12.00	12.00	0.00	
12,675.6	90.00	179.63	12,367.0	-76.4	144.2	80.2	12.00	12.00	0.00	
12,700.0	90.00	179.63	12,367.0	-100.7	144.3	104.6	0.00	0.00	0.00	
12,800.0	90.00	179.63	12,367.0	-200.7	145.0	204.6	0.00	0.00	0.00	
12,900.0	90.00	179.63	12,367.0	-300.7	145.6	304.5	0.00	0.00	0.00	
13,000.0	90.00	179.63	12,367.0	-400.7	146.3	404.5	0.00	0.00	0.00	
13,100.0	90.00	179.63	12,367.0	-500.7	146.9	504.5	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2532 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.0	90.00	179.63	12,367.0	-600.7	147.6	604.5	0.00	0.00	0.00
13,300.0	90.00	179.63	12,367.0	-700.7	148.2	704.4	0.00	0.00	0.00
13,400.0	90.00	179.63	12,367.0	-800.7	148.9	804.4	0.00	0.00	0.00
13,500.0	90.00	179.63	12,367.0	-900.7	149.5	904.4	0.00	0.00	0.00
13,600.0	90.00	179.63	12,367.0	-1,000.7	150.2	1,004.4	0.00	0.00	0.00
13,700.0	90.00	179.63	12,367.0	-1,100.7	150.8	1,104.4	0.00	0.00	0.00
13,800.0	90.00	179.63	12,367.0	-1,200.7	151.5	1,204.3	0.00	0.00	0.00
13,900.0	90.00	179.63	12,367.0	-1,300.7	152.1	1,304.3	0.00	0.00	0.00
14,000.0	90.00	179.63	12,367.0	-1,400.7	152.8	1,404.3	0.00	0.00	0.00
14,100.0	90.00	179.63	12,367.0	-1,500.7	153.4	1,504.3	0.00	0.00	0.00
14,200.0	90.00	179.63	12,367.0	-1,600.7	154.1	1,604.3	0.00	0.00	0.00
14,300.0	90.00	179.63	12,367.0	-1,700.7	154.7	1,704.2	0.00	0.00	0.00
14,400.0	90.00	179.63	12,367.0	-1,800.7	155.4	1,804.2	0.00	0.00	0.00
14,500.0	90.00	179.63	12,367.0	-1,900.7	156.0	1,904.2	0.00	0.00	0.00
14,600.0	90.00	179.63	12,367.0	-2,000.7	156.7	2,004.2	0.00	0.00	0.00
14,700.0	90.00	179.63	12,367.0	-2,100.7	157.3	2,104.2	0.00	0.00	0.00
14,800.0	90.00	179.63	12,367.0	-2,200.7	158.0	2,204.1	0.00	0.00	0.00
14,900.0	90.00	179.63	12,367.0	-2,300.7	158.6	2,304.1	0.00	0.00	0.00
15,000.0	90.00	179.63	12,367.0	-2,400.7	159.3	2,404.1	0.00	0.00	0.00
15,100.0	90.00	179.63	12,367.0	-2,500.7	159.9	2,504.1	0.00	0.00	0.00
15,200.0	90.00	179.63	12,367.0	-2,600.7	160.5	2,604.0	0.00	0.00	0.00
15,300.0	90.00	179.63	12,367.0	-2,700.7	161.2	2,704.0	0.00	0.00	0.00
15,400.0	90.00	179.63	12,367.0	-2,800.7	161.8	2,804.0	0.00	0.00	0.00
15,500.0	90.00	179.63	12,367.0	-2,900.7	162.5	2,904.0	0.00	0.00	0.00
15,600.0	90.00	179.63	12,367.0	-3,000.7	163.1	3,004.0	0.00	0.00	0.00
15,700.0	90.00	179.63	12,367.0	-3,100.7	163.8	3,103.9	0.00	0.00	0.00
15,800.0	90.00	179.63	12,367.0	-3,200.7	164.4	3,203.9	0.00	0.00	0.00
15,900.0	90.00	179.63	12,367.0	-3,300.7	165.1	3,303.9	0.00	0.00	0.00
16,000.0	90.00	179.63	12,367.0	-3,400.7	165.7	3,403.9	0.00	0.00	0.00
16,100.0	90.00	179.63	12,367.0	-3,500.7	166.4	3,503.9	0.00	0.00	0.00
16,200.0	90.00	179.63	12,367.0	-3,600.6	167.0	3,603.8	0.00	0.00	0.00
16,300.0	90.00	179.63	12,367.0	-3,700.6	167.7	3,703.8	0.00	0.00	0.00
16,400.0	90.00	179.63	12,367.0	-3,800.6	168.3	3,803.8	0.00	0.00	0.00
16,500.0	90.00	179.63	12,367.0	-3,900.6	169.0	3,903.8	0.00	0.00	0.00
16,600.0	90.00	179.63	12,367.0	-4,000.6	169.6	4,003.8	0.00	0.00	0.00
16,700.0	90.00	179.63	12,367.0	-4,100.6	170.3	4,103.7	0.00	0.00	0.00
16,800.0	90.00	179.63	12,367.0	-4,200.6	170.9	4,203.7	0.00	0.00	0.00
16,900.0	90.00	179.63	12,367.0	-4,300.6	171.6	4,303.7	0.00	0.00	0.00
17,000.0	90.00	179.63	12,367.0	-4,400.6	172.2	4,403.7	0.00	0.00	0.00
17,100.0	90.00	179.63	12,367.0	-4,500.6	172.9	4,503.7	0.00	0.00	0.00
17,200.0	90.00	179.63	12,367.0	-4,600.6	173.5	4,603.6	0.00	0.00	0.00
17,300.0	90.00	179.63	12,367.0	-4,700.6	174.2	4,703.6	0.00	0.00	0.00
17,400.0	90.00	179.63	12,367.0	-4,800.6	174.8	4,803.6	0.00	0.00	0.00
17,500.0	90.00	179.63	12,367.0	-4,900.6	175.5	4,903.6	0.00	0.00	0.00
17,600.0	90.00	179.63	12,367.0	-5,000.6	176.1	5,003.5	0.00	0.00	0.00
17,700.0	90.00	179.63	12,367.0	-5,100.6	176.8	5,103.5	0.00	0.00	0.00
17,800.0	90.00	179.63	12,367.0	-5,200.6	177.4	5,203.5	0.00	0.00	0.00
17,900.0	90.00	179.63	12,367.0	-5,300.6	178.1	5,303.5	0.00	0.00	0.00
18,000.0	90.00	179.63	12,367.0	-5,400.6	178.7	5,403.5	0.00	0.00	0.00
18,100.0	90.00	179.63	12,367.0	-5,500.6	179.4	5,503.4	0.00	0.00	0.00
18,200.0	90.00	179.63	12,367.0	-5,600.6	180.0	5,603.4	0.00	0.00	0.00
18,300.0	90.00	179.63	12,367.0	-5,700.6	180.7	5,703.4	0.00	0.00	0.00
18,400.0	90.00	179.63	12,367.0	-5,800.6	181.3	5,803.4	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2532 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,500.0	90.00	179.63	12,367.0	-5,900.6	181.9	5,903.4	0.00	0.00	0.00	
18,600.0	90.00	179.63	12,367.0	-6,000.6	182.6	6,003.3	0.00	0.00	0.00	
18,700.0	90.00	179.63	12,367.0	-6,100.6	183.2	6,103.3	0.00	0.00	0.00	
18,800.0	90.00	179.63	12,367.0	-6,200.6	183.9	6,203.3	0.00	0.00	0.00	
18,900.0	90.00	179.63	12,367.0	-6,300.6	184.5	6,303.3	0.00	0.00	0.00	
19,000.0	90.00	179.63	12,367.0	-6,400.6	185.2	6,403.3	0.00	0.00	0.00	
19,100.0	90.00	179.63	12,367.0	-6,500.6	185.8	6,503.2	0.00	0.00	0.00	
19,200.0	90.00	179.63	12,367.0	-6,600.6	186.5	6,603.2	0.00	0.00	0.00	
19,300.0	90.00	179.63	12,367.0	-6,700.6	187.1	6,703.2	0.00	0.00	0.00	
19,400.0	90.00	179.63	12,367.0	-6,800.6	187.8	6,803.2	0.00	0.00	0.00	
19,500.0	90.00	179.63	12,367.0	-6,900.6	188.4	6,903.2	0.00	0.00	0.00	
19,600.0	90.00	179.63	12,367.0	-7,000.6	189.1	7,003.1	0.00	0.00	0.00	
19,628.7	90.00	179.63	12,367.0	-7,029.3	189.3	7,031.9	0.00	0.00	0.00	

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
FTP (ZIA HILLS UNIT 2532 WC 710H) - plan misses target center by 163.4usft at 12325.0usft MD (12243.9 TVD, 243.6 N, 142.1 E) - Circle (radius 50.0)	0.00	0.00	12,367.0	351.1	141.1	371,921.14	720,050.93	32° 1' 13.937 N	103° 37' 23.985 W
PBHL (ZIA HILLS UNIT 2532 WC 710H) - plan hits target center - Rectangle (sides W100.0 H7,367.0 D20.0)	0.00	359.63	12,367.0	-7,029.3	189.3	364,540.73	720,099.12	32° 0' 0.897 N	103° 37' 23.988 W
LTP (ZIA HILLS UNIT 2532 WC 710H) - plan misses target center by 0.1usft at 19578.7usft MD (12367.0 TVD, -6979.3 N, 188.9 E) - Circle (radius 50.0)	90.00	179.63	12,367.0	-6,979.3	189.1	364,590.73	720,098.91	32° 0' 1.392 N	103° 37' 23.987 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
19,628.8	12,367.0	5-1/2" Production Casing		5-1/2	6

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2532 PROJECT

_ZIA HILLS UNIT 2532 WC 710H

OWB

PWP0

Anticollision Report

18 July, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. SF of 2	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	7/18/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	19,628.7	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
RED HILLS WEST						
SD WE 24 FEDERAL P24 7H - OWB - AWP	1,125.4	1,161.5	669.8	655.4	46.534 CC	
SD WE 24 FEDERAL P24 7H - OWB - AWP	1,200.0	1,228.1	670.3	655.0	43.895 ES	
SD WE 24 FEDERAL P24 7H - OWB - AWP	8,700.0	8,757.0	840.3	791.1	17.075 SF	
SD WE 24 FEDERAL P24 5H - OWB - AWP	2,588.1	2,638.4	621.7	602.9	33.099 CC	
SD WE 24 FEDERAL P24 5H - OWB - AWP	2,600.0	2,649.7	621.7	602.9	33.013 ES	
SD WE 24 FEDERAL P24 5H - OWB - AWP	8,700.0	8,741.0	938.6	883.0	16.907 SF	
SD WE 24 FEDERAL P24 6H - OWB - AWP	8,504.4	8,508.9	143.6	107.6	3.985 CC, ES, SF	
ZIA HILLS UNIT 2532 PROJECT						
_ZIA HILLS UNIT 2532 WC 701H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 702H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 703H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 704H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 705H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0	1,000.0	1,000.0	30.0	21.8	3.666 CC	
_ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0	1,100.0	1,099.9	30.2	21.6	3.525 ES	
_ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0	1,200.0	1,199.5	31.4	22.5	3.510 SF	
_ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0	1,000.0	1,000.0	60.0	51.8	7.333 CC	
_ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0	1,100.0	1,099.6	60.3	51.8	7.038 ES	
_ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0	1,200.0	1,198.9	61.7	52.7	6.885 SF	
_ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0	1,000.0	1,000.0	89.9	81.7	10.985 CC, ES	
_ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0	19,628.7	19,661.8	855.9	711.0	5.905 SF	
_ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0	1,000.0	1,000.0	119.7	111.5	14.631 CC, ES	
_ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0	19,628.7	19,442.7	465.6	323.6	3.278 SF	
_ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0	1,284.6	1,285.0	26.4	17.2	2.860 Normal Operations, CC	
_ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0	1,300.0	1,300.4	26.5	17.2	2.848 Normal Operations, ES, SF	
_ZIA HILLS UNIT 2632 WC 714H - OWB - PWP0						Out of range
MELLISSA-FEDERAL #1 (P&A) - OWB - AWP	1,745.0	1,749.8	722.7	648.5	9.740 CC	
MELLISSA-FEDERAL #1 (P&A) - OWB - AWP	4,700.0	4,700.7	726.0	528.4	3.673 ES	
MELLISSA-FEDERAL #1 (P&A) - OWB - AWP	4,800.0	4,744.0	730.0	531.1	3.670 SF	
WAR HAMMER 25 FEDERAL COM W1 3H - OWB - AW	19,398.7	18,902.0	694.8	507.8	3.716 CC	
WAR HAMMER 25 FEDERAL COM W1 3H - OWB - AW	19,400.0	18,902.0	694.8	507.8	3.716 ES, SF	
WAR HAMMER 25 FEDERAL COM W2 2H - OWB - AW	12,224.1	12,234.2	614.5	549.7	9.476 CC	
WAR HAMMER 25 FEDERAL COM W2 2H - OWB - AW	12,225.0	12,235.0	614.5	549.7	9.476 ES	
WAR HAMMER 25 FEDERAL COM W2 2H - OWB - AW	12,300.0	12,295.0	616.5	551.2	9.449 SF	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2532 PROJECT						
WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST0	12,224.1	12,234.2	614.5	549.8	9.491 CC	
WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST0	19,389.1	19,670.0	717.0	529.6	3.825 ES, SF	
WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AW	12,161.9	12,169.1	762.9	701.6	12.449 CC	
WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AW	12,175.0	12,181.0	762.9	701.6	12.438 ES	
WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AW	12,275.0	12,265.5	765.6	703.9	12.412 SF	
WILDER-FEDERAL #15 (P&A) - OWB - AWP	3,764.7	3,749.8	693.6	664.5	23.823 CC	
WILDER-FEDERAL #15 (P&A) - OWB - AWP	4,200.0	4,185.3	699.0	652.4	14.986 ES	
WILDER-FEDERAL #15 (P&A) - OWB - AWP	4,700.0	4,675.0	748.2	681.4	11.193 SF	
WILDER-FEDERAL #23 (P&A) - OWB - AWP					Out of range	
WILDER-FEDERAL 9-X - OWB - AWP	754.6	749.8	693.6	661.1	21.350 CC	
WILDER-FEDERAL 9-X - OWB - AWP	4,200.0	4,197.4	699.0	522.4	3.958 ES	
WILDER-FEDERAL 9-X - OWB - AWP	4,700.0	4,691.7	748.2	550.9	3.792 SF	
ZIA HILLS 25E FEDERAL COM 401H - OWB - AWP	5,600.0	5,721.5	85.7	38.5	1.815 Caution - Monitor Closely, ES, SF	
ZIA HILLS 25E FEDERAL COM 401H - OWB - AWP	5,685.9	5,806.0	84.1	38.7	1.853 Caution - Monitor Closely, CC	
ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP	9,923.4	9,981.9	101.2	45.5	1.815 Caution - Monitor Closely, CC	
ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP	10,000.0	10,058.1	101.4	45.3	1.809 Caution - Monitor Closely, ES, SF	
ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP	4,348.3	4,400.6	939.9	921.3	50.491 CC, ES	
ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP	5,300.0	5,321.0	993.4	972.8	48.216 SF	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	0.0	24.9	940.1	935.5	200.916 CC	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	200.0	216.0	941.3	935.1	152.141 ES	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	1,600.0	1,564.2	995.4	981.6	72.101 SF	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	0.0	24.9	940.1	935.5	200.916 CC	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	200.0	216.0	941.3	935.1	152.141 ES	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	1,600.0	1,564.2	995.4	981.6	72.101 SF	

Offset Design:	RED HILLS WEST - SD WE 24 FEDERAL P24 7H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	33-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre		Rule Assigned:		Distance		No-Go		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
0.0	0.0	35.9	35.9	0.0	3.0	15.85	652.0	185.1	677.7	673.1	4.66	145.299	
100.0	100.0	131.9	131.9	1.2	3.3	15.86	652.2	185.3	678.1	672.7	5.35	126.733	
200.0	200.0	232.6	232.6	1.7	3.9	15.89	652.8	185.8	678.7	672.4	6.36	106.657	
300.0	300.0	336.0	336.0	2.1	4.6	15.91	653.0	186.1	679.0	671.5	7.47	90.840	
400.0	400.0	439.1	439.1	2.4	5.4	15.94	652.7	186.4	678.8	670.1	8.68	78.216	
500.0	500.0	541.9	541.9	2.7	6.2	15.97	651.9	186.6	678.1	668.2	9.94	68.197	
600.0	600.0	644.7	644.7	3.0	7.1	16.02	650.7	186.8	677.0	665.8	11.24	60.230	
700.0	700.0	744.4	744.4	3.2	7.3	16.07	649.4	187.1	675.8	664.3	11.54	58.553	
800.0	800.0	846.6	846.6	3.5	7.6	16.12	647.8	187.2	674.4	662.4	12.07	55.897	
900.0	900.0	947.6	947.5	3.7	7.9	16.16	646.1	187.2	672.7	660.2	12.56	53.554	
1,000.0	1,000.0	1,047.5	1,047.5	3.9	8.2	16.24	644.2	187.6	671.0	658.0	13.04	51.463	
1,100.0	1,100.0	1,138.8	1,138.7	4.1	8.9	16.44	642.5	189.6	669.9	655.8	14.10	47.523	
1,125.4	1,125.4	1,161.5	1,161.4	4.2	9.1	16.53	642.1	190.5	669.8	655.4	14.39	46.534 CC	
1,200.0	1,200.0	1,228.1	1,227.8	4.3	9.8	16.89	641.3	194.7	670.3	655.0	15.27	43.895 ES	
1,300.0	1,300.0	1,322.3	1,321.7	4.5	10.1	17.56	640.5	202.8	672.0	656.3	15.74	42.700	
1,400.0	1,400.0	1,419.0	1,417.9	4.7	10.3	18.34	640.1	212.1	674.5	658.5	16.07	41.984	
1,500.0	1,500.0	1,516.0	1,514.4	4.8	10.5	19.16	639.7	222.2	677.6	661.2	16.40	41.317	
1,600.0	1,600.0	1,614.0	1,611.8	5.0	10.7	20.01	639.4	232.8	680.9	664.2	16.73	40.695	

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

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P24 7H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 33-r-5 MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
1,700.0	1,700.0	1,708.6	1,705.8	5.2	10.9	20.88	639.3	243.9	684.9	667.9	17.05	40.162		
1,800.0	1,800.0	1,804.4	1,800.8	5.3	11.1	21.84	639.4	256.2	689.7	672.4	17.38	39.686		
1,900.0	1,900.0	1,903.0	1,898.4	5.5	11.4	22.90	639.3	270.1	695.0	677.3	17.72	39.214		
2,000.0	2,000.0	2,003.0	1,997.3	5.6	11.7	24.07	638.6	285.3	700.5	682.4	18.08	38.753		
2,100.0	2,100.0	2,104.6	2,097.6	5.8	12.0	25.30	637.3	301.3	706.0	687.6	18.44	38.283		
2,200.0	2,200.0	2,206.7	2,198.3	5.9	12.3	26.59	635.2	318.0	711.4	692.6	18.82	37.795		
2,300.0	2,300.0	2,308.9	2,298.9	6.1	12.7	27.94	632.2	335.3	716.6	697.4	19.21	37.309		
2,400.0	2,400.0	2,406.8	2,395.3	6.2	13.0	29.28	628.8	352.5	722.0	702.4	19.59	36.852		
2,500.0	2,500.0	2,506.6	2,493.4	6.4	13.4	30.67	625.0	370.6	727.9	707.9	19.99	36.413		
2,600.0	2,600.0	2,613.9	2,598.8	6.5	13.8	32.13	620.2	389.6	733.3	712.9	20.43	35.904		
2,700.0	2,700.0	2,716.6	2,699.9	6.6	14.2	33.49	614.9	406.8	738.2	717.3	20.85	35.406		
2,800.0	2,800.0	2,815.8	2,797.6	6.8	14.6	34.73	610.0	422.9	743.2	722.0	21.26	34.951		
2,900.0	2,900.0	2,912.9	2,893.6	6.9	15.0	35.84	605.9	437.6	748.6	726.9	21.70	34.493		
3,000.0	3,000.0	3,010.2	2,990.0	7.1	15.5	36.69	603.9	449.9	754.5	732.3	22.16	34.054		
3,100.0	3,100.0	3,102.8	3,082.0	7.2	15.8	37.35	603.5	460.6	761.1	738.5	22.55	33.754		
3,200.0	3,200.0	3,193.0	3,171.6	7.3	16.1	37.98	603.8	471.4	768.7	745.8	22.93	33.524		
3,300.0	3,300.0	3,287.9	3,265.7	7.4	16.5	38.67	604.4	483.7	777.3	753.9	23.35	33.283		
3,400.0	3,400.0	3,380.5	3,357.3	7.6	16.8	39.40	604.9	496.9	786.8	763.0	23.77	33.094		
3,500.0	3,500.0	3,471.2	3,447.0	7.7	17.2	40.16	605.6	511.0	797.4	773.1	24.21	32.935		
3,600.0	3,600.0	3,561.8	3,536.2	7.8	17.5	40.95	606.5	526.2	809.1	784.5	24.65	32.818		
3,700.0	3,700.0	3,653.0	3,626.0	7.9	17.9	41.76	607.7	542.5	822.0	796.8	25.13	32.715		
3,800.0	3,800.0	3,746.0	3,717.3	8.1	18.3	42.59	609.1	559.9	835.9	810.2	25.62	32.629		
3,900.0	3,900.0	3,845.9	3,815.2	8.2	18.7	43.54	609.9	579.7	850.1	823.9	26.18	32.473		
4,000.0	4,000.0	3,945.5	3,912.6	8.3	19.1	44.58	609.3	600.5	864.3	837.5	26.75	32.307		
4,100.0	4,100.0	4,045.0	4,009.6	8.5	19.5	26.26	607.2	622.3	877.1	849.7	27.38	32.036		
4,200.0	4,199.8	4,143.9	4,105.9	8.7	19.9	27.50	603.9	645.0	887.0	858.9	28.03	31.645		
4,300.0	4,299.5	4,242.7	4,201.9	8.9	20.4	28.86	600.1	667.8	894.1	865.4	28.71	31.148		
4,400.0	4,398.7	4,347.8	4,304.1	9.1	20.8	30.46	595.3	692.0	898.4	868.9	29.45	30.505		
4,500.0	4,497.5	4,451.3	4,404.6	9.3	21.3	32.24	589.1	715.8	899.4	869.1	30.21	29.768		
4,555.9	4,552.4	4,504.8	4,456.6	9.4	21.5	33.24	585.5	728.2	898.8	868.2	30.60	29.373		
4,600.0	4,595.7	4,546.8	4,497.3	9.5	21.7	34.04	582.5	737.9	898.3	867.4	30.91	29.064		
4,700.0	4,693.8	4,645.8	4,593.4	9.7	22.2	35.95	575.4	761.1	897.7	866.0	31.71	28.305		
4,800.0	4,791.9	4,755.6	4,700.6	9.9	22.9	37.84	570.0	783.7	897.0	864.3	32.70	27.434		
4,900.0	4,890.1	4,858.8	4,802.1	10.2	23.4	39.39	567.3	802.1	895.8	862.3	33.51	26.733		
5,000.0	4,988.2	4,958.3	4,900.1	10.4	23.8	40.86	564.9	819.3	894.9	860.6	34.25	26.126		
5,100.0	5,086.3	5,062.9	5,003.1	10.7	24.2	42.41	562.1	836.9	894.1	859.1	35.03	25.527		
5,200.0	5,184.4	5,167.4	5,106.2	11.0	24.7	43.96	559.1	853.7	893.0	857.3	35.80	24.947		
5,300.0	5,282.6	5,270.2	5,207.8	11.3	25.1	45.45	556.1	869.4	891.9	855.4	36.56	24.399		
5,400.0	5,380.7	5,372.5	5,309.0	11.6	25.5	46.92	553.4	884.3	890.8	853.5	37.31	23.877		
5,500.0	5,478.8	5,474.3	5,409.7	12.0	26.0	48.37	550.6	898.6	889.7	851.7	38.06	23.379		
5,600.0	5,576.9	5,580.3	5,514.7	12.3	26.4	49.86	547.8	912.7	888.6	849.8	38.81	22.895		
5,700.0	5,675.0	5,689.3	5,622.9	12.6	26.8	51.33	545.4	925.7	886.9	847.3	39.57	22.413		
5,800.0	5,773.2	5,810.1	5,743.1	13.0	27.3	52.86	543.7	937.4	883.7	843.3	40.37	21.892		
5,900.0	5,871.3	5,930.5	5,863.3	13.3	27.8	54.27	543.1	945.4	878.4	837.3	41.08	21.382		
5,924.3	5,895.1	5,959.6	5,892.3	13.4	27.9	54.60	543.1	946.8	876.8	835.6	41.24	21.263		
6,000.0	5,969.5	6,046.9	5,979.6	13.7	28.2	55.47	543.3	950.0	871.3	829.6	41.71	20.890		
6,100.0	6,068.0	6,145.3	6,077.9	14.0	28.5	56.37	543.6	953.0	864.6	822.3	42.28	20.448		
6,200.0	6,166.8	6,244.7	6,177.3	14.4	28.8	57.21	543.8	956.0	859.2	816.3	42.84	20.053		
6,300.0	6,265.9	6,345.5	6,278.1	14.8	29.1	57.99	544.0	958.9	854.7	811.3	43.39	19.697		
6,400.0	6,365.2	6,446.1	6,378.6	15.1	29.4	58.67	544.2	961.7	851.1	807.2	43.92	19.378		
6,500.0	6,464.7	6,546.6	6,479.1	15.5	29.6	59.22	545.0	964.2	848.4	804.0	44.43	19.096		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P24 7H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r-5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
6,600.0	6,564.3	6,649.3	6,581.8	15.8	29.9	59.66	546.2	966.4	846.5	801.6	44.91	18.849	
6,700.0	6,664.1	6,752.4	6,684.8	16.1	30.2	60.02	547.1	968.4	845.1	799.7	45.37	18.626	
6,800.0	6,763.9	6,855.0	6,787.4	16.4	30.4	60.29	547.8	969.9	844.2	798.4	45.81	18.430	
6,889.7	6,853.6	6,946.6	6,879.0	16.7	30.6	60.45	548.2	971.1	844.0	797.8	46.18	18.275	
6,900.0	6,863.9	6,957.0	6,889.4	16.7	30.7	60.46	548.3	971.3	844.0	797.8	46.22	18.259	
7,000.0	6,963.9	7,058.2	6,990.6	16.9	30.9	60.52	549.0	972.3	844.4	797.8	46.60	18.120	
7,036.1	7,000.0	7,095.0	7,027.4	17.0	30.9	79.89	549.4	972.7	844.7	798.0	46.72	18.082	
7,100.0	7,063.9	7,164.9	7,097.3	17.0	31.0	79.87	549.7	973.1	845.2	798.4	46.78	18.067	
7,200.0	7,163.9	7,274.4	7,206.8	17.1	31.1	79.90	549.2	972.9	844.9	798.0	46.89	18.019	
7,300.0	7,263.9	7,373.1	7,305.5	17.1	31.1	79.96	548.3	972.3	844.2	797.3	46.88	18.009	
7,400.0	7,363.9	7,472.9	7,405.3	17.2	31.1	80.00	547.6	971.8	843.6	796.7	46.85	18.005	
7,500.0	7,463.9	7,574.6	7,507.0	17.3	31.0	80.03	547.0	971.2	842.8	796.0	46.79	18.012	
7,600.0	7,563.9	7,673.9	7,606.2	17.4	31.0	80.05	546.5	970.4	842.0	795.2	46.77	18.004	
7,700.0	7,663.9	7,770.8	7,703.2	17.4	30.9	80.08	546.1	969.9	841.4	794.6	46.77	17.991	
7,800.0	7,763.9	7,869.2	7,801.5	17.5	31.0	80.11	545.6	969.7	841.1	794.3	46.81	17.967	
7,900.0	7,863.9	7,968.1	7,900.5	17.6	31.0	80.13	545.3	969.6	841.0	794.1	46.88	17.937	
8,000.0	7,963.9	8,067.8	8,000.1	17.6	31.1	80.14	545.1	969.6	840.9	793.9	46.99	17.894	
8,099.5	8,063.4	8,167.0	8,099.4	17.7	31.2	80.16	544.8	969.6	840.9	793.8	47.11	17.849	
8,100.0	8,063.9	8,167.5	8,099.9	17.7	31.2	80.16	544.8	969.6	840.9	793.8	47.11	17.848	
8,200.0	8,163.9	8,266.9	8,199.3	17.8	31.3	80.20	544.2	969.8	840.9	793.7	47.27	17.790	
8,300.0	8,263.9	8,367.5	8,299.9	17.8	31.4	80.26	543.4	970.0	841.0	793.6	47.40	17.743	
8,400.0	8,363.9	8,470.3	8,402.6	17.9	31.5	80.31	542.7	969.9	840.9	793.4	47.47	17.713	
8,500.0	8,463.9	8,569.2	8,501.5	18.0	31.6	80.36	541.9	969.8	840.5	793.0	47.50	17.694	
8,600.0	8,563.9	8,669.0	8,601.2	18.1	32.5	80.07	545.9	968.4	839.9	790.8	49.16	17.087	
8,638.0	8,601.8	8,706.1	8,637.8	18.1	32.6	79.66	551.8	967.2	839.7	790.5	49.16	17.080	
8,700.0	8,663.9	8,757.0	8,686.5	18.1	32.6	78.66	566.3	964.9	840.3	791.1	49.21	17.075 SF	
8,800.0	8,763.9	8,842.6	8,765.8	18.2	32.5	76.47	598.2	960.4	843.4	794.1	49.22	17.134	
8,900.0	8,863.9	8,940.1	8,852.8	18.3	32.4	73.52	641.3	953.0	848.0	798.8	49.15	17.253	
9,000.0	8,963.9	9,016.4	8,914.8	18.3	32.4	70.55	684.6	943.8	855.5	806.4	49.15	17.407	
9,100.0	9,063.9	9,063.8	8,949.5	18.4	32.4	68.39	716.3	936.9	869.0	819.8	49.22	17.658	
9,200.0	9,163.9	9,111.0	8,980.4	18.5	32.5	66.07	751.1	929.8	890.4	841.2	49.18	18.104	
9,300.0	9,263.9	9,111.0	8,980.4	18.6	32.5	66.07	751.1	929.8	920.2	871.1	49.03	18.766	
9,400.0	9,363.9	9,145.8	9,001.1	18.6	32.6	64.29	778.7	925.4	957.5	908.6	48.89	19.584	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P24 5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r-5 MWD												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	35.9	35.9	0.0	3.0	11.73	651.0	135.1	664.8	660.2	4.66	142.533	
100.0	100.0	132.2	132.2	1.2	3.3	11.68	651.3	134.7	665.1	659.8	5.35	124.293	
200.0	200.0	230.3	230.3	1.7	3.6	11.58	652.3	133.7	665.9	659.9	6.05	110.065	
300.0	300.0	332.5	332.5	2.1	4.0	11.52	653.2	133.1	666.7	659.8	6.82	97.801	
400.0	400.0	436.1	436.1	2.4	4.7	11.47	653.6	132.6	666.9	659.2	7.76	85.987	
500.0	500.0	538.6	538.5	2.7	5.3	11.44	653.5	132.2	666.7	657.9	8.77	75.990	
600.0	600.0	641.0	640.9	3.0	6.1	11.40	653.0	131.6	666.2	656.3	9.83	67.753	
700.0	700.0	742.2	742.2	3.2	6.5	11.35	652.2	130.9	665.3	654.8	10.48	63.484	
800.0	800.0	843.1	843.0	3.5	6.7	11.29	651.4	130.0	664.3	653.4	10.90	60.945	
900.0	900.0	944.5	944.4	3.7	7.1	11.19	650.5	128.7	663.1	651.7	11.43	58.013	
1,000.0	1,000.0	1,046.4	1,046.3	3.9	7.5	11.02	649.5	126.5	661.7	649.8	11.95	55.383	
1,100.0	1,100.0	1,148.4	1,148.2	4.1	7.9	10.63	648.6	121.7	660.0	647.6	12.46	52.988	
1,200.0	1,200.0	1,249.7	1,249.3	4.3	8.3	10.08	647.8	115.2	658.1	645.2	12.92	50.923	
1,300.0	1,300.0	1,351.3	1,350.6	4.5	8.6	9.47	646.9	107.9	656.0	642.6	13.38	49.014	
1,400.0	1,400.0	1,454.1	1,453.1	4.7	9.0	8.76	645.7	99.5	653.6	639.7	13.84	47.233	
1,500.0	1,500.0	1,556.1	1,554.6	4.8	9.4	7.97	644.3	90.1	650.8	636.5	14.28	45.578	
1,600.0	1,600.0	1,657.2	1,655.2	5.0	9.7	7.11	642.6	80.2	647.9	633.2	14.71	44.050	
1,700.0	1,700.0	1,758.7	1,756.1	5.2	10.1	6.18	640.8	69.4	644.9	629.7	15.13	42.616	
1,800.0	1,800.0	1,860.1	1,856.8	5.3	10.5	5.13	638.8	57.4	641.7	626.1	15.55	41.266	
1,900.0	1,900.0	1,960.0	1,955.8	5.5	10.9	4.00	636.6	44.5	638.5	622.5	15.96	39.995	
2,000.0	2,000.0	2,060.2	2,055.0	5.6	11.3	2.75	634.5	30.5	635.5	619.1	16.38	38.806	
2,100.0	2,100.0	2,162.6	2,156.2	5.8	11.7	1.36	631.9	15.0	632.4	615.6	16.79	37.665	
2,200.0	2,200.0	2,263.7	2,255.9	5.9	12.1	-0.15	628.8	-1.7	629.2	612.0	17.20	36.577	
2,300.0	2,300.0	2,363.3	2,353.9	6.1	12.5	-1.76	625.6	-19.2	626.1	608.5	17.61	35.551	
2,400.0	2,400.0	2,459.7	2,448.6	6.2	12.9	-3.39	622.4	-36.9	623.6	605.6	18.02	34.610	
2,500.0	2,500.0	2,554.7	2,541.9	6.4	13.3	-5.04	619.7	-54.6	622.1	603.7	18.42	33.768	
2,588.1	2,588.1	2,638.4	2,624.1	6.5	13.6	-6.49	617.7	-70.3	621.7	602.9	18.78	33.099 CC	
2,600.0	2,600.0	2,649.7	2,635.2	6.5	13.7	-6.68	617.5	-72.4	621.7	602.9	18.83	33.013 ES	
2,700.0	2,700.0	2,745.0	2,728.8	6.6	14.1	-8.29	615.8	-89.7	622.4	603.1	19.25	32.336	
2,800.0	2,800.0	2,845.3	2,827.6	6.8	14.5	-9.91	614.3	-107.3	623.6	604.0	19.68	31.694	
2,900.0	2,900.0	2,946.2	2,927.1	6.9	14.9	-11.43	612.6	-123.8	625.0	604.9	20.11	31.077	
3,000.0	3,000.0	3,046.7	3,026.4	7.1	15.3	-12.88	610.7	-139.7	626.5	606.0	20.54	30.495	
3,100.0	3,100.0	3,145.7	3,124.1	7.2	15.7	-14.27	608.7	-154.8	628.2	607.2	20.98	29.946	
3,200.0	3,200.0	3,242.4	3,219.8	7.3	16.2	-15.59	607.0	-169.4	630.4	609.0	21.40	29.453	
3,300.0	3,300.0	3,339.1	3,315.4	7.4	16.6	-16.87	605.7	-183.6	633.3	611.5	21.83	29.006	
3,400.0	3,400.0	3,435.7	3,411.0	7.6	17.0	-18.08	605.0	-197.5	636.9	614.6	22.27	28.601	
3,500.0	3,500.0	3,531.4	3,505.7	7.7	17.4	-19.26	604.6	-211.2	641.2	618.5	22.71	28.233	
3,600.0	3,600.0	3,626.6	3,599.7	7.8	17.8	-20.48	604.6	-225.8	646.4	623.2	23.16	27.905	
3,700.0	3,700.0	3,725.2	3,696.9	7.9	18.2	-21.87	604.2	-242.5	652.2	628.5	23.68	27.542	
3,800.0	3,800.0	3,823.1	3,793.0	8.1	18.7	-23.45	602.7	-261.5	658.4	634.2	24.22	27.180	
3,900.0	3,900.0	3,919.5	3,887.2	8.2	19.2	-25.12	600.8	-281.6	665.3	640.5	24.80	26.833	
4,000.0	4,000.0	4,019.2	3,984.6	8.3	19.6	-26.85	598.7	-303.1	673.0	647.6	25.40	26.496	
4,100.0	4,100.0	4,129.5	4,092.7	8.5	20.2	-27.99	596.0	-324.6	678.9	652.8	26.09	26.019	
4,200.0	4,199.8	4,238.0	4,199.6	8.7	20.7	-29.78	592.7	-342.9	681.2	654.5	26.75	25.466	
4,300.0	4,299.5	4,345.0	4,305.2	8.9	21.1	-31.78	588.5	-359.7	680.6	653.2	27.41	24.828	
4,400.0	4,398.7	4,447.6	4,406.4	9.1	21.5	-33.99	583.3	-375.3	677.5	649.5	27.99	24.201	
4,500.0	4,497.5	4,543.8	4,501.4	9.3	21.9	-36.38	577.9	-390.0	673.0	644.3	28.69	23.458	
4,555.9	4,552.4	4,597.2	4,554.0	9.4	22.2	-37.83	574.9	-398.3	670.1	641.0	29.08	23.045	
4,600.0	4,595.7	4,639.5	4,595.7	9.5	22.3	-38.98	572.4	-404.8	668.0	638.6	29.39	22.725	
4,700.0	4,693.8	4,736.3	4,691.3	9.7	22.7	-41.60	566.9	-419.3	663.9	633.8	30.15	22.018	
4,800.0	4,791.9	4,831.2	4,785.0	9.9	23.2	-44.15	561.7	-433.0	661.2	630.2	30.93	21.375	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P24 5H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 33-r.5 MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,900.0	4,890.1	4,923.2	4,875.9	10.2	23.5	-66.68	556.4	-446.9	660.2	628.4	31.73	20.807		
4,904.4	4,894.4	4,927.3	4,879.9	10.2	23.6	-66.79	556.2	-447.5	660.2	628.4	31.76	20.783		
5,000.0	4,988.2	5,009.9	4,961.3	10.4	23.9	-69.09	551.6	-460.6	661.3	628.8	32.55	20.317		
5,100.0	5,086.3	5,092.4	5,042.6	10.7	24.3	-71.32	548.3	-474.4	665.6	632.2	33.37	19.948		
5,200.0	5,184.4	5,179.9	5,128.8	11.0	24.7	-73.59	546.5	-489.7	673.0	638.8	34.20	19.675		
5,300.0	5,282.6	5,275.3	5,222.7	11.3	25.1	-75.95	545.2	-506.3	681.9	646.9	35.09	19.435		
5,400.0	5,380.7	5,372.0	5,318.0	11.6	25.5	-78.22	544.5	-522.6	692.0	656.1	35.97	19.239		
5,500.0	5,478.8	5,469.7	5,414.3	12.0	25.9	-80.45	543.8	-538.9	703.0	666.1	36.86	19.074		
5,600.0	5,576.9	5,569.3	5,512.6	12.3	26.4	-82.64	543.0	-555.0	714.6	676.9	37.74	18.935		
5,700.0	5,675.0	5,669.9	5,612.0	12.6	26.8	-84.77	542.0	-570.7	726.6	688.0	38.62	18.814		
5,800.0	5,773.2	5,764.4	5,705.3	13.0	27.2	-86.68	541.3	-585.1	739.2	699.8	39.45	18.740		
5,900.0	5,871.3	5,858.8	5,798.6	13.3	27.6	-88.51	540.9	-599.5	752.9	712.7	40.26	18.701		
5,924.3	5,895.1	5,882.3	5,821.8	13.4	27.7	-88.96	540.8	-603.1	756.4	715.9	40.45	18.697		
6,000.0	5,969.5	5,955.7	5,894.4	13.7	28.0	-90.39	540.7	-614.3	767.5	726.4	41.06	18.689		
6,100.0	6,068.0	6,053.4	5,991.0	14.0	28.5	-92.12	540.6	-629.1	782.5	740.7	41.86	18.694		
6,200.0	6,166.8	6,152.5	6,089.0	14.4	28.9	-93.69	540.5	-643.9	797.8	755.2	42.64	18.712		
6,300.0	6,265.9	6,251.9	6,187.3	14.8	29.3	-95.10	540.2	-658.5	813.2	769.8	43.40	18.739		
6,400.0	6,365.2	6,351.6	6,286.0	15.1	29.7	-96.35	539.7	-672.8	828.5	784.4	44.13	18.772		
6,500.0	6,464.7	6,450.4	6,383.7	15.5	30.2	-97.43	539.2	-686.9	843.6	798.8	44.85	18.812		
6,600.0	6,564.3	6,548.8	6,481.2	15.8	30.6	-98.37	538.6	-700.9	858.7	813.2	45.54	18.856		
6,700.0	6,664.1	6,654.8	6,586.1	16.1	31.0	-99.24	537.5	-715.6	873.3	827.0	46.25	18.880		
6,800.0	6,763.9	6,761.8	6,692.2	16.4	31.5	-99.98	535.8	-729.6	886.7	839.7	46.96	18.884		
6,900.0	6,863.9	6,868.2	6,797.8	16.7	31.9	-100.54	534.4	-742.4	899.0	851.4	47.62	18.879		
7,000.0	6,963.9	6,980.5	6,909.5	16.9	32.4	-100.92	533.7	-754.8	910.1	861.8	48.28	18.852		
7,036.1	7,000.0	7,022.8	6,951.5	17.0	32.6	-81.62	533.6	-758.9	913.6	865.1	48.50	18.837		
7,100.0	7,063.9	7,098.1	7,026.6	17.0	32.9	-81.67	533.9	-765.4	919.1	870.2	48.89	18.800		
7,200.0	7,163.9	7,226.4	7,154.6	17.1	33.3	-81.72	534.3	-773.7	925.5	876.0	49.49	18.700		
7,300.0	7,263.9	7,346.3	7,274.4	17.1	33.7	-81.76	534.2	-778.2	929.2	879.2	49.96	18.599		
7,400.0	7,363.9	7,459.2	7,387.3	17.2	34.1	-81.82	533.6	-780.5	931.1	880.7	50.37	18.487		
7,500.0	7,463.9	7,555.6	7,483.7	17.3	34.3	-81.87	532.9	-782.1	932.7	881.9	50.76	18.374		
7,600.0	7,563.9	7,653.8	7,581.8	17.4	34.6	-81.93	532.3	-784.0	934.6	883.4	51.15	18.270		
7,700.0	7,663.9	7,756.0	7,684.0	17.4	34.9	-81.99	531.5	-786.0	936.4	884.8	51.55	18.166		
7,800.0	7,763.9	7,862.0	7,790.0	17.5	35.1	-82.06	530.6	-787.7	937.8	886.0	51.85	18.086		
7,900.0	7,863.9	7,971.0	7,899.0	17.6	35.4	-82.10	530.0	-788.4	938.4	886.3	52.09	18.015		
8,000.0	7,963.9	8,075.4	8,003.3	17.6	35.4	-82.13	529.6	-788.3	938.3	886.1	52.13	18.000		
8,100.0	8,063.9	8,178.5	8,106.4	17.7	35.4	-82.17	528.9	-787.8	937.7	885.6	52.13	17.987		
8,200.0	8,163.9	8,278.6	8,206.6	17.8	35.4	-82.21	528.2	-787.2	937.0	884.9	52.08	17.991		
8,300.0	8,263.9	8,377.4	8,305.4	17.8	35.4	-82.25	527.3	-786.6	936.3	884.2	52.07	17.981		
8,400.0	8,363.9	8,474.8	8,402.7	17.9	35.4	-82.29	526.6	-786.3	935.8	883.7	52.10	17.961		
8,500.0	8,463.9	8,573.1	8,501.1	18.0	35.4	-82.34	525.8	-786.2	935.6	883.5	52.14	17.946		
8,515.0	8,478.9	8,587.0	8,514.9	18.0	35.6	-82.35	525.7	-786.2	935.6	883.2	52.41	17.853		
8,600.0	8,563.9	8,659.4	8,587.2	18.1	37.5	-82.07	530.3	-786.1	936.2	881.0	55.16	16.973		
8,700.0	8,663.9	8,741.0	8,666.8	18.1	37.8	-81.02	547.5	-785.4	938.6	883.0	55.51	16.907 SF		
8,800.0	8,763.9	8,814.6	8,735.1	18.2	37.8	-79.38	574.6	-784.2	943.6	888.2	55.44	17.021		
8,900.0	8,863.9	8,872.8	8,785.7	18.3	37.7	-77.66	603.3	-783.0	952.8	897.5	55.35	17.215		
9,000.0	8,963.9	8,934.0	8,835.7	18.3	37.7	-75.58	638.6	-782.9	968.1	912.9	55.15	17.553		
9,100.0	9,063.9	8,982.4	8,872.8	18.4	37.8	-73.80	669.6	-782.9	988.7	933.8	54.90	18.010		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P24 6H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	36.0	36.0	0.0	3.0	13.82	651.0	160.1	670.4	665.7	4.66	143.716	
100.0	100.0	134.9	134.9	1.2	3.3	13.80	651.1	159.9	670.5	665.0	5.44	123.340	
200.0	200.0	233.8	233.8	1.7	4.2	13.75	651.5	159.4	670.7	663.9	6.77	99.074	
300.0	300.0	336.4	336.3	2.1	4.8	13.67	651.9	158.5	670.9	663.1	7.80	85.959	
400.0	400.0	440.1	440.1	2.4	5.4	13.61	651.7	157.8	670.6	661.9	8.69	77.179	
500.0	500.0	542.1	542.1	2.7	5.8	13.56	651.1	157.0	669.8	660.4	9.37	71.518	
600.0	600.0	643.9	643.9	3.0	6.2	13.49	650.3	156.0	668.8	658.8	9.97	67.054	
700.0	700.0	745.1	745.1	3.2	6.3	13.47	649.0	155.5	667.4	657.1	10.28	64.896	
800.0	800.0	847.7	847.7	3.5	6.5	13.52	647.4	155.6	666.0	655.2	10.75	61.931	
900.0	900.0	953.2	953.1	3.7	6.9	13.56	645.1	155.6	663.8	652.5	11.34	58.530	
1,000.0	1,000.0	1,056.0	1,055.9	3.9	7.2	13.59	642.2	155.2	661.0	649.1	11.90	55.536	
1,100.0	1,100.0	1,158.1	1,157.9	4.1	7.6	13.57	639.1	154.2	657.8	645.3	12.45	52.822	
1,200.0	1,200.0	1,259.8	1,259.6	4.3	7.9	13.52	635.8	152.8	654.3	641.3	12.99	50.359	
1,300.0	1,300.0	1,362.4	1,362.1	4.5	8.3	13.45	632.2	151.2	650.6	637.0	13.54	48.064	
1,400.0	1,400.0	1,466.9	1,466.5	4.7	8.6	13.36	628.0	149.2	646.2	632.1	14.08	45.885	
1,500.0	1,500.0	1,570.5	1,570.0	4.8	9.0	13.26	623.2	146.8	641.2	626.6	14.62	43.842	
1,600.0	1,600.0	1,673.5	1,672.8	5.0	9.3	13.13	618.0	144.2	635.6	620.5	15.16	41.921	
1,700.0	1,700.0	1,776.3	1,775.3	5.2	9.7	12.97	612.4	141.0	629.6	613.9	15.70	40.109	
1,800.0	1,800.0	1,879.3	1,878.1	5.3	10.0	12.75	606.4	137.2	623.1	606.9	16.23	38.386	
1,900.0	1,900.0	1,984.0	1,982.6	5.5	10.4	12.48	599.7	132.7	616.0	599.2	16.78	36.710	
2,000.0	2,000.0	2,086.1	2,084.3	5.6	10.8	12.20	592.5	128.1	608.1	590.8	17.32	35.119	
2,100.0	2,100.0	2,185.1	2,183.0	5.8	11.2	11.94	585.5	123.8	600.2	582.4	17.84	33.644	
2,200.0	2,200.0	2,279.3	2,276.8	5.9	11.5	11.72	579.0	120.1	592.7	574.4	18.34	32.314	
2,300.0	2,300.0	2,371.1	2,368.4	6.1	11.8	11.55	573.8	117.3	586.5	567.7	18.83	31.144	
2,400.0	2,400.0	2,467.6	2,464.8	6.2	12.2	11.42	569.2	114.9	581.4	562.1	19.33	30.081	
2,500.0	2,500.0	2,565.7	2,562.8	6.4	12.5	11.28	564.9	112.7	576.6	556.8	19.82	29.087	
2,600.0	2,600.0	2,669.5	2,666.5	6.5	12.9	11.13	560.1	110.2	571.7	551.3	20.34	28.101	
2,700.0	2,700.0	2,771.9	2,768.6	6.6	13.2	10.95	554.8	107.3	566.0	545.1	20.85	27.141	
2,800.0	2,800.0	2,868.2	2,864.8	6.8	13.5	10.80	549.9	104.9	560.5	539.2	21.34	26.264	
2,900.0	2,900.0	2,963.8	2,960.3	6.9	13.9	10.69	545.6	102.9	555.7	533.9	21.82	25.469	
3,000.0	3,000.0	3,058.0	3,054.5	7.1	14.2	10.58	542.2	101.3	551.9	529.6	22.28	24.773	
3,100.0	3,100.0	3,153.5	3,149.9	7.2	14.5	10.49	539.6	99.9	549.0	526.3	22.72	24.160	
3,200.0	3,200.0	3,250.2	3,246.5	7.3	14.8	10.47	537.6	99.3	546.8	523.6	23.16	23.608	
3,300.0	3,300.0	3,346.2	3,342.5	7.4	15.0	10.54	535.9	99.7	545.2	521.6	23.56	23.137	
3,400.0	3,400.0	3,441.8	3,438.1	7.6	15.2	10.77	534.8	101.7	544.4	520.4	23.95	22.728	
3,458.1	3,458.1	3,497.8	3,494.1	7.6	15.3	10.94	534.4	103.3	544.3	520.2	24.09	22.595	
3,500.0	3,500.0	3,538.4	3,534.6	7.7	15.3	11.04	534.3	104.3	544.3	520.2	24.16	22.531	
3,600.0	3,600.0	3,635.0	3,631.3	7.8	15.3	11.17	534.5	105.5	544.9	520.6	24.33	22.399	
3,700.0	3,700.0	3,733.9	3,730.2	7.9	15.3	11.19	535.4	105.9	545.8	521.4	24.41	22.357	
3,800.0	3,800.0	3,832.5	3,828.7	8.1	15.3	11.16	536.6	105.9	547.0	522.5	24.50	22.329	
3,900.0	3,900.0	3,930.4	3,926.6	8.2	15.3	11.15	538.1	106.0	548.6	524.0	24.57	22.327	
4,000.0	4,000.0	4,029.3	4,025.5	8.3	15.3	11.20	539.8	106.9	550.4	525.8	24.65	22.326	
4,100.0	4,100.0	4,129.9	4,126.1	8.5	15.3	-8.04	541.4	108.8	550.6	525.8	24.80	22.202	
4,200.0	4,199.8	4,233.3	4,229.4	8.7	15.4	-7.83	542.4	112.0	547.0	521.9	25.00	21.874	
4,300.0	4,299.5	4,338.0	4,334.0	8.9	15.4	-7.56	542.3	116.0	539.0	513.8	25.25	21.344	
4,400.0	4,398.7	4,442.3	4,438.3	9.1	15.5	-7.31	541.2	120.0	526.7	501.2	25.49	20.667	
4,500.0	4,497.5	4,542.2	4,538.1	9.3	15.6	-7.16	539.7	123.5	510.4	484.6	25.85	19.747	
4,555.9	4,552.4	4,597.8	4,593.7	9.4	15.7	-7.11	538.7	125.3	499.7	473.7	26.02	19.202	
4,600.0	4,595.7	4,637.9	4,633.7	9.5	15.8	-7.07	538.1	126.5	490.9	464.8	26.13	18.789	
4,700.0	4,693.8	4,725.8	4,721.6	9.7	15.8	-7.04	538.2	128.9	472.4	446.0	26.37	17.915	
4,800.0	4,791.9	4,817.5	4,813.3	9.9	15.9	-7.11	540.3	131.0	455.9	429.3	26.60	17.139	

