

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. 30-025-54953
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: NWNE / 480 FNL / 1425 FEL / TWSP: 26S / RANGE: 32E / SECTION: 25 / LAT: 32.019618 / LONG: -103.62442 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 800 FEL / TWSP: 26S / RANGE: 32E / SECTION: 25 / LAT: 32.020667 / LONG: -103.622406 (TVD: 12023 feet, MD: 12099 feet)

PPP: SENE / 1339 FNL / 801 FEL / TWSP: 26S / RANGE: 32E / SECTION: 25 / LAT: 32.017262 / LONG: -103.622404 (TVD: 12184 feet, MD: 17279 feet)

BHL: LOT 1 / 50 FSL / 800 FEL / TWSP: 26S / RANGE: 32E / SECTION: 36 / LAT: 32.000374 / LONG: -103.622394 (TVD: 12184 feet, MD: 19339 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- 54953	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 337697	Property Name ZIA HILLS UNIT 2532 WC	Well Number 711H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,135.99'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	25	26S	32E		480' FNL	1,425' FEL	32.019618°	-103.624420°	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 1	36	26S	32E	1	50' FSL	800' FEL	32.000374°	-103.622394°	LEA

Dedicated Acres 899.76	Infill or Defining Well Infill	Defining Well API Pending 710H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	25	26S	32E		480' FNL	1,425' FEL	32.019618°	-103.624420°	LEA

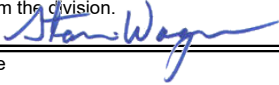
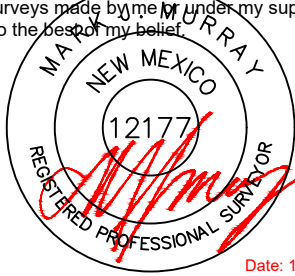
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	25	26S	32E		100' FNL	800' FEL	32.020667°	-103.622406°	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 1	36	26S	32E	1	100' FSL	800' FEL	32.000512°	-103.622394°	LEA

Unitized Area or Area of Uniform Interest Unit	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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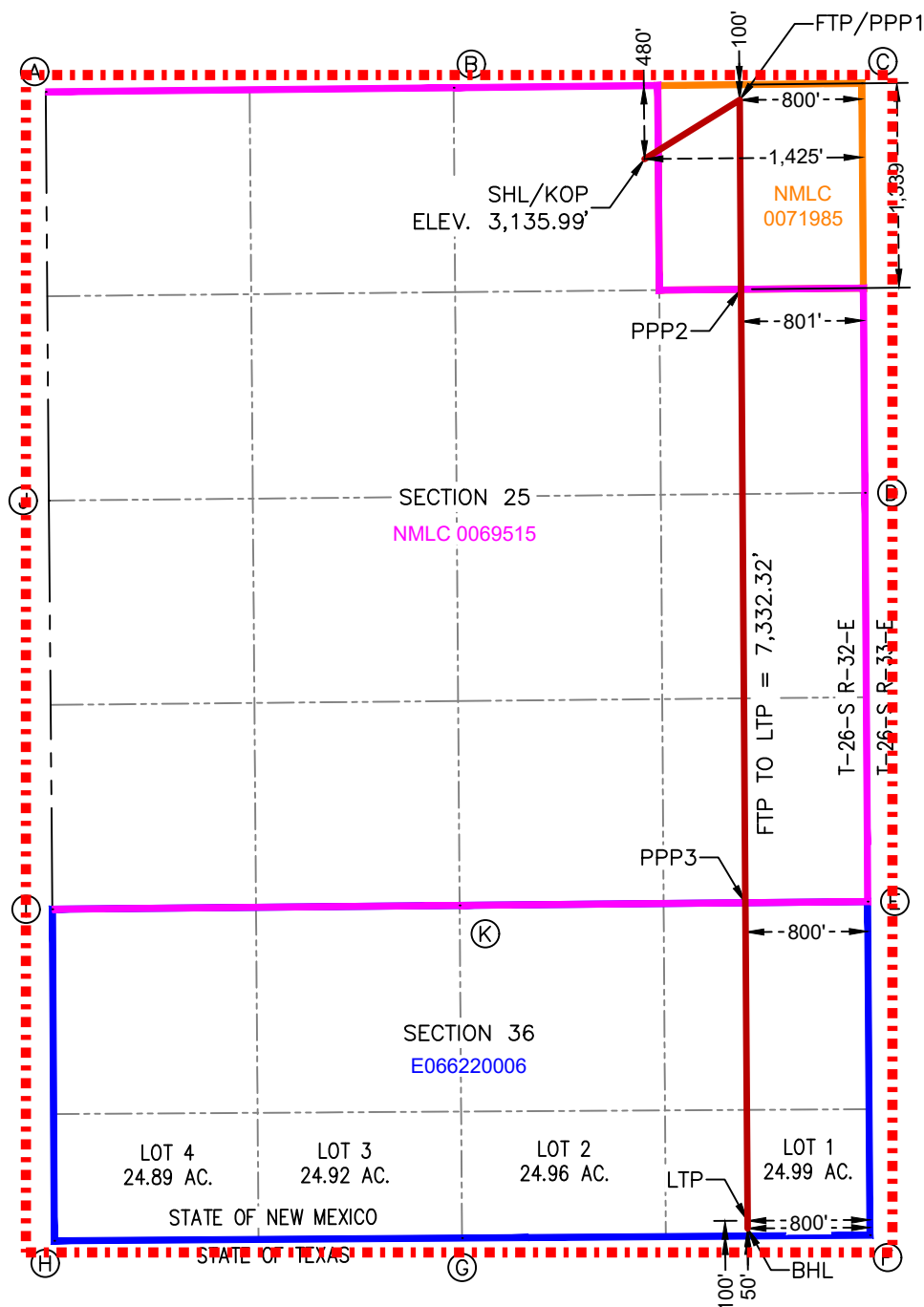
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.

ACREAGE DEDICATION PLATS

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

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



**SURFACE HOLE LOCATION
& KICK-OFF POINT**
480' FNL & 1,425' FEL
ELEV.=3,135.99'

NAD 83 X = 761,047.73'
NAD 83 Y = 371,596.48'
NAD 83 LAT = 32.019618°
NAD 83 LONG = -103.624420°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 800' FEL