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

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Anticollision Report

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P24 6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 33-r.5 MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,900.0	4,890.1	4,917.2	4,912.9	10.2	15.9	-7.23	543.0	133.1	439.9	413.1	26.79	16.418		
5,000.0	4,988.2	5,018.1	5,013.8	10.4	15.9	-7.40	545.5	134.9	423.5	396.5	27.02	15.673		
5,100.0	5,086.3	5,120.0	5,115.6	10.7	16.0	-7.83	547.6	134.8	406.4	379.1	27.29	14.894		
5,200.0	5,184.4	5,219.7	5,215.3	11.0	16.0	-8.50	549.4	133.3	388.7	361.1	27.58	14.096		
5,300.0	5,282.6	5,318.8	5,314.4	11.3	16.1	-9.22	550.9	131.8	370.8	343.0	27.88	13.301		
5,400.0	5,380.7	5,417.3	5,412.8	11.6	16.1	-9.98	552.2	130.5	352.9	324.7	28.20	12.516		
5,500.0	5,478.8	5,515.9	5,511.4	12.0	16.2	-10.78	553.5	129.3	335.0	306.4	28.52	11.744		
5,600.0	5,576.9	5,614.9	5,610.4	12.3	16.3	-11.68	554.6	128.2	316.9	288.1	28.87	10.980		
5,700.0	5,675.0	5,713.8	5,709.3	12.6	16.4	-12.67	555.4	127.0	298.7	269.5	29.22	10.223		
5,800.0	5,773.2	5,812.6	5,808.1	13.0	16.5	-13.79	556.0	125.9	280.4	250.8	29.59	9.476		
5,900.0	5,871.3	5,911.0	5,906.5	13.3	16.6	-15.04	556.4	124.9	262.0	232.1	29.97	8.744		
5,924.3	5,895.1	5,934.9	5,930.4	13.4	16.6	-15.36	556.5	124.6	257.6	227.5	30.05	8.572		
6,000.0	5,969.5	6,009.3	6,004.8	13.7	16.7	-16.37	556.8	123.9	244.2	213.9	30.32	8.053		
6,100.0	6,068.0	6,107.9	6,103.4	14.0	16.9	-17.75	557.1	123.1	228.1	197.4	30.69	7.431		
6,200.0	6,166.8	6,206.8	6,202.2	14.4	17.0	-19.20	557.4	122.2	213.7	182.7	31.05	6.883		
6,300.0	6,265.9	6,305.9	6,301.4	14.8	17.1	-20.67	557.6	121.4	201.1	169.7	31.39	6.406		
6,400.0	6,365.2	6,405.3	6,400.7	15.1	17.3	-22.13	557.8	120.6	190.2	158.5	31.72	5.996		
6,500.0	6,464.7	6,505.0	6,500.4	15.5	17.4	-23.47	558.0	120.1	181.0	148.9	32.05	5.646		
6,600.0	6,564.3	6,604.8	6,600.2	15.8	17.6	-24.65	558.0	119.8	173.3	140.9	32.38	5.352		
6,700.0	6,664.1	6,704.7	6,700.1	16.1	17.7	-25.75	558.0	119.4	167.2	134.5	32.70	5.113		
6,800.0	6,763.9	6,804.8	6,800.3	16.4	17.9	-26.78	557.8	118.6	162.6	129.6	33.02	4.925		
6,900.0	6,863.9	6,905.1	6,900.6	16.7	18.1	-27.74	557.3	117.4	159.4	126.1	33.31	4.785		
7,000.0	6,963.9	7,005.4	7,000.8	16.9	18.3	-28.56	556.5	115.9	157.6	124.0	33.59	4.690		
7,036.1	7,000.0	7,041.6	7,037.0	17.0	18.4	-9.41	556.2	115.4	157.2	123.6	33.66	4.671		
7,100.0	7,063.9	7,105.6	7,101.0	17.0	18.5	-9.81	555.6	114.4	156.8	123.0	33.75	4.645		
7,200.0	7,163.9	7,205.3	7,200.8	17.1	18.7	-10.42	554.7	112.8	156.1	122.2	33.92	4.603		
7,300.0	7,263.9	7,305.4	7,300.8	17.1	18.9	-11.01	553.9	111.4	155.6	121.5	34.09	4.565		
7,400.0	7,363.9	7,405.8	7,401.2	17.2	19.2	-11.66	552.8	109.8	154.9	120.6	34.25	4.522		
7,500.0	7,463.9	7,506.2	7,501.6	17.3	19.4	-12.38	551.4	108.1	153.9	119.5	34.41	4.472		
7,600.0	7,563.9	7,606.5	7,601.8	17.4	19.6	-13.02	549.9	106.7	152.7	118.1	34.58	4.416		
7,700.0	7,663.9	7,706.2	7,701.5	17.4	19.8	-13.59	548.3	105.5	151.5	116.7	34.76	4.358		
7,800.0	7,763.9	7,805.8	7,801.2	17.5	20.0	-14.07	547.1	104.5	150.5	115.6	34.95	4.307		
7,900.0	7,863.9	7,905.9	7,901.2	17.6	20.2	-14.58	545.9	103.4	149.7	114.5	35.13	4.260		
8,000.0	7,963.9	8,005.9	8,001.2	17.6	20.5	-15.18	544.7	102.1	148.8	113.5	35.30	4.215		
8,100.0	8,063.9	8,106.0	8,101.3	17.7	20.7	-15.84	543.4	100.7	147.9	112.4	35.46	4.170		
8,200.0	8,163.9	8,206.0	8,201.3	17.8	20.9	-16.55	541.9	99.2	146.9	111.3	35.62	4.125		
8,300.0	8,263.9	8,306.0	8,301.2	17.8	21.2	-17.24	540.5	97.8	146.0	110.2	35.77	4.081		
8,400.0	8,363.9	8,406.5	8,401.6	17.9	21.4	-17.94	539.0	96.4	145.0	109.1	35.91	4.037		
8,500.0	8,463.9	8,505.0	8,500.2	18.0	21.6	-18.74	537.1	94.9	143.6	107.6	36.04	3.986		
8,504.4	8,468.3	8,508.9	8,504.1	18.0	21.7	-18.77	537.1	94.9	143.6	107.6	36.05	3.985 CC, ES, SF		
8,600.0	8,563.9	8,581.0	8,576.1	18.1	22.1	-19.07	539.5	93.2	148.4	112.3	36.08	4.113		
8,700.0	8,663.9	8,669.0	8,661.7	18.1	22.6	-18.22	558.1	89.4	169.6	131.8	37.84	4.482		
8,800.0	8,763.9	8,722.9	8,711.3	18.2	22.6	-17.24	579.0	85.9	206.2	168.5	37.70	5.471		
8,900.0	8,863.9	8,790.3	8,770.4	18.3	22.6	-16.01	610.8	80.9	253.7	215.9	37.73	6.722		
9,000.0	8,963.9	8,846.0	8,817.3	18.3	22.6	-14.69	640.8	78.2	307.9	270.3	37.56	8.197		
9,100.0	9,063.9	8,908.9	8,867.4	18.4	22.6	-13.09	678.8	76.5	367.9	330.2	37.73	9.752		
9,200.0	9,163.9	8,954.3	8,901.2	18.5	22.6	-11.98	709.0	75.8	433.9	396.1	37.74	11.497		
9,300.0	9,263.9	8,990.9	8,926.6	18.6	22.7	-11.09	735.3	75.6	505.3	467.5	37.80	13.370		
9,400.0	9,363.9	9,023.0	8,947.2	18.6	22.7	-10.33	759.9	75.7	581.3	543.4	37.90	15.338		
9,500.0	9,463.9	9,051.6	8,964.4	18.7	22.7	-9.69	782.8	75.9	660.8	622.9	37.97	17.404		

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Anticollision Report

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	RED HILLS WEST - SD WE 24 FEDERAL P24 6H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	33-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	No-Go Distance	Separation Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
9,600.0	9,563.9	9,077.3	8,978.8	18.8	22.8	-9.18	804.0	76.0	743.2	705.1	38.09	19.512	
9,700.0	9,663.9	9,111.0	8,996.4	18.9	22.8	-8.58	832.9	75.9	828.0	789.6	38.37	21.578	
9,800.0	9,763.9	9,111.0	8,996.4	18.9	22.8	-8.58	832.9	75.9	914.5	876.2	38.31	23.870	

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Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-0.50	30.0	-0.3	30.0	29.5	0.48	62.571		
100.0	100.0	100.0	100.0	1.2	1.2	-0.50	30.0	-0.3	30.0	27.1	2.87	10.464		
200.0	200.0	200.0	200.0	1.7	1.7	-0.50	30.0	-0.3	30.0	26.1	3.86	7.765		
300.0	300.0	300.0	300.0	2.1	2.1	-0.50	30.0	-0.3	30.0	25.4	4.63	6.475		
400.0	400.0	400.0	400.0	2.4	2.4	-0.50	30.0	-0.3	30.0	24.7	5.29	5.674		
500.0	500.0	500.0	500.0	2.7	2.7	-0.50	30.0	-0.3	30.0	24.1	5.87	5.114		
600.0	600.0	600.0	600.0	3.0	3.0	-0.50	30.0	-0.3	30.0	23.6	6.39	4.692		
700.0	700.0	700.0	700.0	3.2	3.2	-0.50	30.0	-0.3	30.0	23.1	6.88	4.359		
800.0	800.0	800.0	800.0	3.5	3.5	-0.50	30.0	-0.3	30.0	22.7	7.34	4.088		
900.0	900.0	900.0	900.0	3.7	3.7	-0.50	30.0	-0.3	30.0	22.2	7.77	3.860		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-0.50	30.0	-0.3	30.0	21.8	8.18	3.666 CC		
1,100.0	1,100.0	1,099.9	1,099.8	4.1	4.2	-3.79	30.2	-2.0	30.2	21.6	8.57	3.525 ES		
1,200.0	1,200.0	1,199.5	1,199.3	4.3	4.5	-13.20	30.6	-7.2	31.4	22.5	8.96	3.510 SF		
1,300.0	1,300.0	1,298.6	1,298.1	4.5	4.8	-26.67	31.4	-15.8	35.1	25.8	9.39	3.742		
1,400.0	1,400.0	1,397.0	1,395.8	4.7	5.2	-40.46	32.4	-27.6	42.8	32.9	9.90	4.324		
1,500.0	1,500.0	1,494.5	1,492.1	4.8	5.5	-51.70	33.7	-42.7	55.0	44.5	10.44	5.265		
1,600.0	1,600.0	1,590.9	1,586.7	5.0	5.9	-59.85	35.3	-60.7	71.5	60.5	10.99	6.509		
1,700.0	1,700.0	1,688.5	1,682.2	5.2	6.2	-65.40	37.1	-81.0	90.8	79.3	11.50	7.894		
1,800.0	1,800.0	1,786.3	1,777.8	5.3	6.5	-69.01	38.8	-101.2	110.6	98.6	12.02	9.207		
1,900.0	1,900.0	1,884.1	1,873.5	5.5	6.8	-71.52	40.6	-121.5	130.8	118.2	12.54	10.428		
2,000.0	2,000.0	1,981.9	1,969.2	5.6	7.2	-73.35	42.4	-141.7	151.1	138.0	13.08	11.555		
2,100.0	2,100.0	2,079.7	2,064.9	5.8	7.5	-74.76	44.1	-162.0	171.5	157.9	13.62	12.592		
2,200.0	2,200.0	2,177.6	2,160.6	5.9	7.9	-75.86	45.9	-182.2	192.0	177.9	14.18	13.545		
2,300.0	2,300.0	2,275.4	2,256.2	6.1	8.3	-76.75	47.7	-202.5	212.6	197.9	14.74	14.421		
2,400.0	2,400.0	2,373.2	2,351.9	6.2	8.7	-77.48	49.5	-222.8	233.2	217.9	15.32	15.226		
2,500.0	2,500.0	2,471.0	2,447.6	6.4	9.1	-78.09	51.2	-243.0	253.8	237.9	15.90	15.968		
2,600.0	2,600.0	2,568.8	2,543.3	6.5	9.5	-78.62	53.0	-263.3	274.5	258.0	16.48	16.652		
2,700.0	2,700.0	2,666.6	2,638.9	6.6	9.9	-79.06	54.8	-283.5	295.2	278.1	17.08	17.283		
2,800.0	2,800.0	2,764.4	2,734.6	6.8	10.3	-79.45	56.6	-303.8	315.9	298.2	17.68	17.867		
2,900.0	2,900.0	2,862.3	2,830.3	6.9	10.7	-79.80	58.3	-324.1	336.6	318.3	18.28	18.409		
3,000.0	3,000.0	2,960.1	2,926.0	7.1	11.1	-80.10	60.1	-344.3	357.3	338.4	18.89	18.911		
3,100.0	3,100.0	3,055.9	3,019.7	7.2	11.5	-80.36	61.9	-364.2	378.1	358.6	19.47	19.423		
3,200.0	3,200.0	3,144.1	3,105.7	7.3	11.9	-80.39	65.0	-383.7	400.5	380.5	20.00	20.020		
3,300.0	3,300.0	3,232.9	3,191.7	7.4	12.3	-80.17	70.2	-405.1	425.1	404.6	20.56	20.682		
3,400.0	3,400.0	3,329.6	3,285.2	7.6	12.7	-79.88	76.6	-429.0	450.6	429.4	21.19	21.265		
3,500.0	3,500.0	3,426.3	3,378.6	7.7	13.2	-79.61	83.0	-452.8	476.1	454.3	21.83	21.808		
3,600.0	3,600.0	3,522.9	3,472.1	7.8	13.6	-79.38	89.4	-476.7	501.6	479.1	22.48	22.317		
3,700.0	3,700.0	3,619.6	3,565.5	7.9	14.1	-79.16	95.8	-500.6	527.1	504.0	23.12	22.794		
3,800.0	3,800.0	3,716.3	3,659.0	8.1	14.5	-78.97	102.2	-524.5	552.6	528.8	23.78	23.243		
3,900.0	3,900.0	3,813.0	3,752.5	8.2	15.0	-78.79	108.7	-548.3	578.1	553.7	24.43	23.665		
4,000.0	4,000.0	3,909.6	3,845.9	8.3	15.4	-78.63	115.1	-572.2	603.7	578.6	25.09	24.062		
4,100.0	4,100.0	4,006.3	3,939.3	8.5	15.9	-97.49	121.5	-596.1	629.4	603.7	25.75	24.445		
4,200.0	4,199.8	4,102.7	4,032.6	8.7	16.3	-97.28	127.9	-619.9	655.6	629.2	26.41	24.823		
4,300.0	4,299.5	4,198.8	4,125.5	8.9	16.8	-97.33	134.3	-643.6	682.3	655.2	27.07	25.200		
4,400.0	4,398.7	4,294.5	4,218.0	9.1	17.2	-97.61	140.6	-667.3	709.5	681.8	27.74	25.581		
4,500.0	4,497.5	4,389.7	4,310.0	9.3	17.7	-98.09	146.9	-690.8	737.3	708.9	28.39	25.970		
4,555.9	4,552.4	4,442.7	4,361.2	9.4	17.9	-98.43	150.4	-703.8	753.2	724.5	28.74	26.207		
4,600.0	4,595.7	4,484.3	4,401.5	9.5	18.1	-98.97	153.2	-714.1	765.9	736.9	29.01	26.398		
4,700.0	4,693.8	4,578.8	4,492.8	9.7	18.6	-100.13	159.5	-737.5	794.8	765.1	29.66	26.801		
4,800.0	4,791.9	4,673.3	4,584.2	9.9	19.0	-101.21	165.7	-760.8	824.0	793.7	30.30	27.199		
4,900.0	4,890.1	4,767.8	4,675.5	10.2	19.5	-102.22	172.0	-784.1	853.5	822.5	30.93	27.591		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	No-Go	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
5,000.0	4,988.2	4,862.3	4,766.9	10.4	19.9	-103.16	178.3	-807.5	883.2	851.6	31.57	27.976	
5,100.0	5,086.3	4,956.8	4,858.2	10.7	20.4	-104.05	184.6	-830.8	913.1	880.9	32.20	28.353	
5,200.0	5,184.4	5,051.2	4,949.6	11.0	20.8	-104.87	190.8	-854.1	943.2	910.3	32.84	28.721	
5,300.0	5,282.6	5,145.7	5,040.9	11.3	21.3	-105.65	197.1	-877.5	973.5	940.0	33.48	29.080	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	-0.59	60.0	-0.6	60.0	59.5	0.48	125.145		
100.0	100.0	100.0	100.0	1.2	1.2	-0.59	60.0	-0.6	60.0	57.1	2.87	20.929		
200.0	200.0	200.0	200.0	1.7	1.7	-0.59	60.0	-0.6	60.0	56.1	3.86	15.530		
300.0	300.0	300.0	300.0	2.1	2.1	-0.59	60.0	-0.6	60.0	55.4	4.63	12.949		
400.0	400.0	400.0	400.0	2.4	2.4	-0.59	60.0	-0.6	60.0	54.7	5.29	11.349		
500.0	500.0	500.0	500.0	2.7	2.7	-0.59	60.0	-0.6	60.0	54.1	5.87	10.228		
600.0	600.0	600.0	600.0	3.0	3.0	-0.59	60.0	-0.6	60.0	53.6	6.39	9.384		
700.0	700.0	700.0	700.0	3.2	3.2	-0.59	60.0	-0.6	60.0	53.1	6.88	8.719		
800.0	800.0	800.0	800.0	3.5	3.5	-0.59	60.0	-0.6	60.0	52.7	7.34	8.176		
900.0	900.0	900.0	900.0	3.7	3.7	-0.59	60.0	-0.6	60.0	52.2	7.77	7.721		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-0.59	60.0	-0.6	60.0	51.8	8.18	7.333 CC		
1,100.0	1,100.0	1,099.6	1,099.6	4.1	4.2	-2.21	60.3	-2.3	60.3	51.8	8.57	7.038 ES		
1,200.0	1,200.0	1,198.9	1,198.8	4.3	4.5	-6.91	61.2	-7.4	61.7	52.7	8.95	6.885 SF		
1,300.0	1,300.0	1,297.8	1,297.2	4.5	4.8	-14.19	62.7	-15.8	64.7	55.4	9.35	6.920		
1,400.0	1,400.0	1,395.9	1,394.7	4.7	5.2	-23.03	64.7	-27.5	70.5	60.8	9.79	7.206		
1,500.0	1,500.0	1,493.2	1,490.7	4.8	5.5	-32.14	67.3	-42.3	80.1	69.8	10.28	7.790		
1,600.0	1,600.0	1,589.2	1,585.1	5.0	5.9	-40.45	70.5	-60.1	93.8	83.0	10.81	8.676		
1,700.0	1,700.0	1,686.8	1,680.5	5.2	6.2	-47.25	74.0	-80.0	110.7	99.4	11.34	9.762		
1,800.0	1,800.0	1,784.6	1,776.2	5.3	6.5	-52.23	77.5	-100.1	128.8	116.9	11.88	10.846		
1,900.0	1,900.0	1,882.4	1,871.9	5.5	6.8	-55.98	81.1	-120.1	147.6	135.2	12.42	11.888		
2,000.0	2,000.0	1,980.2	1,967.5	5.6	7.2	-58.88	84.6	-140.1	166.9	153.9	12.96	12.872		
2,100.0	2,100.0	2,078.0	2,063.2	5.8	7.5	-61.18	88.1	-160.2	186.5	172.9	13.52	13.792		
2,200.0	2,200.0	2,175.9	2,158.9	5.9	7.9	-63.04	91.7	-180.2	206.3	192.2	14.08	14.647		
2,300.0	2,300.0	2,273.7	2,254.6	6.1	8.3	-64.57	95.2	-200.2	226.3	211.6	14.66	15.440		
2,400.0	2,400.0	2,371.5	2,350.3	6.2	8.7	-65.86	98.7	-220.2	246.4	231.2	15.24	16.174		
2,500.0	2,500.0	2,469.3	2,445.9	6.4	9.1	-66.95	102.3	-240.3	266.7	250.8	15.82	16.853		
2,600.0	2,600.0	2,567.1	2,541.6	6.5	9.5	-67.88	105.8	-260.3	287.0	270.6	16.42	17.482		
2,700.0	2,700.0	2,664.9	2,637.3	6.6	9.9	-68.70	109.3	-280.3	307.3	290.3	17.01	18.065		
2,800.0	2,800.0	2,762.7	2,733.0	6.8	10.3	-69.41	112.8	-300.3	327.8	310.2	17.62	18.606		
2,900.0	2,900.0	2,860.6	2,828.6	6.9	10.7	-70.04	116.4	-320.4	348.2	330.0	18.23	19.108		
3,000.0	3,000.0	2,958.4	2,924.3	7.1	11.1	-70.59	119.9	-340.4	368.8	349.9	18.84	19.575		
3,100.0	3,100.0	3,056.2	3,020.0	7.2	11.5	-71.09	123.4	-360.4	389.3	369.8	19.45	20.011		
3,200.0	3,200.0	3,154.0	3,115.7	7.3	12.0	-71.54	127.0	-380.5	409.9	389.8	20.07	20.417		
3,300.0	3,300.0	3,251.8	3,211.3	7.4	12.4	-71.95	130.5	-400.5	430.4	409.7	20.70	20.797		
3,400.0	3,400.0	3,349.6	3,307.0	7.6	12.8	-72.32	134.0	-420.5	451.0	429.7	21.32	21.152		
3,500.0	3,500.0	3,447.5	3,402.7	7.7	13.3	-72.66	137.6	-440.5	471.7	449.7	21.95	21.486		
3,600.0	3,600.0	3,545.3	3,498.4	7.8	13.7	-72.97	141.1	-460.6	492.3	469.7	22.58	21.799		
3,700.0	3,700.0	3,643.1	3,594.1	7.9	14.1	-73.25	144.6	-480.6	513.0	489.7	23.22	22.093		
3,800.0	3,800.0	3,740.9	3,689.7	8.1	14.6	-73.51	148.2	-500.6	533.6	509.8	23.85	22.370		
3,900.0	3,900.0	3,838.7	3,785.4	8.2	15.0	-73.76	151.7	-520.7	554.3	529.8	24.49	22.631		
4,000.0	4,000.0	3,936.5	3,881.1	8.3	15.5	-73.98	155.2	-540.7	575.0	549.8	25.13	22.878		
4,100.0	4,100.0	4,034.3	3,976.7	8.5	15.9	-93.32	158.8	-560.7	595.7	570.0	25.76	23.122		
4,200.0	4,199.8	4,131.2	4,071.5	8.7	16.3	-93.48	163.2	-580.3	616.8	590.4	26.38	23.381		
4,300.0	4,299.5	4,228.3	4,166.5	8.9	16.8	-93.65	170.3	-599.4	638.3	611.3	27.01	23.629		
4,400.0	4,398.7	4,325.5	4,261.4	9.1	17.2	-94.05	177.9	-618.3	660.0	632.4	27.66	23.860		
4,500.0	4,497.5	4,422.2	4,356.0	9.3	17.6	-94.68	185.4	-637.2	682.2	653.9	28.30	24.106		
4,555.9	4,552.4	4,476.0	4,408.6	9.4	17.9	-95.12	189.6	-647.7	694.9	666.3	28.64	24.262		
4,600.0	4,595.7	4,518.4	4,450.0	9.5	18.1	-95.69	192.9	-655.9	705.0	676.1	28.91	24.389		
4,700.0	4,693.8	4,614.5	4,544.0	9.7	18.5	-96.92	200.4	-674.7	728.1	698.6	29.53	24.657		
4,800.0	4,791.9	4,710.6	4,638.0	9.9	18.9	-98.07	207.9	-693.4	751.5	721.4	30.15	24.929		
4,900.0	4,890.1	4,806.7	4,731.9	10.2	19.4	-99.16	215.4	-712.1	775.2	744.4	30.76	25.203		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		No-Go Distance (usft)	Separation Factor
5,000.0	4,988.2	4,902.8	4,825.9	10.4	19.8	-100.18	222.9	-730.9	799.2	767.8		31.37	25.478
5,100.0	5,086.3	4,998.9	4,919.9	10.7	20.3	-101.14	230.4	-749.6	823.3	791.4		31.97	25.752
5,200.0	5,184.4	5,095.0	5,013.8	11.0	20.7	-102.05	237.9	-768.4	847.7	815.2		32.57	26.025
5,300.0	5,282.6	5,191.1	5,107.8	11.3	21.1	-102.91	245.4	-787.1	872.3	839.1		33.17	26.296
5,400.0	5,380.7	5,287.2	5,201.7	11.6	21.6	-103.73	252.9	-805.8	897.1	863.3		33.77	26.564
5,500.0	5,478.8	5,383.3	5,295.7	12.0	22.0	-104.50	260.4	-824.6	922.0	887.6		34.37	26.828
5,600.0	5,576.9	5,479.4	5,389.7	12.3	22.5	-105.23	267.9	-843.3	947.1	912.1		34.96	27.088
5,700.0	5,675.0	5,575.5	5,483.6	12.6	22.9	-105.92	275.4	-862.1	972.3	936.7		35.56	27.344
5,800.0	5,773.2	5,671.6	5,577.6	13.0	23.4	-106.58	282.9	-880.8	997.6	961.5		36.15	27.595

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:									Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-0.72	89.9	-1.1	89.9	89.4	0.48	187.475		
100.0	100.0	100.0	100.0	1.2	1.2	-0.72	89.9	-1.1	89.9	87.0	2.87	31.353		
200.0	200.0	200.0	200.0	1.7	1.7	-0.72	89.9	-1.1	89.9	86.0	3.86	23.265		
300.0	300.0	300.0	300.0	2.1	2.1	-0.72	89.9	-1.1	89.9	85.3	4.63	19.399		
400.0	400.0	400.0	400.0	2.4	2.4	-0.72	89.9	-1.1	89.9	84.6	5.29	17.001		
500.0	500.0	500.0	500.0	2.7	2.7	-0.72	89.9	-1.1	89.9	84.0	5.87	15.322		
600.0	600.0	600.0	600.0	3.0	3.0	-0.72	89.9	-1.1	89.9	83.5	6.39	14.058		
700.0	700.0	700.0	700.0	3.2	3.2	-0.72	89.9	-1.1	89.9	83.0	6.88	13.061		
800.0	800.0	800.0	800.0	3.5	3.5	-0.72	89.9	-1.1	89.9	82.5	7.34	12.248		
900.0	900.0	900.0	900.0	3.7	3.7	-0.72	89.9	-1.1	89.9	82.1	7.77	11.566		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-0.72	89.9	-1.1	89.9	81.7	8.18	10.985 CC, ES		
1,100.0	1,100.0	1,098.2	1,098.1	4.1	4.2	-1.58	90.8	-2.5	90.9	82.3	8.61	10.556		
1,200.0	1,200.0	1,196.1	1,195.9	4.3	4.5	-4.04	93.7	-6.6	94.0	85.0	9.03	10.412		
1,300.0	1,300.0	1,293.6	1,293.1	4.5	4.8	-7.77	98.5	-13.4	99.7	90.2	9.46	10.529		
1,400.0	1,400.0	1,390.4	1,389.2	4.7	5.2	-12.28	105.1	-22.9	108.1	98.2	9.92	10.901		
1,500.0	1,500.0	1,486.3	1,483.9	4.8	5.5	-17.07	113.5	-34.9	119.8	109.4	10.40	11.524		
1,600.0	1,600.0	1,581.1	1,577.1	5.0	5.9	-21.73	123.6	-49.2	135.0	124.1	10.90	12.387		
1,700.0	1,700.0	1,678.2	1,672.1	5.2	6.2	-25.94	135.1	-65.7	152.8	141.4	11.40	13.406		
1,800.0	1,800.0	1,776.0	1,767.8	5.3	6.5	-29.30	146.8	-82.4	171.4	159.5	11.91	14.387		
1,900.0	1,900.0	1,873.8	1,863.4	5.5	6.8	-32.01	158.4	-99.0	190.4	177.9	12.44	15.308		
2,000.0	2,000.0	1,971.6	1,959.1	5.6	7.2	-34.22	170.1	-115.7	209.7	196.8	12.97	16.165		
2,100.0	2,100.0	2,069.4	2,054.8	5.8	7.5	-36.06	181.8	-132.4	229.3	215.8	13.52	16.958		
2,200.0	2,200.0	2,167.2	2,150.5	5.9	7.9	-37.61	193.4	-149.0	249.1	235.1	14.08	17.690		
2,300.0	2,300.0	2,265.1	2,246.1	6.1	8.3	-38.93	205.1	-165.7	269.1	254.4	14.65	18.364		
2,400.0	2,400.0	2,362.9	2,341.8	6.2	8.7	-40.07	216.8	-182.3	289.2	273.9	15.23	18.986		
2,500.0	2,500.0	2,460.7	2,437.5	6.4	9.1	-41.06	228.4	-199.0	309.3	293.5	15.82	19.558		
2,600.0	2,600.0	2,558.5	2,533.2	6.5	9.5	-41.93	240.1	-215.7	329.6	313.2	16.41	20.087		
2,700.0	2,700.0	2,656.3	2,628.9	6.6	9.9	-42.70	251.8	-232.3	349.9	332.9	17.00	20.575		
2,800.0	2,800.0	2,754.1	2,724.5	6.8	10.3	-43.38	263.4	-249.0	370.2	352.6	17.61	21.026		
2,900.0	2,900.0	2,851.9	2,820.2	6.9	10.7	-44.00	275.1	-265.6	390.6	372.4	18.22	21.445		
3,000.0	3,000.0	2,949.8	2,915.9	7.1	11.1	-44.55	286.7	-282.3	411.1	392.2	18.83	21.833		
3,100.0	3,100.0	3,047.6	3,011.6	7.2	11.6	-45.05	298.4	-298.9	431.6	412.1	19.44	22.194		
3,200.0	3,200.0	3,145.4	3,107.2	7.3	12.0	-45.51	310.1	-315.6	452.1	432.0	20.06	22.530		
3,300.0	3,300.0	3,243.2	3,202.9	7.4	12.4	-45.92	321.7	-332.3	472.6	451.9	20.69	22.843		
3,400.0	3,400.0	3,341.0	3,298.6	7.6	12.8	-46.30	333.4	-348.9	493.1	471.8	21.31	23.136		
3,500.0	3,500.0	3,438.8	3,394.3	7.7	13.3	-46.65	345.1	-365.6	513.7	491.8	21.94	23.410		
3,600.0	3,600.0	3,536.7	3,490.0	7.8	13.7	-46.98	356.7	-382.2	534.3	511.7	22.56	23.682		
3,700.0	3,700.0	3,649.3	3,600.3	7.9	14.2	-47.45	368.4	-401.2	553.7	530.5	23.27	23.797		
3,800.0	3,800.0	3,764.5	3,713.7	8.1	14.7	-48.20	375.7	-420.3	570.3	546.3	23.98	23.787		
3,900.0	3,900.0	3,878.6	3,826.3	8.2	15.1	-49.21	378.5	-438.6	584.0	559.4	24.59	23.747		
4,000.0	4,000.0	3,977.3	3,923.8	8.3	15.5	-50.14	379.3	-454.3	596.7	571.6	25.13	23.749		
4,100.0	4,100.0	4,075.9	4,021.1	8.5	15.8	-70.34	380.1	-470.0	609.0	583.3	25.68	23.716		
4,200.0	4,199.8	4,174.3	4,118.2	8.7	16.2	-71.43	380.9	-485.6	620.4	594.1	26.24	23.641		
4,300.0	4,299.5	4,272.2	4,214.9	8.9	16.6	-72.77	381.6	-501.2	631.0	604.2	26.81	23.538		
4,400.0	4,398.7	4,369.6	4,311.1	9.1	17.0	-74.36	382.4	-516.7	641.2	613.8	27.38	23.417		
4,500.0	4,497.5	4,466.4	4,406.7	9.3	17.4	-76.16	383.2	-532.1	651.2	623.2	27.95	23.295		
4,555.9	4,552.4	4,520.3	4,459.8	9.4	17.6	-77.26	383.6	-540.7	656.8	628.5	28.25	23.245		
4,600.0	4,595.7	4,562.6	4,501.5	9.5	17.7	-78.22	383.9	-547.4	661.3	632.8	28.49	23.214		
4,700.0	4,693.8	4,658.6	4,596.3	9.7	18.1	-80.37	384.7	-562.7	672.3	643.3	29.05	23.148		
4,800.0	4,791.9	4,754.6	4,691.1	9.9	18.5	-82.46	385.5	-578.0	684.3	654.7	29.60	23.122		
4,900.0	4,890.1	4,850.6	4,785.9	10.2	18.9	-84.47	386.2	-593.2	697.2	667.1	30.14	23.134		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
5,000.0	4,988.2	4,946.6	4,880.6	10.4	19.3	-86.41	387.0	-608.5	711.0	680.3	30.67	23.179		
5,100.0	5,086.3	5,042.5	4,975.4	10.7	19.7	-88.28	387.7	-623.8	725.6	694.4	31.20	23.254		
5,200.0	5,184.4	5,138.5	5,070.2	11.0	20.1	-90.08	388.5	-639.0	741.0	709.3	31.72	23.361		
5,300.0	5,282.6	5,246.1	5,176.5	11.3	20.5	-92.00	389.3	-655.5	756.5	724.2	32.27	23.442		
5,400.0	5,380.7	5,357.1	5,286.5	11.6	20.9	-93.87	390.1	-670.3	770.8	738.0	32.83	23.481		
5,500.0	5,478.8	5,468.9	5,397.5	12.0	21.4	-95.64	390.7	-683.1	784.0	750.6	33.36	23.499		
5,600.0	5,576.9	5,581.4	5,509.5	12.3	21.8	-97.34	391.2	-693.9	795.8	761.9	33.86	23.499		
5,700.0	5,675.0	5,694.5	5,622.2	12.6	22.2	-98.98	391.7	-702.4	806.2	771.9	34.33	23.483		
5,800.0	5,773.2	5,808.1	5,735.7	13.0	22.5	-100.56	392.0	-708.8	815.2	780.5	34.76	23.454		
5,900.0	5,871.3	5,922.2	5,849.8	13.3	22.9	-102.10	392.2	-712.9	822.8	787.6	35.12	23.426		
5,924.3	5,895.1	5,950.0	5,877.5	13.4	23.0	-102.46	392.2	-713.6	824.4	789.2	35.19	23.427		
6,000.0	5,969.5	6,036.9	5,964.4	13.7	23.1	-103.61	392.3	-714.8	828.7	793.3	35.35	23.441		
6,100.0	6,068.0	6,140.5	6,068.0	14.0	23.2	-104.84	392.3	-714.9	833.0	797.6	35.41	23.527		
6,200.0	6,166.8	6,239.3	6,166.8	14.4	23.2	-105.89	392.3	-714.9	837.1	801.7	35.46	23.607		
6,300.0	6,265.9	6,338.4	6,265.9	14.8	23.3	-106.81	392.3	-714.9	841.0	805.5	35.53	23.672		
6,400.0	6,365.2	6,437.7	6,365.2	15.1	23.3	-107.62	392.3	-714.9	844.6	809.0	35.60	23.722		
6,500.0	6,464.7	6,537.1	6,464.7	15.5	23.4	-108.30	392.3	-714.9	847.8	812.1	35.69	23.752		
6,600.0	6,564.3	6,636.8	6,564.3	15.8	23.4	-108.87	392.3	-714.9	850.5	814.7	35.79	23.763		
6,700.0	6,664.1	6,736.6	6,664.1	16.1	23.4	-109.32	392.3	-714.9	852.7	816.8	35.90	23.754		
6,800.0	6,763.9	6,836.4	6,763.9	16.4	23.5	-109.65	392.3	-714.9	854.3	818.3	36.01	23.724		
6,900.0	6,863.9	6,936.4	6,863.9	16.7	23.5	-109.86	392.3	-714.9	855.4	819.3	36.13	23.675		
7,000.0	6,963.9	7,036.4	6,963.9	16.9	23.6	-109.96	392.3	-714.9	856.0	819.7	36.26	23.607		
7,036.1	7,000.0	7,072.5	7,000.0	17.0	23.6	-90.59	392.3	-714.9	856.0	819.7	36.29	23.586		
7,100.0	7,063.9	7,136.4	7,063.9	17.0	23.6	-90.59	392.3	-714.9	856.0	819.6	36.35	23.546		
7,200.0	7,163.9	7,236.4	7,163.9	17.1	23.6	-90.59	392.3	-714.9	856.0	819.5	36.47	23.472		
7,300.0	7,263.9	7,336.4	7,263.9	17.1	23.7	-90.59	392.3	-714.9	856.0	819.4	36.58	23.399		
7,400.0	7,363.9	7,436.4	7,363.9	17.2	23.7	-90.59	392.3	-714.9	856.0	819.3	36.70	23.325		
7,500.0	7,463.9	7,536.4	7,463.9	17.3	23.8	-90.59	392.3	-714.9	856.0	819.2	36.81	23.252		
7,600.0	7,563.9	7,636.4	7,563.9	17.4	23.8	-90.59	392.3	-714.9	856.0	819.1	36.93	23.179		
7,700.0	7,663.9	7,736.4	7,663.9	17.4	23.9	-90.59	392.3	-714.9	856.0	818.9	37.05	23.106		
7,800.0	7,763.9	7,836.4	7,763.9	17.5	23.9	-90.59	392.3	-714.9	856.0	818.8	37.16	23.034		
7,900.0	7,863.9	7,936.4	7,863.9	17.6	23.9	-90.59	392.3	-714.9	856.0	818.7	37.28	22.961		
8,000.0	7,963.9	8,036.4	7,963.9	17.6	24.0	-90.59	392.3	-714.9	856.0	818.6	37.40	22.889		
8,100.0	8,063.9	8,136.4	8,063.9	17.7	24.0	-90.59	392.3	-714.9	856.0	818.5	37.51	22.818		
8,200.0	8,163.9	8,236.4	8,163.9	17.8	24.1	-90.59	392.3	-714.9	856.0	818.4	37.63	22.746		
8,300.0	8,263.9	8,336.4	8,263.9	17.8	24.1	-90.59	392.3	-714.9	856.0	818.2	37.75	22.675		
8,400.0	8,363.9	8,436.4	8,363.9	17.9	24.2	-90.59	392.3	-714.9	856.0	818.1	37.87	22.604		
8,500.0	8,463.9	8,536.4	8,463.9	18.0	24.2	-90.59	392.3	-714.9	856.0	818.0	37.99	22.533		
8,600.0	8,563.9	8,636.4	8,563.9	18.1	24.2	-90.59	392.3	-714.9	856.0	817.9	38.11	22.463		
8,700.0	8,663.9	8,736.4	8,663.9	18.1	24.3	-90.59	392.3	-714.9	856.0	817.8	38.23	22.392		
8,800.0	8,763.9	8,836.4	8,763.9	18.2	24.3	-90.59	392.3	-714.9	856.0	817.6	38.35	22.322		
8,900.0	8,863.9	8,936.4	8,863.9	18.3	24.4	-90.59	392.3	-714.9	856.0	817.5	38.47	22.253		
9,000.0	8,963.9	9,036.4	8,963.9	18.3	24.4	-90.59	392.3	-714.9	856.0	817.4	38.59	22.183		
9,100.0	9,063.9	9,136.4	9,063.9	18.4	24.5	-90.59	392.3	-714.9	856.0	817.3	38.71	22.114		
9,200.0	9,163.9	9,236.4	9,163.9	18.5	24.5	-90.59	392.3	-714.9	856.0	817.2	38.83	22.045		
9,300.0	9,263.9	9,336.4	9,263.9	18.6	24.6	-90.59	392.3	-714.9	856.0	817.0	38.95	21.976		
9,400.0	9,363.9	9,436.4	9,363.9	18.6	24.6	-90.59	392.3	-714.9	856.0	816.9	39.07	21.908		
9,500.0	9,463.9	9,536.4	9,463.9	18.7	24.6	-90.59	392.3	-714.9	856.0	816.8	39.19	21.840		
9,600.0	9,563.9	9,636.4	9,563.9	18.8	24.7	-90.59	392.3	-714.9	856.0	816.7	39.32	21.772		
9,700.0	9,663.9	9,736.4	9,663.9	18.9	24.7	-90.59	392.3	-714.9	856.0	816.6	39.44	21.704		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:									Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
9,800.0	9,763.9	9,836.4	9,763.9	18.9	24.8	-90.59	392.3	-714.9	856.0	816.4	39.56	21.637		
9,900.0	9,863.9	9,936.4	9,863.9	19.0	24.8	-90.59	392.3	-714.9	856.0	816.3	39.68	21.570		
10,000.0	9,963.9	10,036.4	9,963.9	19.1	24.9	-90.59	392.3	-714.9	856.0	816.2	39.81	21.503		
10,100.0	10,063.9	10,136.4	10,063.9	19.1	24.9	-90.59	392.3	-714.9	856.0	816.1	39.93	21.437		
10,200.0	10,163.9	10,236.4	10,163.9	19.2	25.0	-90.59	392.3	-714.9	856.0	815.9	40.06	21.370		
10,300.0	10,263.9	10,336.4	10,263.9	19.3	25.0	-90.59	392.3	-714.9	856.0	815.8	40.18	21.304		
10,400.0	10,363.9	10,436.4	10,363.9	19.4	25.1	-90.59	392.3	-714.9	856.0	815.7	40.30	21.239		
10,500.0	10,463.9	10,536.4	10,463.9	19.4	25.1	-90.59	392.3	-714.9	856.0	815.6	40.43	21.173		
10,600.0	10,563.9	10,636.4	10,563.9	19.5	25.2	-90.59	392.3	-714.9	856.0	815.4	40.55	21.108		
10,700.0	10,663.9	10,736.4	10,663.9	19.6	25.2	-90.59	392.3	-714.9	856.0	815.3	40.68	21.043		
10,800.0	10,763.9	10,836.4	10,763.9	19.6	25.3	-90.59	392.3	-714.9	856.0	815.2	40.80	20.978		
10,900.0	10,863.9	10,936.4	10,863.9	19.7	25.3	-90.59	392.3	-714.9	856.0	815.1	40.93	20.914		
11,000.0	10,963.9	11,036.4	10,963.9	19.8	25.4	-90.59	392.3	-714.9	856.0	814.9	41.06	20.850		
11,100.0	11,063.9	11,136.4	11,063.9	19.9	25.4	-90.59	392.3	-714.9	856.0	814.8	41.18	20.786		
11,200.0	11,163.9	11,236.4	11,163.9	19.9	25.5	-90.59	392.3	-714.9	856.0	814.7	41.31	20.722		
11,300.0	11,263.9	11,336.4	11,263.9	20.0	25.5	-90.59	392.3	-714.9	856.0	814.6	41.43	20.659		
11,400.0	11,363.9	11,436.4	11,363.9	20.1	25.6	-90.59	392.3	-714.9	856.0	814.4	41.56	20.596		
11,500.0	11,463.9	11,536.4	11,463.9	20.2	25.6	-90.59	392.3	-714.9	856.0	814.3	41.69	20.533		
11,600.0	11,563.9	11,636.4	11,563.9	20.2	25.7	-90.59	392.3	-714.9	856.0	814.2	41.82	20.471		
11,700.0	11,663.9	11,736.4	11,663.9	20.3	25.7	-90.59	392.3	-714.9	856.0	814.0	41.94	20.408		
11,800.0	11,763.9	11,836.4	11,763.9	20.4	25.8	-90.59	392.3	-714.9	856.0	813.9	42.07	20.346		
11,900.0	11,863.9	11,936.4	11,863.9	20.5	25.8	-90.59	392.3	-714.9	856.0	813.8	42.19	20.287		
11,925.6	11,889.5	11,962.0	11,889.5	20.5	25.8	-90.59	392.3	-714.9	856.0	813.8	42.22	20.277		
11,950.0	11,913.9	11,986.2	11,913.7	20.4	25.8	89.78	391.7	-714.9	856.0	813.8	42.22	20.277		
11,975.0	11,938.8	12,011.0	11,938.4	20.4	25.8	89.78	389.8	-714.8	856.0	813.8	42.20	20.283		
12,000.0	11,963.6	12,035.9	11,963.1	20.3	25.7	89.78	386.6	-714.8	856.0	813.8	42.19	20.290		
12,025.0	11,988.2	12,060.7	11,987.5	20.3	25.7	89.79	382.1	-714.8	856.0	813.8	42.17	20.298		
12,050.0	12,012.5	12,085.5	12,011.7	20.2	25.6	89.79	376.4	-714.8	856.0	813.8	42.15	20.307		
12,075.0	12,036.4	12,110.4	12,035.5	20.1	25.6	89.79	369.4	-714.7	856.0	813.9	42.13	20.317		
12,100.0	12,060.0	12,135.2	12,058.9	20.1	25.6	89.80	361.2	-714.7	856.0	813.9	42.11	20.327		
12,125.0	12,083.1	12,160.0	12,081.9	20.0	25.5	89.80	351.8	-714.6	856.0	813.9	42.09	20.337		
12,150.0	12,105.7	12,184.9	12,104.4	19.9	25.5	89.80	341.2	-714.5	856.0	813.9	42.07	20.347		
12,175.0	12,127.7	12,209.7	12,126.3	19.8	25.4	89.81	329.4	-714.5	856.0	813.9	42.05	20.358		
12,200.0	12,149.0	12,234.6	12,147.5	19.8	25.4	89.82	316.6	-714.4	856.0	814.0	42.03	20.368		
12,225.0	12,169.6	12,259.5	12,168.1	19.7	25.4	89.82	302.6	-714.3	856.0	814.0	42.00	20.378		
12,250.0	12,189.5	12,284.3	12,187.9	19.7	25.3	89.83	287.6	-714.2	856.0	814.0	41.99	20.388		
12,275.0	12,208.5	12,309.2	12,206.9	19.6	25.3	89.84	271.5	-714.1	856.0	814.0	41.97	20.396		
12,300.0	12,226.7	12,334.1	12,225.0	19.5	25.3	89.84	254.5	-714.0	856.0	814.0	41.95	20.403		
12,325.0	12,243.9	12,358.9	12,242.3	19.5	25.3	89.85	236.6	-713.9	856.0	814.0	41.94	20.409		
12,350.0	12,260.2	12,383.8	12,258.6	19.4	25.2	89.86	217.7	-713.7	856.0	814.1	41.93	20.414		
12,375.0	12,275.4	12,408.7	12,273.9	19.4	25.2	89.87	198.1	-713.6	856.0	814.1	41.93	20.417		
12,400.0	12,289.6	12,433.6	12,288.1	19.3	25.2	89.88	177.7	-713.5	856.0	814.1	41.92	20.417		
12,425.0	12,302.7	12,458.5	12,301.3	19.3	25.2	89.89	156.5	-713.3	856.0	814.1	41.93	20.416		
12,450.0	12,314.6	12,483.5	12,313.3	19.3	25.2	89.90	134.7	-713.2	856.0	814.0	41.94	20.412		
12,475.0	12,325.4	12,508.4	12,324.2	19.2	25.2	89.91	112.3	-713.0	856.0	814.0	41.95	20.405		
12,500.0	12,335.0	12,533.3	12,333.9	19.2	25.2	89.92	89.4	-712.9	856.0	814.0	41.97	20.396		
12,525.0	12,343.4	12,558.3	12,342.4	19.2	25.2	89.93	65.9	-712.7	856.0	814.0	41.99	20.384		
12,550.0	12,350.5	12,583.2	12,349.7	19.2	25.2	89.94	42.0	-712.6	856.0	814.0	42.02	20.369		
12,575.0	12,356.4	12,608.2	12,355.7	19.2	25.2	89.95	17.8	-712.4	856.0	813.9	42.06	20.352		
12,600.0	12,361.0	12,633.1	12,360.5	19.1	25.2	89.96	-6.7	-712.3	856.0	813.9	42.10	20.331		
12,625.0	12,364.3	12,658.1	12,363.9	19.1	25.2	89.98	-31.4	-712.1	856.0	813.8	42.15	20.307		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
12,650.0	12,366.3	12,683.1	12,366.1	19.1	25.2	89.99	-56.3	-712.0	856.0	813.8	42.21	20.281		
12,675.6	12,367.0	12,708.7	12,367.0	19.1	25.3	90.00	-81.9	-711.8	856.0	813.7	42.27	20.251		
12,700.0	12,367.0	12,733.1	12,367.0	19.2	25.3	90.00	-106.3	-711.6	856.0	813.6	42.34	20.218		
12,800.0	12,367.0	12,833.1	12,367.0	19.2	25.5	90.00	-206.3	-711.0	856.0	813.3	42.69	20.053		
12,900.0	12,367.0	12,933.1	12,367.0	19.3	25.7	90.00	-306.3	-710.3	856.0	812.9	43.12	19.853		
13,000.0	12,367.0	13,033.1	12,367.0	19.3	25.9	90.00	-406.3	-709.7	856.0	812.4	43.62	19.621		
13,100.0	12,367.0	13,133.1	12,367.0	19.5	26.2	90.00	-506.3	-709.0	856.0	811.8	44.21	19.361		
13,200.0	12,367.0	13,233.1	12,367.0	19.6	26.5	90.00	-606.3	-708.4	856.0	811.1	44.87	19.076		
13,300.0	12,367.0	13,333.1	12,367.0	19.8	26.8	90.00	-706.3	-707.7	856.0	810.4	45.60	18.771		
13,400.0	12,367.0	13,433.1	12,367.0	20.1	27.1	90.00	-806.3	-707.1	856.0	809.6	46.40	18.448		
13,500.0	12,367.0	13,533.1	12,367.0	20.4	27.5	90.00	-906.3	-706.4	856.0	808.7	47.26	18.112		
13,600.0	12,367.0	13,633.1	12,367.0	20.9	27.9	90.00	-1,006.3	-705.8	856.0	807.8	48.18	17.766		
13,700.0	12,367.0	13,733.1	12,367.0	21.3	28.3	90.00	-1,106.3	-705.1	856.0	806.8	49.16	17.412		
13,800.0	12,367.0	13,833.1	12,367.0	21.9	28.8	90.00	-1,206.3	-704.5	856.0	805.8	50.19	17.054		
13,900.0	12,367.0	13,933.1	12,367.0	22.4	29.3	90.00	-1,306.3	-703.8	856.0	804.7	51.27	16.694		
14,000.0	12,367.0	14,033.1	12,367.0	23.1	29.8	90.00	-1,406.2	-703.2	856.0	803.6	52.40	16.335		
14,100.0	12,367.0	14,133.1	12,367.0	23.7	30.3	90.00	-1,506.2	-702.5	856.0	802.4	53.58	15.977		
14,200.0	12,367.0	14,233.1	12,367.0	24.4	30.8	90.00	-1,606.2	-701.9	856.0	801.2	54.79	15.623		
14,300.0	12,367.0	14,333.1	12,367.0	25.1	31.4	90.00	-1,706.2	-701.2	856.0	799.9	56.04	15.274		
14,400.0	12,367.0	14,433.1	12,367.0	25.8	32.0	90.00	-1,806.2	-700.6	856.0	798.6	57.33	14.930		
14,500.0	12,367.0	14,533.1	12,367.0	26.5	32.6	90.00	-1,906.2	-699.9	856.0	797.3	58.65	14.594		
14,600.0	12,367.0	14,633.1	12,367.0	27.3	33.2	90.00	-2,006.2	-699.3	856.0	796.0	60.01	14.264		
14,700.0	12,367.0	14,733.1	12,367.0	28.0	33.9	90.00	-2,106.2	-698.6	856.0	794.6	61.39	13.943		
14,800.0	12,367.0	14,833.1	12,367.0	28.8	34.5	90.00	-2,206.2	-698.0	856.0	793.2	62.80	13.630		
14,900.0	12,367.0	14,933.1	12,367.0	29.6	35.2	90.00	-2,306.2	-697.4	856.0	791.7	64.24	13.325		
15,000.0	12,367.0	15,033.1	12,367.0	30.4	35.9	90.00	-2,406.2	-696.7	856.0	790.3	65.70	13.029		
15,100.0	12,367.0	15,133.1	12,367.0	31.2	36.5	90.00	-2,506.2	-696.1	856.0	788.8	67.18	12.742		
15,200.0	12,367.0	15,233.1	12,367.0	32.0	37.2	90.00	-2,606.2	-695.4	856.0	787.3	68.68	12.463		
15,300.0	12,367.0	15,333.1	12,367.0	32.8	38.0	90.00	-2,706.2	-694.8	856.0	785.8	70.20	12.193		
15,400.0	12,367.0	15,433.1	12,367.0	33.7	38.7	90.00	-2,806.2	-694.1	856.0	784.2	71.74	11.931		
15,500.0	12,367.0	15,533.1	12,367.0	34.5	39.4	90.00	-2,906.2	-693.5	856.0	782.7	73.30	11.678		
15,600.0	12,367.0	15,633.1	12,367.0	35.4	40.2	90.00	-3,006.2	-692.8	856.0	781.1	74.87	11.432		
15,700.0	12,367.0	15,733.1	12,367.0	36.2	40.9	90.00	-3,106.2	-692.2	856.0	779.5	76.46	11.195		
15,800.0	12,367.0	15,833.1	12,367.0	37.1	41.7	90.00	-3,206.2	-691.5	856.0	777.9	78.06	10.965		
15,900.0	12,367.0	15,933.1	12,367.0	37.9	42.5	90.00	-3,306.2	-690.9	856.0	776.3	79.68	10.743		
16,000.0	12,367.0	16,033.1	12,367.0	38.8	43.3	90.00	-3,406.2	-690.2	856.0	774.7	81.31	10.527		
16,100.0	12,367.0	16,133.1	12,367.0	39.7	44.0	90.00	-3,506.2	-689.6	856.0	773.0	82.95	10.319		
16,200.0	12,367.0	16,233.1	12,367.0	40.5	44.8	90.00	-3,606.2	-688.9	856.0	771.4	84.60	10.118		
16,300.0	12,367.0	16,333.1	12,367.0	41.4	45.6	90.00	-3,706.2	-688.3	856.0	769.7	86.26	9.923		
16,400.0	12,367.0	16,433.1	12,367.0	42.3	46.4	90.00	-3,806.2	-687.6	856.0	768.0	87.93	9.735		
16,500.0	12,367.0	16,533.1	12,367.0	43.2	47.3	90.00	-3,906.2	-687.0	856.0	766.4	89.61	9.552		
16,600.0	12,367.0	16,633.1	12,367.0	44.1	48.1	90.00	-4,006.2	-686.3	856.0	764.7	91.30	9.375		
16,700.0	12,367.0	16,733.1	12,367.0	45.0	48.9	90.00	-4,106.2	-685.7	856.0	763.0	93.00	9.204		
16,800.0	12,367.0	16,833.1	12,367.0	45.9	49.7	90.00	-4,206.2	-685.0	856.0	761.3	94.70	9.039		
16,900.0	12,367.0	16,933.1	12,367.0	46.8	50.6	90.00	-4,306.2	-684.4	856.0	759.5	96.41	8.878		
17,000.0	12,367.0	17,033.1	12,367.0	47.7	51.4	90.00	-4,406.2	-683.7	856.0	757.8	98.13	8.723		
17,100.0	12,367.0	17,133.1	12,367.0	48.6	52.2	90.00	-4,506.2	-683.1	856.0	756.1	99.86	8.572		
17,200.0	12,367.0	17,233.1	12,367.0	49.5	53.1	90.00	-4,606.2	-682.4	856.0	754.4	101.59	8.426		
17,300.0	12,367.0	17,333.1	12,367.0	50.4	53.9	90.00	-4,706.2	-681.8	856.0	752.6	103.33	8.284		
17,400.0	12,367.0	17,433.1	12,367.0	51.3	54.8	90.00	-4,806.2	-681.1	856.0	750.9	105.07	8.147		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,500.0	12,367.0	17,533.1	12,367.0	52.2	55.7	90.00	-4,906.2	-680.5	856.0	749.1	106.82	8.013	
17,600.0	12,367.0	17,633.1	12,367.0	53.1	56.5	90.00	-5,006.2	-679.8	856.0	747.4	108.57	7.884	
17,700.0	12,367.0	17,733.1	12,367.0	54.1	57.4	90.00	-5,106.2	-679.2	856.0	745.6	110.33	7.758	
17,800.0	12,367.0	17,833.1	12,367.0	55.0	58.3	90.00	-5,206.2	-678.5	856.0	743.9	112.10	7.636	
17,900.0	12,367.0	17,933.1	12,367.0	55.9	59.1	90.00	-5,306.2	-677.9	856.0	742.1	113.86	7.517	
18,000.0	12,367.0	18,033.1	12,367.0	56.8	60.0	90.00	-5,406.2	-677.2	856.0	740.3	115.64	7.402	
18,100.0	12,367.0	18,133.1	12,367.0	57.7	60.9	90.00	-5,506.2	-676.6	856.0	738.5	117.41	7.290	
18,200.0	12,367.0	18,233.1	12,367.0	58.7	61.8	90.00	-5,606.2	-675.9	856.0	736.8	119.19	7.181	
18,300.0	12,367.0	18,333.1	12,367.0	59.6	62.6	90.00	-5,706.2	-675.3	856.0	735.0	120.98	7.075	
18,400.0	12,367.0	18,433.1	12,367.0	60.5	63.5	90.00	-5,806.2	-674.6	856.0	733.2	122.77	6.972	
18,500.0	12,367.0	18,533.1	12,367.0	61.4	64.4	90.00	-5,906.2	-674.0	856.0	731.4	124.56	6.872	
18,600.0	12,367.0	18,633.1	12,367.0	62.4	65.3	90.00	-6,006.2	-673.3	856.0	729.6	126.35	6.774	
18,700.0	12,367.0	18,733.1	12,367.0	63.3	66.2	90.00	-6,106.2	-672.7	856.0	727.8	128.15	6.679	
18,800.0	12,367.0	18,833.1	12,367.0	64.2	67.1	90.00	-6,206.1	-672.0	856.0	726.0	129.95	6.587	
18,900.0	12,367.0	18,933.1	12,367.0	65.2	68.0	90.00	-6,306.1	-671.4	856.0	724.2	131.75	6.497	
19,000.0	12,367.0	19,033.1	12,367.0	66.1	68.9	90.00	-6,406.1	-670.7	856.0	722.4	133.56	6.409	
19,100.0	12,367.0	19,133.1	12,367.0	67.0	69.8	90.00	-6,506.1	-670.1	856.0	720.6	135.36	6.323	
19,200.0	12,367.0	19,233.1	12,367.0	68.0	70.7	90.00	-6,606.1	-669.4	856.0	718.8	137.18	6.240	
19,300.0	12,367.0	19,333.1	12,367.0	68.9	71.6	90.00	-6,706.1	-668.8	856.0	717.0	138.99	6.158	
19,400.0	12,367.0	19,433.1	12,367.0	69.8	72.5	90.00	-6,806.1	-668.1	856.0	715.1	140.80	6.079	
19,500.0	12,367.0	19,533.1	12,367.0	70.8	73.4	90.00	-6,906.1	-667.5	856.0	713.3	142.62	6.002	
19,600.0	12,367.0	19,633.1	12,367.0	71.7	74.3	90.00	-7,006.1	-666.9	856.0	711.5	144.44	5.926	
19,628.7	12,367.0	19,661.8	12,367.0	72.0	74.6	90.00	-7,034.9	-666.7	855.9	711.0	144.96	5.905 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	-0.59	119.7	-1.2	119.7	119.2	0.48	249.704	
100.0	100.0	100.0	100.0	1.2	1.2	-0.59	119.7	-1.2	119.7	116.9	2.87	41.761	
200.0	200.0	200.0	200.0	1.7	1.7	-0.59	119.7	-1.2	119.7	115.9	3.86	30.988	
300.0	300.0	300.0	300.0	2.1	2.1	-0.59	119.7	-1.2	119.7	115.1	4.63	25.838	
400.0	400.0	400.0	400.0	2.4	2.4	-0.59	119.7	-1.2	119.7	114.4	5.29	22.645	
500.0	500.0	500.0	500.0	2.7	2.7	-0.59	119.7	-1.2	119.7	113.9	5.87	20.408	
600.0	600.0	600.0	600.0	3.0	3.0	-0.59	119.7	-1.2	119.7	113.3	6.39	18.725	
700.0	700.0	700.0	700.0	3.2	3.2	-0.59	119.7	-1.2	119.7	112.8	6.88	17.397	
800.0	800.0	800.0	800.0	3.5	3.5	-0.59	119.7	-1.2	119.7	112.4	7.34	16.313	
900.0	900.0	900.0	900.0	3.7	3.7	-0.59	119.7	-1.2	119.7	111.9	7.77	15.406	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-0.59	119.7	-1.2	119.7	111.5	8.18	14.631 CC, ES	
1,100.0	1,100.0	1,097.1	1,097.1	4.1	4.2	-1.15	120.9	-2.4	120.9	112.3	8.63	14.017	
1,200.0	1,200.0	1,194.0	1,193.8	4.3	4.5	-2.74	124.3	-6.0	124.6	115.5	9.06	13.749	
1,300.0	1,300.0	1,290.4	1,289.9	4.5	4.8	-5.19	130.0	-11.8	130.9	121.4	9.50	13.775	
1,400.0	1,400.0	1,386.2	1,385.0	4.7	5.2	-8.22	137.8	-19.9	140.0	130.1	9.95	14.068	
1,500.0	1,500.0	1,481.1	1,478.9	4.8	5.5	-11.54	147.8	-30.2	152.3	141.9	10.42	14.610	
1,600.0	1,600.0	1,575.0	1,571.2	5.0	5.8	-14.91	159.8	-42.5	167.8	156.9	10.87	15.435	
1,700.0	1,700.0	1,672.4	1,666.5	5.2	6.1	-18.10	173.5	-56.7	185.6	174.2	11.38	16.314	
1,800.0	1,800.0	1,770.3	1,762.4	5.3	6.5	-20.75	187.4	-71.0	203.9	192.0	11.89	17.143	
1,900.0	1,900.0	1,868.2	1,858.2	5.5	6.8	-22.97	201.2	-85.3	222.5	210.1	12.41	17.929	
2,000.0	2,000.0	1,966.1	1,954.1	5.6	7.1	-24.84	215.0	-99.6	241.4	228.4	12.94	18.654	
2,100.0	2,100.0	2,064.0	2,050.0	5.8	7.5	-26.44	228.9	-113.8	260.5	247.0	13.48	19.319	
2,200.0	2,200.0	2,161.9	2,145.9	5.9	7.9	-27.82	242.7	-128.1	279.8	265.7	14.04	19.929	
2,300.0	2,300.0	2,259.9	2,241.7	6.1	8.3	-29.03	256.6	-142.4	299.2	284.6	14.60	20.488	
2,400.0	2,400.0	2,357.8	2,337.6	6.2	8.6	-30.08	270.4	-156.7	318.7	303.5	15.18	21.001	
2,500.0	2,500.0	2,455.7	2,433.5	6.4	9.0	-31.02	284.3	-170.9	338.3	322.6	15.76	21.472	
2,600.0	2,600.0	2,553.6	2,529.4	6.5	9.4	-31.85	298.1	-185.2	358.0	341.7	16.35	21.904	
2,700.0	2,700.0	2,651.5	2,625.2	6.6	9.8	-32.60	312.0	-199.5	377.8	360.9	16.92	22.329	
2,800.0	2,800.0	2,755.7	2,727.4	6.8	10.2	-33.29	326.2	-214.2	396.9	379.4	17.54	22.632	
2,900.0	2,900.0	2,861.5	2,831.5	6.9	10.7	-33.86	339.3	-227.7	414.3	396.2	18.18	22.786	
3,000.0	3,000.0	2,967.9	2,936.5	7.1	11.1	-34.34	351.2	-239.9	430.0	411.2	18.82	22.849	
3,100.0	3,100.0	3,074.9	3,042.4	7.2	11.6	-34.73	361.7	-250.8	443.9	424.4	19.44	22.831	
3,200.0	3,200.0	3,182.4	3,149.1	7.3	12.0	-35.06	370.9	-260.3	455.9	435.9	20.05	22.742	
3,300.0	3,300.0	3,290.4	3,256.5	7.4	12.4	-35.32	378.7	-268.3	466.2	445.6	20.64	22.592	
3,400.0	3,400.0	3,398.8	3,364.5	7.6	12.8	-35.52	385.2	-275.0	474.6	453.4	21.20	22.388	
3,500.0	3,500.0	3,507.5	3,473.0	7.7	13.2	-35.68	390.2	-280.2	481.1	459.4	21.73	22.142	
3,600.0	3,600.0	3,616.4	3,581.8	7.8	13.5	-35.79	393.8	-283.9	485.8	463.6	22.22	21.860	
3,700.0	3,700.0	3,725.5	3,690.8	7.9	13.9	-35.85	396.0	-286.1	488.6	466.0	22.67	21.559	
3,800.0	3,800.0	3,834.7	3,800.0	8.1	14.1	-35.87	396.7	-286.9	489.6	466.6	22.99	21.297	
3,833.3	3,833.3	3,868.0	3,833.3	8.1	14.1	-35.87	396.7	-286.9	489.6	466.5	23.03	21.255	
3,900.0	3,900.0	3,934.7	3,900.0	8.2	14.1	-35.87	396.7	-286.9	489.6	466.4	23.14	21.161	
4,000.0	4,000.0	4,034.7	4,000.0	8.3	14.2	-35.87	396.7	-286.9	489.6	466.3	23.30	21.011	
4,100.0	4,100.0	4,134.7	4,100.0	8.5	14.3	-55.44	396.7	-286.9	488.6	465.1	23.48	20.805	
4,200.0	4,199.8	4,234.5	4,199.8	8.7	14.3	-55.99	396.7	-286.9	488.6	462.0	23.68	20.511	
4,300.0	4,299.5	4,334.1	4,299.5	8.9	14.4	-56.93	396.7	-286.9	480.8	456.9	23.88	20.136	
4,400.0	4,398.7	4,433.4	4,398.7	9.1	14.5	-58.27	396.7	-286.9	474.2	450.2	24.08	19.691	
4,500.0	4,497.5	4,532.1	4,497.5	9.3	14.5	-60.03	396.7	-286.9	466.1	441.9	24.29	19.190	
4,555.9	4,552.4	4,587.1	4,552.4	9.4	14.6	-61.21	396.7	-286.9	461.0	436.7	24.38	18.909	
4,600.0	4,595.7	4,630.4	4,595.7	9.5	14.6	-62.13	396.7	-286.9	457.0	432.5	24.45	18.691	
4,700.0	4,693.8	4,728.5	4,693.8	9.7	14.7	-64.28	396.7	-286.9	448.1	423.5	24.62	18.199	
4,800.0	4,791.9	4,826.6	4,791.9	9.9	14.7	-66.51	396.7	-286.9	440.0	415.2	24.79	17.751	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,900.0	4,890.1	4,924.7	4,890.1	10.2	14.8	-68.81	396.7	-286.9	432.5	407.6	24.93	17.350		
5,000.0	4,988.2	5,022.9	4,988.2	10.4	14.9	-71.19	396.7	-286.9	425.8	400.8	25.05	16.996		
5,100.0	5,086.3	5,121.0	5,086.3	10.7	14.9	-73.64	396.7	-286.9	419.9	394.7	25.16	16.690		
5,200.0	5,184.4	5,219.1	5,184.4	11.0	15.0	-76.15	396.7	-286.9	414.8	389.5	25.24	16.433		
5,300.0	5,282.6	5,317.2	5,282.6	11.3	15.1	-78.72	396.7	-286.9	410.5	385.2	25.30	16.224		
5,400.0	5,380.7	5,415.4	5,380.7	11.6	15.1	-81.33	396.7	-286.9	407.1	381.7	25.35	16.061		
5,500.0	5,478.8	5,513.5	5,478.8	12.0	15.2	-83.98	396.7	-286.9	404.6	379.2	25.37	15.945		
5,600.0	5,576.9	5,611.6	5,576.9	12.3	15.3	-86.66	396.7	-286.9	403.0	377.6	25.39	15.873		
5,700.0	5,675.0	5,709.7	5,675.0	12.6	15.3	-89.35	396.7	-286.9	402.3	376.9	25.39	15.842		
5,724.1	5,698.7	5,733.4	5,698.7	12.7	15.4	-90.00	396.7	-286.9	402.3	376.9	25.40	15.840		
5,800.0	5,773.2	5,807.9	5,773.2	13.0	15.4	-92.04	396.7	-286.9	402.5	377.1	25.40	15.849		
5,900.0	5,871.3	5,906.0	5,871.3	13.3	15.5	-94.73	396.7	-286.9	403.7	378.3	25.41	15.890		
5,924.3	5,895.1	5,929.8	5,895.1	13.4	15.5	-95.38	396.7	-286.9	404.1	378.7	25.40	15.911		
6,000.0	5,969.5	6,004.2	5,969.5	13.7	15.5	-97.34	396.7	-286.9	405.7	380.3	25.40	15.970		
6,100.0	6,068.0	6,102.7	6,068.0	14.0	15.6	-99.72	396.7	-286.9	408.3	382.8	25.45	16.042		
6,200.0	6,166.8	6,201.5	6,166.8	14.4	15.7	-101.84	396.7	-286.9	411.2	385.7	25.53	16.109		
6,300.0	6,265.9	6,300.6	6,265.9	14.8	15.7	-103.71	396.7	-286.9	414.2	388.6	25.63	16.163		
6,400.0	6,365.2	6,399.9	6,365.2	15.1	15.8	-105.32	396.7	-286.9	417.3	391.5	25.76	16.201		
6,500.0	6,464.7	6,499.3	6,464.7	15.5	15.9	-106.68	396.7	-286.9	420.1	394.2	25.90	16.217		
6,600.0	6,564.3	6,599.0	6,564.3	15.8	16.0	-107.80	396.7	-286.9	422.6	396.5	26.07	16.210		
6,700.0	6,664.1	6,698.7	6,664.1	16.1	16.0	-108.69	396.7	-286.9	424.7	398.5	26.25	16.180		
6,800.0	6,763.9	6,798.6	6,763.9	16.4	16.1	-109.34	396.7	-286.9	426.4	399.9	26.44	16.127		
6,900.0	6,863.9	6,898.6	6,863.9	16.7	16.2	-109.76	396.7	-286.9	427.4	400.8	26.63	16.052		
7,000.0	6,963.9	6,998.6	6,963.9	16.9	16.2	-109.95	396.7	-286.9	428.0	401.1	26.82	15.958		
7,036.1	7,000.0	7,034.7	7,000.0	17.0	16.3	-90.59	396.7	-286.9	428.0	401.1	26.87	15.930		
7,100.0	7,063.9	7,098.6	7,063.9	17.0	16.3	-90.59	396.7	-286.9	428.0	401.0	26.96	15.876		
7,200.0	7,163.9	7,198.6	7,163.9	17.1	16.4	-90.59	396.7	-286.9	428.0	400.9	27.12	15.778		
7,300.0	7,263.9	7,298.6	7,263.9	17.1	16.4	-90.59	396.7	-286.9	428.0	400.7	27.29	15.682		
7,400.0	7,363.9	7,398.6	7,363.9	17.2	16.5	-90.59	396.7	-286.9	428.0	400.5	27.46	15.587		
7,500.0	7,463.9	7,498.6	7,463.9	17.3	16.6	-90.59	396.7	-286.9	428.0	400.4	27.62	15.493		
7,600.0	7,563.9	7,598.6	7,563.9	17.4	16.7	-90.59	396.7	-286.9	428.0	400.2	27.79	15.400		
7,700.0	7,663.9	7,698.6	7,663.9	17.4	16.7	-90.59	396.7	-286.9	428.0	400.0	27.96	15.309		
7,800.0	7,763.9	7,798.6	7,763.9	17.5	16.8	-90.59	396.7	-286.9	428.0	399.9	28.12	15.218		
7,900.0	7,863.9	7,898.6	7,863.9	17.6	16.9	-90.59	396.7	-286.9	428.0	399.7	28.29	15.129		
8,000.0	7,963.9	7,998.6	7,963.9	17.6	16.9	-90.59	396.7	-286.9	428.0	399.5	28.46	15.040		
8,100.0	8,063.9	8,098.6	8,063.9	17.7	17.0	-90.59	396.7	-286.9	428.0	399.4	28.62	14.953		
8,200.0	8,163.9	8,198.6	8,163.9	17.8	17.1	-90.59	396.7	-286.9	428.0	399.2	28.79	14.867		
8,300.0	8,263.9	8,298.6	8,263.9	17.8	17.1	-90.59	396.7	-286.9	428.0	399.0	28.95	14.782		
8,400.0	8,363.9	8,398.6	8,363.9	17.9	17.2	-90.59	396.7	-286.9	428.0	398.9	29.12	14.697		
8,500.0	8,463.9	8,498.6	8,463.9	18.0	17.3	-90.59	396.7	-286.9	428.0	398.7	29.29	14.614		
8,600.0	8,563.9	8,598.6	8,563.9	18.1	17.4	-90.59	396.7	-286.9	428.0	398.5	29.45	14.532		
8,700.0	8,663.9	8,698.6	8,663.9	18.1	17.4	-90.59	396.7	-286.9	428.0	398.4	29.62	14.451		
8,800.0	8,763.9	8,798.6	8,763.9	18.2	17.5	-90.59	396.7	-286.9	428.0	398.2	29.78	14.370		
8,900.0	8,863.9	8,898.6	8,863.9	18.3	17.6	-90.59	396.7	-286.9	428.0	398.0	29.95	14.291		
9,000.0	8,963.9	8,998.6	8,963.9	18.3	17.6	-90.59	396.7	-286.9	428.0	397.9	30.11	14.212		
9,100.0	9,063.9	9,098.6	9,063.9	18.4	17.7	-90.59	396.7	-286.9	428.0	397.7	30.28	14.134		
9,200.0	9,163.9	9,198.6	9,163.9	18.5	17.8	-90.59	396.7	-286.9	428.0	397.5	30.45	14.058		
9,300.0	9,263.9	9,298.6	9,263.9	18.6	17.9	-90.59	396.7	-286.9	428.0	397.4	30.61	13.982		
9,400.0	9,363.9	9,398.6	9,363.9	18.6	17.9	-90.59	396.7	-286.9	428.0	397.2	30.78	13.906		
9,500.0	9,463.9	9,498.6	9,463.9	18.7	18.0	-90.59	396.7	-286.9	428.0	397.0	30.94	13.832		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,600.0	9,563.9	9,598.6	9,563.9	18.8	18.1	-90.59	396.7	-286.9	428.0	396.9	31.11	13.759		
9,700.0	9,663.9	9,698.6	9,663.9	18.9	18.2	-90.59	396.7	-286.9	428.0	396.7	31.27	13.686		
9,800.0	9,763.9	9,798.6	9,763.9	18.9	18.2	-90.59	396.7	-286.9	428.0	396.6	31.44	13.614		
9,900.0	9,863.9	9,898.6	9,863.9	19.0	18.3	-90.59	396.7	-286.9	428.0	396.4	31.60	13.543		
10,000.0	9,963.9	9,998.6	9,963.9	19.1	18.4	-90.59	396.7	-286.9	428.0	396.2	31.77	13.472		
10,100.0	10,063.9	10,098.6	10,063.9	19.1	18.4	-90.59	396.7	-286.9	428.0	396.1	31.93	13.403		
10,200.0	10,163.9	10,198.6	10,163.9	19.2	18.5	-90.59	396.7	-286.9	428.0	395.9	32.10	13.334		
10,300.0	10,263.9	10,298.6	10,263.9	19.3	18.6	-90.59	396.7	-286.9	428.0	395.7	32.26	13.266		
10,400.0	10,363.9	10,398.6	10,363.9	19.4	18.7	-90.59	396.7	-286.9	428.0	395.6	32.43	13.198		
10,500.0	10,463.9	10,498.6	10,463.9	19.4	18.7	-90.59	396.7	-286.9	428.0	395.4	32.59	13.131		
10,600.0	10,563.9	10,598.6	10,563.9	19.5	18.8	-90.59	396.7	-286.9	428.0	395.2	32.76	13.065		
10,700.0	10,663.9	10,698.6	10,663.9	19.6	18.9	-90.59	396.7	-286.9	428.0	395.1	32.92	13.000		
10,800.0	10,763.9	10,798.6	10,763.9	19.6	19.0	-90.59	396.7	-286.9	428.0	394.9	33.09	12.935		
10,900.0	10,863.9	10,898.6	10,863.9	19.7	19.0	-90.59	396.7	-286.9	428.0	394.7	33.25	12.871		
11,000.0	10,963.9	10,998.6	10,963.9	19.8	19.1	-90.59	396.7	-286.9	428.0	394.6	33.42	12.808		
11,100.0	11,063.9	11,098.6	11,063.9	19.9	19.2	-90.59	396.7	-286.9	428.0	394.4	33.58	12.745		
11,200.0	11,163.9	11,198.6	11,163.9	19.9	19.3	-90.59	396.7	-286.9	428.0	394.2	33.75	12.683		
11,300.0	11,263.9	11,298.6	11,263.9	20.0	19.3	-90.59	396.7	-286.9	428.0	394.1	33.91	12.621		
11,400.0	11,363.9	11,398.6	11,363.9	20.1	19.4	-90.59	396.7	-286.9	428.0	393.9	34.08	12.560		
11,500.0	11,463.9	11,498.6	11,463.9	20.2	19.5	-90.59	396.7	-286.9	428.0	393.8	34.24	12.500		
11,600.0	11,563.9	11,598.6	11,563.9	20.2	19.5	-90.59	396.7	-286.9	428.0	393.6	34.40	12.440		
11,700.0	11,663.9	11,698.6	11,663.9	20.3	19.6	-90.59	396.7	-286.9	428.0	393.4	34.57	12.381		
11,710.0	11,673.9	11,708.6	11,673.9	20.3	19.6	-90.59	396.7	-286.9	428.0	393.4	34.58	12.376		
11,800.0	11,763.9	11,798.1	11,763.3	20.4	19.6	-91.04	393.3	-286.9	428.0	393.4	34.65	12.351		
11,900.0	11,863.9	11,892.7	11,855.5	20.5	19.4	-93.78	372.9	-286.7	428.8	394.1	34.69	12.361		
11,925.6	11,889.5	11,915.4	11,876.9	20.5	19.3	-94.79	365.3	-286.7	429.4	394.7	34.71	12.373		
11,950.0	11,913.9	11,936.4	11,896.4	20.4	19.3	84.50	357.3	-286.6	430.2	395.5	34.72	12.391		
11,975.0	11,938.8	11,957.7	11,915.7	20.4	19.2	83.41	348.4	-286.6	431.2	396.5	34.73	12.415		
12,000.0	11,963.6	11,978.7	11,934.4	20.3	19.2	82.33	338.8	-286.5	432.3	397.6	34.76	12.439		
12,025.0	11,988.2	12,000.0	11,952.8	20.3	19.1	81.26	328.3	-286.4	433.6	398.8	34.79	12.464		
12,050.0	12,012.5	12,020.0	11,969.7	20.2	19.1	80.26	317.6	-286.4	434.9	400.1	34.84	12.485		
12,075.0	12,036.4	12,040.3	11,986.4	20.1	19.0	79.26	306.0	-286.3	436.4	401.5	34.90	12.505		
12,100.0	12,060.0	12,060.4	12,002.4	20.1	19.0	78.30	293.9	-286.2	438.0	403.0	34.97	12.522		
12,125.0	12,083.1	12,080.2	12,017.8	20.0	19.0	77.36	281.3	-286.1	439.6	404.5	35.06	12.536		
12,150.0	12,105.7	12,100.0	12,032.5	19.9	18.9	76.46	268.1	-286.1	441.2	406.1	35.17	12.547		
12,175.0	12,127.7	12,119.5	12,046.4	19.8	18.9	75.59	254.5	-286.0	442.9	407.7	35.29	12.552		
12,200.0	12,149.0	12,138.8	12,059.8	19.8	18.9	74.75	240.5	-285.9	444.7	409.2	35.42	12.554		
12,225.0	12,169.6	12,158.1	12,072.4	19.7	18.8	73.96	226.0	-285.8	446.4	410.8	35.57	12.550		
12,250.0	12,189.5	12,175.0	12,083.0	19.7	18.8	73.26	212.8	-285.7	448.1	412.4	35.76	12.532		
12,275.0	12,208.5	12,196.1	12,095.7	19.6	18.8	72.48	195.9	-285.6	449.8	413.9	35.90	12.530		
12,300.0	12,226.7	12,215.0	12,106.3	19.5	18.8	71.80	180.3	-285.5	451.5	415.4	36.08	12.513		
12,325.0	12,243.9	12,233.7	12,116.2	19.5	18.7	71.17	164.4	-285.4	453.1	416.8	36.27	12.493		
12,350.0	12,260.2	12,250.0	12,124.3	19.4	18.7	70.62	150.3	-285.3	454.7	418.2	36.50	12.456		
12,375.0	12,275.4	12,270.9	12,134.1	19.4	18.7	70.02	131.8	-285.2	456.2	419.5	36.67	12.440		
12,400.0	12,289.6	12,289.4	12,142.0	19.3	18.7	69.51	115.1	-285.1	457.6	420.7	36.87	12.409		
12,425.0	12,302.7	12,307.8	12,149.2	19.3	18.7	69.05	98.1	-285.0	458.9	421.8	37.08	12.376		
12,450.0	12,314.6	12,325.0	12,155.3	19.3	18.7	68.64	82.1	-284.9	460.1	422.8	37.30	12.336		
12,475.0	12,325.4	12,344.5	12,161.6	19.2	18.7	68.25	63.7	-284.7	461.2	423.7	37.49	12.304		