NAD 83 X = 761,669.48'
NAD 83 Y = 371,982.38'
NAD 83 LAT = 32.020667°
NAD 83 LONG = -103.622406°

PENETRATION POINT 2
1,339' FNL & 801' FEL

NAD 83 X = 761,678.18'
NAD 83 Y = 370,743.60'
NAD 83 LAT = 32.017262°
NAD 83 LONG = -103.622404°

PENETRATION POINT 3
0' FNL & 800' FEL

NAD 83 X = 761,706.39'
NAD 83 Y = 366,730.70'
NAD 83 LAT = 32.006231°
NAD 83 LONG = -103.622399°

LAST TAKE POINT
100' FSL & 800' FEL

NAD 83 X = 761,721.33'
NAD 83 Y = 364,650.25'
NAD 83 LAT = 32.000512°
NAD 83 LONG = -103.622394°

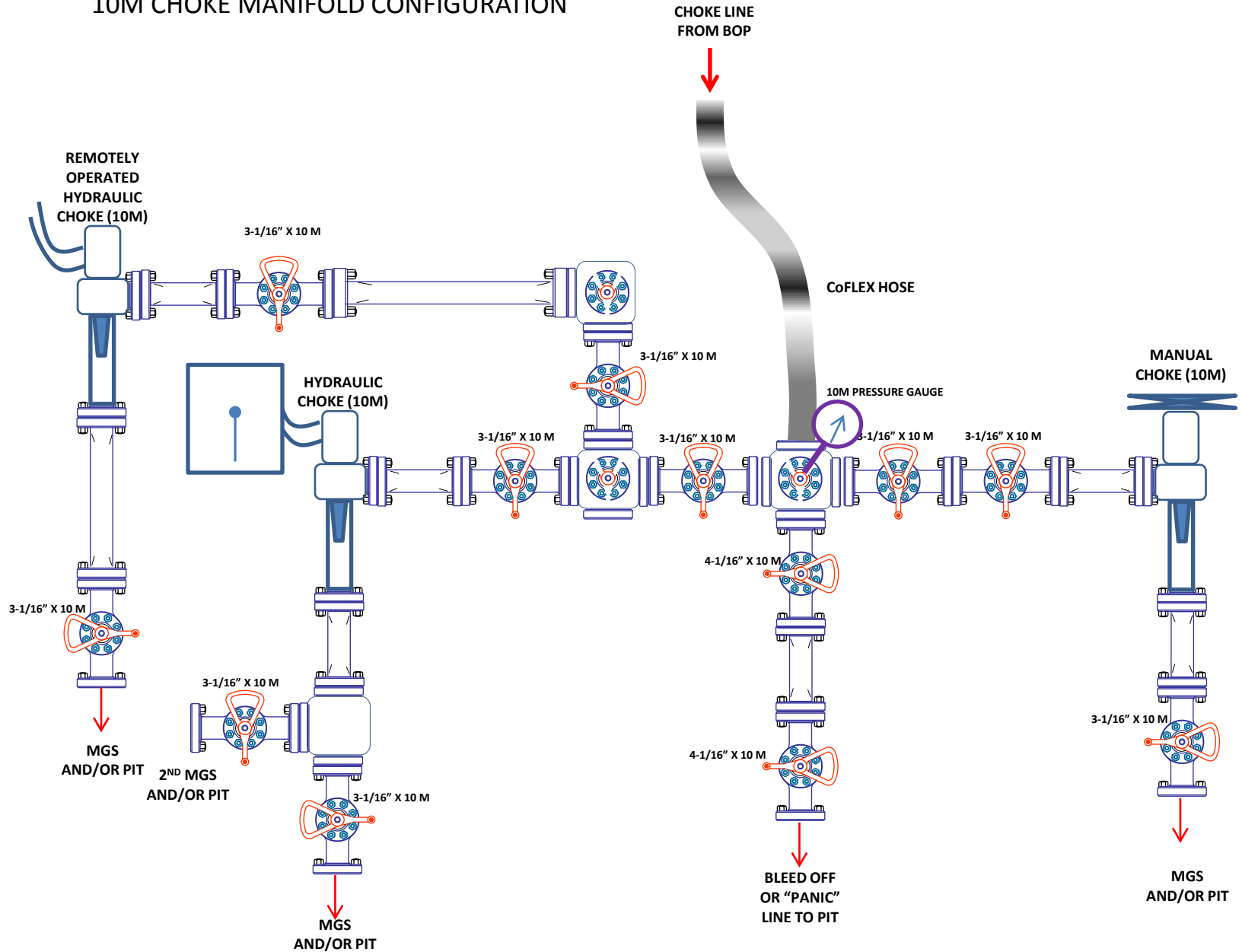
BOTTOM HOLE LOCATION
50' FSL & 800' FEL

NAD 83 X = 761,721.69'
NAD 83 Y = 364,600.25'
NAD 83 LAT = 32.000374°
NAD 83 LONG = -103.622394°

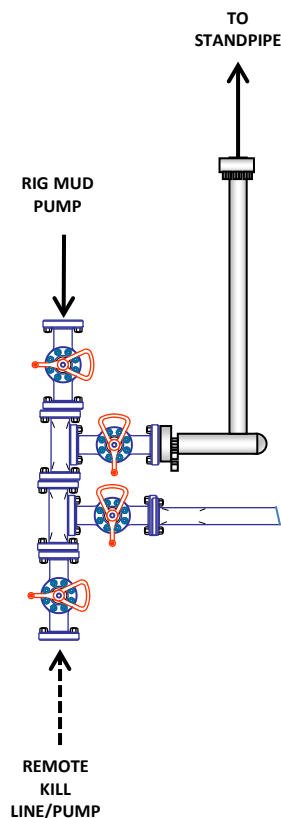
**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

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'		

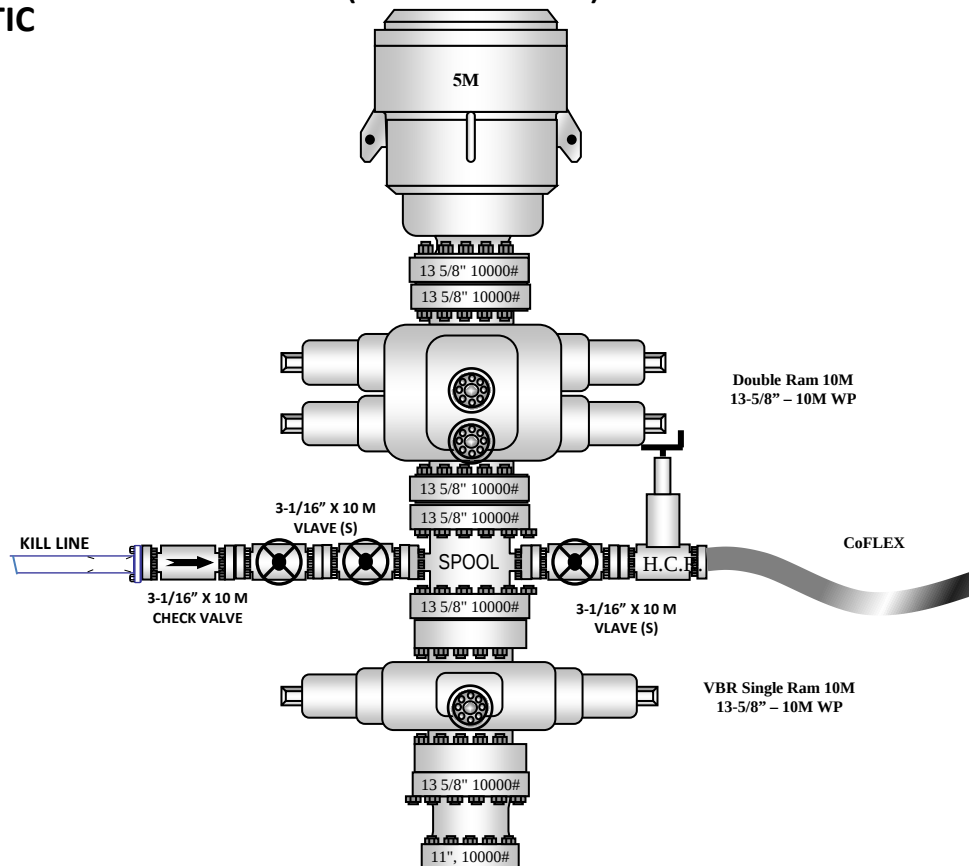
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



ConocoPhillips Company - Zia Hills Unit 2532 WC #711H

1. Geologic Formations

TVD of target	12,184' EOL	Pilot hole depth	NA
MD at TD:	19,339'	Deepest expected fresh water:	300'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	510	Water	
Top of Salt	895	Salt	
Base of Salt	4255	Salt	
Lamar	4479	Salt Water	
Bell Canyon	4487	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	1.09	2.88	2.90
8.750"	8500	11600	7.625"	29.7	P110-ICY	W513	1.36	1.65	3.10	1.86
6.75"	0	11400	5.5"	23	P110-CY	BTC	1.96	2.32	2.78	2.78
6.75"	11400	19,339	5.5"	23	P110-CY	W441	1.84	2.17	2.60	2.36
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	1.40	5.23	5.41
8.75"	4180	11600	7.625"	29.7	P110-ICY	W513	1.36	1.65	3.10	1.86
6.75"	0	11400	5.5"	23	P110-CY	BTC	1.96	2.32	2.78	2.78
6.75"	11400	19,339	5.5"	23	P110-CY	W441	1.84	2.17	2.60	2.36
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 #711H

	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 #711H

3. Cementing Program

Casing	# Sk	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	720	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	600	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	11,100'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sk	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)	200	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
	600	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	11,350'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2532 WC #711H

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 #711H

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 #711H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7920 psi at 12184' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

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

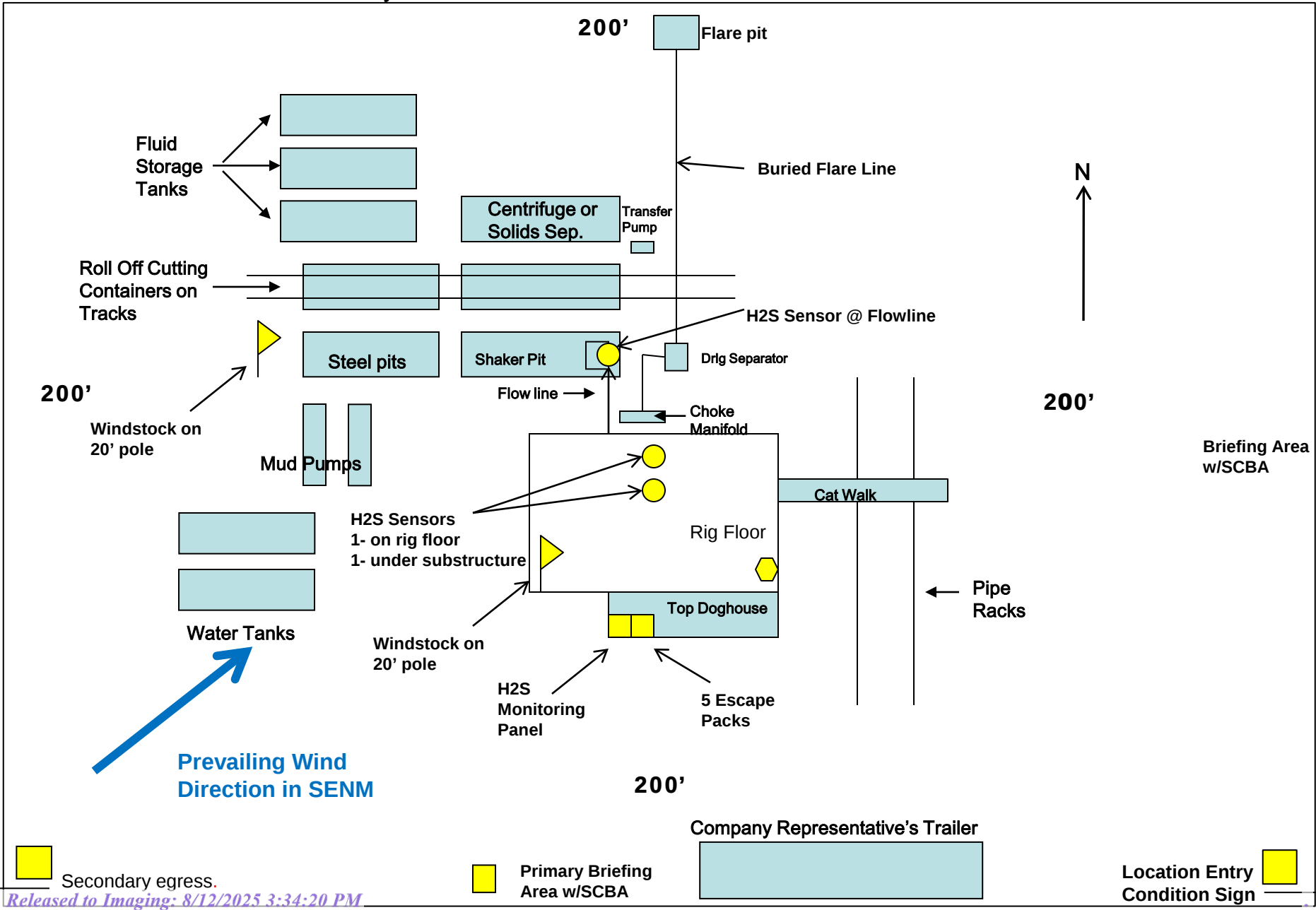
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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 711H - Slot ZIA HILLS UNIT 2532
WC 711H**

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 711H - Slot ZIA HILLS UNIT 2532 WC 711H					
Well Position	+N/-S	0.0 usft	Northing:	371,540.03 usft	Latitude:	32° 1' 10.174 N
	+E/-W	0.0 usft	Easting:	719,910.16 usft	Longitude:	103° 37' 25.649 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	47,159.90966362

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	174.91

Plan Survey Tool Program	Date	7/18/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,339.0 PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	
			ISCWSA MWD + IFR1 + SAG	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,428.1	8.56	61.24	1,426.5	15.4	28.0	2.00	2.00	0.00	61.24	
5,190.5	8.56	61.24	5,147.0	284.9	519.0	0.00	0.00	0.00	0.00	
6,046.7	0.00	0.00	6,000.0	315.6	575.0	1.00	-1.00	0.00	180.00	
11,753.2	0.00	0.00	11,706.5	315.6	575.0	0.00	0.00	0.00	0.00	
12,503.2	90.00	179.63	12,184.0	-161.9	578.1	12.00	12.00	0.00	179.63	
17,307.0	90.00	179.63	12,184.0	-4,965.6	609.1	0.00	0.00	0.00	0.00	
17,355.5	90.00	180.60	12,184.0	-5,014.1	609.0	2.00	0.00	2.00	90.00	
19,339.0	90.00	180.60	12,184.0	-6,997.4	588.2	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	2.00	61.24	1,100.0	0.8	1.5	-0.7	2.00	2.00	0.00	
1,200.0	4.00	61.24	1,199.8	3.4	6.1	-2.8	2.00	2.00	0.00	
1,300.0	6.00	61.24	1,299.5	7.6	13.8	-6.3	2.00	2.00	0.00	
1,400.0	8.00	61.24	1,398.7	13.4	24.4	-11.2	2.00	2.00	0.00	
1,428.1	8.56	61.24	1,426.5	15.4	28.0	-12.8	2.00	2.00	0.00	
1,500.0	8.56	61.24	1,497.6	20.5	37.4	-17.1	0.00	0.00	0.00	
1,600.0	8.56	61.24	1,596.5	27.7	50.4	-23.1	0.00	0.00	0.00	
1,700.0	8.56	61.24	1,695.4	34.8	63.5	-29.1	0.00	0.00	0.00	
1,800.0	8.56	61.24	1,794.3	42.0	76.5	-35.1	0.00	0.00	0.00	
1,900.0	8.56	61.24	1,893.1	49.2	89.6	-41.0	0.00	0.00	0.00	
2,000.0	8.56	61.24	1,992.0	56.3	102.6	-47.0	0.00	0.00	0.00	
2,100.0	8.56	61.24	2,090.9	63.5	115.7	-53.0	0.00	0.00	0.00	
2,200.0	8.56	61.24	2,189.8	70.7	128.7	-59.0	0.00	0.00	0.00	
2,300.0	8.56	61.24	2,288.7	77.8	141.8	-64.9	0.00	0.00	0.00	
2,400.0	8.56	61.24	2,387.6	85.0	154.8	-70.9	0.00	0.00	0.00	
2,500.0	8.56	61.24	2,486.5	92.1	167.9	-76.9	0.00	0.00	0.00	
2,600.0	8.56	61.24	2,585.3	99.3	180.9	-82.9	0.00	0.00	0.00	
2,700.0	8.56	61.24	2,684.2	106.5	194.0	-88.9	0.00	0.00	0.00	
2,800.0	8.56	61.24	2,783.1	113.6	207.0	-94.8	0.00	0.00	0.00	
2,900.0	8.56	61.24	2,882.0	120.8	220.1	-100.8	0.00	0.00	0.00	
3,000.0	8.56	61.24	2,980.9	128.0	233.1	-106.8	0.00	0.00	0.00	
3,100.0	8.56	61.24	3,079.8	135.1	246.2	-112.8	0.00	0.00	0.00	
3,200.0	8.56	61.24	3,178.7	142.3	259.2	-118.8	0.00	0.00	0.00	
3,300.0	8.56	61.24	3,277.5	149.5	272.3	-124.7	0.00	0.00	0.00	
3,400.0	8.56	61.24	3,376.4	156.6	285.3	-130.7	0.00	0.00	0.00	
3,500.0	8.56	61.24	3,475.3	163.8	298.4	-136.7	0.00	0.00	0.00	
3,600.0	8.56	61.24	3,574.2	170.9	311.4	-142.7	0.00	0.00	0.00	
3,700.0	8.56	61.24	3,673.1	178.1	324.5	-148.6	0.00	0.00	0.00	
3,800.0	8.56	61.24	3,772.0	185.3	337.5	-154.6	0.00	0.00	0.00	
3,900.0	8.56	61.24	3,870.9	192.4	350.6	-160.6	0.00	0.00	0.00	
4,000.0	8.56	61.24	3,969.7	199.6	363.6	-166.6	0.00	0.00	0.00	
4,100.0	8.56	61.24	4,068.6	206.8	376.7	-172.6	0.00	0.00	0.00	
4,200.0	8.56	61.24	4,167.5	213.9	389.8	-178.5	0.00	0.00	0.00	
4,300.0	8.56	61.24	4,266.4	221.1	402.8	-184.5	0.00	0.00	0.00	
4,400.0	8.56	61.24	4,365.3	228.2	415.9	-190.5	0.00	0.00	0.00	
4,500.0	8.56	61.24	4,464.2	235.4	428.9	-196.5	0.00	0.00	0.00	
4,600.0	8.56	61.24	4,563.1	242.6	442.0	-202.4	0.00	0.00	0.00	
4,700.0	8.56	61.24	4,661.9	249.7	455.0	-208.4	0.00	0.00	0.00	
4,800.0	8.56	61.24	4,760.8	256.9	468.1	-214.4	0.00	0.00	0.00	
4,900.0	8.56	61.24	4,859.7	264.1	481.1	-220.4	0.00	0.00	0.00	
5,000.0	8.56	61.24	4,958.6	271.2	494.2	-226.4	0.00	0.00	0.00	
5,100.0	8.56	61.24	5,057.5	278.4	507.2	-232.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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)	
5,190.5	8.56	61.24	5,147.0	284.9	519.0	-237.8	0.00	0.00	0.00	
5,200.0	8.47	61.24	5,156.4	285.6	520.3	-238.3	1.00	-1.00	0.00	
5,300.0	7.47	61.24	5,255.4	292.2	532.4	-243.9	1.00	-1.00	0.00	
5,400.0	6.47	61.24	5,354.7	298.1	543.0	-248.8	1.00	-1.00	0.00	
5,500.0	5.47	61.24	5,454.1	303.1	552.2	-252.9	1.00	-1.00	0.00	
5,600.0	4.47	61.24	5,553.7	307.2	559.7	-256.4	1.00	-1.00	0.00	
5,700.0	3.47	61.24	5,653.5	310.6	565.8	-259.2	1.00	-1.00	0.00	
5,800.0	2.47	61.24	5,753.4	313.0	570.3	-261.3	1.00	-1.00	0.00	
5,900.0	1.47	61.24	5,853.3	314.7	573.4	-262.6	1.00	-1.00	0.00	
6,000.0	0.47	61.24	5,953.3	315.5	574.8	-263.3	1.00	-1.00	0.00	
6,046.7	0.00	0.00	6,000.0	315.6	575.0	-263.4	1.00	-1.00	0.00	
6,100.0	0.00	0.00	6,053.3	315.6	575.0	-263.4	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,153.3	315.6	575.0	-263.4	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,253.3	315.6	575.0	-263.4	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,353.3	315.6	575.0	-263.4	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,453.3	315.6	575.0	-263.4	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,553.3	315.6	575.0	-263.4	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,653.3	315.6	575.0	-263.4	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,753.3	315.6	575.0	-263.4	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,853.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,953.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,053.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,153.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,253.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,353.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,453.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,553.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,653.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,753.3	315.6	575.0	-263.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,853.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,953.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,053.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,153.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,253.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,353.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,453.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,553.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,653.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,753.3	315.6	575.0	-263.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,853.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,953.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,053.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,153.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,253.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,353.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,453.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,553.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,653.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,753.3	315.6	575.0	-263.4	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,853.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,953.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,053.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,153.3	315.6	575.0	-263.4	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	10,253.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,353.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,453.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,553.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,653.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,753.3	315.6	575.0	-263.4	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,853.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,953.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,053.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,153.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,253.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,353.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,453.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,553.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,653.3	315.6	575.0	-263.4	0.00	0.00	0.00	