12,500.0	12,335.0	12,362.7	12,166.8	19.2	18.7	67.91	46.2	-284.6	462.2	424.5	37.68	12.265		
12,525.0	12,343.4	12,380.9	12,171.3	19.2	18.7	67.63	28.5	-284.5	463.1	425.2	37.87	12.227		
12,550.0	12,350.5	12,400.0	12,175.3	19.2	18.7	67.38	9.9	-284.4	463.8	425.8	38.05	12.190		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
12,575.0	12,356.4	12,417.2	12,178.2	19.2	18.7	67.19	-7.1	-284.3	464.4	426.2	38.23	12.148		
12,600.0	12,361.0	12,435.3	12,180.7	19.1	18.7	67.03	-25.0	-284.2	464.9	426.5	38.39	12.109		
12,625.0	12,364.3	12,450.0	12,182.2	19.1	18.7	66.94	-39.6	-284.1	465.3	426.7	38.56	12.065		
12,650.0	12,366.3	12,471.5	12,183.6	19.1	18.7	66.87	-61.0	-283.9	465.4	426.8	38.68	12.034		
12,675.6	12,367.0	12,491.2	12,184.0	19.1	18.8	66.85	-80.7	-283.8	465.5	426.7	38.79	11.999		
12,677.2	12,367.0	12,491.2	12,184.0	19.2	18.8	66.85	-80.7	-283.8	465.5	426.7	38.81	11.995		
12,700.0	12,367.0	12,513.9	12,184.0	19.2	18.8	66.85	-103.5	-283.7	465.5	426.6	38.89	11.968		
12,800.0	12,367.0	12,613.9	12,184.0	19.2	19.0	66.85	-203.5	-283.0	465.5	426.1	39.33	11.834		
12,900.0	12,367.0	12,713.9	12,184.0	19.3	19.1	66.85	-303.5	-282.4	465.5	425.6	39.86	11.678		
13,000.0	12,367.0	12,813.9	12,184.0	19.3	19.4	66.85	-403.5	-281.7	465.5	425.0	40.46	11.504		
13,100.0	12,367.0	12,913.9	12,184.0	19.5	19.7	66.85	-503.5	-281.1	465.5	424.3	41.14	11.315		
13,200.0	12,367.0	13,013.9	12,184.0	19.6	20.0	66.85	-603.5	-280.4	465.5	423.6	41.89	11.112		
13,300.0	12,367.0	13,113.9	12,184.0	19.8	20.4	66.85	-703.5	-279.8	465.5	422.8	42.71	10.900		
13,400.0	12,367.0	13,213.9	12,184.0	20.1	20.8	66.85	-803.5	-279.1	465.5	421.9	43.59	10.679		
13,500.0	12,367.0	13,313.9	12,184.0	20.4	21.2	66.85	-903.5	-278.5	465.5	421.0	44.53	10.454		
13,600.0	12,367.0	13,413.9	12,184.0	20.9	21.7	66.85	-1,003.5	-277.8	465.5	420.0	45.53	10.224		
13,700.0	12,367.0	13,513.9	12,184.0	21.3	22.2	66.85	-1,103.5	-277.2	465.5	418.9	46.58	9.994		
13,800.0	12,367.0	13,613.9	12,184.0	21.9	22.8	66.85	-1,203.5	-276.5	465.5	417.8	47.68	9.763		
13,900.0	12,367.0	13,713.9	12,184.0	22.4	23.4	66.85	-1,303.5	-275.9	465.5	416.7	48.82	9.534		
14,000.0	12,367.0	13,813.9	12,184.0	23.1	24.0	66.85	-1,403.5	-275.2	465.5	415.5	50.01	9.308		
14,100.0	12,367.0	13,913.9	12,184.0	23.7	24.6	66.85	-1,503.5	-274.6	465.5	414.3	51.24	9.085		
14,200.0	12,367.0	14,013.9	12,184.0	24.4	25.3	66.85	-1,603.5	-274.0	465.5	413.0	52.50	8.866		
14,300.0	12,367.0	14,113.9	12,184.0	25.1	26.0	66.85	-1,703.5	-273.3	465.5	411.7	53.80	8.652		
14,400.0	12,367.0	14,213.9	12,184.0	25.8	26.7	66.85	-1,803.5	-272.7	465.5	410.4	55.13	8.443		
14,500.0	12,367.0	14,313.9	12,184.0	26.5	27.4	66.85	-1,903.5	-272.0	465.5	409.0	56.49	8.240		
14,600.0	12,367.0	14,413.9	12,184.0	27.3	28.1	66.85	-2,003.5	-271.4	465.5	407.6	57.88	8.043		
14,700.0	12,367.0	14,513.9	12,184.0	28.0	28.9	66.85	-2,103.4	-270.7	465.5	406.2	59.29	7.851		
14,800.0	12,367.0	14,613.9	12,184.0	28.8	29.6	66.85	-2,203.4	-270.1	465.5	404.8	60.73	7.665		
14,900.0	12,367.0	14,713.9	12,184.0	29.6	30.4	66.85	-2,303.4	-269.4	465.5	403.3	62.19	7.486		
15,000.0	12,367.0	14,813.9	12,184.0	30.4	31.2	66.85	-2,403.4	-268.8	465.5	401.9	63.67	7.312		
15,100.0	12,367.0	14,913.9	12,184.0	31.2	32.0	66.85	-2,503.4	-268.1	465.5	400.4	65.17	7.144		
15,200.0	12,367.0	15,013.9	12,184.0	32.0	32.8	66.85	-2,603.4	-267.5	465.5	398.8	66.68	6.981		
15,300.0	12,367.0	15,113.9	12,184.0	32.8	33.6	66.85	-2,703.4	-266.8	465.5	397.3	68.21	6.824		
15,400.0	12,367.0	15,213.9	12,184.0	33.7	34.4	66.85	-2,803.4	-266.2	465.5	395.8	69.76	6.673		
15,500.0	12,367.0	15,313.9	12,184.0	34.5	35.2	66.85	-2,903.4	-265.6	465.5	394.2	71.33	6.527		
15,600.0	12,367.0	15,413.9	12,184.0	35.4	36.1	66.85	-3,003.4	-264.9	465.5	392.6	72.90	6.386		
15,700.0	12,367.0	15,513.9	12,184.0	36.2	36.9	66.85	-3,103.4	-264.3	465.5	391.0	74.49	6.250		
15,800.0	12,367.0	15,613.9	12,184.0	37.1	37.8	66.85	-3,203.4	-263.6	465.5	389.4	76.09	6.118		
15,900.0	12,367.0	15,713.9	12,184.0	37.9	38.6	66.85	-3,303.4	-263.0	465.5	387.8	77.70	5.991		
16,000.0	12,367.0	15,813.9	12,184.0	38.8	39.5	66.85	-3,403.4	-262.3	465.5	386.2	79.32	5.869		
16,100.0	12,367.0	15,913.9	12,184.0	39.7	40.3	66.85	-3,503.4	-261.7	465.5	384.6	80.96	5.751		
16,200.0	12,367.0	16,013.9	12,184.0	40.5	41.2	66.85	-3,603.4	-261.0	465.5	382.9	82.60	5.636		
16,300.0	12,367.0	16,113.9	12,184.0	41.4	42.1	66.85	-3,703.4	-260.4	465.5	381.3	84.25	5.526		
16,400.0	12,367.0	16,213.9	12,184.0	42.3	42.9	66.85	-3,803.4	-259.7	465.5	379.6	85.91	5.419		
16,500.0	12,367.0	16,313.9	12,184.0	43.2	43.8	66.85	-3,903.4	-259.1	465.5	378.0	87.57	5.316		
16,600.0	12,367.0	16,413.9	12,184.0	44.1	44.7	66.85	-4,003.4	-258.4	465.6	376.3	89.25	5.217		
16,700.0	12,367.0	16,513.9	12,184.0	45.0	45.6	66.85	-4,103.4	-257.8	465.6	374.6	90.93	5.120		
16,800.0	12,367.0	16,613.9	12,184.0	45.9	46.5	66.85	-4,203.4	-257.1	465.6	372.9	92.61	5.027		
16,900.0	12,367.0	16,713.9	12,184.0	46.8	47.4	66.85	-4,303.4	-256.5	465.6	371.3	94.30	4.937		
17,000.0	12,367.0	16,813.9	12,184.0	47.7	48.3	66.85	-4,403.4	-255.9	465.6	369.6	96.00	4.849		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,100.0	12,367.0	16,913.9	12,184.0	48.6	49.2	66.85	-4,503.4	-255.2	465.6	367.9	97.71	4.765	
17,200.0	12,367.0	17,013.9	12,184.0	49.5	50.1	66.85	-4,603.4	-254.6	465.6	366.1	99.42	4.683	
17,300.0	12,367.0	17,113.9	12,184.0	50.4	51.0	66.85	-4,703.4	-253.9	465.6	364.4	101.13	4.604	
17,400.0	12,367.0	17,213.9	12,184.0	51.3	51.9	66.85	-4,803.4	-253.3	465.6	362.7	102.85	4.527	
17,500.0	12,367.0	17,313.9	12,184.0	52.2	52.8	66.85	-4,903.4	-252.6	465.6	361.0	104.57	4.452	
17,600.0	12,367.0	17,413.9	12,184.0	53.1	53.7	66.85	-5,003.4	-252.0	465.6	359.3	106.30	4.380	
17,700.0	12,367.0	17,513.9	12,184.0	54.1	54.6	66.85	-5,103.4	-251.3	465.6	357.5	108.03	4.310	
17,800.0	12,367.0	17,613.9	12,184.0	55.0	55.5	66.85	-5,203.4	-250.7	465.6	355.8	109.77	4.241	
17,900.0	12,367.0	17,713.9	12,184.0	55.9	56.4	66.85	-5,303.4	-250.0	465.6	354.1	111.51	4.175	
18,000.0	12,367.0	17,813.9	12,184.0	56.8	57.3	66.85	-5,403.4	-249.4	465.6	352.3	113.25	4.111	
18,100.0	12,367.0	17,913.9	12,184.0	57.7	58.3	66.85	-5,503.4	-248.7	465.6	350.6	115.00	4.049	
18,200.0	12,367.0	18,013.9	12,184.0	58.7	59.2	66.86	-5,603.4	-248.1	465.6	348.8	116.75	3.988	
18,300.0	12,367.0	18,113.9	12,184.0	59.6	60.1	66.86	-5,703.4	-247.4	465.6	347.1	118.50	3.929	
18,400.0	12,367.0	18,213.9	12,184.0	60.5	61.0	66.86	-5,803.4	-246.8	465.6	345.3	120.25	3.872	
18,500.0	12,367.0	18,313.9	12,184.0	61.4	61.9	66.86	-5,903.4	-246.2	465.6	343.6	122.01	3.816	
18,600.0	12,367.0	18,413.9	12,184.0	62.4	62.9	66.86	-6,003.4	-245.5	465.6	341.8	123.77	3.762	
18,700.0	12,367.0	18,513.9	12,184.0	63.3	63.8	66.86	-6,103.4	-244.9	465.6	340.1	125.54	3.709	
18,800.0	12,367.0	18,613.9	12,184.0	64.2	64.7	66.86	-6,203.4	-244.2	465.6	338.3	127.30	3.657	
18,900.0	12,367.0	18,713.9	12,184.0	65.2	65.6	66.86	-6,303.4	-243.6	465.6	336.5	129.07	3.607	
19,000.0	12,367.0	18,813.9	12,184.0	66.1	66.6	66.86	-6,403.4	-242.9	465.6	334.8	130.84	3.558	
19,100.0	12,367.0	18,913.9	12,184.0	67.0	67.5	66.86	-6,503.4	-242.3	465.6	333.0	132.62	3.511	
19,200.0	12,367.0	19,013.9	12,184.0	68.0	68.4	66.86	-6,603.4	-241.6	465.6	331.2	134.39	3.465	
19,300.0	12,367.0	19,113.9	12,184.0	68.9	69.4	66.86	-6,703.4	-241.0	465.6	329.4	136.17	3.419	
19,400.0	12,367.0	19,213.9	12,184.0	69.8	70.3	66.86	-6,803.4	-240.3	465.6	327.7	137.95	3.375	
19,500.0	12,367.0	19,313.9	12,184.0	70.8	71.2	66.86	-6,903.3	-239.7	465.6	325.9	139.73	3.332	
19,600.0	12,367.0	19,413.9	12,184.0	71.7	72.2	66.86	-7,003.3	-239.0	465.6	324.1	141.51	3.290	
19,628.7	12,367.0	19,442.7	12,184.0	72.0	72.4	66.86	-7,032.1	-238.9	465.6	323.6	142.02	3.278 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 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	179.42	-30.0	0.3	30.0	29.5	0.48	62.572		
100.0	100.0	100.0	100.0	1.2	1.2	179.42	-30.0	0.3	30.0	27.1	2.87	10.465		
200.0	200.0	200.0	200.0	1.7	1.7	179.42	-30.0	0.3	30.0	26.1	3.86	7.765		
300.0	300.0	300.0	300.0	2.1	2.1	179.42	-30.0	0.3	30.0	25.4	4.63	6.475		
400.0	400.0	400.0	400.0	2.4	2.4	179.42	-30.0	0.3	30.0	24.7	5.29	5.674		
500.0	500.0	500.0	500.0	2.7	2.7	179.42	-30.0	0.3	30.0	24.1	5.87	5.114		
600.0	600.0	600.0	600.0	3.0	3.0	179.42	-30.0	0.3	30.0	23.6	6.39	4.692		
700.0	700.0	700.0	700.0	3.2	3.2	179.42	-30.0	0.3	30.0	23.1	6.88	4.359		
800.0	800.0	800.0	800.0	3.5	3.5	179.42	-30.0	0.3	30.0	22.7	7.34	4.088		
900.0	900.0	900.0	900.0	3.7	3.7	179.42	-30.0	0.3	30.0	22.2	7.77	3.860		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	179.42	-30.0	0.3	30.0	21.8	8.18	3.666		
1,100.0	1,100.0	1,100.5	1,100.4	4.1	4.2	176.37	-29.2	1.8	29.2	20.6	8.59	3.399		
1,200.0	1,200.0	1,200.7	1,200.5	4.3	4.5	166.35	-26.6	6.5	27.4	18.4	8.96	3.058		
1,284.6	1,284.6	1,285.0	1,284.6	4.5	4.8	151.24	-23.2	12.7	26.4	17.2	9.25	2.860	Normal Operations, CC	
1,300.0	1,300.0	1,300.4	1,299.8	4.5	4.8	147.85	-22.4	14.1	26.5	17.2	9.30	2.848	Normal Operations, ES, SF	
1,400.0	1,400.0	1,399.4	1,398.1	4.7	5.1	123.98	-16.6	24.7	29.8	20.1	9.73	3.064		
1,500.0	1,500.0	1,498.1	1,495.8	4.8	5.2	104.41	-9.6	37.4	38.9	28.8	10.11	3.844		
1,600.0	1,600.0	1,597.0	1,593.5	5.0	5.3	92.88	-2.5	50.3	50.8	40.3	10.52	4.830		
1,700.0	1,700.0	1,695.9	1,691.3	5.2	5.5	85.89	4.5	63.2	64.0	53.1	10.89	5.877		
1,800.0	1,800.0	1,794.8	1,789.1	5.3	5.7	81.32	11.6	76.1	77.8	66.6	11.24	6.920		
1,900.0	1,900.0	1,893.7	1,886.9	5.5	5.9	78.13	18.7	89.1	91.9	80.4	11.59	7.936		
2,000.0	2,000.0	1,992.6	1,984.7	5.6	6.0	75.80	25.8	102.0	106.3	94.4	11.92	8.915		
2,100.0	2,100.0	2,091.4	2,082.5	5.8	6.2	74.03	32.9	114.9	120.8	108.5	12.26	9.854		
2,200.0	2,200.0	2,190.3	2,180.2	5.9	6.4	72.63	40.0	127.8	135.3	122.7	12.58	10.753		
2,300.0	2,300.0	2,289.2	2,278.0	6.1	6.6	71.51	47.0	140.7	150.0	137.0	12.91	11.613		
2,400.0	2,400.0	2,388.1	2,375.8	6.2	6.8	70.58	54.1	153.6	164.6	151.4	13.24	12.436		
2,500.0	2,500.0	2,487.0	2,473.6	6.4	6.9	69.81	61.2	166.5	179.3	165.8	13.56	13.224		
2,600.0	2,600.0	2,585.9	2,571.4	6.5	7.1	69.16	68.3	179.4	194.1	180.2	13.88	13.978		
2,700.0	2,700.0	2,684.8	2,669.2	6.6	7.3	68.59	75.4	192.3	208.8	194.6	14.21	14.701		
2,800.0	2,800.0	2,783.6	2,766.9	6.8	7.5	68.11	82.5	205.2	223.6	209.1	14.53	15.394		
2,900.0	2,900.0	2,882.5	2,864.7	6.9	7.7	67.68	89.5	218.1	238.4	223.6	14.85	16.059		
3,000.0	3,000.0	2,981.4	2,962.5	7.1	7.9	67.30	96.6	231.0	253.2	238.0	15.16	16.698		
3,100.0	3,100.0	3,080.3	3,060.3	7.2	8.1	66.96	103.7	243.9	268.0	252.5	15.48	17.312		
3,200.0	3,200.0	3,179.2	3,158.1	7.3	8.2	66.66	110.8	256.8	282.8	267.0	15.80	17.903		
3,300.0	3,300.0	3,278.1	3,255.9	7.4	8.4	66.39	117.9	269.7	297.7	281.5	16.11	18.472		
3,400.0	3,400.0	3,377.0	3,353.6	7.6	8.6	66.15	125.0	282.6	312.5	296.1	16.43	19.021		
3,500.0	3,500.0	3,475.8	3,451.4	7.7	8.8	65.92	132.1	295.5	327.3	310.6	16.74	19.549		
3,600.0	3,600.0	3,574.7	3,549.2	7.8	9.0	65.72	139.1	308.5	342.2	325.1	17.06	20.059		
3,700.0	3,700.0	3,673.6	3,647.0	7.9	9.2	65.53	146.2	321.4	357.0	339.6	17.37	20.552		
3,800.0	3,800.0	3,772.5	3,744.8	8.1	9.4	65.36	153.3	334.3	371.9	354.2	17.68	21.027		
3,900.0	3,900.0	3,871.4	3,842.6	8.2	9.6	65.20	160.4	347.2	386.7	368.7	18.00	21.487		
4,000.0	4,000.0	3,970.3	3,940.3	8.3	9.7	65.06	167.5	360.1	401.6	383.3	18.31	21.932		
4,100.0	4,100.0	4,069.3	4,038.3	8.5	9.9	45.52	174.6	373.0	415.2	396.6	18.64	22.270		
4,200.0	4,199.8	4,168.7	4,136.5	8.7	10.1	45.73	181.7	386.0	426.4	407.5	18.98	22.469		
4,300.0	4,299.5	4,268.1	4,234.9	8.9	10.3	46.29	188.8	398.9	435.3	416.0	19.31	22.536		
4,400.0	4,398.7	4,367.6	4,333.3	9.1	10.5	47.18	195.9	411.9	441.8	422.2	19.65	22.484		
4,500.0	4,497.5	4,467.0	4,431.6	9.3	10.7	48.40	203.1	424.9	446.2	426.2	19.99	22.325		
4,555.9	4,552.4	4,522.5	4,486.4	9.4	10.8	49.23	207.0	432.1	447.7	427.6	20.14	22.230		
4,600.0	4,595.7	4,566.2	4,529.7	9.5	10.9	49.94	210.2	437.9	448.7	428.4	20.26	22.152		
4,700.0	4,693.8	4,665.4	4,627.7	9.7	11.1	51.53	217.3	450.8	451.2	430.7	20.57	21.941		
4,800.0	4,791.9	4,764.6	4,725.8	9.9	11.3	53.11	224.4	463.7	454.1	433.2	20.88	21.753		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
4,900.0	4,890.1	4,863.7	4,823.8	10.2	11.5	54.66	231.5	476.7	457.3	436.2	21.18	21.588		
5,000.0	4,988.2	4,962.9	4,921.9	10.4	11.7	56.20	238.6	489.6	460.9	439.4	21.49	21.447		
5,100.0	5,086.3	5,062.1	5,020.0	10.7	11.9	57.71	245.7	502.6	464.8	443.0	21.79	21.328		
5,200.0	5,184.4	5,161.2	5,118.0	11.0	12.0	59.19	252.8	515.5	469.0	446.9	22.09	21.235		
5,300.0	5,282.6	5,266.3	5,222.0	11.3	12.3	60.75	260.1	528.8	473.1	450.7	22.42	21.104		
5,400.0	5,380.7	5,373.8	5,328.6	11.6	12.5	62.40	266.6	540.7	475.8	453.1	22.73	20.932		
5,500.0	5,478.8	5,481.2	5,435.4	12.0	12.7	64.12	272.2	550.9	477.2	454.2	23.01	20.739		
5,600.0	5,576.9	5,588.4	5,542.2	12.3	12.9	65.93	276.8	559.2	477.2	454.0	23.26	20.514		
5,700.0	5,675.0	5,695.3	5,648.8	12.6	13.1	67.83	280.4	565.9	476.0	452.5	23.49	20.264		
5,800.0	5,773.2	5,801.9	5,755.3	13.0	13.2	69.85	283.1	570.7	473.7	450.0	23.69	19.993		
5,900.0	5,871.3	5,908.1	5,861.4	13.3	13.4	71.99	284.8	573.8	470.2	446.4	23.86	19.708		
5,924.3	5,895.1	5,933.8	5,887.1	13.4	13.4	72.53	285.1	574.3	469.2	445.3	23.88	19.648		
6,000.0	5,969.5	6,014.0	5,967.3	13.7	13.5	74.19	285.6	575.2	466.0	442.0	23.96	19.444		
6,100.0	6,068.0	6,114.7	6,068.0	14.0	13.6	76.21	285.6	575.3	461.6	437.6	24.02	19.216		
6,200.0	6,166.8	6,213.5	6,166.8	14.4	13.7	78.03	285.6	575.3	458.1	434.0	24.11	18.999		
6,300.0	6,265.9	6,312.6	6,265.9	14.8	13.7	79.67	285.6	575.3	455.5	431.2	24.21	18.809		
6,400.0	6,365.2	6,411.9	6,365.2	15.1	13.8	81.12	285.6	575.3	453.4	429.1	24.32	18.641		
6,500.0	6,464.7	6,511.4	6,464.7	15.5	13.9	82.38	285.6	575.3	452.0	427.5	24.45	18.489		
6,600.0	6,564.3	6,611.0	6,564.3	15.8	13.9	83.43	285.6	575.3	450.9	426.3	24.58	18.348		
6,700.0	6,664.1	6,710.8	6,664.1	16.1	14.0	84.28	285.6	575.3	450.2	425.5	24.72	18.215		
6,800.0	6,763.9	6,810.6	6,763.9	16.4	14.1	84.90	285.6	575.3	449.7	424.9	24.86	18.087		
6,900.0	6,863.9	6,910.6	6,863.9	16.7	14.2	85.31	285.6	575.3	449.5	424.4	25.02	17.963		
7,000.0	6,963.9	7,010.6	6,963.9	16.9	14.2	85.50	285.6	575.3	449.3	424.1	25.18	17.842		
7,036.1	7,000.0	7,046.7	7,000.0	17.0	14.3	104.90	285.6	575.3	449.3	424.1	25.23	17.809		
7,100.0	7,063.9	7,110.6	7,063.9	17.0	14.3	104.90	285.6	575.3	449.3	424.0	25.32	17.745		
7,200.0	7,163.9	7,210.6	7,163.9	17.1	14.4	104.90	285.6	575.3	449.3	423.8	25.49	17.627		
7,300.0	7,263.9	7,310.6	7,263.9	17.1	14.4	104.90	285.6	575.3	449.3	423.7	25.66	17.511		
7,400.0	7,363.9	7,410.6	7,363.9	17.2	14.5	104.90	285.6	575.3	449.3	423.5	25.83	17.397		
7,500.0	7,463.9	7,510.6	7,463.9	17.3	14.6	104.90	285.6	575.3	449.3	423.3	26.00	17.284		
7,600.0	7,563.9	7,610.6	7,563.9	17.4	14.7	104.90	285.6	575.3	449.3	423.2	26.17	17.172		
7,700.0	7,663.9	7,710.6	7,663.9	17.4	14.7	104.90	285.6	575.3	449.3	423.0	26.33	17.063		
7,800.0	7,763.9	7,810.6	7,763.9	17.5	14.8	104.90	285.6	575.3	449.3	422.8	26.50	16.954		
7,900.0	7,863.9	7,910.6	7,863.9	17.6	14.9	104.90	285.6	575.3	449.3	422.7	26.67	16.847		
8,000.0	7,963.9	8,010.6	7,963.9	17.6	15.0	104.90	285.6	575.3	449.3	422.5	26.84	16.742		
8,100.0	8,063.9	8,110.6	8,063.9	17.7	15.0	104.90	285.6	575.3	449.3	422.3	27.01	16.637		
8,200.0	8,163.9	8,210.6	8,163.9	17.8	15.1	104.90	285.6	575.3	449.3	422.1	27.17	16.534		
8,300.0	8,263.9	8,310.6	8,263.9	17.8	15.2	104.90	285.6	575.3	449.3	422.0	27.34	16.433		
8,400.0	8,363.9	8,410.6	8,363.9	17.9	15.2	104.90	285.6	575.3	449.3	421.8	27.51	16.333		
8,500.0	8,463.9	8,510.6	8,463.9	18.0	15.3	104.90	285.6	575.3	449.3	421.6	27.68	16.234		
8,600.0	8,563.9	8,610.6	8,563.9	18.1	15.4	104.90	285.6	575.3	449.3	421.5	27.85	16.136		
8,700.0	8,663.9	8,710.6	8,663.9	18.1	15.5	104.90	285.6	575.3	449.3	421.3	28.01	16.039		
8,800.0	8,763.9	8,810.6	8,763.9	18.2	15.5	104.90	285.6	575.3	449.3	421.1	28.18	15.944		
8,900.0	8,863.9	8,910.6	8,863.9	18.3	15.6	104.90	285.6	575.3	449.3	421.0	28.35	15.850		
9,000.0	8,963.9	9,010.6	8,963.9	18.3	15.7	104.90	285.6	575.3	449.3	420.8	28.52	15.757		
9,100.0	9,063.9	9,110.6	9,063.9	18.4	15.8	104.90	285.6	575.3	449.3	420.6	28.68	15.665		
9,200.0	9,163.9	9,210.6	9,163.9	18.5	15.8	104.90	285.6	575.3	449.3	420.5	28.85	15.574		
9,300.0	9,263.9	9,310.6	9,263.9	18.6	15.9	104.90	285.6	575.3	449.3	420.3	29.02	15.484		
9,400.0	9,363.9	9,410.6	9,363.9	18.6	16.0	104.90	285.6	575.3	449.3	420.1	29.18	15.396		
9,500.0	9,463.9	9,510.6	9,463.9	18.7	16.1	104.90	285.6	575.3	449.3	420.0	29.35	15.308		
9,600.0	9,563.9	9,610.6	9,563.9	18.8	16.1	104.90	285.6	575.3	449.3	419.8	29.52	15.221		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
9,700.0	9,663.9	9,710.6	9,663.9	18.9	16.2	104.90	285.6	575.3	449.3	419.6	29.69	15.136	
9,800.0	9,763.9	9,810.6	9,763.9	18.9	16.3	104.90	285.6	575.3	449.3	419.5	29.85	15.051	
9,900.0	9,863.9	9,910.6	9,863.9	19.0	16.4	104.90	285.6	575.3	449.3	419.3	30.02	14.968	
10,000.0	9,963.9	10,010.6	9,963.9	19.1	16.4	104.90	285.6	575.3	449.3	419.1	30.19	14.885	
10,100.0	10,063.9	10,110.6	10,063.9	19.1	16.5	104.90	285.6	575.3	449.3	419.0	30.35	14.803	
10,200.0	10,163.9	10,210.6	10,163.9	19.2	16.6	104.90	285.6	575.3	449.3	418.8	30.52	14.723	
10,300.0	10,263.9	10,310.6	10,263.9	19.3	16.7	104.90	285.6	575.3	449.3	418.6	30.69	14.643	
10,400.0	10,363.9	10,410.6	10,363.9	19.4	16.7	104.90	285.6	575.3	449.3	418.5	30.85	14.564	
10,500.0	10,463.9	10,510.6	10,463.9	19.4	16.8	104.90	285.6	575.3	449.3	418.3	31.02	14.486	
10,600.0	10,563.9	10,610.6	10,563.9	19.5	16.9	104.90	285.6	575.3	449.3	418.1	31.18	14.408	
10,700.0	10,663.9	10,710.6	10,663.9	19.6	17.0	104.90	285.6	575.3	449.3	418.0	31.35	14.332	
10,800.0	10,763.9	10,810.6	10,763.9	19.6	17.0	104.90	285.6	575.3	449.3	417.8	31.52	14.256	
10,900.0	10,863.9	10,910.6	10,863.9	19.7	17.1	104.90	285.6	575.3	449.3	417.6	31.68	14.182	
11,000.0	10,963.9	11,010.6	10,963.9	19.8	17.2	104.90	285.6	575.3	449.3	417.5	31.85	14.108	
11,100.0	11,063.9	11,110.6	11,063.9	19.9	17.3	104.90	285.6	575.3	449.3	417.3	32.02	14.034	
11,200.0	11,163.9	11,210.6	11,163.9	19.9	17.3	104.90	285.6	575.3	449.3	417.1	32.18	13.962	
11,300.0	11,263.9	11,310.6	11,263.9	20.0	17.4	104.90	285.6	575.3	449.3	417.0	32.35	13.890	
11,400.0	11,363.9	11,410.6	11,363.9	20.1	17.5	104.90	285.6	575.3	449.3	416.8	32.51	13.820	
11,500.0	11,463.9	11,510.6	11,463.9	20.2	17.6	104.90	285.6	575.3	449.3	416.6	32.68	13.749	
11,600.0	11,563.9	11,610.6	11,563.9	20.2	17.6	104.90	285.6	575.3	449.3	416.5	32.85	13.680	
11,700.0	11,663.9	11,710.6	11,663.9	20.3	17.7	104.90	285.6	575.3	449.3	416.3	33.01	13.612	
11,710.0	11,673.9	11,720.6	11,673.9	20.3	17.7	104.90	285.6	575.3	449.3	416.3	33.02	13.607	
11,800.0	11,763.9	11,800.0	11,753.2	20.4	17.7	105.18	283.3	575.3	450.1	416.9	33.11	13.591	
11,900.0	11,863.9	11,875.0	11,827.0	20.5	17.7	106.78	270.2	575.4	455.1	421.9	33.24	13.691	
11,925.6	11,889.5	11,895.5	11,846.7	20.5	17.7	107.45	264.6	575.4	457.3	424.0	33.28	13.744	
11,950.0	11,913.9	11,913.3	11,863.6	20.4	17.6	-71.31	259.0	575.5	459.6	426.3	33.32	13.793	
11,975.0	11,938.8	11,931.4	11,880.6	20.4	17.6	-70.46	252.7	575.5	461.9	428.5	33.38	13.840	
12,000.0	11,963.6	11,950.0	11,897.8	20.3	17.6	-69.64	245.6	575.6	464.2	430.8	33.44	13.883	
12,025.0	11,988.2	11,967.3	11,913.5	20.3	17.6	-68.90	238.4	575.6	466.4	432.9	33.53	13.910	
12,050.0	12,012.5	11,985.1	11,929.4	20.2	17.6	-68.18	230.4	575.7	468.6	435.0	33.63	13.932	
12,075.0	12,036.4	12,000.0	11,942.5	20.1	17.6	-67.58	223.2	575.7	470.7	436.9	33.80	13.923	
12,100.0	12,060.0	12,020.4	11,960.0	20.1	17.6	-66.90	212.8	575.8	472.6	438.8	33.89	13.947	
12,125.0	12,083.1	12,038.0	11,974.7	20.0	17.6	-66.33	203.2	575.8	474.5	440.5	34.04	13.941	
12,150.0	12,105.7	12,055.5	11,989.0	19.9	17.5	-65.81	193.1	575.9	476.3	442.1	34.20	13.927	
12,175.0	12,127.7	12,075.0	12,004.5	19.8	17.5	-65.31	181.2	576.0	477.9	443.6	34.32	13.922	
12,200.0	12,149.0	12,090.3	12,016.3	19.8	17.5	-64.92	171.5	576.0	479.3	444.8	34.56	13.871	
12,225.0	12,169.6	12,107.6	12,029.2	19.7	17.5	-64.54	160.0	576.1	480.7	445.9	34.75	13.832	
12,250.0	12,189.5	12,125.0	12,041.8	19.7	17.5	-64.22	148.0	576.2	481.8	446.9	34.95	13.787	
12,275.0	12,208.5	12,142.1	12,053.8	19.6	17.5	-63.94	135.8	576.3	482.8	447.7	35.16	13.733	
12,300.0	12,226.7	12,159.4	12,065.4	19.5	17.5	-63.72	123.0	576.4	483.6	448.3	35.37	13.675	
12,325.0	12,243.9	12,175.0	12,075.5	19.5	17.5	-63.55	111.1	576.4	484.3	448.7	35.62	13.596	
12,350.0	12,260.2	12,193.7	12,087.1	19.4	17.5	-63.42	96.4	576.5	484.8	449.0	35.79	13.543	
12,375.0	12,275.4	12,210.9	12,097.3	19.4	17.5	-63.34	82.5	576.6	485.0	449.0	36.01	13.472	
12,400.0	12,289.6	12,225.0	12,105.2	19.3	17.5	-63.31	70.9	576.7	485.2	448.9	36.29	13.369	
12,425.0	12,302.7	12,245.2	12,116.0	19.3	17.5	-63.33	53.7	576.8	485.1	448.7	36.41	13.321	
12,450.0	12,314.6	12,262.4	12,124.5	19.3	17.5	-63.40	38.8	576.9	484.8	448.2	36.61	13.243	
12,475.0	12,325.4	12,279.6	12,132.6	19.2	17.5	-63.52	23.7	577.0	484.4	447.6	36.79	13.164	
12,500.0	12,335.0	12,300.0	12,141.4	19.2	17.5	-63.71	5.3	577.1	483.8	446.9	36.89	13.112	
12,525.0	12,343.4	12,314.0	12,147.0	19.2	17.5	-63.91	-7.6	577.2	482.9	445.8	37.13	13.007	
12,550.0	12,350.5	12,331.3	12,153.3	19.2	17.5	-64.18	-23.6	577.3	482.0	444.7	37.28	12.929	
12,575.0	12,356.4	12,350.0	12,159.6	19.2	17.5	-64.52	-41.3	577.4	480.8	443.4	37.38	12.864	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,600.0	12,361.0	12,365.9	12,164.4	19.1	17.5	-64.87	-56.4	577.5	479.5	442.0	37.52	12.779	
12,625.0	12,364.3	12,383.2	12,169.0	19.1	17.6	-65.28	-73.1	577.6	478.1	440.4	37.62	12.708	
12,650.0	12,366.3	12,400.0	12,172.9	19.1	17.6	-65.74	-89.5	577.7	476.5	438.8	37.71	12.636	
12,675.6	12,367.0	12,418.6	12,176.5	19.1	17.6	-66.28	-107.7	577.8	474.7	436.9	37.76	12.573	
12,700.0	12,367.0	12,435.8	12,179.2	19.2	17.6	-66.58	-124.6	578.0	473.1	435.3	37.81	12.513	
12,800.0	12,367.0	12,509.3	12,184.0	19.2	17.7	-67.11	-197.9	578.4	470.5	432.2	38.29	12.288	
12,900.0	12,367.0	12,609.3	12,184.0	19.3	17.8	-67.11	-297.9	579.1	470.5	431.8	38.73	12.149	
13,000.0	12,367.0	12,709.3	12,184.0	19.3	18.0	-67.11	-397.9	579.7	470.5	431.3	39.24	11.990	
13,100.0	12,367.0	12,809.3	12,184.0	19.5	18.2	-67.11	-497.9	580.4	470.5	430.7	39.82	11.815	
13,200.0	12,367.0	12,909.3	12,184.0	19.6	18.5	-67.11	-597.9	581.0	470.5	430.0	40.47	11.625	
13,300.0	12,367.0	13,009.3	12,184.0	19.8	18.7	-67.11	-697.9	581.7	470.5	429.3	41.18	11.424	
13,400.0	12,367.0	13,109.3	12,184.0	20.1	19.0	-67.11	-797.9	582.3	470.5	428.5	41.95	11.214	
13,500.0	12,367.0	13,209.3	12,184.0	20.4	19.3	-67.11	-897.9	582.9	470.5	427.7	42.78	10.997	
13,600.0	12,367.0	13,309.3	12,184.0	20.9	19.7	-67.11	-997.9	583.6	470.5	426.8	43.66	10.775	
13,700.0	12,367.0	13,409.3	12,184.0	21.3	20.1	-67.11	-1,097.9	584.2	470.5	425.9	44.60	10.550	
13,800.0	12,367.0	13,509.3	12,184.0	21.9	20.5	-67.11	-1,197.9	584.9	470.5	424.9	45.58	10.323	
13,900.0	12,367.0	13,609.3	12,184.0	22.4	20.9	-67.11	-1,297.9	585.5	470.5	423.9	46.60	10.096	
14,000.0	12,367.0	13,709.3	12,184.0	23.1	21.3	-67.11	-1,397.9	586.2	470.5	422.8	47.66	9.871	
14,100.0	12,367.0	13,809.3	12,184.0	23.7	21.8	-67.11	-1,497.9	586.8	470.5	421.7	48.77	9.647	
14,200.0	12,367.0	13,909.3	12,184.0	24.4	22.3	-67.11	-1,597.9	587.5	470.5	420.6	49.91	9.427	
14,300.0	12,367.0	14,009.3	12,184.0	25.1	22.9	-67.11	-1,697.9	588.1	470.5	419.4	51.08	9.210	
14,400.0	12,367.0	14,109.3	12,184.0	25.8	23.4	-67.11	-1,797.9	588.8	470.5	418.2	52.28	8.998	
14,500.0	12,367.0	14,209.3	12,184.0	26.5	24.0	-67.11	-1,897.9	589.4	470.5	416.9	53.52	8.791	
14,600.0	12,367.0	14,309.3	12,184.0	27.3	24.6	-67.11	-1,997.9	590.1	470.5	415.7	54.78	8.589	
14,700.0	12,367.0	14,409.3	12,184.0	28.0	25.2	-67.11	-2,097.9	590.7	470.5	414.4	56.06	8.392	
14,800.0	12,367.0	14,509.3	12,184.0	28.8	25.8	-67.11	-2,197.9	591.3	470.5	413.1	57.37	8.200	
14,900.0	12,367.0	14,609.3	12,184.0	29.6	26.4	-67.11	-2,297.9	592.0	470.5	411.7	58.70	8.014	
15,000.0	12,367.0	14,709.3	12,184.0	30.4	27.1	-67.11	-2,397.9	592.6	470.4	410.4	60.05	7.834	
15,100.0	12,367.0	14,809.3	12,184.0	31.2	27.7	-67.11	-2,497.9	593.3	470.4	409.0	61.43	7.659	
15,200.0	12,367.0	14,909.3	12,184.0	32.0	28.4	-67.11	-2,597.9	593.9	470.4	407.6	62.81	7.489	
15,300.0	12,367.0	15,009.3	12,184.0	32.8	29.1	-67.11	-2,697.9	594.6	470.4	406.2	64.22	7.325	
15,400.0	12,367.0	15,109.3	12,184.0	33.7	29.7	-67.11	-2,797.9	595.2	470.4	404.8	65.64	7.167	
15,500.0	12,367.0	15,209.3	12,184.0	34.5	30.4	-67.11	-2,897.9	595.9	470.4	403.4	67.08	7.013	
15,600.0	12,367.0	15,309.3	12,184.0	35.4	31.1	-67.11	-2,997.9	596.5	470.4	401.9	68.53	6.865	
15,700.0	12,367.0	15,409.3	12,184.0	36.2	31.8	-67.11	-3,097.9	597.2	470.4	400.4	69.99	6.722	
15,800.0	12,367.0	15,509.3	12,184.0	37.1	32.6	-67.11	-3,197.9	597.8	470.4	399.0	71.46	6.583	
15,900.0	12,367.0	15,609.3	12,184.0	37.9	33.3	-67.11	-3,297.9	598.4	470.4	397.5	72.95	6.449	
16,000.0	12,367.0	15,709.3	12,184.0	38.8	34.0	-67.10	-3,397.9	599.1	470.4	396.0	74.44	6.319	
16,100.0	12,367.0	15,809.3	12,184.0	39.7	34.8	-67.10	-3,497.9	599.7	470.4	394.5	75.95	6.194	
16,200.0	12,367.0	15,909.3	12,184.0	40.5	35.5	-67.10	-3,597.9	600.4	470.4	393.0	77.47	6.073	
16,300.0	12,367.0	16,009.3	12,184.0	41.4	36.2	-67.10	-3,697.8	601.0	470.4	391.4	78.99	5.955	
16,400.0	12,367.0	16,109.3	12,184.0	42.3	37.0	-67.10	-3,797.8	601.7	470.4	389.9	80.52	5.842	
16,500.0	12,367.0	16,209.3	12,184.0	43.2	37.8	-67.10	-3,897.8	602.3	470.4	388.3	82.07	5.732	
16,600.0	12,367.0	16,309.3	12,184.0	44.1	38.5	-67.10	-3,997.8	603.0	470.4	386.8	83.61	5.626	
16,700.0	12,367.0	16,409.3	12,184.0	45.0	39.3	-67.10	-4,097.8	603.6	470.4	385.2	85.17	5.523	
16,800.0	12,367.0	16,509.3	12,184.0	45.9	40.1	-67.10	-4,197.8	604.3	470.4	383.7	86.73	5.424	
16,900.0	12,367.0	16,609.3	12,184.0	46.8	40.8	-67.10	-4,297.8	604.9	470.4	382.1	88.30	5.327	
17,000.0	12,367.0	16,709.3	12,184.0	47.7	41.6	-67.10	-4,397.8	605.5	470.4	380.5	89.87	5.234	
17,100.0	12,367.0	16,809.3	12,184.0	48.6	42.4	-67.10	-4,497.8	606.2	470.4	378.9	91.45	5.144	
17,200.0	12,367.0	16,909.3	12,184.0	49.5	43.2	-67.10	-4,597.8	606.8	470.4	377.4	93.04	5.056	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,300.0	12,367.0	17,009.3	12,184.0	50.4	44.0	-67.10	-4,697.8	607.5	470.4	375.8	94.63	4.971	
17,400.0	12,367.0	17,109.3	12,184.0	51.3	44.7	-67.10	-4,797.8	608.1	470.4	374.2	96.23	4.888	
17,500.0	12,367.0	17,209.3	12,184.0	52.2	45.5	-67.10	-4,897.8	608.8	470.4	372.6	97.83	4.808	
17,600.0	12,367.0	17,309.7	12,184.0	53.1	46.3	-67.10	-4,998.2	609.4	470.4	371.0	99.42	4.731	
17,700.0	12,367.0	17,416.6	12,184.0	54.1	47.2	-67.03	-5,105.1	608.7	469.1	368.2	100.88	4.650	
17,800.0	12,367.0	17,516.6	12,184.0	55.0	48.0	-66.95	-5,205.1	607.6	467.6	365.1	102.49	4.562	
17,900.0	12,367.0	17,616.6	12,184.0	55.9	48.8	-66.87	-5,305.1	606.6	466.0	361.9	104.10	4.476	
18,000.0	12,367.0	17,716.6	12,184.0	56.8	49.6	-66.79	-5,405.1	605.5	464.4	358.7	105.71	4.393	
18,100.0	12,367.0	17,816.5	12,184.0	57.7	50.4	-66.71	-5,505.1	604.5	462.9	355.6	107.32	4.313	
18,200.0	12,367.0	17,916.5	12,184.0	58.7	51.2	-66.62	-5,605.0	603.4	461.3	352.4	108.94	4.235	
18,300.0	12,367.0	18,016.5	12,184.0	59.6	52.0	-66.54	-5,705.0	602.4	459.8	349.2	110.55	4.159	
18,400.0	12,367.0	18,116.5	12,184.0	60.5	52.8	-66.45	-5,805.0	601.3	458.2	346.0	112.17	4.085	
18,500.0	12,367.0	18,216.5	12,184.0	61.4	53.6	-66.37	-5,905.0	600.3	456.7	342.9	113.79	4.013	
18,600.0	12,367.0	18,316.5	12,184.0	62.4	54.4	-66.28	-6,005.0	599.2	455.1	339.7	115.41	3.943	
18,700.0	12,367.0	18,416.5	12,184.0	63.3	55.2	-66.20	-6,104.9	598.2	453.6	336.5	117.04	3.875	
18,800.0	12,367.0	18,516.4	12,184.0	64.2	56.0	-66.11	-6,204.9	597.2	452.0	333.3	118.66	3.809	
18,900.0	12,367.0	18,616.4	12,184.0	65.2	56.8	-66.02	-6,304.9	596.1	450.5	330.2	120.29	3.745	
19,000.0	12,367.0	18,716.4	12,184.0	66.1	57.6	-65.93	-6,404.9	595.1	448.9	327.0	121.91	3.682	
19,100.0	12,367.0	18,816.4	12,184.0	67.0	58.5	-65.85	-6,504.9	594.0	447.4	323.8	123.54	3.621	
19,200.0	12,367.0	18,916.4	12,184.0	68.0	59.3	-65.76	-6,604.8	593.0	445.8	320.6	125.16	3.562	
19,300.0	12,367.0	19,016.4	12,184.0	68.9	60.1	-65.67	-6,704.8	591.9	444.3	317.5	126.79	3.504	
19,400.0	12,367.0	19,116.4	12,184.0	69.8	60.9	-65.58	-6,804.8	590.9	442.7	314.3	128.42	3.447	
19,500.0	12,367.0	19,216.3	12,184.0	70.8	61.7	-65.49	-6,904.8	589.8	441.2	311.1	130.05	3.392	
19,600.0	12,367.0	19,316.3	12,184.0	71.7	62.6	-65.39	-7,004.8	588.8	439.6	308.0	131.68	3.339	
19,628.7	12,367.0	19,339.0	12,184.0	72.0	62.7	-65.37	-7,027.4	588.5	439.2	306.9	132.29	3.320	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - MELLISSA-FEDERAL #1 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 500-INCH ONLY												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	4.0	4.0	0.0	3.0	107.80	-221.3	689.0	723.7	719.0	4.67	155.041	
100.0	100.0	104.0	104.0	1.2	4.3	107.80	-221.3	689.0	723.7	716.9	6.75	107.226	
200.0	200.0	204.0	204.0	1.7	6.8	107.80	-221.3	689.0	723.7	713.4	10.28	70.369	
300.0	300.0	304.0	304.0	2.1	9.6	107.80	-221.3	689.0	723.7	709.5	14.19	50.995	
400.0	400.0	404.0	404.0	2.4	12.5	107.80	-221.3	689.0	723.7	705.4	18.23	39.706	
500.0	500.0	504.2	504.0	2.7	15.4	107.80	-221.3	689.0	723.7	701.3	22.33	32.412	
600.0	600.0	604.2	604.0	3.0	18.4	107.80	-221.3	689.0	723.7	697.2	26.45	27.360	
700.0	700.0	704.2	704.0	3.2	21.3	107.80	-221.3	689.0	723.7	693.1	30.59	23.657	
745.7	745.7	749.9	749.6	3.4	22.7	107.56	-218.0	689.0	722.7	690.2	32.48	22.248	
800.0	800.0	803.1	802.7	3.5	24.3	107.57	-218.1	689.0	722.7	688.0	34.69	20.832	
900.0	900.0	901.0	900.6	3.7	27.2	107.65	-219.2	689.0	723.0	684.3	38.77	18.651	
1,000.0	1,000.0	1,004.6	1,004.0	3.9	30.3	107.80	-221.3	689.0	723.7	680.6	43.08	16.799	
1,100.0	1,100.0	1,104.6	1,104.0	4.1	33.3	107.80	-221.3	689.0	723.7	676.4	47.25	15.317	
1,200.0	1,200.0	1,204.6	1,204.0	4.3	36.3	107.80	-221.3	689.0	723.7	672.2	51.42	14.074	
1,245.6	1,245.6	1,250.2	1,249.6	4.4	37.6	107.72	-220.2	689.0	723.3	670.0	53.32	13.565	
1,300.0	1,300.0	1,304.1	1,303.6	4.5	39.2	107.72	-220.2	689.0	723.3	667.8	55.57	13.016	
1,400.0	1,400.0	1,403.4	1,402.8	4.7	42.2	107.75	-220.6	689.0	723.5	663.7	59.72	12.114	
1,500.0	1,500.0	1,504.9	1,504.0	4.8	45.2	107.80	-221.3	689.0	723.7	659.7	63.96	11.315	
1,600.0	1,600.0	1,604.9	1,604.0	5.0	48.2	107.80	-221.3	689.0	723.7	655.5	68.13	10.621	
1,700.0	1,700.0	1,704.9	1,704.0	5.2	51.2	107.80	-221.3	689.0	723.7	651.3	72.31	10.007	
1,745.0	1,745.0	1,749.8	1,748.9	5.2	52.6	107.56	-218.0	689.0	722.7	648.5	74.19	9.740 CC	
1,800.0	1,800.0	1,803.7	1,802.7	5.3	54.2	107.57	-218.1	689.0	722.7	646.3	76.45	9.454	
1,900.0	1,900.0	1,901.7	1,900.6	5.5	57.1	107.65	-219.2	689.0	723.0	642.5	80.54	8.977	
2,000.0	2,000.0	2,005.2	2,004.0	5.6	60.2	107.80	-221.3	689.0	723.7	638.8	84.87	8.527	
2,100.0	2,100.0	2,105.2	2,104.0	5.8	63.2	107.80	-221.3	689.0	723.7	634.6	89.05	8.126	
2,200.0	2,200.0	2,205.2	2,204.0	5.9	66.2	107.80	-221.3	689.0	723.7	630.4	93.23	7.762	
2,244.6	2,244.6	2,249.8	2,248.6	6.0	67.6	107.72	-220.2	689.0	723.3	628.2	95.10	7.606	
2,300.0	2,300.0	2,304.8	2,303.6	6.1	69.2	107.72	-220.2	689.0	723.3	625.9	97.40	7.427	
2,400.0	2,400.0	2,404.1	2,402.8	6.2	72.2	107.75	-220.6	689.0	723.5	621.9	101.55	7.124	
2,500.0	2,500.0	2,505.5	2,504.0	6.4	75.2	107.80	-221.3	689.0	723.7	617.9	105.80	6.840	
2,600.0	2,600.0	2,605.5	2,604.0	6.5	78.2	107.80	-221.3	689.0	723.7	613.7	109.98	6.580	
2,700.0	2,700.0	2,705.5	2,704.0	6.6	81.2	107.80	-221.3	689.0	723.7	609.5	114.16	6.339	
2,744.6	2,744.6	2,750.1	2,748.5	6.7	82.6	107.56	-218.0	689.0	722.7	606.6	116.03	6.228	
2,800.0	2,800.0	2,804.4	2,802.7	6.8	84.2	107.57	-218.1	689.0	722.7	604.4	118.30	6.109	
2,900.0	2,900.0	2,902.3	2,900.6	6.9	87.1	107.65	-219.2	689.0	723.0	600.6	122.39	5.907	
3,000.0	3,000.0	3,005.9	3,004.0	7.1	90.2	107.80	-221.3	689.0	723.7	596.9	126.73	5.710	
3,100.0	3,100.0	3,105.9	3,104.0	7.2	93.2	107.80	-221.3	689.0	723.7	592.7	130.91	5.528	
3,200.0	3,200.0	3,205.9	3,204.0	7.3	96.2	107.80	-221.3	689.0	723.7	588.6	135.10	5.357	
3,244.0	3,244.0	3,249.9	3,248.0	7.4	97.5	107.72	-220.2	689.0	723.3	586.4	136.94	5.282	
3,300.0	3,300.0	3,305.5	3,303.6	7.4	99.2	107.72	-220.2	689.0	723.3	584.1	139.26	5.194	
3,400.0	3,400.0	3,404.7	3,402.8	7.6	102.2	107.75	-220.6	689.0	723.5	580.0	143.42	5.044	
3,500.0	3,500.0	3,506.2	3,504.0	7.7	105.2	107.80	-221.3	689.0	723.7	576.0	147.67	4.901	
3,600.0	3,600.0	3,606.2	3,604.0	7.8	108.2	107.80	-221.3	689.0	723.7	571.8	151.85	4.766	
3,700.0	3,700.0	3,706.2	3,704.0	7.9	111.2	107.80	-221.3	689.0	723.7	567.6	156.04	4.638	
3,743.7	3,743.7	3,749.9	3,747.6	8.0	112.5	107.56	-218.0	689.0	722.7	564.8	157.86	4.578	
3,800.0	3,800.0	3,805.0	3,802.7	8.1	114.2	107.57	-218.1	689.0	722.7	562.5	160.17	4.512	
3,900.0	3,900.0	3,903.0	3,900.6	8.2	117.1	107.65	-219.2	689.0	723.0	558.8	164.27	4.402	
4,000.0	4,000.0	4,006.5	4,004.0	8.3	120.2	107.80	-221.3	689.0	723.7	555.1	168.60	4.292	
4,100.0	4,100.0	4,106.5	4,104.0	8.5	123.2	88.56	-221.3	689.0	723.6	550.8	172.79	4.188	
4,200.0	4,199.8	4,206.4	4,203.8	8.7	126.2	88.98	-221.3	689.0	723.5	546.5	176.97	4.088	
4,300.0	4,299.5	4,305.5	4,303.0	8.9	129.2	89.59	-220.2	689.0	723.1	541.9	181.12	3.992	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - MELLISSA-FEDERAL #1 (P&A) - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 500-INC ONLY													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
4,304.9	4,304.3	4,310.3	4,307.8	8.9	129.3	89.63	-220.2	689.0	723.1	541.7	181.32	3.988		
4,400.0	4,398.7	4,403.9	4,401.4	9.1	132.2	90.56	-220.6	689.0	723.2	538.0	185.24	3.904		
4,500.0	4,497.5	4,504.3	4,501.5	9.3	135.2	91.84	-221.3	689.0	723.8	534.3	189.44	3.821		
4,555.9	4,552.4	4,559.3	4,556.4	9.4	136.8	92.63	-221.3	689.0	724.2	532.4	191.74	3.777		
4,600.0	4,595.7	4,602.6	4,599.7	9.5	138.1	93.29	-221.3	689.0	724.6	531.1	193.54	3.744		
4,700.0	4,693.8	4,700.7	4,697.8	9.7	141.1	94.78	-221.3	689.0	726.0	528.4	197.65	3.673 ES		
4,800.0	4,791.9	4,744.0	4,741.0	9.9	142.4	95.43	-221.3	689.0	730.0	531.1	198.91	3.670 SF		
4,900.0	4,890.1	4,744.0	4,741.0	10.2	142.4	95.43	-221.3	689.0	746.2	550.9	195.27	3.821		
5,000.0	4,988.2	4,744.0	4,741.0	10.4	142.4	95.43	-221.3	689.0	775.0	586.2	188.82	4.105		
5,100.0	5,086.3	4,744.0	4,741.0	10.7	142.4	95.43	-221.3	689.0	815.2	634.8	180.43	4.518		
5,200.0	5,184.4	4,744.0	4,741.0	11.0	142.4	95.43	-221.3	689.0	865.2	694.1	171.02	5.059		
5,300.0	5,282.6	4,744.0	4,741.0	11.3	142.4	95.43	-221.3	689.0	923.3	761.9	161.33	5.723		
5,400.0	5,380.7	4,744.0	4,741.0	11.6	142.4	95.43	-221.3	689.0	988.1	836.2	151.87	6.506		