11,753.2	0.00	0.00	11,706.5	315.6	575.0	-263.4	0.00	0.00	0.00	
11,775.0	2.62	179.63	11,728.3	315.1	575.0	-262.9	12.00	12.00	0.00	
11,800.0	5.62	179.63	11,753.2	313.3	575.0	-261.1	12.00	12.00	0.00	
11,825.0	8.62	179.63	11,778.0	310.2	575.0	-258.0	12.00	12.00	0.00	
11,850.0	11.62	179.63	11,802.6	305.8	575.1	-253.6	12.00	12.00	0.00	
11,875.0	14.62	179.63	11,827.0	300.1	575.1	-248.0	12.00	12.00	0.00	
11,900.0	17.62	179.63	11,851.0	293.2	575.1	-241.1	12.00	12.00	0.00	
11,925.0	20.62	179.63	11,874.6	285.0	575.2	-232.9	12.00	12.00	0.00	
11,950.0	23.62	179.63	11,897.8	275.6	575.3	-223.5	12.00	12.00	0.00	
11,975.0	26.62	179.63	11,920.4	265.0	575.3	-213.0	12.00	12.00	0.00	
12,000.0	29.62	179.63	11,942.5	253.2	575.4	-201.2	12.00	12.00	0.00	
12,025.0	32.62	179.63	11,963.9	240.3	575.5	-188.4	12.00	12.00	0.00	
12,050.0	35.62	179.63	11,984.5	226.3	575.6	-174.4	12.00	12.00	0.00	
12,075.0	38.62	179.63	12,004.5	211.2	575.7	-159.3	12.00	12.00	0.00	
12,100.0	41.62	179.63	12,023.6	195.1	575.8	-143.3	12.00	12.00	0.00	
12,125.0	44.62	179.63	12,041.8	178.0	575.9	-126.3	12.00	12.00	0.00	
12,150.0	47.62	179.63	12,059.2	160.0	576.0	-108.3	12.00	12.00	0.00	
12,175.0	50.62	179.63	12,075.5	141.1	576.1	-89.5	12.00	12.00	0.00	
12,200.0	53.62	179.63	12,090.9	121.4	576.3	-69.8	12.00	12.00	0.00	
12,225.0	56.62	179.63	12,105.2	100.9	576.4	-49.4	12.00	12.00	0.00	
12,250.0	59.62	179.63	12,118.4	79.6	576.5	-28.2	12.00	12.00	0.00	
12,275.0	62.62	179.63	12,130.5	57.8	576.7	-6.4	12.00	12.00	0.00	
12,300.0	65.62	179.63	12,141.4	35.3	576.8	16.0	12.00	12.00	0.00	
12,325.0	68.62	179.63	12,151.1	12.2	577.0	39.0	12.00	12.00	0.00	
12,350.0	71.62	179.63	12,159.6	-11.3	577.1	62.4	12.00	12.00	0.00	
12,375.0	74.62	179.63	12,166.9	-35.2	577.3	86.2	12.00	12.00	0.00	
12,400.0	77.62	179.63	12,172.9	-59.5	577.4	110.4	12.00	12.00	0.00	
12,425.0	80.62	179.63	12,177.6	-84.0	577.6	134.9	12.00	12.00	0.00	
12,450.0	83.62	179.63	12,181.0	-108.8	577.7	159.5	12.00	12.00	0.00	
12,475.0	86.62	179.63	12,183.1	-133.7	577.9	184.4	12.00	12.00	0.00	
12,500.0	89.62	179.63	12,184.0	-158.7	578.1	209.3	12.00	12.00	0.00	
12,503.2	90.00	179.63	12,184.0	-161.9	578.1	212.5	12.00	12.00	0.00	
12,600.0	90.00	179.63	12,184.0	-258.6	578.7	308.9	0.00	0.00	0.00	
12,700.0	90.00	179.63	12,184.0	-358.6	579.4	408.6	0.00	0.00	0.00	
12,800.0	90.00	179.63	12,184.0	-458.6	580.0	508.2	0.00	0.00	0.00	
12,900.0	90.00	179.63	12,184.0	-558.6	580.6	607.9	0.00	0.00	0.00	
13,000.0	90.00	179.63	12,184.0	-658.6	581.3	707.6	0.00	0.00	0.00	
13,100.0	90.00	179.63	12,184.0	-758.6	581.9	807.2	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	12,184.0	-858.6	582.6	906.9	0.00	0.00	0.00
13,300.0	90.00	179.63	12,184.0	-958.6	583.2	1,006.6	0.00	0.00	0.00
13,400.0	90.00	179.63	12,184.0	-1,058.6	583.9	1,106.2	0.00	0.00	0.00
13,500.0	90.00	179.63	12,184.0	-1,158.6	584.5	1,205.9	0.00	0.00	0.00
13,600.0	90.00	179.63	12,184.0	-1,258.6	585.2	1,305.5	0.00	0.00	0.00
13,700.0	90.00	179.63	12,184.0	-1,358.6	585.8	1,405.2	0.00	0.00	0.00
13,800.0	90.00	179.63	12,184.0	-1,458.6	586.5	1,504.9	0.00	0.00	0.00
13,900.0	90.00	179.63	12,184.0	-1,558.6	587.1	1,604.5	0.00	0.00	0.00
14,000.0	90.00	179.63	12,184.0	-1,658.6	587.7	1,704.2	0.00	0.00	0.00
14,100.0	90.00	179.63	12,184.0	-1,758.6	588.4	1,803.8	0.00	0.00	0.00
14,200.0	90.00	179.63	12,184.0	-1,858.6	589.0	1,903.5	0.00	0.00	0.00
14,300.0	90.00	179.63	12,184.0	-1,958.6	589.7	2,003.2	0.00	0.00	0.00
14,400.0	90.00	179.63	12,184.0	-2,058.6	590.3	2,102.8	0.00	0.00	0.00
14,500.0	90.00	179.63	12,184.0	-2,158.6	591.0	2,202.5	0.00	0.00	0.00
14,600.0	90.00	179.63	12,184.0	-2,258.6	591.6	2,302.2	0.00	0.00	0.00
14,700.0	90.00	179.63	12,184.0	-2,358.6	592.3	2,401.8	0.00	0.00	0.00
14,800.0	90.00	179.63	12,184.0	-2,458.6	592.9	2,501.5	0.00	0.00	0.00
14,900.0	90.00	179.63	12,184.0	-2,558.6	593.6	2,601.1	0.00	0.00	0.00
15,000.0	90.00	179.63	12,184.0	-2,658.6	594.2	2,700.8	0.00	0.00	0.00
15,100.0	90.00	179.63	12,184.0	-2,758.6	594.9	2,800.5	0.00	0.00	0.00
15,200.0	90.00	179.63	12,184.0	-2,858.6	595.5	2,900.1	0.00	0.00	0.00
15,300.0	90.00	179.63	12,184.0	-2,958.6	596.1	2,999.8	0.00	0.00	0.00
15,400.0	90.00	179.63	12,184.0	-3,058.6	596.8	3,099.4	0.00	0.00	0.00
15,500.0	90.00	179.63	12,184.0	-3,158.6	597.4	3,199.1	0.00	0.00	0.00
15,600.0	90.00	179.63	12,184.0	-3,258.6	598.1	3,298.8	0.00	0.00	0.00
15,700.0	90.00	179.63	12,184.0	-3,358.6	598.7	3,398.4	0.00	0.00	0.00
15,800.0	90.00	179.63	12,184.0	-3,458.6	599.4	3,498.1	0.00	0.00	0.00
15,900.0	90.00	179.63	12,184.0	-3,558.6	600.0	3,597.8	0.00	0.00	0.00
16,000.0	90.00	179.63	12,184.0	-3,658.6	600.7	3,697.4	0.00	0.00	0.00
16,100.0	90.00	179.63	12,184.0	-3,758.6	601.3	3,797.1	0.00	0.00	0.00
16,200.0	90.00	179.63	12,184.0	-3,858.6	602.0	3,896.7	0.00	0.00	0.00
16,300.0	90.00	179.63	12,184.0	-3,958.6	602.6	3,996.4	0.00	0.00	0.00
16,400.0	90.00	179.63	12,184.0	-4,058.6	603.2	4,096.1	0.00	0.00	0.00
16,500.0	90.00	179.63	12,184.0	-4,158.6	603.9	4,195.7	0.00	0.00	0.00
16,600.0	90.00	179.63	12,184.0	-4,258.6	604.5	4,295.4	0.00	0.00	0.00
16,700.0	90.00	179.63	12,184.0	-4,358.6	605.2	4,395.0	0.00	0.00	0.00
16,800.0	90.00	179.63	12,184.0	-4,458.6	605.8	4,494.7	0.00	0.00	0.00
16,900.0	90.00	179.63	12,184.0	-4,558.6	606.5	4,594.4	0.00	0.00	0.00
17,000.0	90.00	179.63	12,184.0	-4,658.6	607.1	4,694.0	0.00	0.00	0.00
17,100.0	90.00	179.63	12,184.0	-4,758.6	607.8	4,793.7	0.00	0.00	0.00
17,200.0	90.00	179.63	12,184.0	-4,858.6	608.4	4,893.4	0.00	0.00	0.00
17,307.0	90.00	179.63	12,184.0	-4,965.6	609.1	5,000.0	0.00	0.00	0.00
17,355.5	90.00	180.60	12,184.0	-5,014.1	609.0	5,048.3	2.00	0.00	2.00
17,400.0	90.00	180.60	12,184.0	-5,058.5	608.5	5,092.6	0.00	0.00	0.00
17,500.0	90.00	180.60	12,184.0	-5,158.5	607.5	5,192.1	0.00	0.00	0.00
17,600.0	90.00	180.60	12,184.0	-5,258.5	606.4	5,291.6	0.00	0.00	0.00
17,700.0	90.00	180.60	12,184.0	-5,358.5	605.4	5,391.1	0.00	0.00	0.00
17,800.0	90.00	180.60	12,184.0	-5,458.5	604.4	5,490.6	0.00	0.00	0.00
17,900.0	90.00	180.60	12,184.0	-5,558.5	603.3	5,590.1	0.00	0.00	0.00
18,000.0	90.00	180.60	12,184.0	-5,658.5	602.3	5,689.6	0.00	0.00	0.00
18,100.0	90.00	180.60	12,184.0	-5,758.5	601.2	5,789.1	0.00	0.00	0.00
18,200.0	90.00	180.60	12,184.0	-5,858.5	600.2	5,888.6	0.00	0.00	0.00
18,300.0	90.00	180.60	12,184.0	-5,958.5	599.1	5,988.1	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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)	
18,400.0	90.00	180.60	12,184.0	-6,058.5	598.1	6,087.7	0.00	0.00	0.00	
18,500.0	90.00	180.60	12,184.0	-6,158.5	597.0	6,187.2	0.00	0.00	0.00	
18,600.0	90.00	180.60	12,184.0	-6,258.5	596.0	6,286.7	0.00	0.00	0.00	
18,700.0	90.00	180.60	12,184.0	-6,358.5	594.9	6,386.2	0.00	0.00	0.00	
18,800.0	90.00	180.60	12,184.0	-6,458.5	593.9	6,485.7	0.00	0.00	0.00	
18,900.0	90.00	180.60	12,184.0	-6,558.5	592.8	6,585.2	0.00	0.00	0.00	
19,000.0	90.00	180.60	12,184.0	-6,658.5	591.8	6,684.7	0.00	0.00	0.00	
19,100.0	90.00	180.60	12,184.0	-6,758.5	590.7	6,784.2	0.00	0.00	0.00	
19,200.0	90.00	180.60	12,184.0	-6,858.4	589.7	6,883.7	0.00	0.00	0.00	
19,300.0	90.00	180.60	12,184.0	-6,958.4	588.6	6,983.2	0.00	0.00	0.00	
19,339.0	90.00	180.60	12,184.0	-6,997.4	588.2	7,022.0	0.00	0.00	0.00	

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (ZIA HILLS UNIT 2532 WC 711H) - plan misses target center by 249.1usft at 12099.9usft MD (12023.5 TVD, 195.1 N, 575.8 E) - Circle (radius 50.0)	0.00	0.00	12,184.0	385.6	570.1	371,925.59	720,480.26	32° 1' 13.953 N	103° 37' 18.998 W	
LTP (ZIA HILLS UNIT 2532 WC 711H) - plan misses target center by 33.5usft at 19287.5usft MD (12184.0 TVD, -6946.0 N, 588.8 E) - Circle (radius 50.0)	90.00	179.63	12,184.0	-6,946.3	622.2	364,593.70	720,532.38	32° 0' 1.393 N	103° 37' 18.953 W	
PBHL (ZIA HILLS UNIT 2532 WC 711H) - plan misses target center by 34.3usft at 19337.5usft MD (12184.0 TVD, -6996.0 N, 588.3 E) - Rectangle (sides W100.0 H7,367.0 D20.0)	0.00	359.63	12,184.0	-6,996.3	622.6	364,543.70	720,532.73	32° 0' 0.899 N	103° 37' 18.953 W	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
19,339.0	12,184.0	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 711H

OWB

PWP0

Anticollision Report

18 July, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	19,339.0	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corri	

Summary						
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Site Name Offset Well - Wellbore - Design						
RED HILLS WEST						
SD WE 24 FEDERAL P24 7H - OWB - AWP	5,537.6	5,553.5	449.0	411.4	11.927 CC	
SD WE 24 FEDERAL P24 7H - OWB - AWP	5,600.0	5,617.8	449.2	411.2	11.804 ES	
SD WE 24 FEDERAL P24 7H - OWB - AWP	8,700.0	8,711.3	476.4	429.9	10.228 SF	
SD WE 24 FEDERAL P24 5H - OWB - AWP	2,410.2	2,427.8	598.1	580.1	33.243 CC, ES	
SD WE 24 FEDERAL P24 5H - OWB - AWP	4,400.0	4,338.9	873.8	842.6	28.032 SF	
SD WE 24 FEDERAL P24 6H - OWB - AWP	3,613.2	3,626.0	444.3	421.6	19.553 CC, ES	
SD WE 24 FEDERAL P24 6H - OWB - AWP	8,600.0	8,567.1	544.8	510.7	15.995 SF	
STATE LINE OFFSETS						
PATHFINDER STATE 7 21H - OWB - AWP	19,339.0	11,968.2	879.9	789.5	9.730 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	1,189.0	1,187.8	58.8	49.9	6.594 CC	
_ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0	1,200.0	1,198.7	58.8	49.9	6.566 ES	
_ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0	1,300.0	1,296.4	61.5	52.1	6.555 SF	
_ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0	1,206.7	1,204.6	88.9	79.9	9.881 CC, ES	
_ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0	1,300.0	1,295.4	90.2	80.9	9.634 SF	
_ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0	1,000.0	1,000.0	119.9	111.7	14.652 CC	
_ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0	1,100.0	1,097.5	120.1	111.5	13.915 ES	
_ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0	1,300.0	1,290.6	124.2	114.7	13.074 SF	
_ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0	1,000.0	1,000.0	149.7	141.5	18.298 CC	
_ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0	1,100.0	1,096.4	150.1	141.5	17.361 ES	
_ZIA HILLS UNIT 2532 WC 709H - OWB - PWP0	19,339.0	19,442.8	827.4	693.4	6.173 SF	
_ZIA HILLS UNIT 2532 WC 710H - OWB - PWP0	1,285.0	1,284.6	26.4	17.2	2.860 Normal Operations, CC	
_ZIA HILLS UNIT 2532 WC 710H - OWB - PWP0	1,300.0	1,299.5	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	4,650.8	4,620.2	499.0	304.7	2.568 Normal Operations, CC	
MELLISSA-FEDERAL #1 (P&A) - OWB - AWP	4,800.0	4,744.0	500.1	300.8	2.509 Normal Operations, ES, SF	
WAR HAMMER 25 FEDERAL COM W1 3H - OWB - AW	19,104.4	18,902.0	277.8	93.7	1.509 Caution - Monitor Closely, CC, ES, SF	
WAR HAMMER 25 FEDERAL COM W2 2H - OWB - AW	11,782.9	11,793.8	194.6	131.1	3.065 CC, ES	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 - OWB - AW	11,800.0	11,810.9	194.7	131.1	3.063 SF	
WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST0	11,782.9	11,793.8	194.6	131.1	3.064 CC, ES	
WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST0	11,800.0	11,810.9	194.7	131.1	3.062 SF	
WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AW	11,809.5	11,818.5	345.6	285.5	5.748 CC, ES	
WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AW	11,850.0	11,858.1	346.1	285.8	5.740 SF	
WILDER-FEDERAL #15 (P&A) - OWB - AWP	3,012.9	3,120.0	959.8	948.3	83.401 CC, ES	
WILDER-FEDERAL #15 (P&A) - OWB - AWP	3,300.0	3,262.5	991.6	978.0	72.577 SF	
WILDER-FEDERAL #23 (P&A) - OWB - AWP					Out of range	
WILDER-FEDERAL 9-X - OWB - AWP	754.6	749.8	684.7	652.2	21.077 CC	
WILDER-FEDERAL 9-X - OWB - AWP	1,100.0	1,095.5	687.3	640.5	14.658 ES	
WILDER-FEDERAL 9-X - OWB - AWP	3,300.0	3,274.1	991.3	853.2	7.179 SF	
ZIA HILLS 25E FEDERAL COM 401H - OWB - AWP	7,322.9	7,492.1	94.2	37.0	1.648 Caution - Monitor Closely, CC, ES, SF	
ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP	10,376.3	10,453.7	524.3	468.2	9.347 CC, ES, SF	
ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP	0.0	24.3	948.8	944.1	202.777 CC	
ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP	100.0	117.7	949.3	944.0	178.982 ES	
ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP	1,400.0	1,428.8	990.0	976.9	75.559 SF	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	0.0	24.8	943.8	939.1	201.701 CC	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	200.0	215.4	945.0	938.8	152.821 ES	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	1,300.0	1,270.8	994.6	981.8	78.035 SF	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	0.0	24.8	943.8	939.1	201.701 CC	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	200.0	215.4	945.0	938.8	152.821 ES	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	1,300.0	1,270.8	994.6	981.8	78.035 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		Highside		Offset Wellbore Centre		Distance		No-Go	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	
0.0	0.0	35.9	35.9	0.0	3.0	15.16	682.0	184.8	706.6	701.9	4.66	151.478
100.0	100.0	131.7	131.7	1.2	3.3	15.17	682.2	185.0	706.9	701.5	5.35	132.147
200.0	200.0	232.4	232.4	1.7	3.9	15.20	682.8	185.5	707.6	701.2	6.36	111.204
300.0	300.0	336.0	336.0	2.1	4.6	15.22	683.0	185.8	707.8	700.3	7.47	94.695
400.0	400.0	439.2	439.2	2.4	5.4	15.25	682.7	186.1	707.6	698.9	8.68	81.521
500.0	500.0	542.2	542.2	2.7	6.2	15.28	681.9	186.3	706.9	697.0	9.95	71.071
600.0	600.0	645.2	645.2	3.0	7.1	15.32	680.7	186.5	705.8	694.6	11.25	62.763
700.0	700.0	744.8	744.8	3.2	7.3	15.37	679.4	186.8	704.6	693.1	11.54	61.036
800.0	800.0	847.1	847.1	3.5	7.6	15.41	677.8	186.9	703.2	691.1	12.07	58.269
900.0	900.0	948.1	948.1	3.7	7.9	15.45	676.1	186.9	701.5	689.0	12.57	55.830
1,000.0	1,000.0	1,048.1	1,048.1	3.9	8.2	15.53	674.2	187.3	699.8	686.8	13.04	53.652
1,100.0	1,100.0	1,139.3	1,139.2	4.2	8.9	-45.65	672.5	189.3	697.4	683.2	14.14	49.327
1,200.0	1,199.8	1,228.6	1,228.3	4.5	9.8	-45.53	671.3	194.4	694.0	678.7	15.35	45.226
1,300.0	1,299.5	1,323.1	1,322.5	4.8	10.1	-45.42	670.5	202.5	689.4	673.6	15.84	43.513
1,400.0	1,398.7	1,419.0	1,417.9	5.1	10.3	-45.45	670.1	211.8	683.1	666.9	16.21	42.137
1,428.1	1,426.5	1,446.4	1,445.1	5.1	10.3	-45.49	670.0	214.6	680.9	664.6	16.29	41.801
1,500.0	1,497.6	1,517.6	1,516.0	5.2	10.5	-45.52	669.7	222.1	675.2	658.7	16.52	40.873
1,600.0	1,596.5	1,616.0	1,613.8	5.4	10.7	-45.53	669.4	232.8	667.4	650.5	16.87	39.565
1,700.0	1,695.4	1,711.7	1,708.9	5.5	10.9	-45.47	669.3	244.0	660.0	642.8	17.21	38.352
1,800.0	1,794.3	1,809.1	1,805.4	5.7	11.1	-45.32	669.4	256.5	653.2	635.6	17.56	37.201
1,900.0	1,893.1	1,909.4	1,904.7	5.9	11.4	-45.05	669.2	270.7	646.4	628.5	17.92	36.064