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 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W1 3H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 133-r.5 MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,900.0	4,890.1	5,009.8	4,999.3	10.2	12.9	66.66	202.8	1,028.3	995.5	972.8	22.70	43.853		
5,000.0	4,988.2	5,092.2	5,081.5	10.4	13.1	67.34	205.5	1,022.2	980.8	957.6	23.13	42.405		
5,100.0	5,086.3	5,191.8	5,180.8	10.7	13.5	68.23	207.8	1,015.5	966.7	943.1	23.62	40.933		
5,200.0	5,184.4	5,276.1	5,264.9	11.0	13.7	69.06	209.0	1,010.5	953.6	929.6	24.06	39.642		
5,300.0	5,282.6	5,371.3	5,360.0	11.3	14.1	70.03	210.0	1,005.6	941.6	917.1	24.53	38.394		
5,400.0	5,380.7	5,461.0	5,449.6	11.6	14.3	70.99	210.9	1,001.2	930.1	905.1	24.97	37.242		
5,500.0	5,478.8	5,540.3	5,528.8	12.0	14.6	71.85	211.5	998.4	920.4	895.0	25.37	36.276		
5,600.0	5,576.9	5,628.0	5,616.6	12.3	14.8	72.83	212.0	997.2	913.1	887.3	25.73	35.485		
5,700.0	5,675.0	5,725.5	5,714.0	12.6	15.0	73.95	212.3	996.4	906.6	880.5	26.10	34.741		
5,800.0	5,773.2	5,823.0	5,811.5	13.0	15.2	75.08	212.6	995.6	900.5	874.0	26.46	34.037		
5,900.0	5,871.3	5,920.0	5,908.5	13.3	15.5	76.23	213.0	994.9	894.8	868.0	26.80	33.386		
5,924.3	5,895.1	5,943.6	5,932.1	13.4	15.5	76.50	213.1	994.7	893.5	866.7	26.88	33.248		
6,000.0	5,969.5	6,017.3	6,005.9	13.7	15.7	77.32	213.3	994.3	889.8	862.7	27.12	32.813		
6,100.0	6,068.0	6,115.7	6,104.2	14.0	15.9	78.32	213.7	993.7	885.5	858.1	27.44	32.270		
6,200.0	6,166.8	6,211.4	6,200.0	14.4	16.0	79.20	214.1	993.4	882.1	854.4	27.71	31.827		
6,300.0	6,265.9	6,309.6	6,298.1	14.8	16.1	80.02	214.4	993.2	879.4	851.4	27.96	31.449		
6,400.0	6,365.2	6,407.9	6,396.4	15.1	16.3	80.75	214.5	993.2	877.3	849.1	28.18	31.132		
6,500.0	6,464.7	6,504.6	6,493.1	15.5	16.2	81.37	214.4	993.3	875.8	847.6	28.26	30.996		
6,600.0	6,564.3	6,602.4	6,590.9	15.8	16.1	81.89	214.5	993.7	875.0	846.8	28.23	30.999		
6,700.0	6,664.1	6,700.5	6,689.0	16.1	16.0	82.30	214.6	994.3	874.7	846.5	28.18	31.035		
6,718.0	6,682.1	6,718.1	6,706.6	16.2	16.0	82.36	214.6	994.5	874.7	846.5	28.17	31.047		
6,800.0	6,763.9	6,797.9	6,786.4	16.4	15.9	82.61	214.5	995.1	874.8	846.7	28.12	31.110		
6,900.0	6,863.9	6,893.4	6,881.9	16.7	15.8	82.82	214.3	996.3	875.7	847.6	28.04	31.232		
7,000.0	6,963.9	6,992.8	6,981.3	16.9	15.6	82.94	213.8	997.8	877.0	849.1	27.94	31.384		
7,036.1	7,000.0	7,028.9	7,017.4	17.0	15.5	102.33	213.7	998.3	877.6	849.7	27.90	31.457		
7,100.0	7,063.9	7,093.4	7,081.9	17.0	15.4	102.32	213.6	999.3	878.5	850.7	27.82	31.574		
7,200.0	7,163.9	7,194.9	7,183.3	17.1	15.3	102.31	213.5	1,000.7	879.9	852.2	27.74	31.717		
7,300.0	7,263.9	7,296.4	7,284.8	17.1	15.1	102.31	213.2	1,002.0	881.2	853.5	27.67	31.847		
7,400.0	7,363.9	7,401.0	7,389.5	17.2	15.0	102.32	212.8	1,002.8	882.1	854.4	27.63	31.920		
7,500.0	7,463.9	7,501.9	7,490.3	17.3	15.0	102.37	212.1	1,003.1	882.5	854.9	27.65	31.913		
7,600.0	7,563.9	7,600.3	7,588.7	17.4	14.9	102.43	211.0	1,003.5	883.2	855.5	27.68	31.901		
7,700.0	7,663.9	7,700.9	7,689.4	17.4	14.9	102.50	209.8	1,004.0	883.9	856.1	27.72	31.889		
7,800.0	7,763.9	7,800.9	7,789.4	17.5	14.9	102.58	208.4	1,004.3	884.5	856.7	27.76	31.859		
7,900.0	7,863.9	7,900.4	7,888.8	17.6	14.9	102.67	207.0	1,004.6	885.1	857.3	27.81	31.829		
8,000.0	7,963.9	8,001.7	7,990.1	17.6	14.8	102.75	205.6	1,005.0	885.7	857.9	27.86	31.795		
8,100.0	8,063.9	8,105.4	8,093.8	17.7	14.9	102.83	204.3	1,005.0	886.1	858.1	27.95	31.704		
8,200.0	8,163.9	8,205.4	8,193.8	17.8	14.9	102.91	203.1	1,004.8	886.2	858.1	28.06	31.580		
8,300.0	8,263.9	8,303.1	8,291.5	17.8	15.0	102.99	201.8	1,004.8	886.4	858.3	28.17	31.473		
8,400.0	8,363.9	8,402.7	8,391.1	17.9	15.0	103.09	200.3	1,004.9	886.9	858.6	28.25	31.397		
8,500.0	8,463.9	8,506.3	8,494.7	18.0	15.1	103.20	198.5	1,004.7	887.1	858.7	28.36	31.280		
8,600.0	8,563.9	8,608.7	8,597.0	18.1	15.2	103.32	196.7	1,004.2	887.0	858.5	28.51	31.114		
8,700.0	8,663.9	8,710.3	8,698.6	18.1	15.4	103.47	194.6	1,003.3	886.6	858.0	28.67	30.924		
8,800.0	8,763.9	8,813.3	8,801.5	18.2	15.5	103.63	192.4	1,002.2	886.1	857.2	28.86	30.703		
8,900.0	8,863.9	8,915.3	8,903.5	18.3	15.7	103.75	190.7	1,000.8	885.2	856.1	29.08	30.440		
9,000.0	8,963.9	9,013.8	9,002.1	18.3	15.9	103.86	189.3	999.5	884.2	854.9	29.30	30.179		
9,100.0	9,063.9	9,112.0	9,100.2	18.4	16.1	103.98	187.6	998.4	883.5	854.0	29.50	29.953		
9,200.0	9,163.9	9,208.9	9,197.1	18.5	16.2	104.13	185.5	997.4	883.1	853.4	29.66	29.770		
9,300.0	9,263.9	9,313.5	9,301.7	18.6	16.4	104.33	182.6	996.3	882.7	852.9	29.84	29.583		
9,400.0	9,363.9	9,411.9	9,400.0	18.6	16.6	104.47	180.8	995.0	881.9	851.9	30.03	29.371		
9,500.0	9,463.9	9,515.9	9,504.0	18.7	16.8	104.59	179.2	993.8	881.2	850.9	30.25	29.133		
9,600.0	9,563.9	9,616.1	9,604.2	18.8	17.0	104.71	177.6	992.3	880.1	849.7	30.48	28.878		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W1 3H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 133-r.5 MWD		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,700.0	9,663.9	9,716.3	9,704.4	18.9	17.2	104.87	175.5	990.7	879.1	848.4	30.69	28.642		
9,800.0	9,763.9	9,822.9	9,810.9	18.9	17.5	105.04	173.4	988.5	877.6	846.7	30.96	28.344		
9,900.0	9,863.9	9,922.0	9,910.0	19.0	17.7	105.16	172.1	986.3	875.8	844.6	31.24	28.039		
10,000.0	9,963.9	10,020.7	10,008.6	19.1	18.0	105.25	171.2	984.4	874.2	842.7	31.52	27.737		
10,100.0	10,063.9	10,123.2	10,111.1	19.1	18.2	105.33	170.4	982.3	872.4	840.6	31.82	27.417		
10,200.0	10,163.9	10,214.6	10,202.5	19.2	18.5	105.39	170.0	980.9	871.0	838.9	32.08	27.151		
10,300.0	10,263.9	10,310.1	10,298.0	19.3	18.6	105.42	169.6	980.1	870.4	838.1	32.31	26.936		
10,362.2	10,326.1	10,369.2	10,357.1	19.3	18.7	105.45	169.3	979.9	870.3	837.9	32.41	26.852		
10,400.0	10,363.9	10,405.3	10,393.2	19.4	18.8	105.46	169.0	979.9	870.3	837.9	32.46	26.811		
10,500.0	10,463.9	10,502.3	10,490.2	19.4	18.9	105.53	167.9	980.0	870.7	838.2	32.54	26.760		
10,600.0	10,563.9	10,599.3	10,587.2	19.5	18.9	105.63	166.3	980.3	871.5	838.9	32.58	26.747		
10,700.0	10,663.9	10,702.2	10,690.1	19.6	19.0	105.74	164.4	980.5	872.2	839.6	32.63	26.727		
10,800.0	10,763.9	10,806.9	10,794.7	19.6	19.2	105.90	162.0	980.2	872.5	839.8	32.74	26.653		
10,900.0	10,863.9	10,908.4	10,896.2	19.7	19.3	106.03	160.3	979.5	872.3	839.4	32.88	26.531		
11,000.0	10,963.9	11,009.2	10,997.0	19.8	19.5	106.17	158.2	978.8	872.2	839.2	33.02	26.416		
11,100.0	11,063.9	11,117.3	11,105.1	19.9	19.8	106.38	155.3	977.2	871.6	838.4	33.20	26.254		
11,200.0	11,163.9	11,218.6	11,206.3	19.9	20.0	106.56	153.1	975.1	870.2	836.8	33.42	26.036		
11,300.0	11,263.9	11,322.4	11,310.1	20.0	20.2	106.62	152.7	973.4	868.7	835.0	33.72	25.765		
11,400.0	11,363.9	11,418.2	11,405.8	20.1	20.5	106.65	152.7	971.8	867.2	833.2	34.00	25.504		
11,500.0	11,463.9	11,517.4	11,505.0	20.2	20.7	106.78	151.1	970.1	866.0	831.7	34.25	25.283		
11,600.0	11,563.9	11,609.7	11,597.1	20.2	20.9	107.18	145.5	967.8	865.3	831.0	34.35	25.188		
11,619.3	11,583.2	11,626.8	11,614.2	20.2	21.0	107.28	144.0	967.3	865.3	830.9	34.36	25.180		
11,700.0	11,663.9	11,682.0	11,668.8	20.3	21.1	107.80	136.4	965.5	866.3	831.9	34.38	25.197		
11,800.0	11,763.9	11,730.3	11,715.6	20.4	21.2	108.55	124.7	964.5	872.2	837.7	34.47	25.305		
11,900.0	11,863.9	11,777.0	11,759.9	20.5	21.3	109.46	109.9	965.3	884.5	849.9	34.67	25.514		
11,925.6	11,889.5	11,788.0	11,770.1	20.5	21.3	109.69	106.0	965.7	888.7	853.9	34.74	25.580		
11,950.0	11,913.9	11,800.5	11,781.7	20.4	21.3	-69.22	101.3	966.2	892.7	858.0	34.79	25.658		
11,975.0	11,938.8	11,808.0	11,788.6	20.4	21.3	-68.61	98.4	966.6	896.8	861.9	34.91	25.689		
12,000.0	11,963.6	11,827.8	11,806.7	20.3	21.3	-67.85	90.4	967.6	900.7	865.8	34.91	25.802		
12,025.0	11,988.2	11,840.0	11,817.7	20.3	21.3	-67.26	85.2	968.2	904.4	869.4	35.00	25.838		
12,050.0	12,012.5	11,858.7	11,834.4	20.2	21.4	-66.63	76.8	969.2	907.9	872.9	35.04	25.914		
12,075.0	12,036.4	11,879.9	11,853.0	20.1	21.4	-66.05	66.6	970.2	911.1	876.0	35.05	25.997		
12,100.0	12,060.0	11,909.4	11,878.2	20.1	21.5	-65.43	51.4	970.9	913.6	878.7	34.97	26.130		
12,125.0	12,083.1	11,929.7	11,895.2	20.0	21.5	-64.99	40.3	971.0	915.7	880.7	35.00	26.161		
12,150.0	12,105.7	11,952.6	11,914.0	19.9	21.6	-64.60	27.1	970.9	917.3	882.3	35.02	26.196		
12,175.0	12,127.7	11,974.3	11,931.4	19.8	21.6	-64.29	14.2	970.6	918.5	883.4	35.06	26.200		
12,200.0	12,149.0	11,997.0	11,949.2	19.8	21.7	-64.05	0.2	970.1	919.2	884.1	35.09	26.196		
12,225.0	12,169.6	12,012.9	11,961.4	19.7	21.7	-63.93	-10.0	969.6	919.4	884.2	35.21	26.112		
12,250.0	12,189.5	12,028.0	11,972.8	19.7	21.7	-63.87	-19.9	969.2	919.3	884.0	35.35	26.007		
12,275.0	12,208.5	12,046.2	11,986.3	19.6	21.8	-63.87	-32.1	968.6	918.8	883.4	35.46	25.915		
12,300.0	12,226.7	12,060.0	11,996.4	19.5	21.8	-63.94	-41.5	968.2	918.1	882.4	35.62	25.772		
12,325.0	12,243.9	12,075.2	12,007.3	19.5	21.9	-64.08	-52.1	967.8	917.0	881.2	35.77	25.632		
12,350.0	12,260.2	12,091.0	12,018.5	19.4	21.9	-64.29	-63.2	967.6	915.6	879.7	35.92	25.491		
12,375.0	12,275.4	12,101.7	12,026.1	19.4	21.9	-64.54	-70.9	967.5	914.1	877.9	36.14	25.294		
12,400.0	12,289.6	12,114.2	12,034.6	19.3	22.0	-64.84	-79.9	967.5	912.3	875.9	36.33	25.109		
12,425.0	12,302.7	12,129.6	12,045.1	19.3	22.0	-65.24	-91.3	967.6	910.2	873.7	36.49	24.947		
12,450.0	12,314.6	12,150.2	12,058.6	19.3	22.1	-65.76	-106.7	967.6	907.8	871.3	36.57	24.822		
12,475.0	12,325.4	12,167.0	12,069.4	19.2	22.1	-66.30	-119.6	967.6	905.1	868.3	36.71	24.654		
12,500.0	12,335.0	12,185.0	12,080.6	19.2	22.2	-66.92	-133.7	967.5	902.0	865.2	36.83	24.492		
12,525.0	12,343.4	12,212.6	12,097.3	19.2	22.3	-67.80	-155.7	967.2	898.6	861.7	36.83	24.398		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W1 3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 133-r.5 MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,550.0	12,350.5	12,235.4	12,110.8	19.2	22.3	-68.70	-174.0	966.7	894.6	857.7	36.90	24.247		
12,575.0	12,356.4	12,257.7	12,123.7	19.2	22.4	-69.68	-192.2	966.0	890.3	853.3	36.97	24.083		
12,600.0	12,361.0	12,279.0	12,135.5	19.1	22.5	-70.71	-209.9	965.2	885.6	848.5	37.05	23.899		
12,625.0	12,364.3	12,294.8	12,144.0	19.1	22.6	-71.67	-223.2	964.4	880.6	843.4	37.20	23.670		
12,650.0	12,366.3	12,311.0	12,152.2	19.1	22.6	-72.70	-237.2	963.7	875.6	838.3	37.35	23.446		
12,675.6	12,367.0	12,322.2	12,157.7	19.1	22.7	-73.63	-247.0	963.2	870.4	832.9	37.55	23.183		
12,700.0	12,367.0	12,334.8	12,163.5	19.2	22.7	-73.99	-258.1	962.7	865.7	828.0	37.72	22.951		
12,800.0	12,367.0	12,409.8	12,194.9	19.2	23.0	-75.99	-326.2	959.5	848.8	810.5	38.24	22.195		
12,900.0	12,367.0	12,499.9	12,229.4	19.3	23.4	-78.23	-409.2	955.5	834.3	795.3	38.97	21.407		
13,000.0	12,367.0	12,559.8	12,250.2	19.3	23.8	-79.62	-465.4	953.3	823.0	783.0	40.03	20.560		
13,100.0	12,367.0	12,614.2	12,263.4	19.5	24.1	-80.52	-518.1	953.0	817.4	776.2	41.20	19.841		
13,146.1	12,367.0	12,638.0	12,267.3	19.5	24.2	-80.80	-541.6	953.4	816.8	775.0	41.76	19.559		
13,200.0	12,367.0	12,666.6	12,270.4	19.6	24.4	-81.02	-570.0	954.5	817.6	775.1	42.43	19.269		
13,300.0	12,367.0	12,753.7	12,271.3	19.8	25.1	-81.13	-656.9	960.1	822.9	779.1	43.74	18.811		
13,400.0	12,367.0	12,910.4	12,269.9	20.1	26.4	-81.06	-813.5	962.6	823.8	778.5	45.33	18.172		
13,500.0	12,367.0	13,019.9	12,274.1	20.4	27.5	-81.32	-922.8	960.8	821.0	774.1	46.94	17.490		
13,600.0	12,367.0	13,123.9	12,276.7	20.9	28.5	-81.46	-1,026.8	958.0	817.3	768.7	48.64	16.804		
13,700.0	12,367.0	13,220.6	12,278.0	21.3	29.6	-81.51	-1,123.4	955.2	813.6	763.2	50.38	16.148		
13,800.0	12,367.0	13,315.6	12,275.4	21.9	30.7	-81.30	-1,218.3	952.5	810.5	758.3	52.18	15.534		
13,900.0	12,367.0	13,409.4	12,271.7	22.4	31.9	-81.01	-1,312.1	950.1	808.0	754.0	54.01	14.959		
14,000.0	12,367.0	13,504.0	12,268.7	23.1	33.1	-80.77	-1,406.6	948.7	806.4	750.5	55.90	14.425		
14,100.0	12,367.0	13,602.1	12,266.5	23.7	34.3	-80.60	-1,504.7	947.7	805.1	747.3	57.87	13.911		
14,200.0	12,367.0	13,698.3	12,263.9	24.4	35.6	-80.40	-1,600.8	947.0	804.2	744.3	59.87	13.433		
14,251.0	12,367.0	13,744.0	12,262.4	24.7	36.2	-80.29	-1,646.5	946.8	804.0	743.1	60.86	13.210		
14,300.0	12,367.0	13,777.7	12,261.5	25.1	36.7	-80.23	-1,680.2	947.1	804.4	742.6	61.73	13.030		
14,400.0	12,367.0	13,839.0	12,260.9	25.8	37.6	-80.21	-1,741.4	949.9	808.5	745.1	63.36	12.760		
14,500.0	12,367.0	13,923.3	12,259.7	26.5	38.8	-80.20	-1,825.5	956.5	815.8	750.5	65.25	12.502		
14,600.0	12,367.0	14,054.5	12,257.5	27.3	40.7	-80.15	-1,956.3	965.6	822.2	754.3	67.93	12.104		
14,700.0	12,367.0	14,145.1	12,257.9	28.0	42.0	-80.24	-2,046.7	971.0	827.4	757.4	70.00	11.820		
14,800.0	12,367.0	14,265.2	12,257.5	28.8	43.8	-80.30	-2,166.5	979.2	833.9	761.3	72.61	11.484		
14,900.0	12,367.0	14,476.1	12,256.7	29.6	47.1	-80.07	-2,376.6	965.7	822.9	746.5	76.45	10.765		
15,000.0	12,367.0	14,554.2	12,256.1	30.4	48.2	-79.94	-2,454.5	959.7	814.7	736.1	78.54	10.372		
15,100.0	12,367.0	14,637.2	12,256.3	31.2	49.5	-79.89	-2,537.4	954.9	808.3	727.7	80.67	10.020		
15,200.0	12,367.0	14,781.5	12,254.7	32.0	51.7	-79.67	-2,681.4	946.8	803.3	719.8	83.45	9.625		
15,300.0	12,367.0	14,930.8	12,250.9	32.8	53.9	-79.08	-2,828.8	924.0	787.4	701.4	85.94	9.162		
15,400.0	12,367.0	15,007.0	12,250.1	33.7	55.1	-78.84	-2,904.1	911.9	771.5	683.3	88.17	8.751		
15,500.0	12,367.0	15,072.0	12,249.6	34.5	56.1	-78.69	-2,968.6	904.6	759.8	669.5	90.30	8.414		
15,600.0	12,367.0	15,144.3	12,249.1	35.4	57.2	-78.56	-3,040.8	899.3	752.2	659.8	92.39	8.141		
15,700.0	12,367.0	15,212.3	12,248.7	36.2	58.2	-78.49	-3,108.7	896.9	748.2	653.8	94.34	7.931		
15,736.6	12,367.0	15,236.2	12,248.5	36.5	58.6	-78.47	-3,132.5	896.8	747.9	652.9	95.01	7.872		
15,800.0	12,367.0	15,285.3	12,248.2	37.1	59.4	-78.46	-3,181.7	897.8	748.7	652.4	96.27	7.777		
15,900.0	12,367.0	15,382.4	12,247.2	37.9	60.9	-78.41	-3,278.7	900.2	750.7	652.1	98.61	7.613		
16,000.0	12,367.0	15,475.8	12,246.2	38.8	62.3	-78.37	-3,372.0	903.2	753.4	652.6	100.88	7.469		
16,100.0	12,367.0	15,576.5	12,245.6	39.7	63.9	-78.38	-3,472.7	907.2	756.9	653.5	103.33	7.325		
16,200.0	12,367.0	15,685.8	12,247.4	40.5	65.6	-78.55	-3,581.9	910.7	759.0	653.0	106.01	7.159		
16,300.0	12,367.0	15,778.8	12,248.3	41.4	67.0	-78.65	-3,674.9	913.5	761.1	652.8	108.34	7.025		
16,400.0	12,367.0	15,907.5	12,250.5	42.3	69.1	-78.87	-3,803.5	917.5	763.6	652.1	111.46	6.850		
16,452.5	12,367.0	15,952.3	12,251.1	42.8	69.8	-78.90	-3,848.3	917.3	762.9	650.3	112.64	6.773		
16,500.0	12,367.0	15,981.6	12,251.5	43.2	70.3	-78.94	-3,877.5	917.9	763.5	650.0	113.46	6.729		
16,600.0	12,367.0	16,055.9	12,252.6	44.1	71.4	-79.07	-3,951.7	922.3	768.1	652.7	115.37	6.658		
16,700.0	12,367.0	16,278.3	12,252.8	45.0	75.1	-79.02	-4,173.6	918.7	765.9	645.8	120.03	6.381		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W1 3H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 133-r.5 MWD												Offset Well Error:	0.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,800.0	12,367.0	16,354.3	12,252.3	45.9	76.3	-78.88	-4,249.3	911.9	756.7	634.5	122.28	6.189	
16,900.0	12,367.0	16,426.6	12,251.8	46.8	77.4	-78.78	-4,321.5	908.7	751.8	627.4	124.40	6.043	
17,000.0	12,367.0	16,514.4	12,251.0	47.7	78.8	-78.68	-4,409.3	906.9	749.3	622.6	126.66	5.915	
17,100.0	12,367.0	16,602.0	12,250.7	48.6	80.2	-78.64	-4,496.9	906.3	748.1	619.2	128.92	5.803	
17,104.4	12,367.0	16,605.3	12,250.7	48.6	80.3	-78.64	-4,500.2	906.3	748.1	619.1	129.00	5.799	
17,200.0	12,367.0	16,679.0	12,250.2	49.5	81.4	-78.63	-4,573.9	908.0	749.7	618.8	130.90	5.727	
17,300.0	12,367.0	16,747.6	12,250.3	50.4	82.5	-78.69	-4,642.3	912.1	754.8	622.3	132.56	5.694	
17,400.0	12,367.0	16,915.3	12,251.5	51.3	85.3	-78.83	-4,809.8	916.5	756.0	619.1	136.92	5.522	
17,462.6	12,367.0	16,964.0	12,251.0	51.9	86.1	-78.78	-4,858.5	916.3	755.5	617.3	138.21	5.466	
17,500.0	12,367.0	16,998.6	12,250.7	52.2	86.6	-78.76	-4,893.1	916.6	755.6	616.5	139.09	5.433	
17,600.0	12,367.0	17,132.9	12,250.9	53.1	88.8	-78.73	-5,027.2	914.6	753.4	611.2	142.25	5.297	
17,700.0	12,367.0	17,248.0	12,249.8	54.1	90.7	-78.54	-5,142.2	908.0	747.3	602.4	144.90	5.157	
17,800.0	12,367.0	17,328.5	12,249.3	55.0	91.9	-78.45	-5,222.6	905.3	743.3	596.1	147.14	5.051	
17,900.0	12,367.0	17,427.0	12,248.7	55.9	93.5	-78.35	-5,321.0	902.3	739.8	590.2	149.60	4.945	
18,000.0	12,367.0	17,527.5	12,247.5	56.8	95.1	-78.20	-5,421.5	899.2	736.4	584.3	152.08	4.842	
18,100.0	12,367.0	17,623.7	12,249.6	57.7	96.6	-78.32	-5,517.6	897.1	733.1	578.6	154.59	4.742	
18,200.0	12,367.0	17,738.7	12,255.7	58.7	98.5	-78.73	-5,632.4	894.3	729.1	571.6	157.50	4.629	
18,300.0	12,367.0	17,841.4	12,257.0	59.6	100.1	-78.75	-5,735.1	889.9	723.9	563.9	160.08	4.522	
18,400.0	12,367.0	17,936.8	12,255.1	60.5	101.6	-78.51	-5,830.3	884.6	718.3	555.9	162.46	4.421	
18,500.0	12,367.0	18,010.8	12,253.9	61.4	102.8	-78.38	-5,904.2	882.7	715.4	550.9	164.53	4.348	
18,600.0	12,367.0	18,103.7	12,254.3	62.4	104.3	-78.40	-5,997.1	882.8	714.8	547.9	166.93	4.282	
18,700.0	12,367.0	18,203.3	12,255.9	63.3	105.9	-78.53	-6,096.7	883.7	714.7	545.2	169.53	4.216	
18,800.0	12,367.0	18,308.8	12,258.3	64.2	107.6	-78.72	-6,202.2	884.3	714.2	541.9	172.29	4.145	
18,900.0	12,367.0	18,411.9	12,255.7	65.2	109.3	-78.49	-6,305.2	883.3	713.1	538.3	174.80	4.080	
19,000.0	12,367.0	18,519.3	12,251.0	66.1	111.0	-78.08	-6,412.5	881.3	711.5	534.2	177.31	4.013	
19,100.0	12,367.0	18,632.1	12,248.3	67.0	112.8	-77.79	-6,525.1	877.7	708.3	528.3	179.92	3.936	
19,200.0	12,367.0	18,735.1	12,248.6	68.0	114.5	-77.73	-6,628.1	873.6	703.7	521.3	182.48	3.856	
19,300.0	12,367.0	18,839.2	12,249.3	68.9	116.1	-77.70	-6,732.1	869.4	699.0	513.9	185.07	3.777	
19,398.7	12,367.0	18,902.0	12,250.0	69.8	117.1	-77.70	-6,794.8	866.6	694.8	507.8	186.96	3.716 CC	
19,400.0	12,367.0	18,902.0	12,250.0	69.8	117.1	-77.70	-6,794.8	866.6	694.8	507.8	186.96	3.716 ES, SF	
19,500.0	12,367.0	18,902.0	12,250.0	70.8	117.1	-77.70	-6,794.8	866.6	702.1	516.8	185.31	3.789	
19,600.0	12,367.0	18,902.0	12,250.0	71.7	117.1	-77.70	-6,794.8	866.6	723.4	542.9	180.45	4.009	
19,628.7	12,367.0	18,902.0	12,250.0	72.0	117.1	-77.70	-6,794.8	866.6	731.9	553.3	178.56	4.099	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W2 2H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 134-MWD - OWSG R1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
5,400.0	5,380.7	5,518.4	5,508.9	11.6	19.4	68.33	267.8	1,055.6	990.6	959.8	30.78	32.185		
5,500.0	5,478.8	5,610.0	5,599.9	12.0	19.8	69.02	272.2	1,046.6	973.8	942.5	31.29	31.122		
5,600.0	5,576.9	5,704.0	5,693.4	12.3	20.1	69.77	276.5	1,037.9	957.8	926.0	31.80	30.115		
5,700.0	5,675.0	5,798.0	5,787.0	12.6	20.5	70.57	280.4	1,029.7	942.4	910.1	32.32	29.163		
5,800.0	5,773.2	5,904.9	5,893.4	13.0	20.9	71.52	284.4	1,019.9	926.8	894.0	32.86	28.203		
5,900.0	5,871.3	6,005.5	5,993.4	13.3	21.3	72.44	288.4	1,010.1	910.8	877.4	33.39	27.278		
5,924.3	5,895.1	6,029.2	6,017.0	13.4	21.3	72.66	289.4	1,007.7	906.9	873.4	33.51	27.065		
6,000.0	5,969.5	6,102.3	6,089.6	13.7	21.6	73.22	292.3	1,000.4	895.0	861.1	33.89	26.408		
6,100.0	6,068.0	6,198.5	6,185.3	14.0	22.0	73.88	296.1	991.2	880.3	845.9	34.41	25.584		
6,200.0	6,166.8	6,303.1	6,289.4	14.4	22.4	74.53	300.3	980.5	865.6	830.6	34.94	24.771		
6,300.0	6,265.9	6,398.1	6,383.7	14.8	22.8	74.97	304.9	970.9	851.5	816.0	35.46	24.014		
6,400.0	6,365.2	6,492.6	6,477.7	15.1	23.1	75.33	309.3	961.7	838.4	802.4	35.97	23.306		
6,500.0	6,464.7	6,587.5	6,572.1	15.5	23.5	75.65	313.2	953.1	826.4	789.9	36.48	22.650		
6,600.0	6,564.3	6,684.7	6,668.8	15.8	23.9	75.88	317.0	944.4	815.0	778.0	37.00	22.027		
6,700.0	6,664.1	6,779.7	6,763.4	16.1	24.2	76.02	320.6	936.4	804.7	767.2	37.51	21.452		
6,800.0	6,763.9	6,877.7	6,861.0	16.4	24.6	76.02	324.7	928.5	795.1	757.0	38.03	20.905		
6,900.0	6,863.9	6,978.8	6,961.7	16.7	25.0	75.93	328.7	920.5	786.0	747.4	38.56	20.383		
7,000.0	6,963.9	7,085.3	7,067.7	16.9	25.4	75.70	333.0	911.4	776.7	737.6	39.10	19.863		
7,036.1	7,000.0	7,123.9	7,106.1	17.0	25.5	94.94	334.8	907.8	773.2	734.0	39.29	19.680		
7,100.0	7,063.9	7,187.4	7,169.2	17.0	25.8	94.76	337.7	901.9	767.0	727.4	39.61	19.363		
7,200.0	7,163.9	7,280.7	7,262.1	17.1	26.1	94.51	341.7	893.4	757.7	717.5	40.12	18.884		
7,300.0	7,263.9	7,374.2	7,355.3	17.1	26.5	94.31	345.0	885.8	749.2	708.6	40.62	18.444		
7,400.0	7,363.9	7,480.7	7,461.4	17.2	26.9	94.06	348.9	877.2	741.0	699.8	41.16	18.001		
7,500.0	7,463.9	7,580.1	7,560.3	17.3	27.3	93.76	353.3	868.5	731.9	690.2	41.69	17.557		
7,600.0	7,563.9	7,672.6	7,652.4	17.4	27.6	93.52	356.9	860.8	723.4	681.2	42.19	17.147		
7,700.0	7,663.9	7,764.2	7,743.7	17.4	28.0	93.30	360.0	854.2	716.0	673.3	42.68	16.775		
7,800.0	7,763.9	7,859.4	7,838.6	17.5	28.3	93.11	362.6	848.2	709.6	666.4	43.18	16.431		
7,900.0	7,863.9	7,955.1	7,934.2	17.6	28.7	92.96	364.8	842.7	703.7	660.0	43.68	16.109		
8,000.0	7,963.9	8,047.9	8,026.8	17.6	29.0	92.84	366.6	838.1	698.6	654.4	44.17	15.817		
8,100.0	8,063.9	8,148.2	8,127.0	17.7	29.4	92.73	368.1	833.6	694.1	649.4	44.68	15.534		
8,200.0	8,163.9	8,243.0	8,221.7	17.8	29.7	92.64	369.4	829.6	689.8	644.6	45.17	15.272		
8,300.0	8,263.9	8,341.0	8,319.6	17.8	30.1	92.56	370.4	825.9	686.0	640.3	45.66	15.023		
8,400.0	8,363.9	8,437.3	8,415.9	17.9	30.4	92.49	371.4	822.7	682.6	636.5	46.15	14.790		
8,500.0	8,463.9	8,533.2	8,511.7	18.0	30.8	92.40	372.6	820.1	679.8	633.2	46.64	14.576		
8,600.0	8,563.9	8,631.6	8,610.1	18.1	31.1	92.31	373.8	817.8	677.5	630.3	47.14	14.371		
8,700.0	8,663.9	8,730.5	8,708.9	18.1	31.5	92.25	374.6	815.7	675.3	627.7	47.64	14.174		
8,800.0	8,763.9	8,828.6	8,807.0	18.2	31.8	92.22	375.0	813.8	673.4	625.2	48.14	13.989		
8,900.0	8,863.9	8,927.6	8,906.1	18.3	32.2	92.21	375.2	812.1	671.7	623.0	48.63	13.810		
9,000.0	8,963.9	9,029.8	9,008.2	18.3	32.5	92.21	375.3	810.3	669.9	620.7	49.15	13.629		
9,100.0	9,063.9	9,133.2	9,111.6	18.4	32.9	92.19	375.7	808.0	667.6	617.9	49.68	13.439		
9,200.0	9,163.9	9,240.7	9,219.1	18.5	33.3	92.16	376.1	804.9	664.7	614.5	50.22	13.236		
9,300.0	9,263.9	9,342.3	9,320.6	18.6	33.7	92.18	376.0	800.7	660.6	609.9	50.73	13.021		
9,400.0	9,363.9	9,434.8	9,413.0	18.6	34.0	92.21	375.8	797.6	657.2	606.0	51.20	12.837		
9,500.0	9,463.9	9,535.7	9,513.9	18.7	34.3	92.24	375.5	795.0	654.7	603.0	51.70	12.662		
9,600.0	9,563.9	9,636.6	9,614.7	18.8	34.7	92.33	374.6	791.8	651.6	599.4	52.21	12.480		
9,700.0	9,663.9	9,729.4	9,707.5	18.9	35.0	92.48	373.0	789.3	649.0	596.3	52.66	12.325		
9,800.0	9,763.9	9,822.8	9,800.8	18.9	35.3	92.74	370.1	787.9	647.6	594.5	53.09	12.197		
9,857.1	9,821.0	9,874.0	9,852.0	19.0	35.5	92.94	367.9	787.5	647.3	594.0	53.32	12.139		
9,900.0	9,863.9	9,910.5	9,888.4	19.0	35.6	93.07	366.5	787.6	647.5	594.0	53.47	12.108		
10,000.0	9,963.9	10,005.1	9,983.0	19.1	35.9	93.29	363.8	789.1	649.2	595.3	53.90	12.045		
10,100.0	10,063.9	10,107.1	10,085.0	19.1	36.2	93.43	362.2	790.7	650.9	596.5	54.38	11.969		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W2 2H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 134-MWD - OWSG R1													Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Reference Depth (usft)	Offset Depth (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
10,200.0	10,163.9	10,207.5	10,185.4	19.2	36.6	93.54	360.9	792.1	652.3	597.5	54.85	11.893		
10,300.0	10,263.9	10,310.4	10,288.3	19.3	36.9	93.62	359.9	793.4	653.6	598.3	55.34	11.810		
10,400.0	10,363.9	10,415.0	10,392.8	19.4	37.2	93.63	359.6	794.0	654.3	598.4	55.85	11.715		
10,500.0	10,463.9	10,523.2	10,501.1	19.4	37.6	93.68	359.2	793.6	653.9	597.5	56.39	11.596		
10,600.0	10,563.9	10,628.0	10,605.9	19.5	38.0	93.75	358.4	792.3	652.8	595.8	56.92	11.468		
10,700.0	10,663.9	10,743.1	10,720.8	19.6	38.4	93.74	358.7	789.1	649.9	592.4	57.51	11.301		
10,800.0	10,763.9	10,854.6	10,832.2	19.6	38.8	93.66	360.0	783.6	644.9	586.8	58.08	11.105		
10,900.0	10,863.9	10,951.0	10,928.5	19.7	39.1	93.61	360.9	778.0	639.1	580.5	58.57	10.911		
11,000.0	10,963.9	11,048.4	11,025.7	19.8	39.5	93.73	359.9	773.2	634.2	575.1	59.06	10.738		
11,100.0	11,063.9	11,140.9	11,118.1	19.9	39.8	93.93	358.0	768.9	629.7	570.2	59.52	10.580		
11,200.0	11,163.9	11,233.1	11,210.2	19.9	40.1	94.03	357.1	766.1	626.8	566.8	59.98	10.449		
11,300.0	11,263.9	11,325.9	11,303.0	20.0	40.5	94.18	355.6	764.2	624.9	564.4	60.43	10.340		
11,400.0	11,363.9	11,421.4	11,398.5	20.1	40.8	94.39	353.3	763.2	624.0	563.1	60.88	10.249		
11,500.0	11,463.9	11,519.2	11,496.2	20.2	41.1	94.66	350.4	762.6	623.6	562.3	61.35	10.165		
11,600.0	11,563.9	11,618.2	11,595.2	20.2	41.5	94.93	347.5	762.3	623.5	561.7	61.82	10.085		
11,700.0	11,663.9	11,721.6	11,698.5	20.3	41.8	95.19	344.7	761.8	623.3	560.9	62.33	9.999		
11,800.0	11,763.9	11,822.7	11,799.6	20.4	42.1	95.46	341.8	760.8	622.5	559.7	62.82	9.909		
11,900.0	11,863.9	11,923.1	11,900.0	20.5	42.5	95.74	339.0	759.7	621.7	558.4	63.31	9.820		
11,925.6	11,889.5	11,948.8	11,925.6	20.5	42.6	95.80	338.3	759.4	621.5	558.1	63.43	9.798		
11,950.0	11,913.9	11,973.1	11,950.0	20.4	42.7	-83.85	337.6	759.1	621.3	557.7	63.54	9.777		
11,975.0	11,938.8	11,998.1	11,975.0	20.4	42.7	-84.01	336.9	758.9	620.9	557.2	63.65	9.754		
12,000.0	11,963.6	12,023.0	11,999.8	20.3	42.8	-84.30	336.2	758.6	620.3	556.5	63.77	9.728		
12,025.0	11,988.2	12,047.9	12,024.7	20.3	42.9	-84.73	335.5	758.3	619.7	555.8	63.88	9.700		
12,050.0	12,012.5	12,072.5	12,049.3	20.2	43.0	-85.28	334.8	758.0	618.9	554.9	64.00	9.671		
12,075.0	12,036.4	12,096.8	12,073.6	20.1	43.1	-85.95	334.1	757.7	618.1	554.0	64.11	9.641		
12,100.0	12,060.0	12,120.8	12,097.6	20.1	43.2	-86.73	333.4	757.4	617.2	553.0	64.23	9.610		
12,125.0	12,083.1	12,144.5	12,121.3	20.0	43.2	-87.61	332.7	757.1	616.4	552.1	64.35	9.579		
12,150.0	12,105.7	12,168.0	12,144.8	19.9	43.3	-88.57	332.0	756.8	615.7	551.2	64.48	9.549		
12,175.0	12,127.7	12,191.0	12,167.7	19.8	43.4	-89.61	331.4	756.5	615.1	550.5	64.60	9.521		
12,200.0	12,149.0	12,213.3	12,190.0	19.8	43.5	-90.69	330.7	756.1	614.7	550.0	64.73	9.496		
12,224.1	12,168.9	12,234.2	12,210.9	19.7	43.5	-91.75	330.0	755.8	614.5	549.7	64.85	9.476 CC		
12,225.0	12,169.6	12,235.0	12,211.7	19.7	43.5	-91.79	330.0	755.8	614.5	549.7	64.85	9.476 ES		
12,250.0	12,189.5	12,255.9	12,232.6	19.7	43.6	-92.91	329.4	755.4	614.7	549.7	64.98	9.460		
12,275.0	12,208.5	12,275.9	12,252.6	19.6	43.7	-94.00	328.7	755.1	615.3	550.2	65.11	9.450		
12,300.0	12,226.7	12,295.0	12,271.7	19.5	43.8	-95.05	328.1	754.7	616.5	551.2	65.24	9.449 SF		
12,325.0	12,243.9	12,313.2	12,289.8	19.5	43.8	-96.03	327.6	754.3	618.1	552.8	65.37	9.455		
12,350.0	12,260.2	12,330.3	12,307.0	19.4	43.9	-96.93	327.1	754.0	620.5	555.0	65.51	9.472		
12,375.0	12,275.4	12,346.4	12,323.1	19.4	43.9	-97.71	326.7	753.6	623.5	557.9	65.64	9.500		
12,400.0	12,289.6	12,361.4	12,338.1	19.3	44.0	-98.37	326.3	753.3	627.4	561.6	65.77	9.539		
12,425.0	12,302.7	12,374.5	12,351.1	19.3	44.0	-98.81	325.9	753.0	632.0	566.1	65.89	9.592		
12,450.0	12,314.6	12,386.5	12,363.1	19.3	44.1	-99.09	325.6	752.7	637.6	571.5	66.02	9.658		
12,475.0	12,325.4	12,397.4	12,374.0	19.2	44.1	-99.19	325.4	752.5	644.0	577.9	66.14	9.737		
12,500.0	12,335.0	12,407.1	12,383.8	19.2	44.1	-99.09	325.1	752.3	651.4	585.1	66.26	9.831		
12,525.0	12,343.4	12,415.7	12,392.3	19.2	44.2	-98.78	324.9	752.2	659.7	593.3	66.37	9.939		
12,550.0	12,350.5	12,423.1	12,399.7	19.2	44.2	-98.25	324.7	752.0	668.9	602.4	66.49	10.061		
12,575.0	12,356.4	12,429.2	12,405.8	19.2	44.2	-97.48	324.6	751.9	679.0	612.4	66.59	10.197		
12,600.0	12,361.0	12,434.2	12,410.8	19.1	44.2	-96.48	324.5	751.8	690.0	623.3	66.69	10.346		
12,625.0	12,364.3	12,437.8	12,414.4	19.1	44.2	-95.22	324.4	751.7	701.8	635.0	66.79	10.508		
12,650.0	12,366.3	12,440.3	12,416.9	19.1	44.3	-93.70	324.3	751.7	714.4	647.5	66.88	10.682		
12,675.6	12,367.0	12,441.5	12,418.1	19.1	44.3	-91.89	324.3	751.7	728.0	661.0	66.96	10.873		

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 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W2 2H - OWB - AWP										Offset Site Error:	0.0 usft
Survey Program:	134-MWD - OWSG R1										Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,700.0	12,367.0	12,442.0	12,418.6	19.2	44.3	-91.94	324.3	751.7	741.6	674.5	67.03	11.063
12,800.0	12,367.0	12,444.2	12,420.8	19.2	44.3	-92.14	324.3	751.6	802.6	735.3	67.30	11.925
12,900.0	12,367.0	12,446.3	12,422.9	19.3	44.3	-92.34	324.2	751.6	870.8	803.3	67.52	12.897
13,000.0	12,367.0	12,448.5	12,425.1	19.3	44.3	-92.54	324.2	751.5	944.7	877.0	67.69	13.957

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST01 AWP													Offset Site Error:	0.0 usft
Survey Program: 134-MWD - OWSG R1, 12355-MWD - OWSG R1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,400.0	5,380.7	5,518.4	5,508.9	11.6	19.4	68.33	267.8	1,055.6	990.6	959.8	30.79	32.174		
5,500.0	5,478.8	5,610.0	5,599.9	12.0	19.8	69.02	272.2	1,046.6	973.8	942.5	31.30	31.113		
5,600.0	5,576.9	5,704.0	5,693.4	12.3	20.1	69.77	276.5	1,037.9	957.8	925.9	31.81	30.106		
5,700.0	5,675.0	5,798.0	5,787.0	12.6	20.5	70.57	280.4	1,029.7	942.4	910.1	32.32	29.155		
5,800.0	5,773.2	5,904.9	5,893.4	13.0	20.9	71.52	284.4	1,019.9	926.8	894.0	32.87	28.194		
5,900.0	5,871.3	6,005.5	5,993.4	13.3	21.3	72.44	288.4	1,010.1	910.8	877.4	33.40	27.269		
5,924.3	5,895.1	6,029.2	6,017.0	13.4	21.3	72.66	289.4	1,007.7	906.9	873.4	33.52	27.056		
6,000.0	5,969.5	6,102.3	6,089.6	13.7	21.6	73.22	292.3	1,000.4	895.0	861.1	33.90	26.400		
6,100.0	6,068.0	6,198.5	6,185.3	14.0	22.0	73.88	296.1	991.2	880.3	845.9	34.42	25.576		
6,200.0	6,166.8	6,303.1	6,289.4	14.4	22.4	74.53	300.3	980.5	865.6	830.6	34.96	24.762		
6,300.0	6,265.9	6,398.1	6,383.7	14.8	22.8	74.97	304.9	970.9	851.5	816.0	35.47	24.007		
6,400.0	6,365.2	6,492.6	6,477.7	15.1	23.1	75.33	309.3	961.7	838.4	802.4	35.98	23.299		
6,500.0	6,464.7	6,587.5	6,572.1	15.5	23.5	75.65	313.2	953.1	826.4	789.9	36.49	22.644		
6,600.0	6,564.3	6,684.7	6,668.8	15.8	23.9	75.88	317.0	944.4	815.0	778.0	37.01	22.022		
6,700.0	6,664.1	6,779.7	6,763.4	16.1	24.2	76.02	320.6	936.4	804.7	767.2	37.52	21.447		
6,800.0	6,763.9	6,877.7	6,861.0	16.4	24.6	76.02	324.7	928.5	795.1	757.0	38.04	20.901		
6,900.0	6,863.9	6,978.8	6,961.7	16.7	25.0	75.93	328.7	920.5	786.0	747.4	38.57	20.379		
7,000.0	6,963.9	7,085.3	7,067.7	16.9	25.4	75.70	333.0	911.4	776.7	737.6	39.12	19.857		
7,036.1	7,000.0	7,123.9	7,106.1	17.0	25.5	94.94	334.8	907.8	773.2	733.9	39.30	19.674		
7,100.0	7,063.9	7,187.4	7,169.2	17.0	25.8	94.76	337.7	901.9	767.0	727.4	39.63	19.357		
7,200.0	7,163.9	7,280.7	7,262.1	17.1	26.1	94.51	341.7	893.4	757.7	717.5	40.13	18.879		
7,300.0	7,263.9	7,374.2	7,355.3	17.1	26.5	94.31	345.0	885.8	749.2	708.6	40.63	18.439		
7,400.0	7,363.9	7,480.7	7,461.4	17.2	26.9	94.06	348.9	877.2	741.0	699.8	41.17	17.996		
7,500.0	7,463.9	7,580.1	7,560.3	17.3	27.3	93.76	353.3	868.5	731.9	690.2	41.70	17.552		
7,600.0	7,563.9	7,672.6	7,652.4	17.4	27.6	93.52	356.9	860.8	723.4	681.2	42.20	17.142		
7,700.0	7,663.9	7,764.2	7,743.7	17.4	28.0	93.30	360.0	854.2	716.0	673.3	42.69	16.771		
7,800.0	7,763.9	7,859.4	7,838.6	17.5	28.3	93.11	362.6	848.2	709.6	666.4	43.19	16.428		
7,900.0	7,863.9	7,955.1	7,934.2	17.6	28.7	92.96	364.8	842.7	703.7	660.0	43.69	16.105		
8,000.0	7,963.9	8,047.9	8,026.8	17.6	29.0	92.84	366.6	838.1	698.6	654.4	44.18	15.813		
8,100.0	8,063.9	8,148.2	8,127.0	17.7	29.4	92.73	368.1	833.6	694.1	649.4	44.69	15.531		
8,200.0	8,163.9	8,243.0	8,221.7	17.8	29.7	92.64	369.4	829.6	689.8	644.6	45.18	15.268		
8,300.0	8,263.9	8,341.0	8,319.6	17.8	30.1	92.56	370.4	825.9	686.0	640.3	45.68	15.019		
8,400.0	8,363.9	8,437.3	8,415.9	17.9	30.4	92.49	371.4	822.7	682.6	636.4	46.17	14.786		
8,500.0	8,463.9	8,533.2	8,511.7	18.0	30.8	92.40	372.6	820.1	679.8	633.2	46.65	14.572		
8,600.0	8,563.9	8,631.6	8,610.1	18.1	31.1	92.31	373.8	817.8	677.5	630.3	47.15	14.367		
8,700.0	8,663.9	8,730.5	8,708.9	18.1	31.5	92.25	374.6	815.7	675.3	627.7	47.66	14.170		
8,800.0	8,763.9	8,828.6	8,807.0	18.2	31.8	92.22	375.0	813.8	673.4	625.2	48.15	13.985		
8,900.0	8,863.9	8,927.6	8,906.1	18.3	32.2	92.21	375.2	812.1	671.7	623.0	48.65	13.807		
9,000.0	8,963.9	9,029.8	9,008.2	18.3	32.5	92.21	375.3	810.3	669.9	620.7	49.16	13.625		
9,100.0	9,063.9	9,133.2	9,111.6	18.4	32.9	92.19	375.7	808.0	667.6	617.9	49.69	13.436		
9,200.0	9,163.9	9,240.7	9,219.1	18.5	33.3	92.16	376.1	804.9	664.7	614.5	50.23	13.233		
9,300.0	9,263.9	9,342.3	9,320.6	18.6	33.6	92.18	376.0	800.7	660.6	609.8	50.74	13.018		
9,400.0	9,363.9	9,434.8	9,413.0	18.6	34.0	92.21	375.8	797.6	657.2	606.0	51.21	12.834		
9,500.0	9,463.9	9,535.7	9,513.9	18.7	34.3	92.24	375.5	795.0	654.7	603.0	51.72	12.660		
9,600.0	9,563.9	9,636.6	9,614.7	18.8	34.7	92.33	374.6	791.8	651.6	599.3	52.22	12.478		
9,700.0	9,663.9	9,729.4	9,707.5	18.9	35.0	92.48	373.0	789.3	649.0	596.3	52.67	12.322		
9,800.0	9,763.9	9,822.8	9,800.8	18.9	35.3	92.74	370.1	787.9	647.6	594.5	53.11	12.194		
9,857.1	9,821.0	9,874.0	9,852.0	19.0	35.5	92.94	367.9	787.5	647.3	593.9	53.34	12.135		
9,900.0	9,863.9	9,910.5	9,888.4	19.0	35.6	93.07	366.5	787.6	647.5	594.0	53.49	12.104		
10,000.0	9,963.9	10,005.1	9,983.0	19.1	35.9	93.29	363.8	789.1	649.2	595.3	53.92	12.040		
10,100.0	10,063.9	10,107.1	10,085.0	19.1	36.2	93.43	362.2	790.7	650.9	596.5	54.40	11.965		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST01 AWP											Offset Site Error:		0.0 usft
Survey Program:		134-MWD - OWSG R1, 12355-MWD - OWSG R1											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
10,200.0	10,163.9	10,207.5	10,185.4	19.2	36.6	93.54	360.9	792.1	652.3	597.5	54.87	11.888			
10,300.0	10,263.9	10,310.4	10,288.3	19.3	36.9	93.62	359.9	793.4	653.6	598.3	55.36	11.807			
10,400.0	10,363.9	10,415.0	10,392.8	19.4	37.2	93.63	359.6	794.0	654.3	598.4	55.86	11.712			
10,500.0	10,463.9	10,523.2	10,501.1	19.4	37.6	93.68	359.2	793.6	653.9	597.5	56.40	11.594			
10,600.0	10,563.9	10,628.0	10,605.9	19.5	38.0	93.75	358.4	792.3	652.8	595.8	56.93	11.466			
10,700.0	10,663.9	10,743.1	10,720.8	19.6	38.4	93.74	358.7	789.1	649.9	592.4	57.52	11.299			
10,800.0	10,763.9	10,854.6	10,832.2	19.6	38.8	93.66	360.0	783.6	644.9	586.8	58.09	11.103			
10,900.0	10,863.9	10,951.0	10,928.5	19.7	39.1	93.61	360.9	778.0	639.1	580.5	58.58	10.910			
11,000.0	10,963.9	11,048.4	11,025.7	19.8	39.5	93.73	359.9	773.2	634.2	575.1	59.07	10.736			
11,100.0	11,063.9	11,140.9	11,118.1	19.9	39.8	93.93	358.0	768.9	629.7	570.2	59.53	10.578			
11,200.0	11,163.9	11,233.1	11,210.2	19.9	40.1	94.03	357.1	766.1	626.8	566.8	59.99	10.448			
11,300.0	11,263.9	11,325.9	11,303.0	20.0	40.5	94.18	355.6	764.2	624.9	564.4	60.44	10.338			
11,400.0	11,363.9	11,421.4	11,398.5	20.1	40.8	94.39	353.3	763.2	624.0	563.1	60.90	10.247			
11,500.0	11,463.9	11,519.2	11,496.2	20.2	41.1	94.66	350.4	762.6	623.6	562.2	61.36	10.163			
11,600.0	11,563.9	11,618.2	11,595.2	20.2	41.4	94.93	347.5	762.3	623.5	561.7	61.84	10.083			
11,700.0	11,663.9	11,721.6	11,698.5	20.3	41.8	95.19	344.7	761.8	623.3	560.9	62.34	9.997			
11,800.0	11,763.9	11,822.7	11,799.6	20.4	42.1	95.46	341.8	760.8	622.5	559.7	62.83	9.908			
11,900.0	11,863.9	11,923.1	11,900.0	20.5	42.5	95.74	339.0	759.7	621.7	558.4	63.32	9.819			
11,925.6	11,889.5	11,948.8	11,925.6	20.5	42.6	95.80	338.3	759.4	621.5	558.1	63.44	9.797			
11,950.0	11,913.9	11,973.1	11,950.0	20.4	42.6	-83.85	337.6	759.1	621.3	557.7	63.55	9.776			
11,975.0	11,938.8	11,998.1	11,975.0	20.4	42.7	-84.01	336.9	758.9	620.9	557.2	63.66	9.752			
12,000.0	11,963.6	12,023.0	11,999.8	20.3	42.8	-84.30	336.2	758.6	620.3	556.5	63.78	9.727			
12,025.0	11,988.2	12,047.9	12,024.7	20.3	42.9	-84.73	335.5	758.3	619.7	555.8	63.89	9.699			
12,050.0	12,012.5	12,072.5	12,049.3	20.2	43.0	-85.28	334.8	758.0	618.9	554.9	64.01	9.669			
12,075.0	12,036.4	12,096.8	12,073.6	20.1	43.1	-85.95	334.1	757.7	618.1	554.0	64.12	9.639			
12,100.0	12,060.0	12,120.8	12,097.6	20.1	43.2	-86.73	333.4	757.4	617.2	553.0	64.24	9.608			
12,125.0	12,083.1	12,144.5	12,121.3	20.0	43.2	-87.61	332.7	757.1	616.4	552.1	64.36	9.578			
12,150.0	12,105.7	12,168.0	12,144.8	19.9	43.3	-88.57	332.0	756.8	615.7	551.2	64.49	9.548			
12,175.0	12,127.7	12,191.0	12,167.7	19.8	43.4	-89.61	331.4	756.5	615.1	550.5	64.61	9.520			
12,200.0	12,149.0	12,213.3	12,190.0	19.8	43.5	-90.69	330.7	756.1	614.7	550.1	64.63	9.511			
12,224.1	12,168.9	12,234.2	12,210.9	19.7	43.5	-91.75	330.0	755.8	614.5	549.8	64.75	9.491 CC			
12,225.0	12,169.6	12,235.0	12,211.7	19.7	43.5	-91.79	330.0	755.8	614.5	549.8	64.76	9.490			
12,250.0	12,189.5	12,255.9	12,232.6	19.7	43.6	-92.91	329.4	755.4	614.7	549.8	64.89	9.474			
12,275.0	12,208.5	12,274.8	12,251.4	19.6	43.7	-93.92	328.7	755.1	615.4	550.4	64.99	9.469			
12,300.0	12,226.7	12,292.3	12,268.9	19.5	43.7	-94.83	327.7	754.9	616.5	551.5	65.07	9.475			
12,325.0	12,243.9	12,309.8	12,286.4	19.5	43.7	-95.70	326.1	754.7	618.3	553.1	65.15	9.490			
12,350.0	12,260.2	12,327.5	12,304.0	19.4	43.8	-96.52	324.1	754.7	620.6	555.4	65.24	9.513			
12,375.0	12,275.4	12,345.2	12,321.5	19.4	43.8	-97.30	321.5	754.7	623.6	558.3	65.33	9.546			
12,400.0	12,289.6	12,361.3	12,337.3	19.3	43.8	-97.92	318.8	754.9	627.2	561.8	65.40	9.590			
12,425.0	12,302.7	12,374.9	12,350.7	19.3	43.8	-98.31	316.2	755.1	631.6	566.2	65.46	9.649			
12,450.0	12,314.6	12,387.0	12,362.5	19.3	43.8	-98.52	313.8	755.4	636.8	571.3	65.51	9.720			
12,475.0	12,325.4	12,400.9	12,376.1	19.2	43.8	-98.78	310.8	755.9	642.8	577.2	65.57	9.802			
12,500.0	12,335.0	12,415.0	12,389.9	19.2	43.8	-98.98	307.7	756.4	649.6	583.9	65.63	9.897			
12,525.0	12,343.4	12,422.0	12,396.6	19.2	43.8	-98.56	306.1	756.8	657.2	591.5	65.70	10.003			
12,550.0	12,350.5	12,430.2	12,404.6	19.2	43.8	-98.13	304.1	757.3	665.7	599.9	65.77	10.121			
12,575.0	12,356.4	12,438.2	12,412.3	19.2	43.8	-97.56	302.0	757.9	675.0	609.2	65.84	10.253			
12,600.0	12,361.0	12,447.0	12,420.7	19.1	43.8	-96.94	299.5	758.8	685.2	619.3	65.90	10.397			
12,625.0	12,364.3	12,456.8	12,430.0	19.1	43.8	-96.29	296.5	759.8	696.0	630.1	65.95	10.554			
12,650.0	12,366.3	12,573.2	12,530.0	19.1	43.8	-103.17	239.9	774.2	706.6	641.2	65.39	10.805			
12,675.6	12,367.0	12,594.7	12,546.1	19.1	43.8	-103.13	226.0	777.2	716.9	651.6	65.32	10.976			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST01 AWP													Offset Site Error:	0.0 usft
Survey Program: 134-MWD - OWSG R1, 12355-MWD - OWSG R1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,700.0	12,367.0	12,648.4	12,582.8	19.2	43.8	-106.04	187.6	785.3	726.8	661.7	65.03	11.176		
12,800.0	12,367.0	12,798.5	12,660.4	19.2	43.8	-111.46	62.3	811.1	762.7	698.3	64.47	11.830		
12,900.0	12,367.0	13,035.0	12,719.0	19.3	44.0	-114.33	-160.5	854.8	791.0	726.4	64.62	12.240		
13,000.0	12,367.0	13,183.8	12,724.0	19.3	44.4	-114.03	-307.5	877.0	805.5	740.2	65.36	12.324		
13,100.0	12,367.0	13,288.8	12,725.2	19.5	44.8	-113.75	-411.7	890.0	816.8	750.7	66.03	12.371		
13,200.0	12,367.0	13,410.1	12,722.8	19.6	45.3	-113.26	-532.2	902.9	825.1	758.1	66.96	12.321		
13,300.0	12,367.0	13,505.8	12,720.6	19.8	45.8	-112.87	-627.4	912.7	833.0	765.2	67.77	12.291		
13,400.0	12,367.0	13,649.1	12,719.7	20.1	46.6	-112.53	-770.3	924.2	840.0	770.8	69.17	12.144		
13,500.0	12,367.0	13,768.5	12,717.8	20.4	47.4	-112.35	-889.6	927.5	841.2	770.8	70.42	11.946		
13,600.0	12,367.0	13,871.1	12,716.7	20.9	48.1	-112.22	-992.2	930.2	842.7	771.1	71.55	11.778		
13,700.0	12,367.0	13,979.4	12,713.6	21.3	48.9	-112.04	-1,100.4	930.6	841.2	768.4	72.84	11.549		
13,717.6	12,367.0	13,992.2	12,713.5	21.4	49.0	-112.03	-1,113.2	930.6	841.2	768.2	72.99	11.525		
13,800.0	12,367.0	14,061.1	12,714.4	21.9	49.5	-112.07	-1,182.1	931.6	842.1	768.3	73.80	11.410		
13,900.0	12,367.0	14,163.9	12,717.2	22.4	50.4	-112.24	-1,284.8	932.9	843.7	768.6	75.09	11.236		
14,000.0	12,367.0	14,277.5	12,720.2	23.1	51.4	-112.44	-1,398.4	933.1	844.2	767.6	76.61	11.019		
14,100.0	12,367.0	14,375.6	12,720.9	23.7	52.3	-112.50	-1,496.5	932.9	843.7	765.8	77.98	10.820		
14,110.5	12,367.0	14,385.2	12,720.8	23.8	52.4	-112.50	-1,506.1	933.0	843.7	765.6	78.12	10.801		
14,200.0	12,367.0	14,470.3	12,720.7	24.4	53.2	-112.48	-1,591.2	933.9	844.0	764.6	79.36	10.635		
14,300.0	12,367.0	14,583.1	12,720.8	25.1	54.3	-112.49	-1,704.0	934.6	844.1	763.0	81.10	10.408		
14,400.0	12,367.0	14,674.8	12,719.9	25.8	55.2	-112.44	-1,795.7	934.9	843.4	760.9	82.54	10.219		
14,404.4	12,367.0	14,678.7	12,719.8	25.8	55.2	-112.43	-1,799.6	935.0	843.4	760.8	82.60	10.211		
14,500.0	12,367.0	14,758.4	12,718.7	26.5	56.1	-112.33	-1,879.2	936.8	844.3	760.4	83.88	10.066		
14,600.0	12,367.0	14,882.8	12,718.0	27.3	57.4	-112.24	-2,003.6	939.4	845.6	759.6	86.04	9.829		
14,700.0	12,367.0	14,987.1	12,717.2	28.0	58.5	-112.22	-2,107.9	938.8	844.2	756.4	87.83	9.611		
14,753.5	12,367.0	15,028.3	12,717.1	28.4	59.0	-112.22	-2,149.1	938.8	843.8	755.3	88.53	9.531		
14,800.0	12,367.0	15,069.0	12,717.1	28.8	59.5	-112.21	-2,189.8	939.4	844.1	754.9	89.23	9.460		
14,900.0	12,367.0	15,164.1	12,716.1	29.6	60.6	-112.11	-2,284.9	941.8	845.5	754.5	90.95	9.296		
15,000.0	12,367.0	15,246.0	12,715.1	30.4	61.5	-111.98	-2,366.7	944.8	847.8	755.4	92.43	9.172		
15,100.0	12,367.0	15,376.9	12,715.1	31.2	63.1	-111.92	-2,497.5	947.7	849.3	754.3	94.99	8.941		
15,129.0	12,367.0	15,404.0	12,715.0	31.4	63.4	-111.92	-2,524.6	947.9	849.2	753.7	95.49	8.893		
15,200.0	12,367.0	15,469.5	12,714.4	32.0	64.2	-111.87	-2,590.2	948.8	849.4	752.7	96.74	8.780		
15,300.0	12,367.0	15,568.0	12,713.2	32.8	65.5	-111.75	-2,688.6	951.1	850.5	751.9	98.67	8.620		
15,400.0	12,367.0	15,720.9	12,711.8	33.7	67.4	-111.73	-2,841.4	949.6	848.9	747.2	101.71	8.347		
15,500.0	12,367.0	15,799.1	12,711.3	34.5	68.4	-111.79	-2,919.6	946.4	844.4	741.2	103.23	8.179		
15,600.0	12,367.0	15,937.9	12,708.9	35.4	70.1	-111.76	-3,058.3	942.3	840.9	734.9	105.96	7.936		
15,700.0	12,367.0	16,005.9	12,707.9	36.2	71.0	-111.78	-3,126.2	939.7	835.9	728.5	107.37	7.785		
15,800.0	12,367.0	16,088.6	12,707.4	37.1	72.1	-111.80	-3,208.9	938.1	833.3	724.3	109.03	7.643		
15,861.2	12,367.0	16,136.5	12,707.3	37.6	72.7	-111.81	-3,256.8	938.0	832.8	722.8	109.99	7.571		
15,900.0	12,367.0	16,165.0	12,707.5	37.9	73.1	-111.81	-3,285.3	938.3	833.0	722.5	110.54	7.536		
16,000.0	12,367.0	16,282.5	12,708.3	38.8	74.7	-111.82	-3,402.8	940.7	834.7	721.7	113.05	7.384		
16,100.0	12,367.0	16,405.8	12,706.4	39.7	76.4	-111.77	-3,526.0	938.7	832.0	716.3	115.69	7.192		
16,200.0	12,367.0	16,503.6	12,703.8	40.5	77.7	-111.67	-3,623.8	936.8	828.6	710.8	117.80	7.034		
16,300.0	12,367.0	16,620.0	12,700.9	41.4	79.3	-111.60	-3,740.0	933.0	824.0	703.8	120.29	6.850		
16,400.0	12,367.0	16,708.1	12,699.4	42.3	80.5	-111.62	-3,828.0	929.1	818.7	696.5	122.19	6.701		
16,500.0	12,367.0	16,776.0	12,698.6	43.2	81.4	-111.59	-3,896.0	928.7	817.1	693.5	123.62	6.610		
16,504.4	12,367.0	16,776.0	12,698.6	43.2	81.4	-111.59	-3,896.0	928.7	817.1	693.5	123.61	6.611		
16,600.0	12,367.0	16,872.2	12,698.4	44.1	82.8	-111.55	-3,992.2	930.2	817.8	692.1	125.74	6.504		
16,700.0	12,367.0	17,014.9	12,697.5	45.0	84.8	-111.59	-4,134.8	927.3	814.8	685.9	128.90	6.321		
16,800.0	12,367.0	17,128.7	12,696.8	45.9	86.4	-111.72	-4,248.4	921.4	809.2	677.9	131.30	6.163		
16,900.0	12,367.0	17,213.9	12,696.9	46.8	87.6	-111.88	-4,333.4	916.3	803.2	670.1	133.13	6.033		
17,000.0	12,367.0	17,287.3	12,697.7	47.7	88.7	-112.00	-4,406.8	914.0	800.1	665.4	134.68	5.941		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST01 AWP												Offset Site Error:	0.0 usft
Survey Program: 134-MWD - OWSG R1, 12355-MWD - OWSG R1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
17,038.0	12,367.0	17,314.3	12,697.8	48.0	89.1	-112.01	-4,433.9	914.0	799.8	664.6	135.24	5.914	
17,100.0	12,367.0	17,363.8	12,697.5	48.6	89.8	-111.97	-4,483.4	915.0	800.4	664.1	136.31	5.872	
17,200.0	12,367.0	17,461.1	12,695.0	49.5	91.2	-111.74	-4,580.5	918.3	802.0	663.4	138.63	5.786	
17,300.0	12,367.0	17,550.2	12,693.2	50.4	92.5	-111.53	-4,669.5	922.1	804.7	664.0	140.70	5.719	
17,400.0	12,367.0	17,656.2	12,693.0	51.3	94.1	-111.42	-4,775.5	926.8	808.2	665.0	143.25	5.642	
17,487.8	12,367.0	17,764.3	12,692.6	52.1	95.7	-111.38	-4,883.5	927.9	808.2	662.3	145.87	5.540	
17,500.0	12,367.0	17,774.2	12,692.6	52.2	95.8	-111.38	-4,893.4	928.0	808.2	662.1	146.09	5.532	
17,600.0	12,367.0	17,869.4	12,692.8	53.1	97.3	-111.36	-4,988.6	929.7	809.3	661.0	148.27	5.458	
17,700.0	12,367.0	17,968.6	12,691.9	54.1	98.7	-111.28	-5,087.7	931.3	809.9	659.2	150.62	5.377	
17,800.0	12,367.0	18,070.2	12,691.9	55.0	100.3	-111.24	-5,189.3	933.3	811.1	658.0	153.01	5.301	
17,900.0	12,367.0	18,190.4	12,692.6	55.9	102.1	-111.31	-5,309.6	933.4	810.8	654.9	155.83	5.203	
18,000.0	12,367.0	18,328.8	12,689.6	56.8	104.1	-111.26	-5,447.8	928.7	806.0	647.1	158.98	5.070	
18,100.0	12,367.0	18,428.0	12,688.8	57.7	105.6	-111.38	-5,546.8	922.5	799.4	638.2	161.19	4.959	
18,200.0	12,367.0	18,555.5	12,689.4	58.7	107.5	-111.68	-5,674.0	913.4	792.6	628.9	163.69	4.842	
18,300.0	12,367.0	18,647.9	12,688.2	59.6	108.9	-111.86	-5,765.9	904.5	782.6	616.8	165.78	4.720	
18,400.0	12,367.0	18,727.7	12,688.3	60.5	110.0	-112.05	-5,845.5	898.3	774.9	607.2	167.66	4.622	
18,500.0	12,367.0	18,815.9	12,690.7	61.4	111.4	-112.39	-5,933.5	892.8	769.5	600.0	169.53	4.539	
18,600.0	12,367.0	18,909.8	12,692.4	62.4	112.8	-112.66	-6,027.2	888.1	764.9	593.4	171.54	4.459	
18,700.0	12,367.0	19,006.7	12,695.6	63.3	114.2	-113.03	-6,124.0	883.5	761.2	587.7	173.53	4.387	
18,800.0	12,367.0	19,107.9	12,699.6	64.2	115.8	-113.48	-6,224.9	878.3	757.5	581.9	175.55	4.315	
18,900.0	12,367.0	19,217.7	12,701.8	65.2	117.4	-113.82	-6,334.6	873.0	753.3	575.4	177.83	4.236	
19,000.0	12,367.0	19,316.9	12,701.4	66.1	119.0	-113.96	-6,433.7	868.1	748.0	568.0	180.03	4.155	
19,100.0	12,367.0	19,449.1	12,699.9	67.0	121.0	-114.16	-6,565.6	859.2	740.8	558.1	182.73	4.054	
19,200.0	12,367.0	19,546.3	12,698.9	68.0	122.4	-114.38	-6,662.4	850.7	731.8	546.9	184.83	3.959	
19,300.0	12,367.0	19,650.6	12,698.4	68.9	124.0	-114.70	-6,766.3	840.7	722.3	535.3	186.93	3.864	
19,389.1	12,367.0	19,670.0	12,698.3	69.7	124.3	-114.76	-6,785.5	838.8	717.0	529.6	187.44	3.825 ES, SF	
19,400.0	12,367.0	19,670.0	12,698.3	69.8	124.3	-114.76	-6,785.5	838.8	717.1	529.8	187.32	3.828	
19,500.0	12,367.0	19,670.0	12,698.3	70.8	124.3	-114.76	-6,785.5	838.8	725.5	540.9	184.58	3.931	
19,600.0	12,367.0	19,670.0	12,698.3	71.7	124.3	-114.76	-6,785.5	838.8	747.4	568.2	179.20	4.170	
19,628.7	12,367.0	19,670.0	12,698.3	72.0	124.3	-114.76	-6,785.5	838.8	756.0	578.7	177.26	4.265	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 132-MWD - OWSG R1, 887-MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	No-Go	Separation			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.0	5,184.4	5,293.1	5,281.4	11.0	16.3	59.44	380.0	1,032.1	998.0	970.9	27.19	36.702		
5,300.0	5,282.6	5,393.9	5,381.9	11.3	16.7	60.20	382.5	1,024.6	981.4	953.7	27.73	35.391		
5,400.0	5,380.7	5,488.6	5,476.4	11.6	17.0	60.93	385.0	1,017.4	964.9	936.6	28.25	34.156		
5,500.0	5,478.8	5,582.1	5,569.6	12.0	17.4	61.70	387.0	1,010.9	948.9	920.2	28.76	32.993		
5,600.0	5,576.9	5,675.0	5,662.3	12.3	17.7	62.50	388.8	1,004.9	933.7	904.4	29.27	31.898		
5,700.0	5,675.0	5,768.6	5,755.7	12.6	18.0	63.37	390.3	999.3	919.1	889.3	29.78	30.864		
5,800.0	5,773.2	5,862.4	5,849.4	13.0	18.4	64.27	391.6	994.2	905.2	874.9	30.28	29.890		
5,900.0	5,871.3	5,956.8	5,943.7	13.3	18.7	65.22	392.8	989.5	892.0	861.2	30.79	28.970		
5,924.3	5,895.1	5,979.0	5,965.8	13.4	18.8	65.45	393.1	988.5	888.9	858.0	30.90	28.765		
6,000.0	5,969.5	6,052.7	6,039.4	13.7	19.0	66.10	394.0	985.0	879.6	848.3	31.28	28.118		
6,100.0	6,068.0	6,147.4	6,134.0	14.0	19.4	66.88	395.2	980.9	868.4	836.6	31.78	27.321		
6,200.0	6,166.8	6,242.2	6,228.7	14.4	19.7	67.61	396.2	977.2	858.5	826.2	32.28	26.593		
6,300.0	6,265.9	6,339.0	6,325.5	14.8	20.1	68.28	397.1	973.8	849.8	817.1	32.79	25.919		
6,400.0	6,365.2	6,433.6	6,420.0	15.1	20.4	68.87	397.8	970.8	842.3	809.0	33.28	25.309		
6,500.0	6,464.7	6,530.9	6,517.3	15.5	20.7	69.41	398.3	968.2	836.0	802.2	33.78	24.745		
6,600.0	6,564.3	6,624.5	6,610.9	15.8	21.1	69.85	398.6	966.1	830.7	796.5	34.27	24.244		
6,700.0	6,664.1	6,725.7	6,712.1	16.1	21.4	70.24	398.7	964.1	826.5	791.8	34.78	23.764		
6,800.0	6,763.9	6,821.4	6,807.8	16.4	21.8	70.49	399.1	962.4	823.0	787.7	35.27	23.334		
6,900.0	6,863.9	6,918.0	6,904.3	16.7	22.1	70.60	400.2	961.1	820.6	784.8	35.77	22.942		
7,000.0	6,963.9	7,017.0	7,003.3	16.9	22.5	70.58	401.6	960.0	819.0	782.8	36.27	22.580		
7,036.1	7,000.0	7,052.2	7,038.5	17.0	22.6	89.94	402.0	959.7	818.7	782.2	36.44	22.466		
7,100.0	7,063.9	7,115.5	7,101.8	17.0	22.8	89.89	402.6	959.1	818.1	781.4	36.74	22.266		
7,200.0	7,163.9	7,217.6	7,203.8	17.1	23.2	89.83	403.5	958.1	817.1	779.9	37.25	21.937		
7,300.0	7,263.9	7,318.8	7,305.0	17.1	23.5	89.78	404.3	956.9	815.9	778.2	37.75	21.614		
7,400.0	7,363.9	7,418.8	7,405.1	17.2	23.9	89.76	404.6	955.7	814.7	776.5	38.25	21.302		
7,500.0	7,463.9	7,517.8	7,504.0	17.3	24.2	89.75	404.6	954.4	813.4	774.7	38.73	21.000		
7,600.0	7,563.9	7,613.1	7,599.3	17.4	24.6	89.75	404.7	953.7	812.7	773.5	39.20	20.730		
7,700.0	7,663.9	7,712.7	7,699.0	17.4	24.9	89.73	404.9	953.1	812.1	772.4	39.69	20.459		
7,800.0	7,763.9	7,810.4	7,796.6	17.5	25.2	89.74	404.8	952.8	811.7	771.6	40.17	20.210		
7,900.0	7,863.9	7,909.2	7,895.4	17.6	25.6	89.77	404.4	952.7	811.6	771.0	40.63	19.974		
8,000.0	7,963.9	8,008.9	7,995.2	17.6	25.9	89.81	403.8	952.7	811.6	770.5	41.10	19.747		
8,100.0	8,063.9	8,108.6	8,094.9	17.7	26.2	89.87	402.9	952.6	811.5	770.0	41.56	19.526		
8,104.4	8,068.3	8,113.0	8,099.3	17.7	26.2	89.88	402.8	952.6	811.5	770.0	41.58	19.516		
8,200.0	8,163.9	8,208.3	8,194.5	17.8	26.6	89.95	401.8	952.7	811.6	769.5	42.03	19.311		
8,300.0	8,263.9	8,308.0	8,294.2	17.8	26.9	90.04	400.6	952.7	811.6	769.1	42.49	19.101		
8,400.0	8,363.9	8,408.7	8,394.9	17.9	27.2	90.13	399.2	952.8	811.7	768.7	42.96	18.893		
8,500.0	8,463.9	8,512.6	8,498.8	18.0	27.6	90.23	397.9	952.5	811.5	768.0	43.45	18.675		
8,600.0	8,563.9	8,611.9	8,598.1	18.1	27.9	90.33	396.4	952.1	811.0	767.1	43.92	18.463		
8,700.0	8,663.9	8,714.7	8,700.9	18.1	28.2	90.45	394.7	951.5	810.5	766.0	44.41	18.248		
8,800.0	8,763.9	8,813.0	8,799.2	18.2	28.6	90.58	392.9	950.9	809.9	765.0	44.88	18.045		
8,900.0	8,863.9	8,918.9	8,905.0	18.3	28.9	90.66	391.8	949.9	809.0	763.6	45.40	17.820		
9,000.0	8,963.9	9,017.4	9,003.6	18.3	29.3	90.71	391.1	948.8	807.8	762.0	45.88	17.607		
9,100.0	9,063.9	9,122.7	9,108.8	18.4	29.6	90.78	390.1	947.3	806.4	760.0	46.40	17.381		
9,200.0	9,163.9	9,224.6	9,210.7	18.5	30.0	90.89	388.7	945.3	804.5	757.6	46.90	17.154		
9,300.0	9,263.9	9,326.6	9,312.7	18.6	30.4	90.98	387.4	943.3	802.6	755.2	47.40	16.932		
9,400.0	9,363.9	9,432.7	9,418.7	18.6	30.7	91.01	387.1	940.5	799.9	751.9	47.93	16.689		
9,500.0	9,463.9	9,534.7	9,520.7	18.7	31.1	91.03	386.8	937.3	796.7	748.3	48.44	16.448		
9,600.0	9,563.9	9,636.1	9,622.0	18.8	31.5	91.06	386.4	933.9	793.4	744.5	48.94	16.210		
9,700.0	9,663.9	9,731.3	9,717.2	18.9	31.8	91.17	385.0	930.8	790.2	740.8	49.42	15.990		
9,800.0	9,763.9	9,826.5	9,812.3	18.9	32.1	91.35	382.5	928.3	787.7	737.8	49.88	15.790		
9,900.0	9,863.9	9,912.8	9,898.5	19.0	32.4	91.52	380.3	927.0	786.3	736.0	50.29	15.633		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 132-MWD - OWSG R1, 887-MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Vertical	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
9,926.9	9,890.7	9,936.0	9,921.7	19.0	32.5	91.55	379.8	927.0	786.2	735.8	50.40	15.599		
10,000.0	9,963.9	10,001.8	9,987.5	19.1	32.7	91.63	378.7	927.3	786.6	735.9	50.70	15.513		
10,100.0	10,063.9	10,089.0	10,074.7	19.1	33.0	91.68	378.1	928.7	788.2	737.2	51.09	15.427		
10,200.0	10,163.9	10,189.0	10,174.7	19.2	33.3	91.61	378.9	931.7	791.2	739.6	51.57	15.343		
10,300.0	10,263.9	10,286.1	10,271.8	19.3	33.7	91.55	379.7	934.1	793.7	741.7	52.02	15.257		
10,400.0	10,363.9	10,380.7	10,366.3	19.4	34.0	91.55	379.6	937.2	796.9	744.5	52.45	15.193		
10,500.0	10,463.9	10,490.9	10,476.4	19.4	34.3	91.60	378.7	940.7	800.2	747.2	52.99	15.100		
10,600.0	10,563.9	10,608.0	10,593.5	19.5	34.7	91.73	376.9	942.1	801.4	747.8	53.57	14.959		
10,700.0	10,663.9	10,719.2	10,704.7	19.6	35.1	91.77	376.4	941.5	800.9	746.8	54.13	14.797		
10,800.0	10,763.9	10,832.6	10,818.1	19.6	35.5	91.72	377.2	939.1	798.7	744.0	54.70	14.602		
10,900.0	10,863.9	10,941.6	10,927.0	19.7	35.9	91.68	377.7	935.3	795.2	740.0	55.25	14.394		
11,000.0	10,963.9	11,043.3	11,028.6	19.8	36.3	91.70	377.7	930.9	790.9	735.2	55.76	14.184		
11,100.0	11,063.9	11,132.1	11,117.3	19.9	36.6	91.78	376.6	927.7	787.3	731.1	56.21	14.007		
11,200.0	11,163.9	11,228.8	11,214.0	19.9	36.9	91.89	375.2	925.3	784.9	728.2	56.69	13.845		
11,300.0	11,263.9	11,324.0	11,309.2	20.0	37.3	91.97	374.1	923.1	782.6	725.5	57.16	13.691		
11,400.0	11,363.9	11,426.6	11,411.7	20.1	37.6	92.12	372.3	921.2	780.8	723.1	57.67	13.539		
11,500.0	11,463.9	11,530.7	11,515.8	20.2	38.0	92.24	370.7	918.6	778.4	720.2	58.19	13.376		
11,600.0	11,563.9	11,632.5	11,617.5	20.2	38.3	92.34	369.4	915.6	775.5	716.8	58.70	13.212		
11,700.0	11,663.9	11,732.7	11,717.7	20.3	38.7	92.44	368.3	912.6	772.6	713.4	59.20	13.050		
11,800.0	11,763.9	11,828.4	11,813.3	20.4	39.0	92.55	366.8	910.0	769.9	710.2	59.68	12.901		
11,900.0	11,863.9	11,925.4	11,910.3	20.5	39.4	92.68	365.2	907.8	767.7	707.6	60.16	12.761		
11,925.6	11,889.5	11,950.5	11,935.4	20.5	39.5	92.72	364.7	907.3	767.2	706.9	60.28	12.728		
11,950.0	11,913.9	11,974.2	11,959.1	20.4	39.6	-86.98	364.3	906.8	766.7	706.3	60.39	12.697		
11,975.0	11,938.8	11,998.6	11,983.5	20.4	39.6	-87.16	363.9	906.3	766.2	705.7	60.49	12.665		
12,000.0	11,963.6	12,022.5	12,007.3	20.3	39.7	-87.43	363.5	905.9	765.6	705.0	60.60	12.633		
12,025.0	11,988.2	12,045.8	12,030.6	20.3	39.8	-87.79	363.1	905.5	765.0	704.3	60.70	12.602		
12,050.0	12,012.5	12,068.8	12,053.7	20.2	39.9	-88.23	362.8	905.2	764.4	703.6	60.81	12.571		
12,075.0	12,036.4	12,091.6	12,076.5	20.1	40.0	-88.75	362.4	904.9	763.9	703.0	60.91	12.541		
12,100.0	12,060.0	12,114.1	12,099.0	20.1	40.0	-89.34	362.1	904.6	763.4	702.4	61.02	12.512		
12,125.0	12,083.1	12,136.4	12,121.2	20.0	40.1	-89.99	361.7	904.4	763.1	702.0	61.12	12.485		
12,150.0	12,105.7	12,158.1	12,143.0	19.9	40.2	-90.68	361.3	904.2	762.9	701.7	61.23	12.461		
12,161.9	12,116.3	12,169.1	12,153.9	19.9	40.2	-91.05	361.1	904.1	762.9	701.6	61.28	12.449 CC		
12,175.0	12,127.7	12,181.0	12,165.8	19.8	40.3	-91.47	360.9	904.0	762.9	701.6	61.34	12.438 ES		
12,200.0	12,149.0	12,203.2	12,188.0	19.8	40.3	-92.29	360.5	903.8	763.2	701.7	61.45	12.418		
12,225.0	12,169.6	12,224.7	12,209.5	19.7	40.4	-93.11	360.0	903.6	763.6	702.2	61.46	12.425		
12,250.0	12,189.5	12,245.5	12,230.3	19.7	40.5	-93.94	359.5	903.4	764.4	702.9	61.57	12.415		
12,275.0	12,208.5	12,265.5	12,250.3	19.6	40.6	-94.74	359.1	903.2	765.6	703.9	61.68	12.412 SF		
12,300.0	12,226.7	12,284.6	12,269.4	19.5	40.6	-95.51	358.7	902.9	767.2	705.4	61.79	12.416		
12,325.0	12,243.9	12,302.7	12,287.5	19.5	40.7	-96.22	358.3	902.7	769.3	707.4	61.90	12.428		
12,350.0	12,260.2	12,319.8	12,304.6	19.4	40.8	-96.85	358.0	902.5	772.0	710.0	62.01	12.450		
12,375.0	12,275.4	12,335.8	12,320.6	19.4	40.8	-97.38	357.7	902.2	775.2	713.1	62.11	12.482		
12,400.0	12,289.6	12,350.7	12,335.4	19.3	40.9	-97.81	357.4	902.0	779.2	717.0	62.21	12.524		
12,425.0	12,302.7	12,364.5	12,349.2	19.3	40.9	-98.11	357.1	901.8	783.8	721.5	62.31	12.579		
12,450.0	12,314.6	12,377.1	12,361.9	19.3	41.0	-98.27	356.8	901.6	789.1	726.7	62.41	12.645		
12,475.0	12,325.4	12,388.7	12,373.4	19.2	41.0	-98.28	356.6	901.4	795.2	732.7	62.50	12.723		
12,500.0	12,335.0	12,399.0	12,383.7	19.2	41.0	-98.13	356.3	901.3	802.1	739.5	62.59	12.815		
12,525.0	12,343.4	12,408.1	12,392.8	19.2	41.1	-97.81	356.1	901.1	809.7	747.0	62.68	12.919		
12,550.0	12,350.5	12,415.9	12,400.7	19.2	41.1	-97.30	356.0	901.0	818.1	755.4	62.76	13.036		
12,575.0	12,356.4	12,422.5	12,407.2	19.2	41.1	-96.60	355.8	900.9	827.3	764.5	62.84	13.166		
12,600.0	12,361.0	12,427.7	12,412.5	19.1	41.1	-95.70	355.7	900.8	837.2	774.3	62.91	13.308		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	ZIA HILLS UNIT 2532 PROJECT - WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	132-MWD - OWSG R1, 887-MWD+IFR1											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
12,625.0	12,364.3	12,431.8	12,416.5	19.1	41.1	-94.59	355.6	900.8	847.8	784.9	62.98	13.463	
12,650.0	12,366.3	12,434.5	12,419.2	19.1	41.2	-93.28	355.5	900.7	859.1	796.1	63.04	13.628	
12,675.6	12,367.0	12,435.9	12,420.7	19.1	41.2	-91.71	355.5	900.7	871.4	808.3	63.10	13.810	
12,700.0	12,367.0	12,436.6	12,421.4	19.2	41.2	-91.77	355.4	900.7	883.6	820.4	63.15	13.991	
12,800.0	12,367.0	12,439.5	12,424.3	19.2	41.2	-91.99	355.4	900.7	938.6	875.2	63.36	14.814	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WILDER-FEDERAL #15 (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 3500-INC ONLY													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
2,500.0	2,500.0	3,120.0	3,120.0	6.4	0.0	-109.22	-228.6	-655.9	941.1	933.2	7.93	118.722		
2,600.0	2,600.0	3,120.0	3,120.0	6.5	0.0	-109.22	-228.6	-655.9	876.8	868.4	8.39	104.540		
2,700.0	2,700.0	3,120.0	3,120.0	6.6	0.0	-109.22	-228.6	-655.9	819.6	810.7	8.87	92.410		
2,800.0	2,800.0	3,120.0	3,120.0	6.8	0.0	-109.22	-228.6	-655.9	771.2	761.8	9.35	82.444		
2,900.0	2,900.0	3,120.0	3,120.0	6.9	0.0	-109.22	-228.6	-655.9	733.3	723.5	9.81	74.737		
3,000.0	3,000.0	3,120.0	3,120.0	7.1	0.0	-109.22	-228.6	-655.9	707.6	697.4	10.20	69.352		
3,100.0	3,100.0	3,120.0	3,120.0	7.2	0.0	-109.22	-228.6	-655.9	695.5	685.0	10.49	66.293		
3,151.3	3,151.3	3,136.3	3,136.3	7.2	0.5	-109.22	-228.6	-655.9	694.6	684.0	10.62	65.439		
3,200.0	3,200.0	3,185.0	3,185.0	7.3	2.0	-109.22	-228.6	-655.9	694.6	683.6	11.04	62.939		
3,300.0	3,300.0	3,285.0	3,285.0	7.4	5.0	-109.22	-228.6	-655.9	694.6	681.7	12.95	53.656		
3,400.0	3,400.0	3,385.0	3,385.0	7.6	8.0	-109.22	-228.6	-655.9	694.6	678.8	15.79	43.991		
3,500.0	3,500.0	3,485.0	3,485.0	7.7	11.0	-109.22	-228.6	-655.9	694.6	675.5	19.15	36.278		
3,600.0	3,600.0	3,585.2	3,585.0	7.8	14.0	-109.22	-228.6	-655.9	694.6	671.8	22.79	30.476		
3,700.0	3,700.0	3,685.2	3,685.0	7.9	17.0	-109.22	-228.6	-655.9	694.6	668.0	26.60	26.117		
3,764.7	3,764.7	3,749.8	3,749.6	8.0	18.9	-108.96	-225.4	-655.9	693.6	664.5	29.11	23.823 CC		
3,800.0	3,800.0	3,784.4	3,784.1	8.1	19.9	-108.97	-225.4	-655.9	693.6	663.1	30.47	22.761		
3,900.0	3,900.0	3,882.3	3,881.9	8.2	22.9	-109.03	-226.3	-655.9	693.9	659.5	34.36	20.194		
4,000.0	4,000.0	3,980.2	3,979.8	8.3	25.8	-109.18	-228.1	-655.9	694.5	656.2	38.29	18.135		
4,100.0	4,100.0	4,085.5	4,085.0	8.5	29.0	-128.69	-228.6	-655.9	695.7	653.2	42.57	16.344		
4,200.0	4,199.8	4,185.3	4,184.8	8.7	32.0	-128.97	-228.6	-655.9	699.0	652.4	46.65	14.986 ES		
4,300.0	4,299.5	4,284.7	4,284.2	8.9	34.9	-129.35	-227.6	-655.9	704.2	653.4	50.72	13.883		
4,400.0	4,398.7	4,383.0	4,382.5	9.1	37.9	-130.00	-227.9	-655.9	712.1	657.3	54.77	13.000		
4,500.0	4,497.5	4,480.9	4,480.3	9.3	40.8	-130.82	-228.5	-655.9	722.5	663.7	58.82	12.285		
4,555.9	4,552.4	4,538.3	4,537.4	9.4	42.5	-131.36	-228.6	-655.9	729.4	668.2	61.18	11.921		
4,600.0	4,595.7	4,581.5	4,580.7	9.5	43.8	-131.85	-228.6	-655.9	735.1	672.1	62.97	11.674		
4,700.0	4,693.8	4,675.0	4,674.1	9.7	46.6	-132.89	-228.6	-655.9	748.2	681.4	66.85	11.193 SF		
4,800.0	4,791.9	4,675.0	4,674.1	9.9	46.6	-132.89	-228.6	-655.9	768.5	702.2	66.31	11.589		
4,900.0	4,890.1	4,675.0	4,674.1	10.2	46.6	-132.89	-228.6	-655.9	800.9	736.0	64.88	12.345		
5,000.0	4,988.2	4,675.0	4,674.1	10.4	46.6	-132.89	-228.6	-655.9	843.9	781.1	62.80	13.438		
5,100.0	5,086.3	4,675.0	4,674.1	10.7	46.6	-132.89	-228.6	-655.9	896.1	835.8	60.36	14.847		
5,200.0	5,184.4	4,675.0	4,674.1	11.0	46.6	-132.89	-228.6	-655.9	955.9	898.2	57.77	16.548		