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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		
2,000.0	1,992.0	2,011.2	2,005.3	6.1	11.7	-44.65	668.5	286.2	639.6	621.3	18.30	34.946		
2,100.0	2,090.9	2,114.0	2,106.8	6.2	12.0	-44.17	667.1	302.5	632.2	613.5	18.69	33.834		
2,200.0	2,189.8	2,217.6	2,209.0	6.4	12.3	-43.60	664.9	319.5	624.4	605.3	19.09	32.713		
2,300.0	2,288.7	2,320.6	2,310.5	6.6	12.7	-42.94	661.8	337.1	616.0	596.5	19.49	31.604		
2,400.0	2,387.6	2,420.4	2,408.6	6.8	13.1	-42.20	658.3	354.7	607.3	587.4	19.89	30.528		
2,500.0	2,486.5	2,522.3	2,508.7	7.0	13.4	-41.37	654.4	373.1	598.7	578.4	20.31	29.477		
2,600.0	2,585.3	2,628.1	2,612.8	7.2	13.8	-40.52	649.5	391.7	589.2	568.5	20.74	28.407		
2,700.0	2,684.2	2,729.1	2,712.3	7.3	14.2	-39.73	644.3	408.6	579.1	557.9	21.16	27.361		
2,800.0	2,783.1	2,828.1	2,809.8	7.5	14.6	-38.99	639.4	424.6	569.0	547.4	21.58	26.364		
2,900.0	2,882.0	2,922.4	2,903.0	7.7	15.0	-38.41	635.6	438.6	559.5	537.5	21.99	25.440		
3,000.0	2,980.9	3,016.0	2,995.8	7.9	15.5	-38.12	633.9	450.3	550.9	528.5	22.40	24.600		
3,100.0	3,079.8	3,111.1	3,090.3	8.1	15.8	-37.96	633.5	461.2	543.4	520.6	22.78	23.856		
3,200.0	3,178.7	3,206.1	3,184.6	8.3	16.2	-37.78	633.8	472.7	536.7	513.6	23.16	23.175		
3,300.0	3,277.5	3,303.1	3,280.8	8.5	16.5	-37.50	634.5	485.5	530.8	507.2	23.57	22.524		
3,400.0	3,376.4	3,399.7	3,376.3	8.7	16.9	-37.08	635.0	499.5	525.4	501.4	23.98	21.909		
3,500.0	3,475.3	3,495.3	3,470.7	8.8	17.3	-36.54	635.8	514.6	520.8	496.4	24.41	21.333		
3,600.0	3,574.2	3,591.0	3,565.0	9.0	17.6	-35.87	636.8	531.0	517.0	492.2	24.86	20.797		
3,700.0	3,673.1	3,686.8	3,659.2	9.2	18.0	-35.11	638.2	548.4	514.1	488.8	25.33	20.298		
3,800.0	3,772.0	3,787.2	3,757.7	9.4	18.4	-34.21	639.6	567.6	511.8	485.9	25.84	19.802		
3,900.0	3,870.9	3,890.3	3,858.6	9.6	18.9	-33.09	639.8	588.5	509.0	482.6	26.40	19.278		
4,000.0	3,969.7	3,993.5	3,959.5	9.8	19.3	-31.75	638.5	610.6	505.7	478.7	27.00	18.733		
4,100.0	4,068.6	4,095.8	4,059.1	10.0	19.7	-30.19	635.6	633.7	502.0	474.4	27.61	18.179		
4,200.0	4,167.5	4,196.0	4,156.5	10.2	20.2	-28.55	631.9	656.7	498.2	470.0	28.25	17.636		
4,300.0	4,266.4	4,298.1	4,255.8	10.4	20.6	-26.82	627.8	680.3	494.5	465.6	28.92	17.101		
4,400.0	4,365.3	4,403.1	4,357.8	10.6	21.1	-24.94	622.2	704.4	490.2	460.6	29.63	16.548		
4,500.0	4,464.2	4,503.9	4,455.7	10.8	21.5	-23.00	615.5	727.7	485.5	455.2	30.34	16.003		
4,600.0	4,563.1	4,603.1	4,551.9	11.0	22.0	-20.97	608.4	750.9	481.1	450.1	31.07	15.485		
4,700.0	4,661.9	4,702.5	4,648.6	11.1	22.6	-19.09	602.1	773.0	477.2	445.4	31.86	14.977		
4,800.0	4,760.8	4,803.0	4,747.2	11.3	23.1	-17.69	598.7	792.0	473.5	440.9	32.63	14.510		
4,900.0	4,859.7	4,903.5	4,846.2	11.5	23.6	-16.48	596.2	809.6	469.8	436.4	33.30	14.105		
5,000.0	4,958.6	5,005.0	4,946.1	11.7	24.0	-15.26	593.7	827.0	465.9	432.0	33.98	13.710		
5,100.0	5,057.5	5,108.1	5,047.7	11.9	24.4	-14.04	590.8	844.0	461.7	427.0	34.67	13.315		
5,190.5	5,147.0	5,200.5	5,138.9	12.1	24.8	-12.96	588.1	858.5	457.3	422.1	35.28	12.961		
5,200.0	5,156.4	5,210.1	5,148.5	12.1	24.9	-12.85	587.8	860.0	456.9	421.5	35.35	12.926		
5,300.0	5,255.4	5,311.7	5,248.8	12.3	25.3	-11.69	585.0	875.2	452.8	416.8	36.05	12.561		
5,400.0	5,354.7	5,413.1	5,349.2	12.5	25.7	-10.54	582.3	889.7	450.2	413.5	36.72	12.261		
5,500.0	5,454.1	5,514.8	5,449.8	12.7	26.1	-9.37	579.5	903.8	449.1	411.7	37.40	12.009		
5,537.6	5,491.5	5,553.5	5,488.2	12.8	26.3	-8.94	578.5	908.9	449.0	411.4	37.65	11.927 CC		
5,600.0	5,553.7	5,617.8	5,552.0	12.9	26.5	-8.26	576.9	917.0	449.2	411.2	38.06	11.804 ES		
5,700.0	5,653.5	5,722.8	5,656.2	13.1	27.0	-7.26	574.8	929.0	450.4	411.7	38.71	11.636		
5,800.0	5,753.4	5,830.2	5,763.2	13.2	27.4	-6.50	573.5	938.6	451.9	412.5	39.32	11.491		
5,900.0	5,853.3	5,937.8	5,870.6	13.4	27.8	-6.01	573.1	945.5	453.4	413.6	39.85	11.378		
6,000.0	5,953.3	6,044.5	5,977.1	13.5	28.2	-5.76	573.3	949.6	455.0	414.7	40.32	11.286		
6,046.7	6,000.0	6,091.2	6,023.8	13.6	28.3	55.56	573.4	951.0	456.1	415.6	40.50	11.262		
6,100.0	6,053.3	6,144.5	6,077.1	13.6	28.5	55.66	573.6	952.6	457.5	416.8	40.70	11.242		
6,200.0	6,153.3	6,244.8	6,177.4	13.6	28.8	55.85	573.8	955.7	460.2	419.1	41.09	11.199		
6,300.0	6,253.3	6,345.6	6,278.1	13.7	29.1	56.04	574.0	958.6	462.7	421.2	41.48	11.155		
6,400.0	6,353.3	6,445.4	6,377.9	13.8	29.4	56.21	574.2	961.4	465.1	423.2	41.87	11.107		
6,500.0	6,453.3	6,544.7	6,477.2	13.9	29.6	56.29	575.0	963.8	467.6	425.3	42.25	11.065		
6,600.0	6,553.3	6,646.2	6,578.7	13.9	29.9	56.33	576.1	966.1	470.0	427.4	42.62	11.028		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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
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)			
6,700.0	6,653.3	6,748.2	6,680.6	14.0	30.2	56.36	577.1	968.0	472.1	429.1	42.99	10.982	
6,800.0	6,753.3	6,849.7	6,782.2	14.1	30.4	56.40	577.7	969.6	473.8	430.4	43.34	10.932	
6,900.0	6,853.3	6,950.8	6,883.2	14.1	30.6	56.44	578.3	970.9	475.1	431.4	43.69	10.876	
7,000.0	6,953.3	7,050.8	6,983.2	14.2	30.9	56.44	579.0	971.9	476.4	432.4	44.02	10.821	
7,100.0	7,053.3	7,154.8	7,087.2	14.3	31.0	56.41	579.7	972.7	477.4	433.2	44.22	10.798	
7,200.0	7,153.3	7,261.5	7,193.8	14.4	31.1	56.44	579.4	972.6	477.2	432.9	44.31	10.768	
7,300.0	7,253.3	7,361.3	7,293.7	14.4	31.1	56.50	578.4	972.1	476.2	431.9	44.30	10.748	
7,400.0	7,353.3	7,460.8	7,393.2	14.5	31.1	56.55	577.6	971.6	475.3	431.1	44.28	10.735	
7,500.0	7,453.3	7,561.2	7,493.6	14.6	31.0	56.57	577.0	971.0	474.5	430.3	44.24	10.726	
7,600.0	7,553.3	7,661.0	7,593.4	14.7	31.0	56.56	576.6	970.1	473.6	429.4	44.21	10.712	
7,700.0	7,653.3	7,759.6	7,692.0	14.7	30.9	56.57	576.1	969.6	472.8	428.6	44.20	10.697	
7,800.0	7,753.3	7,858.5	7,790.9	14.8	31.0	56.60	575.6	969.4	472.4	428.2	44.23	10.680	
7,900.0	7,853.3	7,957.6	7,890.0	14.9	31.0	56.63	575.3	969.3	472.2	427.9	44.28	10.663	
8,000.0	7,953.3	8,057.5	7,989.9	14.9	31.1	56.64	575.1	969.3	472.0	427.7	44.35	10.643	
8,100.0	8,053.3	8,157.7	8,090.0	15.0	31.2	56.68	574.8	969.3	471.9	427.5	44.43	10.620	
8,200.0	8,153.3	8,258.0	8,190.3	15.1	31.3	56.74	574.3	969.4	471.7	427.2	44.54	10.591	
8,300.0	8,253.3	8,358.4	8,290.8	15.2	31.4	56.84	573.5	969.7	471.4	426.8	44.63	10.563	
8,400.0	8,353.3	8,459.4	8,391.7	15.2	31.5	56.92	572.7	969.7	471.0	426.4	44.68	10.543	
8,500.0	8,453.3	8,559.6	8,491.9	15.3	31.5	56.98	572.0	969.5	470.5	425.8	44.68	10.530	
8,536.6	8,489.9	8,593.5	8,525.9	15.3	31.7	57.00	571.8	969.4	470.3	425.3	44.96	10.461	
8,600.0	8,553.3	8,646.6	8,578.9	15.4	32.3	56.73	573.9	968.7	471.0	425.0	45.99	10.241	
8,700.0	8,653.3	8,711.3	8,642.9	15.5	32.6	55.69	582.9	966.6	476.4	429.9	46.58	10.228 SF	
8,800.0	8,753.3	8,770.6	8,699.2	15.5	32.5	53.70	601.2	963.9	490.9	444.3	46.53	10.550	
8,900.0	8,853.3	8,845.0	8,768.0	15.6	32.5	50.84	629.1	959.9	511.1	465.0	46.12	11.082	
9,000.0	8,953.3	8,923.1	8,838.0	15.7	32.4	47.51	663.0	954.3	536.1	490.4	45.69	11.733	
9,100.0	9,053.3	8,977.1	8,883.8	15.8	32.4	44.86	691.1	948.6	568.2	522.9	45.24	12.560	
9,200.0	9,153.3	9,022.0	8,919.1	15.8	32.4	42.41	718.1	942.7	608.5	563.7	44.76	13.594	
9,300.0	9,253.3	9,057.3	8,944.9	15.9	32.4	40.39	741.7	937.5	656.9	612.7	44.24	14.849	
9,400.0	9,353.3	9,111.0	8,980.4	16.0	32.5	37.29	781.1	929.5	713.8	669.9	43.94	16.244	
9,500.0	9,453.3	9,111.0	8,980.4	16.1	32.5	37.29	781.1	929.5	775.5	732.1	43.34	17.891	
9,600.0	9,553.3	9,111.0	8,980.4	16.1	32.5	37.29	781.1	929.5	844.4	801.7	42.78	19.741	
9,700.0	9,653.3	9,154.4	9,006.0	16.2	32.6	34.93	815.8	924.3	916.0	873.3	42.72	21.442	
9,800.0	9,753.3	9,199.0	9,029.4	16.3	32.8	32.79	853.7	921.6	993.6	950.8	42.80	23.214	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	35.9	35.9	0.0	3.0	11.20	681.0	134.8	694.2	689.5	4.66	148.823	
100.0	100.0	132.0	132.0	1.2	3.3	11.16	681.3	134.4	694.5	689.1	5.35	129.814	
200.0	200.0	230.0	230.0	1.7	3.6	11.06	682.3	133.4	695.3	689.2	6.05	114.929	
300.0	300.0	332.3	332.3	2.1	4.0	11.00	683.2	132.8	696.0	689.2	6.82	102.123	
400.0	400.0	436.1	436.0	2.4	4.7	10.96	683.6	132.3	696.3	688.5	7.76	89.770	
500.0	500.0	538.7	538.6	2.7	5.3	10.92	683.5	131.9	696.1	687.3	8.77	79.328	
600.0	600.0	641.1	641.1	3.0	6.1	10.88	683.0	131.3	695.5	685.7	9.83	70.727	
700.0	700.0	742.4	742.4	3.2	6.5	10.84	682.2	130.6	694.7	684.2	10.48	66.286	
800.0	800.0	843.3	843.3	3.5	6.7	10.78	681.4	129.7	693.7	682.8	10.90	63.637	
900.0	900.0	944.8	944.7	3.7	7.1	10.69	680.5	128.4	692.5	681.1	11.43	60.582	
1,000.0	1,000.0	1,046.6	1,046.6	3.9	7.5	10.52	679.5	126.2	691.2	679.2	11.95	57.847	
1,100.0	1,100.0	1,148.5	1,148.3	4.2	7.9	-51.25	678.6	121.4	688.4	675.9	12.48	55.148	
1,200.0	1,199.8	1,249.3	1,248.9	4.5	8.3	-52.20	677.8	114.9	683.3	670.3	12.97	52.687	
1,300.0	1,299.5	1,349.8	1,349.2	4.8	8.6	-53.50	676.9	107.7	676.1	662.6	13.44	50.297	
1,400.0	1,398.7	1,450.8	1,449.8	5.1	9.0	-55.19	675.8	99.4	666.8	652.9	13.90	47.978	
1,428.1	1,426.5	1,479.0	1,477.8	5.1	9.1	-55.74	675.4	97.0	663.8	649.8	14.00	47.433	
1,500.0	1,497.6	1,550.2	1,548.7	5.2	9.3	-57.06	674.4	90.4	656.2	641.9	14.27	45.995	
1,600.0	1,596.5	1,648.4	1,646.5	5.4	9.7	-58.99	672.8	80.8	646.0	631.3	14.67	44.034	
1,700.0	1,695.4	1,746.6	1,744.1	5.5	10.1	-61.04	671.0	70.4	636.4	621.3	15.07	42.232	
1,800.0	1,794.3	1,844.4	1,841.3	5.7	10.4	-63.23	669.1	59.0	627.4	612.0	15.46	40.578	
1,900.0	1,893.1	1,940.8	1,936.8	5.9	10.8	-65.54	667.1	46.7	619.4	603.6	15.86	39.063	
2,000.0	1,992.0	2,036.4	2,031.4	6.1	11.2	-67.98	665.0	33.6	612.6	596.3	16.25	37.691	
2,100.0	2,090.9	2,133.8	2,127.8	6.2	11.5	-70.60	662.7	19.2	606.9	590.2	16.66	36.431	
2,200.0	2,189.8	2,230.4	2,223.1	6.4	11.9	-73.37	659.9	3.6	602.4	585.3	17.07	35.284	
2,300.0	2,288.7	2,325.1	2,316.3	6.6	12.3	-76.21	656.9	-12.7	599.3	581.8	17.50	34.246	
2,400.0	2,387.6	2,418.5	2,408.1	6.8	12.7	-79.11	653.7	-29.6	598.1	580.1	17.95	33.329	
2,410.2	2,397.6	2,427.8	2,417.3	6.8	12.7	-79.40	653.4	-31.3	598.1	580.1	17.99	33.243 CC, ES	
2,500.0	2,486.5	2,509.8	2,497.8	7.0	13.1	-81.97	650.9	-46.5	599.0	580.6	18.41	32.541	
2,600.0	2,585.3	2,601.5	2,587.8	7.2	13.5	-84.83	648.6	-63.7	602.2	583.3	18.90	31.870	
2,700.0	2,684.2	2,694.2	2,679.0	7.3	13.9	-87.64	646.6	-80.8	607.5	588.1	19.42	31.288	
2,800.0	2,783.1	2,789.7	2,772.9	7.5	14.3	-90.44	645.2	-98.0	614.6	594.6	19.97	30.775	
2,900.0	2,882.0	2,889.4	2,871.1	7.7	14.7	-93.21	643.6	-115.0	622.7	602.1	20.56	30.279	
3,000.0	2,980.9	2,988.1	2,968.5	7.9	15.1	-95.82	641.8	-130.8	631.5	610.4	21.17	29.832	
3,100.0	3,079.8	3,086.3	3,065.5	8.1	15.5	-98.33	639.9	-146.1	641.2	619.4	21.79	29.431	
3,200.0	3,178.7	3,181.5	3,159.6	8.3	15.9	-100.66	638.0	-160.5	651.9	629.5	22.40	29.096	
3,300.0	3,277.5	3,276.2	3,253.2	8.5	16.3	-102.88	636.5	-174.7	663.8	640.8	23.03	28.819	
3,400.0	3,376.4	3,371.6	3,347.5	8.7	16.7	-104.99	635.4	-188.7	676.9	653.2	23.68	28.583	
3,500.0	3,475.3	3,466.8	3,441.7	8.8	17.1	-106.97	634.8	-202.2	690.9	666.5	24.33	28.391	
3,600.0	3,574.2	3,556.7	3,530.7	9.0	17.5	-108.76	634.6	-215.3	706.2	681.3	24.98	28.277	
3,700.0	3,673.1	3,645.9	3,618.8	9.2	17.9	-110.51	634.6	-229.2	723.2	697.6	25.63	28.219	
3,800.0	3,772.0	3,732.3	3,703.9	9.4	18.3	-112.23	634.1	-244.1	742.0	715.7	26.33	28.183	
3,900.0	3,870.9	3,817.6	3,787.6	9.6	18.7	-113.98	632.8	-260.7	762.8	735.7	27.03	28.216	
4,000.0	3,969.7	3,907.3	3,875.3	9.8	19.1	-115.82	631.1	-279.4	785.3	757.5	27.75	28.294	
4,100.0	4,068.6	3,998.6	3,964.5	10.0	19.5	-117.62	629.1	-299.0	809.1	780.6	28.49	28.397	
4,200.0	4,167.5	4,118.6	4,082.0	10.2	20.1	-119.81	626.3	-323.0	832.3	802.8	29.50	28.209	
4,300.0	4,266.4	4,231.5	4,193.2	10.4	20.6	-121.66	622.9	-342.2	853.5	823.1	30.38	28.093	
4,400.0	4,365.3	4,338.9	4,299.2	10.6	21.1	-123.35	618.8	-359.1	873.8	842.6	31.17	28.032 SF	
4,500.0	4,464.2	4,438.4	4,397.4	10.8	21.5	-124.89	613.8	-374.2	893.7	861.9	31.82	28.085	
4,600.0	4,563.1	4,533.0	4,490.7	11.0	21.9	-126.33	608.6	-388.7	914.1	881.6	32.52	28.109	
4,700.0	4,661.9	4,628.4	4,584.8	11.1	22.3	-127.73	603.0	-403.4	935.1	901.9	33.23	28.146	
4,800.0	4,760.8	4,729.1	4,684.2	11.3	22.7	-129.13	597.3	-418.6	956.4	922.4	33.95	28.167	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
4,900.0	4,859.7	4,825.1	4,779.1	11.5	23.1	-130.39	592.0	-432.5	977.6	943.0	34.65	28.213		
5,000.0	4,958.6	4,914.0	4,866.8	11.7	23.5	-131.52	587.0	-445.8	999.7	964.4	35.31	28.315		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	13.21	681.0	159.8	699.5	694.8	4.66	149.954	
100.0	100.0	134.8	134.8	1.2	3.3	13.19	681.1	159.6	699.6	694.1	5.44	128.709	