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 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WILDER-FEDERAL 9-X - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 500-INC ONLY													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	3.0	-109.22	-228.6	-655.9	694.7	690.0	4.66	148.938		
100.0	100.0	95.0	95.0	1.2	4.1	-109.22	-228.6	-655.9	694.6	688.1	6.49	106.973		
200.0	200.0	195.0	195.0	1.7	6.6	-109.22	-228.6	-655.9	694.6	684.7	9.96	69.759		
300.0	300.0	295.0	295.0	2.1	9.3	-109.22	-228.6	-655.9	694.6	680.8	13.84	50.184		
400.0	400.0	395.0	395.0	2.4	12.2	-109.22	-228.6	-655.9	694.6	676.8	17.87	38.878		
500.0	500.0	495.0	495.0	2.7	15.2	-109.22	-228.6	-655.9	694.6	672.7	21.95	31.641		
600.0	600.0	595.2	595.0	3.0	18.1	-109.22	-228.6	-655.9	694.6	668.6	26.08	26.632		
700.0	700.0	695.2	695.0	3.2	21.1	-109.22	-228.6	-655.9	694.6	664.4	30.22	22.986		
754.6	754.6	749.8	749.5	3.4	22.7	-108.96	-225.4	-655.9	693.6	661.1	32.49	21.350 CC		
800.0	800.0	794.2	793.9	3.5	24.0	-108.97	-225.5	-655.9	693.6	659.3	34.33	20.204		
900.0	900.0	892.1	891.7	3.7	26.9	-109.04	-226.4	-655.9	693.9	655.5	38.40	18.071		
1,000.0	1,000.0	990.0	989.6	3.9	29.9	-109.20	-228.4	-655.9	694.6	652.1	42.48	16.352		
1,100.0	1,100.0	1,095.6	1,095.0	4.1	33.0	-109.22	-228.6	-655.9	694.6	647.8	46.87	14.819		
1,200.0	1,200.0	1,195.6	1,195.0	4.3	36.0	-109.22	-228.6	-655.9	694.6	643.6	51.04	13.608		
1,254.3	1,254.3	1,249.9	1,249.3	4.4	37.6	-109.13	-227.5	-655.9	694.3	641.0	53.31	13.023		
1,300.0	1,300.0	1,295.2	1,294.6	4.5	39.0	-109.13	-227.6	-655.9	694.3	639.1	55.20	12.577		
1,400.0	1,400.0	1,394.4	1,393.9	4.7	41.9	-109.16	-227.9	-655.9	694.4	635.1	59.35	11.701		
1,500.0	1,500.0	1,493.7	1,493.1	4.8	44.9	-109.21	-228.6	-655.9	694.6	631.1	63.49	10.940		
1,600.0	1,600.0	1,595.9	1,595.0	5.0	48.0	-109.22	-228.6	-655.9	694.6	626.9	67.76	10.251		
1,700.0	1,700.0	1,695.9	1,695.0	5.2	51.0	-109.22	-228.6	-655.9	694.6	622.7	71.94	9.656		
1,754.1	1,754.1	1,749.9	1,749.0	5.3	52.6	-108.96	-225.4	-655.9	693.6	619.4	74.20	9.347		
1,800.0	1,800.0	1,794.9	1,793.9	5.3	53.9	-108.97	-225.5	-655.9	693.6	617.5	76.08	9.117		
1,900.0	1,900.0	1,892.7	1,891.7	5.5	56.9	-109.04	-226.4	-655.9	693.9	613.8	80.17	8.656		
2,000.0	2,000.0	1,990.7	1,989.6	5.6	59.8	-109.20	-228.4	-655.9	694.6	610.3	84.26	8.243		
2,100.0	2,100.0	2,096.2	2,095.0	5.8	63.0	-109.22	-228.6	-655.9	694.6	606.0	88.68	7.833		
2,200.0	2,200.0	2,196.2	2,195.0	5.9	66.0	-109.22	-228.6	-655.9	694.6	601.8	92.86	7.481		
2,254.1	2,254.1	2,250.3	2,249.0	6.0	67.6	-109.13	-227.5	-655.9	694.3	599.2	95.12	7.299		
2,300.0	2,300.0	2,295.9	2,294.6	6.1	68.9	-109.13	-227.6	-655.9	694.3	597.3	97.03	7.156		
2,400.0	2,400.0	2,395.1	2,393.9	6.2	71.9	-109.16	-227.9	-655.9	694.4	593.2	101.18	6.863		
2,500.0	2,500.0	2,494.3	2,493.1	6.4	74.9	-109.21	-228.6	-655.9	694.6	589.3	105.33	6.595		
2,600.0	2,600.0	2,596.5	2,595.0	6.5	78.0	-109.22	-228.6	-655.9	694.6	585.0	109.60	6.338		
2,700.0	2,700.0	2,696.5	2,695.0	6.6	81.0	-109.22	-228.6	-655.9	694.6	580.8	113.79	6.105		
2,753.3	2,753.3	2,749.9	2,748.2	6.7	82.6	-108.96	-225.4	-655.9	693.6	577.5	116.02	5.978		
2,800.0	2,800.0	2,795.5	2,793.9	6.8	83.9	-108.97	-225.5	-655.9	693.6	575.7	117.93	5.882		
2,900.0	2,900.0	2,893.4	2,891.7	6.9	86.9	-109.05	-226.4	-655.9	693.9	571.9	122.02	5.687		
3,000.0	3,000.0	2,991.3	2,989.5	7.1	89.8	-109.20	-228.4	-655.9	694.6	568.5	126.12	5.507		
3,100.0	3,100.0	3,096.9	3,095.0	7.2	93.0	-109.22	-228.6	-655.9	694.6	564.1	130.54	5.321		
3,200.0	3,200.0	3,196.9	3,195.0	7.3	96.0	-109.22	-228.6	-655.9	694.6	559.9	134.72	5.156		
3,253.0	3,253.0	3,249.9	3,248.0	7.4	97.5	-109.13	-227.5	-655.9	694.3	557.3	136.94	5.070		
3,300.0	3,300.0	3,296.5	3,294.6	7.4	98.9	-109.13	-227.6	-655.9	694.3	555.4	138.89	4.999		
3,400.0	3,400.0	3,395.7	3,393.8	7.6	101.9	-109.16	-227.9	-655.9	694.4	551.4	143.04	4.854		
3,500.0	3,500.0	3,495.0	3,493.1	7.7	104.9	-109.21	-228.6	-655.9	694.6	547.4	147.20	4.719		
3,600.0	3,600.0	3,597.2	3,595.0	7.8	108.0	-109.22	-228.6	-655.9	694.6	543.2	151.47	4.586		
3,700.0	3,700.0	3,697.2	3,695.0	7.9	111.0	-109.22	-228.6	-655.9	694.6	539.0	155.66	4.463		
3,753.0	3,753.0	3,750.2	3,747.9	8.0	112.5	-108.96	-225.4	-655.9	693.6	535.7	157.88	4.393		
3,800.0	3,800.0	3,796.2	3,793.9	8.1	113.9	-108.97	-225.5	-655.9	693.6	533.8	159.80	4.340		
3,900.0	3,900.0	3,894.0	3,891.7	8.2	116.9	-109.05	-226.5	-655.9	693.9	530.0	163.90	4.234		
4,000.0	4,000.0	3,992.0	3,989.5	8.3	119.8	-109.20	-228.4	-655.9	694.6	526.6	167.99	4.135		
4,100.0	4,100.0	4,097.5	4,095.0	8.5	123.0	-128.69	-228.6	-655.9	695.7	523.3	172.42	4.035		
4,200.0	4,199.8	4,197.4	4,194.8	8.7	126.0	-128.97	-228.6	-655.9	699.0	522.4	176.60	3.958 ES		
4,300.0	4,299.5	4,296.6	4,294.1	8.9	128.9	-129.36	-227.6	-655.9	704.2	523.4	180.75	3.896		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WILDER-FEDERAL 9-X - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 500-INC ONLY													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,400.0	4,398.7	4,395.0	4,392.4	9.1	131.9	-130.01	-227.9	-655.9	712.1	527.2	184.87	3.852		
4,500.0	4,497.5	4,492.8	4,490.2	9.3	134.8	-130.83	-228.6	-655.9	722.6	533.6	188.97	3.824		
4,555.9	4,552.4	4,550.3	4,547.4	9.4	136.5	-131.36	-228.6	-655.9	729.4	538.0	191.38	3.811		
4,600.0	4,595.7	4,593.6	4,590.7	9.5	137.8	-131.85	-228.6	-655.9	735.1	541.9	193.19	3.805		
4,700.0	4,693.8	4,691.7	4,688.8	9.7	140.8	-132.94	-228.6	-655.9	748.2	550.9	197.30	3.792 SF		
4,800.0	4,791.9	4,696.0	4,693.0	9.9	140.9	-132.99	-228.6	-655.9	767.4	571.4	196.03	3.915		
4,900.0	4,890.1	4,696.0	4,693.0	10.2	140.9	-132.99	-228.6	-655.9	798.7	606.9	191.77	4.165		
5,000.0	4,988.2	4,696.0	4,693.0	10.4	140.9	-132.99	-228.6	-655.9	840.8	655.3	185.50	4.533		
5,100.0	5,086.3	4,696.0	4,693.0	10.7	140.9	-132.99	-228.6	-655.9	892.2	714.2	178.04	5.011		
5,200.0	5,184.4	4,696.0	4,693.0	11.0	140.9	-132.99	-228.6	-655.9	951.3	781.3	170.05	5.595		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 401H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 205-r.5 MWD												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	25.3	25.3	0.0	3.0	-78.57	189.3	-936.5	955.5	950.8	4.68	204.155	
100.0	100.0	122.4	122.4	1.2	3.3	-78.59	189.0	-936.8	955.7	950.4	5.33	179.411	
200.0	200.0	220.0	220.0	1.7	3.8	-78.63	188.5	-937.4	956.2	950.0	6.23	153.558	
300.0	300.0	320.1	320.1	2.1	4.3	-78.68	187.7	-938.2	956.8	949.7	7.11	134.491	
400.0	400.0	420.7	420.7	2.4	4.8	-78.73	187.0	-939.0	957.4	949.4	8.00	119.674	
500.0	500.0	522.8	522.8	2.7	5.3	-78.78	186.4	-939.6	957.9	949.1	8.76	109.344	
600.0	600.0	622.7	622.6	3.0	5.8	-78.82	185.7	-940.0	958.2	948.7	9.47	101.161	
700.0	700.0	719.7	719.7	3.2	6.2	-78.88	184.9	-940.6	958.7	948.6	10.11	94.832	
800.0	800.0	813.5	813.5	3.5	6.5	-78.95	183.8	-941.7	959.6	949.0	10.58	90.660	
900.0	900.0	909.7	909.7	3.7	6.8	-79.03	182.9	-943.5	961.2	950.2	11.05	87.009	
1,000.0	1,000.0	1,013.3	1,013.2	3.9	7.2	-79.09	182.2	-945.3	962.7	951.0	11.72	82.137	
1,100.0	1,100.0	1,273.1	1,272.2	4.1	28.8	-78.88	183.0	-930.9	959.9	939.2	20.64	46.499	
1,200.0	1,200.0	1,359.6	1,357.8	4.3	26.9	-78.64	184.5	-918.5	946.0	926.0	20.09	47.081	
1,300.0	1,300.0	1,462.4	1,459.4	4.5	27.0	-78.32	186.8	-903.3	932.0	911.6	20.46	45.547	
1,400.0	1,400.0	1,579.2	1,574.7	4.7	27.1	-77.85	190.3	-884.4	916.8	895.9	20.92	43.819	
1,500.0	1,500.0	1,698.1	1,691.4	4.8	27.2	-77.26	195.0	-862.4	899.5	878.1	21.45	41.940	
1,600.0	1,600.0	1,818.2	1,808.7	5.0	27.3	-76.53	200.5	-837.1	880.0	857.9	22.03	39.943	
1,700.0	1,700.0	1,956.7	1,942.3	5.2	27.4	-75.44	208.3	-801.9	856.3	833.7	22.53	38.012	
1,800.0	1,800.0	2,056.0	2,037.4	5.3	27.5	-74.49	214.8	-774.2	830.8	807.8	23.02	36.088	
1,900.0	1,900.0	2,150.0	2,127.6	5.5	27.6	-73.57	220.5	-748.1	805.5	782.0	23.55	34.210	
2,000.0	2,000.0	2,242.2	2,216.1	5.6	27.6	-72.64	226.0	-722.8	780.8	756.7	24.10	32.393	
2,100.0	2,100.0	2,335.9	2,306.5	5.8	27.7	-71.81	229.5	-698.2	756.8	732.1	24.64	30.712	
2,200.0	2,200.0	2,428.0	2,395.4	5.9	27.8	-71.01	232.1	-674.5	733.1	707.9	25.18	29.113	
2,300.0	2,300.0	2,518.4	2,483.0	6.1	27.9	-70.18	235.0	-652.1	710.7	684.9	25.75	27.604	
2,400.0	2,400.0	2,615.9	2,577.5	6.2	28.0	-69.24	238.1	-628.2	688.7	662.3	26.34	26.147	
2,500.0	2,500.0	2,713.1	2,671.6	6.4	28.1	-68.25	241.1	-604.3	666.7	639.7	26.96	24.730	
2,600.0	2,600.0	2,809.1	2,764.7	6.5	28.2	-67.26	243.5	-581.0	645.0	617.5	27.59	23.380	
2,700.0	2,700.0	2,901.3	2,854.2	6.6	28.3	-66.30	245.4	-559.0	623.8	595.6	28.23	22.099	
2,800.0	2,800.0	2,997.0	2,947.4	6.8	28.4	-65.25	247.7	-537.2	603.9	575.0	28.89	20.903	
2,900.0	2,900.0	3,100.0	3,047.4	6.9	28.5	-64.01	250.0	-512.8	583.3	553.7	29.59	19.709	
3,000.0	3,000.0	3,195.5	3,140.1	7.1	28.7	-62.82	251.6	-490.1	562.6	532.3	30.31	18.560	
3,100.0	3,100.0	3,294.3	3,236.2	7.2	28.8	-61.51	253.4	-466.9	542.5	511.5	31.06	17.468	
3,200.0	3,200.0	3,393.5	3,332.3	7.3	28.9	-59.95	255.9	-442.4	522.0	490.2	31.88	16.377	
3,300.0	3,300.0	3,488.3	3,424.1	7.4	29.1	-58.32	258.6	-419.0	502.0	469.3	32.73	15.336	
3,400.0	3,400.0	3,582.3	3,515.2	7.6	29.2	-56.61	261.3	-396.3	483.0	449.4	33.61	14.370	
3,500.0	3,500.0	3,683.8	3,613.8	7.7	29.4	-54.62	264.2	-372.0	464.6	430.1	34.53	13.455	
3,600.0	3,600.0	3,783.5	3,710.2	7.8	29.5	-52.41	266.9	-346.7	445.6	410.1	35.51	12.548	
3,700.0	3,700.0	3,878.8	3,802.4	7.9	29.7	-50.16	269.2	-322.7	427.1	390.6	36.50	11.700	
3,800.0	3,800.0	3,972.9	3,893.6	8.1	29.9	-47.84	271.4	-299.7	409.9	372.4	37.50	10.929	
3,900.0	3,900.0	4,069.5	3,987.5	8.2	30.0	-45.38	273.3	-276.9	393.9	355.4	38.49	10.234	
4,000.0	4,000.0	4,166.3	4,081.7	8.3	30.2	-42.89	274.5	-254.9	378.7	339.3	39.45	9.601	
4,100.0	4,100.0	4,266.5	4,179.2	8.5	30.4	-59.94	275.8	-231.8	363.3	322.9	40.39	8.995	
4,200.0	4,199.8	4,367.5	4,276.8	8.7	30.6	-57.44	278.0	-205.9	345.9	304.5	41.34	8.367	
4,300.0	4,299.5	4,466.4	4,372.2	8.9	30.8	-55.16	279.8	-179.8	326.5	284.3	42.22	7.734	
4,400.0	4,398.7	4,562.0	4,464.7	9.1	31.0	-53.43	280.7	-155.5	305.7	262.7	42.98	7.113	
4,500.0	4,497.5	4,657.9	4,557.6	9.3	31.2	-52.13	281.4	-132.0	283.5	239.9	43.64	6.498	
4,555.9	4,552.4	4,710.6	4,608.9	9.4	31.3	-51.70	281.7	-119.9	270.6	226.7	43.95	6.159	
4,600.0	4,595.7	4,752.3	4,649.5	9.5	31.4	-51.33	281.9	-110.7	260.5	216.3	44.16	5.898	
4,700.0	4,693.8	4,848.9	4,744.0	9.7	31.5	-50.52	282.4	-90.2	237.8	193.2	44.63	5.329	
4,800.0	4,791.9	4,944.4	4,837.3	9.9	31.7	-49.58	283.1	-70.3	215.5	170.4	45.10	4.779	
4,900.0	4,890.1	5,041.3	4,931.8	10.2	31.9	-47.89	285.3	-48.9	194.2	148.5	45.70	4.250	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 401H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 205-r.5 MWD		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
5,000.0	4,988.2	5,137.8	5,025.4	10.4	32.1	-44.90	289.1	-25.4	173.5	127.0	46.45	3.734		
5,100.0	5,086.3	5,234.4	5,118.9	10.7	32.3	-41.01	293.4	-1.9	153.9	106.6	47.25	3.257		
5,200.0	5,184.4	5,331.0	5,212.8	11.0	32.5	-36.49	298.0	20.6	135.7	87.8	47.98	2.829	Normal Operations	
5,300.0	5,282.6	5,428.6	5,307.6	11.3	32.8	-30.61	303.0	43.1	119.1	70.4	48.64	2.448	Caution - Monitor Closely	
5,400.0	5,380.7	5,526.8	5,402.5	11.6	33.0	-21.64	308.1	68.1	104.0	54.9	49.08	2.118	Caution - Monitor Closely	
5,500.0	5,478.8	5,623.7	5,495.6	12.0	33.3	-9.29	312.9	94.3	92.3	43.6	48.73	1.894	Caution - Monitor Closely	
5,600.0	5,576.9	5,721.5	5,589.8	12.3	33.5	5.21	317.6	120.0	85.7	38.5	47.23	1.815	Caution - Monitor Closely, ES, SF	
5,685.9	5,661.2	5,806.0	5,671.8	12.6	33.7	17.83	321.8	140.5	84.1	38.7	45.38	1.853	Caution - Monitor Closely, CC	
5,700.0	5,675.0	5,819.8	5,685.1	12.6	33.8	19.82	322.5	143.7	84.1	39.1	45.06	1.867	Caution - Monitor Closely	
5,800.0	5,773.2	5,916.6	5,778.9	13.0	34.0	33.72	327.4	166.9	88.1	45.2	42.93	2.052	Caution - Monitor Closely	
5,900.0	5,871.3	6,013.1	5,872.2	13.3	34.3	46.15	332.1	191.2	98.1	56.4	41.65	2.355	Caution - Monitor Closely	
5,924.3	5,895.1	6,036.8	5,895.1	13.4	34.3	48.78	333.3	197.2	101.2	59.7	41.51	2.438	Caution - Monitor Closely	
6,000.0	5,969.5	6,110.7	5,966.5	13.7	34.5	55.73	337.4	215.9	112.4	70.9	41.46	2.711	Normal Operations	
6,100.0	6,068.0	6,207.7	6,060.2	14.0	34.8	63.03	341.4	240.6	130.0	88.1	41.89	3.103		
6,200.0	6,166.8	6,304.4	6,153.5	14.4	35.1	68.25	344.8	265.9	150.2	107.6	42.59	3.527		
6,300.0	6,265.9	6,402.3	6,248.0	14.8	35.3	71.56	348.9	291.2	171.7	128.3	43.36	3.960		
6,400.0	6,365.2	6,499.6	6,341.9	15.1	35.6	73.53	353.4	316.2	193.8	149.7	44.09	4.395		
6,500.0	6,464.7	6,597.0	6,435.9	15.5	35.9	75.15	356.2	341.4	216.8	171.9	44.82	4.836		
6,600.0	6,564.3	6,696.4	6,532.2	15.8	36.2	76.17	358.9	366.3	239.4	193.9	45.53	5.259		
6,700.0	6,664.1	6,796.7	6,629.4	16.1	36.5	76.63	361.8	390.8	261.9	215.7	46.20	5.668		
6,800.0	6,763.9	6,893.2	6,723.2	16.4	36.7	76.67	364.9	413.2	283.6	236.7	46.82	6.057		
6,900.0	6,863.9	6,985.6	6,812.6	16.7	37.0	76.53	367.2	436.3	307.4	260.0	47.40	6.485		
7,000.0	6,963.9	7,086.9	6,910.6	16.9	37.3	76.08	369.8	462.0	332.0	284.0	48.05	6.910		
7,036.1	7,000.0	7,126.1	6,948.6	17.0	37.4	95.23	370.9	471.2	340.4	292.1	48.29	7.050		
7,100.0	7,063.9	7,181.3	7,002.2	17.0	37.6	94.80	372.3	484.5	355.5	306.9	48.63	7.311		
7,200.0	7,163.9	7,275.1	7,092.9	17.1	37.8	94.18	374.2	508.7	381.1	331.9	49.23	7.741		
7,300.0	7,263.9	7,367.6	7,182.2	17.1	38.1	93.64	376.2	532.4	406.7	356.8	49.83	8.161		
7,400.0	7,363.9	7,470.1	7,280.9	17.2	38.5	93.06	378.7	560.0	433.4	382.9	50.53	8.577		
7,500.0	7,463.9	7,573.3	7,381.0	17.3	38.8	92.54	381.4	584.9	457.4	406.1	51.23	8.928		
7,600.0	7,563.9	7,665.9	7,470.9	17.4	39.1	92.13	383.8	607.1	481.3	429.4	51.85	9.282		
7,700.0	7,663.9	7,759.8	7,561.6	17.4	39.4	91.74	386.2	631.2	506.9	454.4	52.47	9.661		
7,800.0	7,763.9	7,875.7	7,674.1	17.5	39.7	91.34	389.0	658.9	530.7	477.5	53.23	9.971		
7,900.0	7,863.9	7,961.7	7,757.8	17.6	40.0	91.07	391.1	678.5	553.5	499.6	53.81	10.285		
8,000.0	7,963.9	8,064.7	7,857.8	17.6	40.3	90.71	394.1	702.8	577.1	522.6	54.48	10.592		
8,100.0	8,063.9	8,176.6	7,967.1	17.7	40.6	90.40	397.0	726.8	598.5	543.3	55.17	10.847		
8,200.0	8,163.9	8,267.7	8,056.0	17.8	40.8	90.11	400.0	746.1	619.7	563.9	55.78	11.109		
8,300.0	8,263.9	8,376.0	8,161.9	17.8	41.1	89.75	403.9	768.7	640.6	584.1	56.44	11.349		
8,400.0	8,363.9	8,490.2	8,274.0	17.9	41.4	89.45	407.4	790.1	659.3	602.2	57.09	11.548		
8,500.0	8,463.9	8,611.2	8,393.4	18.0	41.6	89.20	410.5	809.6	675.5	617.8	57.69	11.708		
8,600.0	8,563.9	8,738.9	8,520.1	18.1	41.9	88.98	413.3	825.1	687.7	629.5	58.19	11.818		
8,700.0	8,663.9	8,849.0	8,629.7	18.1	42.0	88.83	415.2	835.5	697.2	638.5	58.67	11.884		
8,800.0	8,763.9	8,961.9	8,742.2	18.2	42.1	88.75	416.4	844.3	705.0	645.9	59.10	11.929		
8,900.0	8,863.9	9,075.9	8,856.1	18.3	42.2	88.68	417.5	850.7	710.6	651.2	59.47	11.950		
9,000.0	8,963.9	9,197.8	8,977.9	18.3	42.3	88.63	418.2	854.8	714.0	654.3	59.69	11.961		
9,100.0	9,063.9	9,312.2	9,092.3	18.4	42.5	88.65	418.0	855.4	714.5	654.6	59.91	11.926		
9,200.0	9,163.9	9,411.6	9,191.5	18.5	43.1	89.13	412.0	855.2	714.2	652.7	61.53	11.607		
9,259.1	9,222.9	9,469.6	9,249.0	18.5	43.5	89.72	404.6	855.2	714.1	651.6	62.49	11.427		
9,300.0	9,263.9	9,499.4	9,278.3	18.6	43.6	90.12	399.6	855.3	714.4	651.5	62.87	11.362		
9,400.0	9,363.9	9,563.9	9,340.9	18.6	43.7	91.34	384.3	857.9	718.7	655.3	63.39	11.337		
9,500.0	9,463.9	9,631.9	9,405.1	18.7	43.8	93.08	362.3	862.9	727.9	664.0	63.83	11.403		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 401H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	205-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,600.0	9,563.9	9,693.8	9,461.1	18.8	43.9	95.04	336.9	869.4	742.4	678.1	64.22	11.560	
9,700.0	9,663.9	9,790.9	9,545.5	18.9	43.9	98.52	290.3	880.6	761.6	697.1	64.52	11.804	
9,800.0	9,763.9	9,884.2	9,626.8	18.9	44.0	101.79	245.0	888.4	780.7	715.9	64.81	12.046	
9,900.0	9,863.9	9,941.3	9,674.9	19.0	44.1	103.91	214.8	893.4	804.3	739.3	65.04	12.367	
10,000.0	9,963.9	9,999.0	9,721.0	19.1	44.2	106.20	180.7	899.5	834.3	769.1	65.18	12.801	
10,100.0	10,063.9	10,035.5	9,748.7	19.1	44.2	107.73	157.3	903.8	870.4	805.4	65.01	13.389	
10,200.0	10,163.9	10,071.4	9,774.7	19.2	44.2	109.27	132.9	908.3	912.7	848.0	64.68	14.112	
10,300.0	10,263.9	10,093.0	9,789.5	19.3	44.2	110.21	117.5	911.4	961.3	897.2	64.07	15.004	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 205-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	32.7	32.7	0.0	3.0	-80.52	156.4	-936.2	949.2	944.5	4.69	202.483	
100.0	100.0	131.9	131.9	1.2	3.3	-80.52	156.4	-936.3	949.3	943.9	5.34	177.914	
200.0	200.0	229.7	229.7	1.7	3.7	-80.52	156.4	-936.5	949.4	943.2	6.20	153.258	
300.0	300.0	323.4	323.3	2.1	4.2	-80.51	156.7	-937.1	950.1	943.1	7.06	134.554	
400.0	400.0	417.5	417.5	2.4	4.8	-80.48	157.3	-938.3	951.5	943.5	7.93	119.947	
500.0	500.0	513.0	513.0	2.7	5.2	-80.47	157.8	-940.0	953.3	944.6	8.69	109.742	
600.0	600.0	611.5	611.4	3.0	5.7	-80.48	158.0	-942.2	955.6	946.2	9.44	101.257	
700.0	700.0	717.5	717.4	3.2	6.1	-80.52	157.8	-944.4	957.6	947.4	10.16	94.244	
800.0	800.0	821.8	821.8	3.5	6.4	-80.59	156.8	-945.9	958.9	948.2	10.69	89.714	
900.0	900.0	945.8	945.7	3.7	6.9	-80.64	156.0	-946.5	959.3	948.1	11.23	85.443	
1,000.0	1,000.0	1,074.0	1,073.8	3.9	7.2	-80.48	158.0	-942.4	956.5	944.9	11.56	82.760	
1,100.0	1,100.0	1,240.2	1,239.4	4.1	7.3	-80.06	162.7	-928.5	948.6	936.7	11.90	79.693	
1,200.0	1,200.0	1,352.8	1,350.9	4.3	7.4	-79.68	166.5	-914.0	936.5	924.4	12.13	77.220	
1,300.0	1,300.0	1,445.0	1,442.3	4.5	7.5	-79.36	169.5	-901.8	924.0	911.7	12.37	74.698	
1,400.0	1,400.0	1,539.0	1,535.5	4.7	7.6	-78.99	173.3	-890.1	912.6	900.0	12.63	72.241	
1,500.0	1,500.0	1,634.9	1,630.7	4.8	7.8	-78.69	175.8	-879.3	902.0	889.1	12.91	69.851	
1,600.0	1,600.0	1,736.0	1,731.1	5.0	7.9	-78.51	176.3	-867.9	891.1	877.9	13.21	67.463	
1,700.0	1,700.0	1,839.3	1,833.7	5.2	8.0	-78.27	177.7	-855.7	879.8	866.3	13.52	65.052	
1,800.0	1,800.0	1,938.1	1,931.7	5.3	8.1	-77.89	181.0	-843.6	868.4	854.5	13.86	62.672	
1,900.0	1,900.0	2,037.6	2,030.3	5.5	8.3	-77.43	185.3	-831.1	857.0	842.8	14.20	60.366	
2,000.0	2,000.0	2,136.9	2,128.8	5.6	8.4	-76.95	189.8	-818.5	845.7	831.1	14.55	58.142	
2,100.0	2,100.0	2,235.8	2,226.7	5.8	8.6	-76.44	194.4	-806.0	834.4	819.5	14.91	55.944	
2,200.0	2,200.0	2,339.1	2,329.1	5.9	8.9	-75.90	199.1	-792.9	823.1	807.8	15.29	53.831	
2,300.0	2,300.0	2,445.9	2,434.8	6.1	9.2	-75.40	202.7	-778.5	810.9	795.2	15.69	51.683	
2,400.0	2,400.0	2,547.3	2,535.2	6.2	9.5	-74.92	206.0	-764.3	798.2	782.1	16.09	49.595	
2,500.0	2,500.0	2,650.8	2,637.6	6.4	9.8	-74.38	209.5	-749.4	785.2	768.7	16.51	47.553	
2,600.0	2,600.0	2,744.8	2,730.6	6.5	10.1	-73.92	212.2	-735.9	772.1	755.1	16.92	45.619	
2,700.0	2,700.0	2,833.9	2,818.9	6.6	10.4	-73.59	213.4	-724.4	760.0	742.7	17.33	43.867	
2,800.0	2,800.0	2,920.1	2,904.5	6.8	10.6	-73.31	214.3	-714.7	749.6	731.9	17.72	42.312	
2,900.0	2,900.0	3,012.5	2,996.5	6.9	10.9	-73.00	215.8	-705.7	740.7	722.6	18.11	40.901	
3,000.0	3,000.0	3,109.4	3,093.0	7.1	11.2	-72.69	217.1	-696.8	732.3	713.8	18.51	39.559	
3,100.0	3,100.0	3,211.4	3,194.5	7.2	11.5	-72.34	218.8	-687.5	724.1	705.2	18.93	38.254	
3,200.0	3,200.0	3,315.8	3,298.3	7.3	11.9	-71.84	221.9	-676.8	715.3	695.9	19.35	36.968	
3,300.0	3,300.0	3,416.9	3,398.8	7.4	12.2	-71.31	225.3	-665.9	706.0	686.3	19.76	35.725	
3,400.0	3,400.0	3,513.7	3,495.0	7.6	12.6	-70.80	228.3	-655.5	696.9	676.7	20.16	34.559	
3,500.0	3,500.0	3,620.5	3,601.0	7.7	12.9	-70.18	232.0	-643.6	687.5	666.9	20.59	33.389	
3,600.0	3,600.0	3,720.7	3,700.5	7.8	13.3	-69.55	235.6	-631.7	677.5	656.5	21.01	32.255	
3,700.0	3,700.0	3,814.8	3,793.9	7.9	13.6	-68.96	238.9	-621.0	668.1	646.7	21.40	31.225	
3,800.0	3,800.0	3,927.7	3,905.9	8.1	14.0	-68.24	242.4	-607.4	658.0	636.2	21.85	30.115	
3,900.0	3,900.0	4,034.5	4,011.6	8.2	14.4	-67.56	244.9	-592.8	646.2	623.9	22.30	28.977	
4,000.0	4,000.0	4,132.7	4,108.9	8.3	14.8	-66.94	246.5	-579.2	634.0	611.3	22.74	27.884	
4,100.0	4,100.0	4,231.2	4,206.6	8.5	15.2	-86.14	247.8	-566.1	622.2	599.0	23.19	26.833	
4,200.0	4,199.8	4,332.9	4,307.3	8.7	15.6	-86.34	248.3	-552.5	609.7	586.1	23.67	25.756	
4,300.0	4,299.5	4,428.5	4,402.1	8.9	15.9	-86.91	248.3	-539.9	597.1	572.9	24.18	24.698	
4,400.0	4,398.7	4,522.0	4,494.8	9.1	16.3	-87.67	250.0	-527.9	585.2	560.6	24.68	23.713	
4,500.0	4,497.5	4,615.7	4,587.8	9.3	16.6	-88.70	252.4	-516.4	574.2	549.0	25.20	22.784	
4,555.9	4,552.4	4,669.4	4,641.1	9.4	16.8	-89.47	253.7	-510.2	568.5	543.0	25.50	22.294	
4,600.0	4,595.7	4,716.8	4,688.1	9.5	17.0	-90.07	255.1	-504.6	563.9	538.1	25.76	21.888	
4,700.0	4,693.8	4,821.2	4,791.5	9.7	17.5	-91.33	258.8	-490.8	552.6	526.3	26.38	20.953	
4,800.0	4,791.9	4,920.3	4,889.6	9.9	17.8	-92.50	262.8	-477.0	541.2	514.2	26.97	20.062	
4,900.0	4,890.1	5,017.9	4,986.1	10.2	18.2	-93.67	267.1	-463.5	530.1	502.5	27.58	19.219	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 205-r.5 MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,988.2	5,115.5	5,082.7	10.4	18.6	-94.86	271.7	-450.1	519.4	491.2	28.19	18.423		
5,100.0	5,086.3	5,217.3	5,183.5	10.7	19.0	-96.23	275.7	-436.2	508.9	480.1	28.85	17.642		
5,200.0	5,184.4	5,316.4	5,281.6	11.0	19.4	-97.73	278.7	-422.5	498.2	468.7	29.53	16.872		
5,300.0	5,282.6	5,414.1	5,378.3	11.3	19.8	-99.24	281.8	-408.9	488.0	457.8	30.22	16.149		
5,400.0	5,380.7	5,508.2	5,471.5	11.6	20.2	-100.71	285.3	-396.3	478.6	447.7	30.90	15.491		
5,500.0	5,478.8	5,600.7	5,563.3	12.0	20.6	-102.24	288.6	-385.0	470.8	439.2	31.58	14.909		
5,600.0	5,576.9	5,694.8	5,656.8	12.3	21.0	-103.96	291.1	-374.8	464.5	432.3	32.27	14.395		
5,700.0	5,675.0	5,792.0	5,753.4	12.6	21.3	-105.77	293.9	-364.8	459.4	426.5	32.98	13.931		
5,800.0	5,773.2	5,889.6	5,850.4	13.0	21.7	-107.58	297.1	-355.0	455.1	421.4	33.69	13.507		
5,900.0	5,871.3	5,987.4	5,947.7	13.3	22.1	-109.38	300.5	-345.5	451.5	417.1	34.41	13.121		
5,924.3	5,895.1	6,013.2	5,973.4	13.4	22.2	-109.86	301.5	-343.0	450.6	416.1	34.59	13.029		
6,000.0	5,969.5	6,095.7	6,055.3	13.7	22.5	-111.32	304.4	-333.9	447.2	412.0	35.18	12.713		
6,100.0	6,068.0	6,196.3	6,155.2	14.0	22.9	-112.99	307.6	-321.9	441.5	405.6	35.93	12.286		
6,200.0	6,166.8	6,294.0	6,252.1	14.4	23.3	-114.43	310.8	-310.2	435.5	398.8	36.66	11.878		
6,300.0	6,265.9	6,391.2	6,348.6	14.8	23.7	-115.67	314.2	-299.0	429.4	392.0	37.36	11.492		
6,400.0	6,365.2	6,488.3	6,445.1	15.1	24.1	-116.72	317.7	-288.3	423.3	385.3	38.04	11.127		
6,500.0	6,464.7	6,586.9	6,543.0	15.5	24.5	-117.57	321.4	-277.8	416.9	378.2	38.71	10.770		
6,600.0	6,564.3	6,687.0	6,642.5	15.8	24.9	-118.22	325.3	-267.6	410.1	370.8	39.37	10.418		
6,700.0	6,664.1	6,791.0	6,745.7	16.1	25.3	-118.79	328.8	-255.7	401.5	361.5	40.05	10.026		
6,800.0	6,763.9	6,888.6	6,842.6	16.4	25.7	-119.18	331.7	-244.3	391.9	351.2	40.68	9.633		
6,900.0	6,863.9	6,988.2	6,941.6	16.7	26.1	-119.40	334.4	-233.2	382.1	340.7	41.30	9.250		
7,000.0	6,963.9	7,088.3	7,041.0	16.9	26.5	-119.57	336.1	-221.3	370.8	328.9	41.92	8.845		
7,036.1	7,000.0	7,124.0	7,076.4	17.0	26.6	-100.21	336.6	-217.1	366.6	324.4	42.12	8.703		
7,100.0	7,063.9	7,185.8	7,137.9	17.0	26.9	-100.28	337.4	-210.0	359.2	316.7	42.46	8.459		
7,200.0	7,163.9	7,282.0	7,233.4	17.1	27.2	-100.36	338.9	-199.5	348.2	305.2	42.99	8.098		
7,300.0	7,263.9	7,378.9	7,329.8	17.1	27.6	-100.41	340.3	-189.9	338.1	294.6	43.51	7.770		
7,400.0	7,363.9	7,484.8	7,435.1	17.2	28.0	-100.43	342.2	-179.0	327.7	283.6	44.12	7.429		
7,500.0	7,463.9	7,584.3	7,533.9	17.3	28.4	-100.53	343.8	-167.3	315.8	271.2	44.68	7.068		
7,600.0	7,563.9	7,685.8	7,634.8	17.4	28.8	-100.63	345.5	-155.2	303.8	258.5	45.27	6.711		
7,700.0	7,663.9	7,783.0	7,731.2	17.4	29.2	-100.64	347.6	-143.6	291.7	245.9	45.82	6.366		
7,800.0	7,763.9	7,880.7	7,828.2	17.5	29.6	-100.63	349.7	-132.7	280.3	233.9	46.37	6.046		
7,900.0	7,863.9	7,986.1	7,932.8	17.6	30.1	-100.62	352.2	-119.7	267.8	220.8	46.98	5.700		
8,000.0	7,963.9	8,083.8	8,029.7	17.6	30.5	-100.60	354.6	-107.1	254.6	207.1	47.55	5.355		
8,100.0	8,063.9	8,181.1	8,126.2	17.7	30.9	-100.51	357.3	-95.2	242.1	194.0	48.10	5.034		
8,200.0	8,163.9	8,278.6	8,223.0	17.8	31.3	-100.38	359.8	-84.1	230.4	181.7	48.64	4.737		
8,300.0	8,263.9	8,377.4	8,321.2	17.8	31.7	-100.28	362.2	-73.4	219.3	170.2	49.18	4.460		
8,400.0	8,363.9	8,478.3	8,421.5	17.9	32.1	-100.16	364.7	-62.0	207.8	158.0	49.75	4.176		
8,500.0	8,463.9	8,576.8	8,519.2	18.0	32.5	-99.73	368.2	-50.8	196.0	145.7	50.27	3.898		
8,600.0	8,563.9	8,675.7	8,617.5	18.1	32.9	-99.20	371.7	-40.4	185.0	134.2	50.78	3.643		
8,700.0	8,663.9	8,774.2	8,715.4	18.1	33.3	-98.48	375.6	-29.7	173.7	122.4	51.26	3.389		
8,800.0	8,763.9	8,871.2	8,811.9	18.2	33.6	-97.71	379.2	-20.7	163.9	112.2	51.70	3.171		
8,900.0	8,863.9	8,968.6	8,908.9	18.3	34.0	-97.27	381.5	-12.6	155.4	103.2	52.14	2.980 Normal Operations		
9,000.0	8,963.9	9,067.6	9,007.7	18.3	34.4	-96.73	383.8	-5.6	148.1	95.6	52.58	2.817 Normal Operations		
9,100.0	9,063.9	9,167.5	9,107.3	18.4	34.7	-96.33	385.6	1.6	140.7	87.7	53.06	2.653 Normal Operations		
9,200.0	9,163.9	9,266.6	9,206.1	18.5	35.1	-96.03	387.1	8.6	133.5	80.0	53.52	2.495 Caution - Monitor Closely		
9,300.0	9,263.9	9,367.9	9,307.2	18.6	35.5	-95.55	388.9	15.9	126.2	72.2	54.01	2.337 Caution - Monitor Closely		
9,400.0	9,363.9	9,468.6	9,407.4	18.6	35.9	-94.95	391.0	24.4	117.6	63.1	54.49	2.158 Caution - Monitor Closely		
9,500.0	9,463.9	9,566.6	9,505.1	18.7	36.2	-94.41	392.7	32.5	109.2	54.3	54.92	1.989 Caution - Monitor Closely		
9,600.0	9,563.9	9,662.6	9,600.9	18.8	36.6	-94.29	393.4	38.0	103.4	48.1	55.29	1.871 Caution - Monitor Closely		
9,700.0	9,663.9	9,760.0	9,698.3	18.9	36.7	-94.56	393.0	39.8	101.6	46.1	55.45	1.832 Caution - Monitor Closely		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 205-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,733.1	9,696.9	9,791.6	9,729.9	18.9	36.7	-94.71	392.8	39.8	101.6	46.2	55.43	1.833	Caution - Monitor Closely
9,800.0	9,763.9	9,858.9	9,797.2	18.9	36.7	-95.10	392.1	40.0	101.5	45.9	55.54	1.827	Caution - Monitor Closely
9,900.0	9,863.9	9,958.7	9,897.0	19.0	36.7	-95.94	390.6	40.4	101.3	45.5	55.74	1.817	Caution - Monitor Closely
9,923.4	9,887.2	9,981.9	9,920.2	19.0	36.7	-96.24	390.1	40.4	101.2	45.5	55.78	1.815	Caution - Monitor Closely, CC
10,000.0	9,963.9	10,058.1	9,996.2	19.1	36.7	-99.08	385.1	41.0	101.4	45.3	56.03	1.809	Caution - Monitor Closely, ES, SF
10,100.0	10,063.9	10,152.8	10,089.0	19.1	36.6	-109.27	366.5	42.2	105.0	49.2	55.88	1.880	Caution - Monitor Closely
10,200.0	10,163.9	10,244.7	10,176.5	19.2	36.6	-122.58	338.9	43.8	117.3	63.3	53.97	2.173	Caution - Monitor Closely
10,300.0	10,263.9	10,332.0	10,257.2	19.3	36.5	-135.44	305.5	47.0	139.9	89.3	50.58	2.766	Normal Operations
10,400.0	10,363.9	10,407.2	10,323.8	19.4	36.5	-145.12	270.8	50.3	174.8	127.8	47.01	3.719	
10,500.0	10,463.9	10,468.0	10,374.2	19.4	36.5	-151.81	237.1	53.2	222.9	178.6	44.30	5.032	
10,600.0	10,563.9	10,532.7	10,424.8	19.5	36.5	-157.25	196.8	55.4	280.5	237.6	42.94	6.533	
10,700.0	10,663.9	10,585.8	10,463.7	19.6	36.6	-160.83	160.9	57.5	345.0	302.8	42.21	8.174	
10,800.0	10,763.9	10,633.6	10,496.7	19.6	36.6	-163.37	126.3	59.0	415.1	373.2	41.94	9.897	
10,900.0	10,863.9	10,678.2	10,526.0	19.7	36.6	-165.13	92.7	59.2	489.3	447.3	41.96	11.661	
11,000.0	10,963.9	10,720.3	10,552.2	19.8	36.7	-166.53	59.7	59.3	566.5	524.4	42.12	13.449	
11,100.0	11,063.9	10,751.0	10,570.6	19.9	36.7	-167.46	35.1	59.7	646.2	603.8	42.40	15.241	
11,200.0	11,163.9	10,798.0	10,596.8	19.9	36.8	-168.79	-3.9	60.8	728.3	685.6	42.73	17.047	
11,300.0	11,263.9	10,798.0	10,596.8	20.0	36.8	-168.79	-3.9	60.8	812.7	769.5	43.17	18.824	
11,400.0	11,363.9	10,845.0	10,620.2	20.1	36.9	-169.99	-44.6	62.4	898.9	855.4	43.56	20.636	
11,500.0	11,463.9	10,845.0	10,620.2	20.2	36.9	-169.99	-44.6	62.4	986.6	942.6	44.05	22.396	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		205-r.5 MWD+IFR1+MS, 4863-r.5 MWD					Rule Assigned:							Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre					Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor			
0.0	0.0	24.3	24.3	0.0	3.0	-82.50	123.3	-936.0	944.1	939.4	4.68	201.775			
100.0	100.0	117.9	117.9	1.2	3.2	-82.48	123.7	-936.5	944.6	939.3	5.30	178.069			
200.0	200.0	211.8	211.8	1.7	3.7	-82.44	124.5	-937.5	945.8	939.6	6.18	152.971			
300.0	300.0	310.2	310.2	2.1	4.2	-82.37	125.7	-938.9	947.4	940.3	7.07	134.059			
400.0	400.0	408.9	408.8	2.4	4.8	-82.30	127.2	-940.4	949.2	941.2	7.98	118.926			
500.0	500.0	509.1	509.0	2.7	5.3	-82.23	128.6	-942.1	950.9	942.2	8.75	108.635			
600.0	600.0	609.2	609.1	3.0	5.8	-82.18	129.6	-943.7	952.7	943.2	9.51	100.184			
700.0	700.0	708.7	708.6	3.2	6.2	-82.14	130.5	-945.4	954.5	944.3	10.20	93.595			
800.0	800.0	807.1	806.9	3.5	6.6	-82.11	131.3	-947.2	956.4	945.6	10.77	88.819			
900.0	900.0	904.3	904.2	3.7	6.7	-82.09	131.9	-949.2	958.6	947.4	11.14	86.054			
1,000.0	1,000.0	1,005.0	1,004.9	3.9	6.9	-82.05	132.8	-951.4	960.9	949.3	11.52	83.423			
1,100.0	1,100.0	1,107.5	1,107.3	4.1	7.1	-82.03	133.6	-953.4	962.9	951.0	11.89	81.011			
1,200.0	1,200.0	1,224.1	1,223.9	4.3	7.4	-82.03	133.7	-955.1	964.4	952.0	12.40	77.796			
1,300.0	1,300.0	1,334.0	1,333.7	4.5	7.5	-82.20	130.8	-954.9	963.8	951.1	12.71	75.845			
1,400.0	1,400.0	1,429.6	1,429.3	4.7	7.6	-82.37	127.9	-954.7	963.2	950.3	12.91	74.584			
1,500.0	1,500.0	1,528.5	1,528.1	4.8	7.7	-82.54	125.1	-954.8	963.0	949.8	13.13	73.329			
1,600.0	1,600.0	1,635.1	1,634.8	5.0	7.7	-82.65	123.0	-954.5	962.4	949.1	13.33	72.209			
1,700.0	1,700.0	1,733.2	1,732.8	5.2	7.8	-82.67	122.7	-953.8	961.6	948.2	13.48	71.333			
1,800.0	1,800.0	1,834.4	1,834.0	5.3	7.8	-82.67	122.5	-953.0	960.8	947.2	13.64	70.462			
1,900.0	1,900.0	1,932.1	1,931.7	5.5	7.8	-82.66	122.7	-952.3	960.1	946.3	13.80	69.563			
2,000.0	2,000.0	2,031.3	2,030.9	5.6	7.9	-82.64	123.0	-951.7	959.6	945.6	13.98	68.645			
2,100.0	2,100.0	2,128.1	2,127.7	5.8	7.9	-82.64	122.9	-951.3	959.2	945.0	14.17	67.705			
2,138.0	2,138.0	2,164.4	2,164.0	5.8	8.0	-82.64	122.8	-951.3	959.2	944.9	14.25	67.314			
2,200.0	2,200.0	2,224.9	2,224.6	5.9	8.0	-82.64	122.8	-951.4	959.3	944.9	14.39	66.665			
2,300.0	2,300.0	2,325.4	2,325.0	6.1	8.1	-82.67	122.5	-951.5	959.4	944.7	14.62	65.606			
2,400.0	2,400.0	2,425.0	2,424.7	6.2	8.2	-82.67	122.5	-951.6	959.5	944.6	14.86	64.583			
2,500.0	2,500.0	2,525.5	2,525.1	6.4	8.3	-82.67	122.5	-951.8	959.6	944.5	15.09	63.578			
2,600.0	2,600.0	2,627.8	2,627.4	6.5	8.4	-82.67	122.4	-951.8	959.6	944.3	15.30	62.701			
2,700.0	2,700.0	2,736.3	2,735.9	6.6	8.5	-82.66	122.5	-951.3	959.2	943.7	15.48	61.962			
2,800.0	2,800.0	2,845.4	2,845.0	6.8	8.5	-82.65	122.5	-949.5	957.6	942.0	15.63	61.249			
2,900.0	2,900.0	2,947.9	2,947.5	6.9	8.5	-82.64	122.3	-947.3	955.5	939.7	15.79	60.501			
3,000.0	3,000.0	3,047.9	3,047.5	7.1	8.6	-82.63	122.3	-945.1	953.2	937.2	15.96	59.735			
3,100.0	3,100.0	3,150.2	3,149.7	7.2	8.6	-82.61	122.2	-942.7	950.8	934.7	16.13	58.938			
3,200.0	3,200.0	3,255.9	3,255.4	7.3	8.7	-82.59	122.2	-939.4	947.8	931.5	16.32	58.078			
3,300.0	3,300.0	3,339.5	3,339.0	7.4	8.8	-82.60	121.7	-937.6	945.6	929.1	16.51	57.285			
3,400.0	3,400.0	3,432.9	3,432.4	7.6	8.8	-82.63	121.2	-936.8	944.6	927.9	16.70	56.559			
3,500.0	3,500.0	3,532.3	3,531.7	7.7	8.9	-82.62	121.3	-936.1	944.0	927.1	16.90	55.851			
3,600.0	3,600.0	3,630.4	3,629.8	7.8	9.0	-82.58	121.8	-935.5	943.4	926.3	17.10	55.177			
3,700.0	3,700.0	3,727.3	3,726.7	7.9	9.1	-82.55	122.3	-935.2	943.2	925.9	17.29	54.542			
3,710.0	3,710.0	3,736.6	3,736.0	8.0	9.1	-82.55	122.3	-935.2	943.2	925.9	17.31	54.485			
3,800.0	3,800.0	3,822.1	3,821.5	8.1	9.1	-82.52	122.7	-935.4	943.5	926.0	17.47	53.989			
3,900.0	3,900.0	3,927.7	3,927.2	8.2	9.2	-82.52	122.9	-935.7	943.7	926.0	17.66	53.431			
4,000.0	4,000.0	4,036.0	4,035.4	8.3	9.3	-82.53	122.6	-935.0	943.0	925.2	17.86	52.796			
4,100.0	4,100.0	4,140.4	4,139.8	8.5	9.4	-102.05	122.2	-933.8	942.2	924.1	18.07	52.143			
4,200.0	4,199.8	4,249.9	4,249.3	8.7	9.5	-102.44	121.4	-931.8	941.4	923.1	18.29	51.482			
4,300.0	4,299.5	4,360.2	4,359.5	8.9	9.6	-103.11	119.7	-928.6	940.3	921.7	18.51	50.786			
4,348.3	4,347.4	4,400.6	4,399.9	9.0	9.7	-103.43	118.8	-927.3	939.9	921.3	18.61	50.491 CC, ES			
4,400.0	4,398.7	4,439.5	4,438.8	9.1	9.7	-103.77	118.0	-926.5	940.3	921.6	18.72	50.245			
4,500.0	4,497.5	4,523.9	4,523.1	9.3	9.8	-104.57	116.6	-926.2	943.7	924.8	18.90	49.931			
4,555.9	4,552.4	4,575.5	4,574.7	9.4	9.8	-105.12	115.7	-926.4	946.5	927.5	18.97	49.887			
4,600.0	4,595.7	4,620.2	4,619.5	9.5	9.8	-105.67	115.0	-926.6	948.9	929.9	19.02	49.901			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	205-r.5 MWD+IFR1+MS, 4863-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,700.0	4,693.8	4,718.6	4,717.9	9.7	9.9	-106.87	113.3	-926.8	954.6	935.4	19.19	49.732	
4,800.0	4,791.9	4,814.6	4,813.9	9.9	9.9	-108.02	111.7	-927.2	960.8	941.4	19.39	49.540	
4,900.0	4,890.1	4,911.2	4,910.4	10.2	10.0	-109.15	110.3	-927.7	967.6	948.0	19.59	49.381	
5,000.0	4,988.2	5,009.0	5,008.2	10.4	10.1	-110.25	109.6	-928.3	974.8	954.9	19.86	49.083	
5,100.0	5,086.3	5,122.3	5,121.5	10.7	10.3	-111.28	112.5	-928.5	981.9	961.7	20.16	48.716	
5,200.0	5,184.4	5,229.9	5,228.9	11.0	10.3	-112.04	118.8	-927.1	987.5	967.2	20.38	48.445	
5,300.0	5,282.6	5,321.0	5,319.8	11.3	10.4	-112.63	125.0	-926.0	993.4	972.8	20.60	48.216 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 205-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	24.9	24.9	0.0	3.0	-84.48	90.4	-935.8	940.1	935.5	4.68	200.916	CC
100.0	100.0	120.5	120.5	1.2	3.2	-84.44	91.0	-936.1	940.5	935.2	5.31	177.106	
200.0	200.0	216.0	215.9	1.7	3.7	-84.35	92.6	-936.7	941.3	935.1	6.19	152.141	ES
300.0	300.0	309.8	309.8	2.1	4.2	-84.23	94.8	-937.8	942.7	935.7	7.04	134.002	
400.0	400.0	403.7	403.6	2.4	4.8	-84.08	97.4	-939.5	944.8	936.8	7.91	119.376	
500.0	500.0	498.3	498.1	2.7	5.3	-83.92	100.3	-941.7	947.4	938.8	8.64	109.596	
600.0	600.0	593.3	593.0	3.0	5.7	-83.75	103.5	-944.4	950.6	941.3	9.38	101.391	
700.0	700.0	691.5	691.2	3.2	6.2	-83.59	106.4	-947.6	954.2	944.1	10.06	94.894	
800.0	800.0	793.5	793.0	3.5	6.6	-83.47	108.8	-951.1	957.9	947.2	10.68	89.694	
900.0	900.0	905.8	905.3	3.7	6.8	-83.44	109.8	-954.0	960.6	949.5	11.08	86.664	
1,000.0	1,000.0	1,001.5	1,001.0	3.9	7.0	-83.47	109.4	-956.0	962.5	951.1	11.48	83.825	
1,100.0	1,100.0	1,077.4	1,076.8	4.1	7.1	-83.51	109.1	-959.0	966.5	954.6	11.82	81.750	
1,200.0	1,200.0	1,167.3	1,166.6	4.3	7.3	-83.55	109.0	-964.2	972.1	959.9	12.18	79.816	
1,300.0	1,300.0	1,272.2	1,271.3	4.5	7.5	-83.59	109.0	-970.3	977.9	965.3	12.59	77.663	
1,400.0	1,400.0	1,371.3	1,370.2	4.7	7.8	-83.61	109.4	-975.9	983.6	970.6	13.00	75.689	
1,500.0	1,500.0	1,470.1	1,468.9	4.8	8.0	-83.61	109.9	-981.4	989.2	975.8	13.40	73.795	
1,600.0	1,600.0	1,564.2	1,562.8	5.0	8.2	-83.60	110.8	-987.2	995.4	981.6	13.81	72.101	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AWP											Offset Site Error:		0.0 usft	
Survey Program:		205-r.5 MWD, 9809-r.5 MWD				Rule Assigned:								Offset Well Error:		3.0 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		No-Go Distance	Separation Factor	Warning			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)					
0.0	0.0	24.9	24.9	0.0	3.0	-84.48	90.4	-935.8	940.1	935.5	4.68	200.916	CC			
100.0	100.0	120.5	120.5	1.2	3.2	-84.44	91.0	-936.1	940.5	935.2	5.31	177.106				
200.0	200.0	216.0	215.9	1.7	3.7	-84.35	92.6	-936.7	941.3	935.1	6.19	152.141	ES			
300.0	300.0	309.8	309.8	2.1	4.2	-84.23	94.8	-937.8	942.7	935.7	7.04	134.002				
400.0	400.0	403.7	403.6	2.4	4.8	-84.08	97.4	-939.5	944.8	936.8	7.91	119.376				
500.0	500.0	498.3	498.1	2.7	5.3	-83.92	100.3	-941.7	947.4	938.8	8.64	109.596				
600.0	600.0	593.3	593.0	3.0	5.7	-83.75	103.5	-944.4	950.6	941.3	9.38	101.391				
700.0	700.0	691.5	691.2	3.2	6.2	-83.59	106.4	-947.6	954.2	944.1	10.06	94.894				
800.0	800.0	793.5	793.0	3.5	6.6	-83.47	108.8	-951.1	957.9	947.2	10.68	89.694				
900.0	900.0	905.8	905.3	3.7	6.8	-83.44	109.8	-954.0	960.6	949.5	11.08	86.664				
1,000.0	1,000.0	1,001.5	1,001.0	3.9	7.0	-83.47	109.4	-956.0	962.5	951.1	11.48	83.825				
1,100.0	1,100.0	1,077.4	1,076.8	4.1	7.1	-83.51	109.1	-959.0	966.5	954.6	11.82	81.750				
1,200.0	1,200.0	1,167.3	1,166.6	4.3	7.3	-83.55	109.0	-964.2	972.1	959.9	12.18	79.816				
1,300.0	1,300.0	1,272.2	1,271.3	4.5	7.5	-83.59	109.0	-970.3	977.9	965.3	12.59	77.663				
1,400.0	1,400.0	1,371.3	1,370.2	4.7	7.8	-83.61	109.4	-975.9	983.6	970.6	13.00	75.689				
1,500.0	1,500.0	1,470.1	1,468.9	4.8	8.0	-83.61	109.9	-981.4	989.2	975.8	13.40	73.795				
1,600.0	1,600.0	1,564.2	1,562.8	5.0	8.2	-83.60	110.8	-987.2	995.4	981.6	13.81	72.101	SF			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3135.0usft (Original Well Ele

Offset Depths are relative to Offset Datum

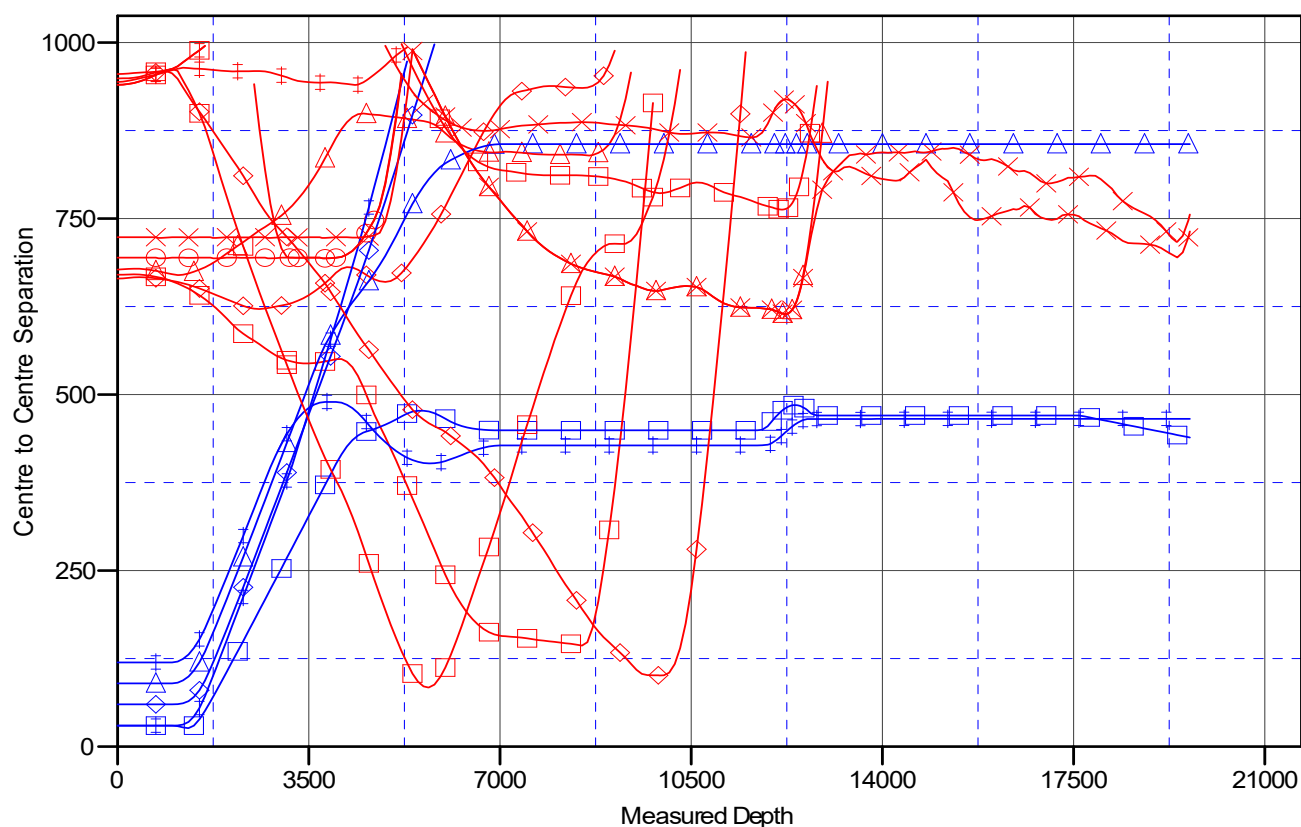
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UN

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

Grid Convergence at Surface is: 0.38°

Ladder Plot



LEGEND

SD WE 24 FEDERAL P24 6H, OWB, AWP V0
SD WE 24 FEDERAL P24 7H, OWB, AWP V0
SD WE 24 FEDERAL P24 5H, OWB, AWP V0
_ZIA HILLS UNIT 2532 WC 708H, OWB, PWP0 V0
_ZIA HILLS UNIT 2532 WC 709H, OWB, PWP0 V0
_ZIA HILLS UNIT 2532 WC 708H, OWB, PWP0 V0
_ZIA HILLS UNIT 2532 WC 709H, OWB, PWP0 V0

_ZIA HILLS UNIT 2532 WC 71H, OWB, PWP0 V0
MELISSA-FEDERAL #1 (P&A), OWB, AWP V0
WAR HAMMER 25 FEDERALCOM W1 3H, OWB, AWP V0
WAR HAMMER 25 FEDERALCOM W2 2H, OWB, AWP V0
WAR HAMMER 25 FEDERALCOM W2 2H, ST01, ST01 AWP V0
WAR HAMMER 25 FEDERALCOM W3 1H, OWB, AWP V0
WILDER-FEDERAL #15 (P&A), OWB, AWP V0

WILDER-FEDERAL 9X, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM01H, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM02H, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM03H, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM04H, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM04H, ST01, ST01 AWP V0

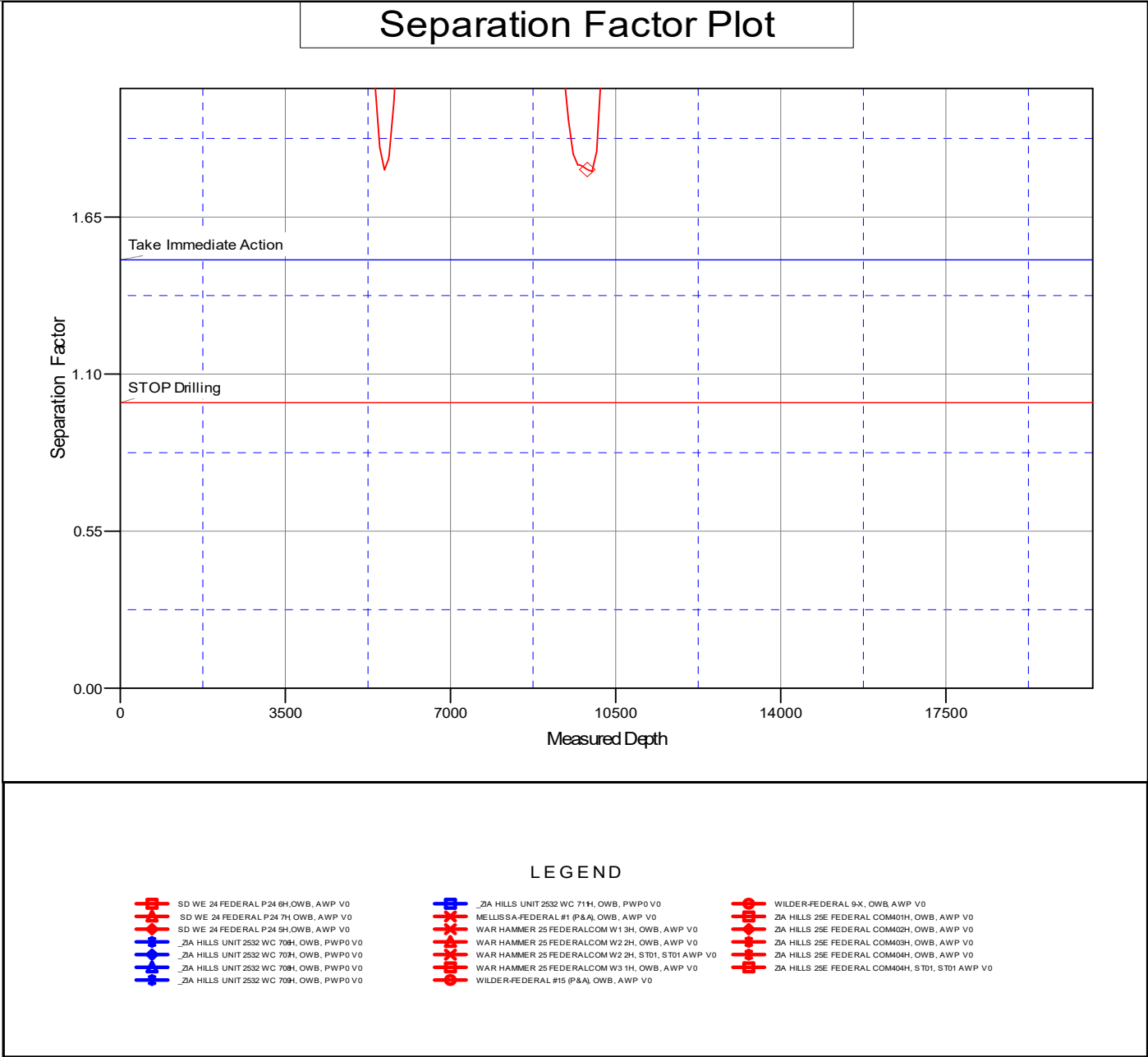
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UNIT 2532 WC 710H
Project:	ZIA HILLS UNIT AREA	TVD Reference:	WELL @ 3135.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2532 PROJECT	MD Reference:	WELL @ 3135.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ZIA HILLS UNIT 2532 WC 710H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3135.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2532 WC 710H - Slot ZIA HILLS UN
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°

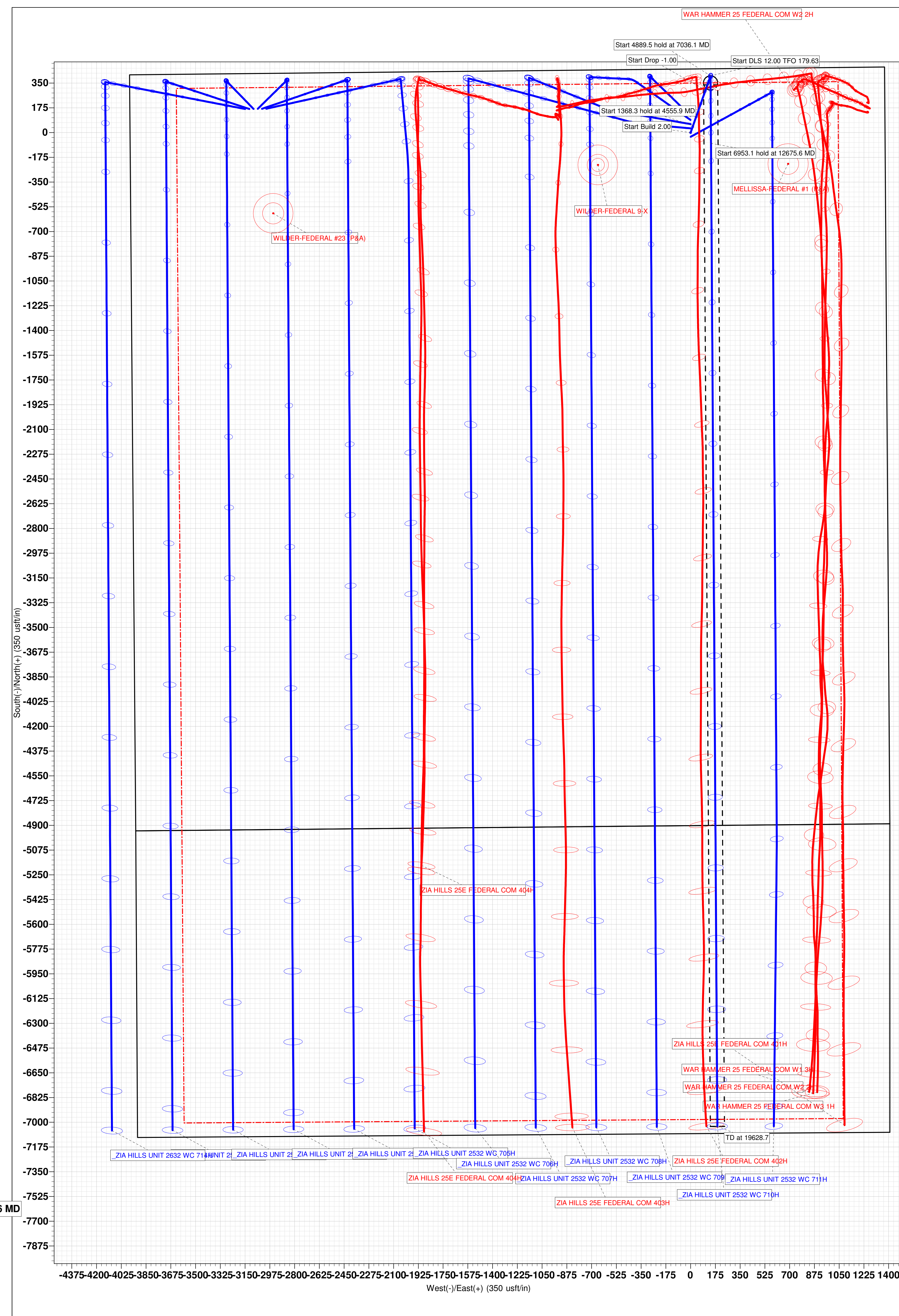
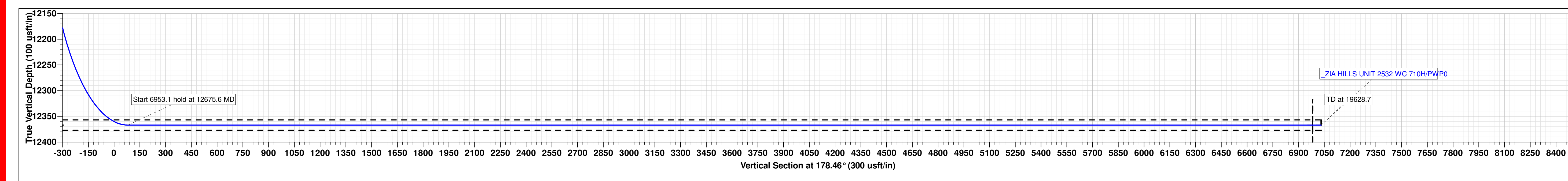
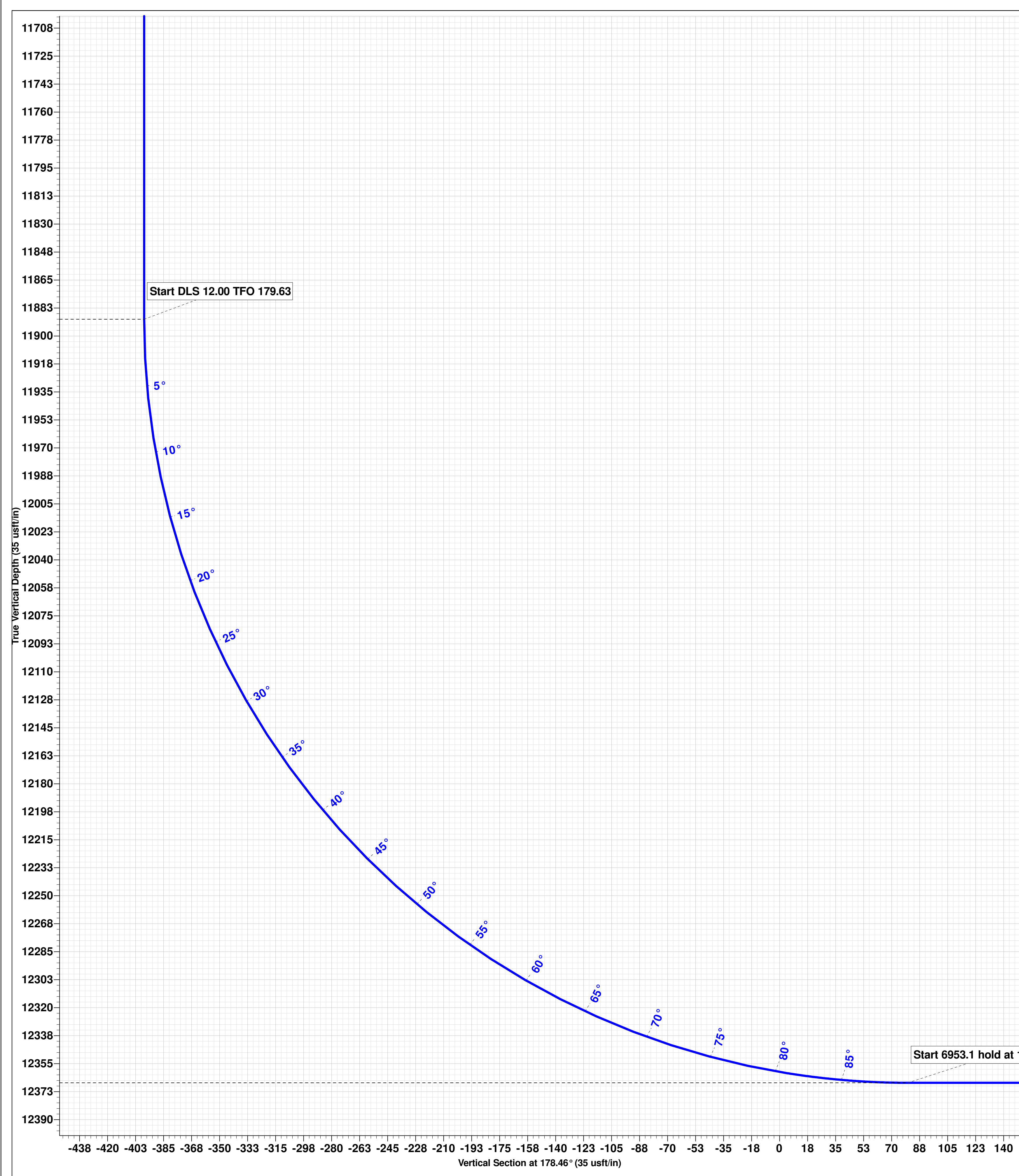
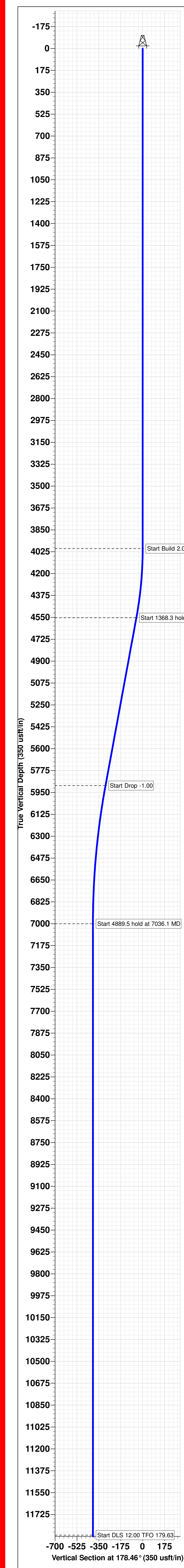




Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2532 PROJECT
Well: ZIA HILLS UNIT 2532 WC 710H
Wellbore: OWB
Design: PWP0

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
4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0
4555.9	11.12	19.38	4552.4	50.7	17.8	2.00	19.38	-50.2
5924.3	11.12	19.38	5895.1	299.6	105.4	0.00	0.00	-296.7
7036.1	0.00	0.00	7000.0	401.1	141.1	1.00	180.00	-397.2
11925.6	0.00	0.00	11889.5	401.1	141.1	0.00	0.00	-397.2
12675.6	90.00	179.63	12367.0	-76.4	144.2	12.00	179.63	80.2
19628.7	90.00	179.63	12367.0	-7029.3	189.3	0.00	0.00	7031.9



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: 01/28/2025

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 2532 WC 706H	30-025-	B-25-26S-32E	420 FNL & 1425 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2532 WC 707H	30-025-	B-25-26S-32E	390 FNL & 1425 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2532 WC 708H	30-025-	B-25-26S-32E	360 FNL & 1425 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2532 WC 709H	30-025-	B-25-26S-32E	330 FNL & 1425 FEL	± 742	± 1956	± 1707
Zia Hills Unit 2532 WC 710H	30-025-	B-25-26S-32E	450 FNL & 1425 FEL	± 520	± 1369	± 1195
Zia Hills Unit 2532 WC 711H	30-025-	B-25-26S-32E	480 FNL & 1425 FEL	± 593	± 1565	± 1365

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 2532 WC	Pending	± 9/1/2026	± 25 days from spud	TBD	TBD	TBD
706H, 707H, 708H, 709H, 710H, 711H						

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

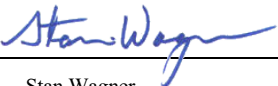
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 01/28/2025
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

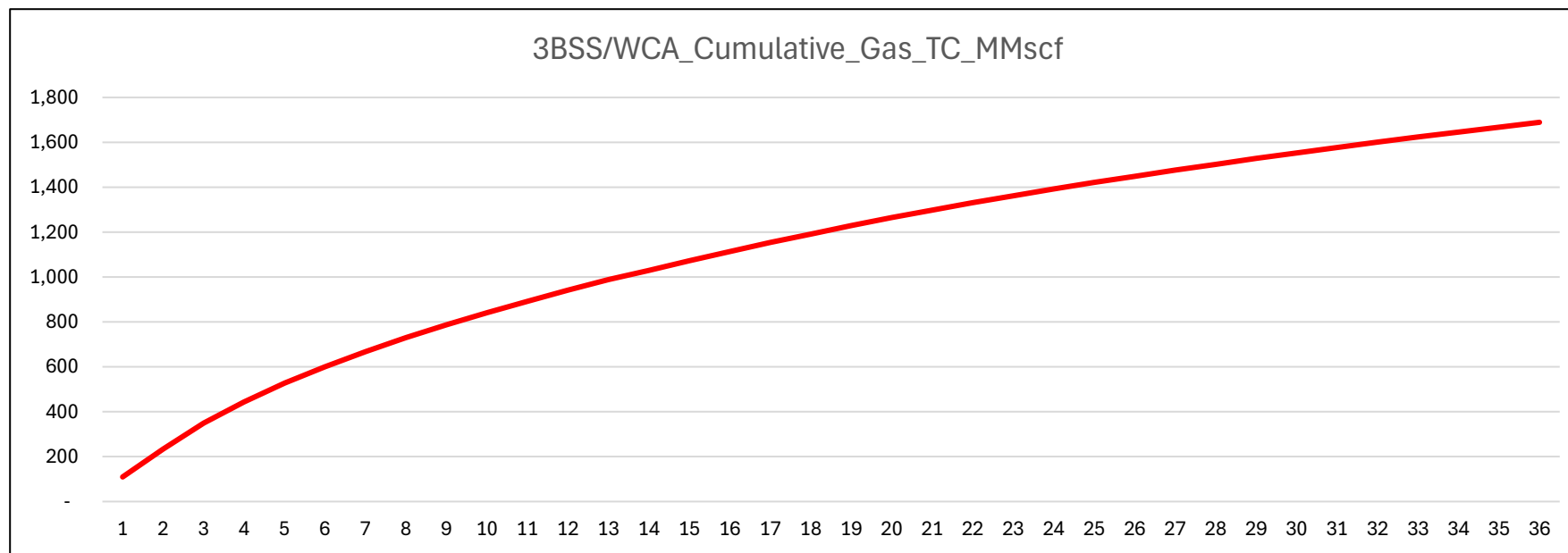
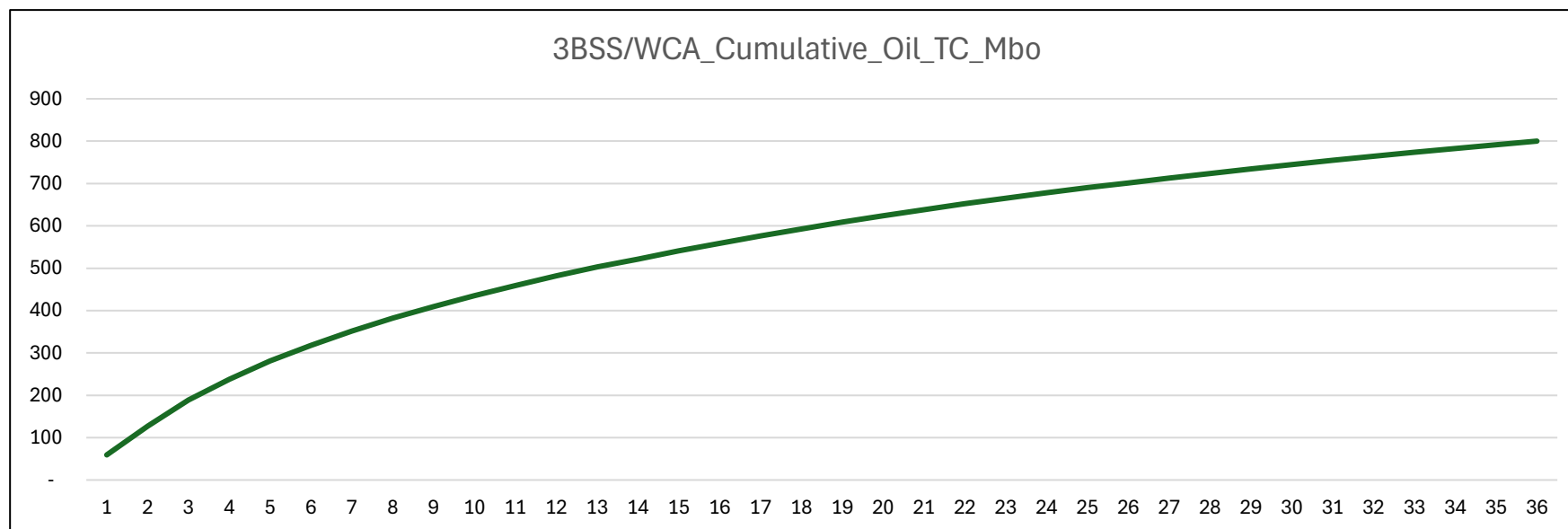
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

Waste Minimization Plan

Per § 3162.3-1 Drilling applications and plans. Part J:

- (1) The anticipated initial oil production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (2) The anticipated initial oil-well gas production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.
 - a. See attached NMOCD – Natural Gas Management Plan
- (4) Any other information demonstrating the operator's plans to avoid the waste of gas production from any source, including, as appropriate, from pneumatic equipment, storage tanks, and leaks.
 - a. This location will comply with NSPS OOOOb which will include reduced associated gas flaring, non-emitting pneumatic equipment, storage tanks that are controlled and a rigorous leak detection and repair program. In addition, this facility complies with 20.2.50 NMAC (Ozone Precursor Pollutants) which also imposes standards on pneumatic equipment, tank controls, and leak detection and repair. Finally, this facility must comply with 19.15.27 NMAC (Venting and Flaring of Natural Gas) which significantly reduces instances of flaring.

Anticipated Production Decline Curve



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2532 WC 710H
LOCATION:	Section 25, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **750 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

Contingency Casing Design:

4. The **13-3/8** inch surface casing shall be set at approximately **750 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - e. 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.
 - f. 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)
- g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
6. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
7. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 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)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.

- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.

- ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead

cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against

- the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 4/8/2025

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

General Information
Phone: (505) 629-6116

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

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

COMMENTS

Action 464038

COMMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 464038
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well	8/12/2025
jeffrey.harrison	R-20080	8/12/2025

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 464038

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 464038
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	5/16/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	5/16/2025
jeffrey.harrison	Administrative order required for non-standard spacing unit prior to production.	8/12/2025
jeffrey.harrison	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	8/12/2025
jeffrey.harrison	Out of compliance with Rule 19.15.5.9 Inactive Well List. Well cannot be produced until the operator is back in compliance.	8/12/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	8/12/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/12/2025
jeffrey.harrison	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.	8/12/2025
jeffrey.harrison	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.	8/12/2025
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	8/12/2025
jeffrey.harrison	Any string of casing where cement is not circulated requires a minimum of 200' of tieback into the previous casing string.	8/12/2025