200.0	200.0	233.7	233.7	1.7	4.2	13.14	681.5	159.1	699.8	693.0	6.77	103.404	
300.0	300.0	336.3	336.3	2.1	4.8	13.06	681.9	158.2	700.0	692.2	7.80	89.692	
400.0	400.0	440.2	440.2	2.4	5.4	13.00	681.7	157.4	699.7	691.0	8.69	80.521	
500.0	500.0	542.3	542.3	2.7	5.8	12.96	681.1	156.7	698.9	689.6	9.37	74.623	
600.0	600.0	644.2	644.2	3.0	6.2	12.89	680.3	155.7	697.9	687.9	9.97	69.977	
700.0	700.0	745.5	745.5	3.2	6.3	12.88	679.0	155.2	696.6	686.3	10.28	67.730	
800.0	800.0	848.3	848.3	3.5	6.5	12.91	677.4	155.3	695.1	684.4	10.75	64.633	
900.0	900.0	954.0	954.0	3.7	6.9	12.96	675.1	155.3	692.9	681.6	11.34	61.086	
1,000.0	1,000.0	1,056.9	1,056.8	3.9	7.2	12.98	672.2	154.9	690.1	678.2	11.90	57.972	
1,100.0	1,100.0	1,159.0	1,158.8	4.2	7.6	-48.46	669.1	153.9	685.8	673.3	12.49	54.915	
1,200.0	1,199.8	1,260.4	1,260.2	4.5	7.9	-48.95	665.8	152.5	678.8	665.8	13.05	52.006	
1,300.0	1,299.5	1,362.4	1,362.1	4.8	8.3	-49.75	662.2	150.9	669.4	655.8	13.61	49.169	
1,400.0	1,398.7	1,465.7	1,465.3	5.1	8.6	-50.88	658.1	148.9	657.3	643.1	14.17	46.374	
1,428.1	1,426.5	1,494.6	1,494.2	5.1	8.7	-51.26	656.8	148.3	653.4	639.1	14.30	45.691	
1,500.0	1,497.6	1,567.6	1,567.0	5.2	9.0	-52.11	653.4	146.6	643.1	628.4	14.65	43.908	
1,600.0	1,596.5	1,668.6	1,667.9	5.4	9.3	-53.36	648.2	144.0	628.6	613.4	15.16	41.469	
1,700.0	1,695.4	1,769.0	1,768.1	5.5	9.7	-54.70	642.8	141.0	613.9	598.3	15.66	39.200	
1,800.0	1,794.3	1,869.3	1,868.2	5.7	10.0	-56.16	637.0	137.3	599.3	583.1	16.16	37.084	
1,900.0	1,893.1	1,971.4	1,969.9	5.9	10.4	-57.77	630.6	133.0	584.4	567.8	16.66	35.077	
2,000.0	1,992.0	2,071.7	2,069.9	6.1	10.7	-59.46	623.5	128.4	569.3	552.2	17.15	33.203	
2,100.0	2,090.9	2,168.9	2,166.8	6.2	11.1	-61.17	616.6	124.2	554.6	537.0	17.61	31.487	
2,200.0	2,189.8	2,263.2	2,260.7	6.4	11.4	-62.88	610.0	120.4	540.6	522.5	18.06	29.933	
2,300.0	2,288.7	2,354.6	2,352.0	6.6	11.8	-64.54	604.6	117.5	528.1	509.6	18.48	28.571	
2,400.0	2,387.6	2,449.2	2,446.5	6.8	12.1	-66.24	600.0	115.1	517.1	498.2	18.90	27.363	
2,500.0	2,486.5	2,546.1	2,543.2	7.0	12.4	-68.03	595.7	112.8	507.0	487.7	19.30	26.265	
2,600.0	2,585.3	2,646.1	2,643.0	7.2	12.8	-69.95	591.2	110.5	497.4	477.7	19.70	25.245	
2,700.0	2,684.2	2,746.9	2,743.7	7.3	13.1	-72.02	586.1	107.7	487.9	467.8	20.09	24.287	
2,800.0	2,783.1	2,843.1	2,839.8	7.5	13.5	-74.06	581.1	105.1	478.9	458.4	20.44	23.424	
2,900.0	2,882.0	2,939.2	2,935.7	7.7	13.8	-76.10	576.6	103.1	470.9	450.1	20.78	22.658	
3,000.0	2,980.9	3,033.2	3,029.6	7.9	14.1	-78.09	573.0	101.4	464.3	443.2	21.09	22.014	
3,100.0	3,079.8	3,128.4	3,124.7	8.1	14.4	-80.09	570.2	99.9	459.1	437.7	21.39	21.469	
3,200.0	3,178.7	3,226.3	3,222.7	8.3	14.7	-82.09	568.0	99.1	454.9	433.2	21.68	20.986	
3,300.0	3,277.5	3,325.1	3,321.5	8.5	15.0	-84.01	566.2	99.2	451.4	429.4	21.98	20.537	
3,400.0	3,376.4	3,425.1	3,421.4	8.7	15.2	-85.76	565.0	100.9	448.1	425.8	22.30	20.097	
3,500.0	3,475.3	3,520.6	3,516.9	8.8	15.3	-87.32	564.3	103.6	445.4	422.9	22.53	19.774	
3,600.0	3,574.2	3,613.7	3,610.0	9.0	15.3	-88.92	564.4	105.1	444.3	421.6	22.70	19.573	
3,613.2	3,587.3	3,626.0	3,622.3	9.1	15.3	-89.14	564.5	105.2	444.3	421.6	22.72	19.553 CC, ES	
3,700.0	3,673.1	3,709.6	3,705.9	9.2	15.3	-90.66	565.2	105.6	444.7	421.9	22.81	19.495	
3,800.0	3,772.0	3,806.3	3,802.5	9.4	15.3	-92.44	566.3	105.6	446.1	423.2	22.92	19.467	
3,900.0	3,870.9	3,905.6	3,901.8	9.6	15.3	-94.23	567.7	105.6	448.2	425.2	23.03	19.461	
4,000.0	3,969.7	4,005.8	4,002.0	9.8	15.3	-95.93	569.4	106.3	450.6	427.4	23.17	19.444	
4,100.0	4,068.6	4,109.4	4,105.6	10.0	15.3	-97.58	571.1	108.1	452.7	429.3	23.38	19.362	
4,200.0	4,167.5	4,214.0	4,210.2	10.2	15.4	-99.14	572.3	111.0	454.0	430.4	23.62	19.220	
4,300.0	4,266.4	4,319.5	4,315.6	10.4	15.4	-100.70	572.4	114.9	454.4	430.5	23.90	19.012	
4,400.0	4,365.3	4,420.9	4,416.8	10.6	15.5	-102.25	571.5	119.0	454.1	430.0	24.11	18.833	
4,472.1	4,436.5	4,492.3	4,488.2	10.7	15.5	-103.41	570.5	121.5	454.0	429.7	24.33	18.662	
4,500.0	4,464.2	4,519.9	4,515.8	10.8	15.6	-103.87	570.0	122.4	454.0	429.6	24.42	18.594	
4,504.4	4,468.6	4,524.3	4,520.2	10.8	15.6	-103.94	569.9	122.6	454.0	429.6	24.43	18.584	
4,600.0	4,563.1	4,611.0	4,606.8	11.0	15.7	-105.39	568.5	125.4	454.4	429.7	24.71	18.389	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 Between Centres (usft)		Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,700.0	4,661.9	4,708.2	4,704.0	11.1	15.8	-106.94	568.0	128.1	456.2	431.1	25.11	18.172		
4,800.0	4,760.8	4,799.4	4,795.2	11.3	15.9	-108.21	569.8	130.3	460.4	434.9	25.45	18.091		
4,900.0	4,859.7	4,899.1	4,894.8	11.5	15.9	-109.53	572.5	132.4	465.5	439.9	25.68	18.130		
5,000.0	4,958.6	4,996.8	4,992.5	11.7	15.9	-110.82	575.0	134.3	470.9	445.0	25.89	18.185		
5,100.0	5,057.5	5,089.9	5,085.5	11.9	16.0	-112.16	577.0	134.8	477.5	451.4	26.09	18.301		
5,190.5	5,147.0	5,176.1	5,171.7	12.1	16.0	-113.50	578.6	133.7	484.7	458.4	26.27	18.454		
5,200.0	5,156.4	5,185.6	5,181.2	12.1	16.0	-113.65	578.8	133.5	485.5	459.2	26.28	18.473		
5,300.0	5,255.4	5,285.7	5,281.2	12.3	16.1	-115.17	580.4	132.0	493.4	466.9	26.53	18.601		
5,400.0	5,354.7	5,385.9	5,381.4	12.5	16.1	-116.46	581.8	130.6	500.7	474.0	26.75	18.718		
5,500.0	5,454.1	5,486.2	5,481.8	12.7	16.2	-117.53	583.1	129.4	507.2	480.2	26.98	18.800		
5,600.0	5,553.7	5,586.4	5,581.9	12.9	16.3	-118.40	584.3	128.2	512.9	485.7	27.21	18.845		
5,700.0	5,653.5	5,686.7	5,682.2	13.1	16.4	-119.11	585.2	127.1	517.7	490.2	27.45	18.858		
5,800.0	5,753.4	5,787.4	5,782.9	13.2	16.5	-119.64	585.9	125.9	521.5	493.9	27.69	18.834		
5,900.0	5,853.3	5,888.1	5,883.6	13.4	16.6	-120.02	586.3	124.8	524.4	496.5	27.93	18.776		
6,000.0	5,953.3	5,988.8	5,984.3	13.5	16.7	-120.22	586.7	123.8	526.3	498.1	28.16	18.687		
6,046.7	6,000.0	6,035.8	6,031.3	13.6	16.8	-59.01	586.8	123.4	526.8	498.6	28.25	18.648		
6,100.0	6,053.3	6,089.1	6,084.6	13.6	16.8	-59.02	587.0	122.9	527.3	498.9	28.35	18.601		
6,200.0	6,153.3	6,189.1	6,184.5	13.6	17.0	-59.04	587.3	122.1	528.2	499.6	28.56	18.496		
6,300.0	6,253.3	6,289.4	6,284.9	13.7	17.1	-59.06	587.6	121.2	529.1	500.3	28.77	18.388		
6,400.0	6,353.3	6,390.0	6,385.5	13.8	17.3	-59.08	587.8	120.4	529.8	500.9	28.99	18.278		
6,500.0	6,453.3	6,491.7	6,487.1	13.9	17.4	-59.10	588.0	119.9	530.4	501.2	29.21	18.160		
6,600.0	6,553.3	6,592.5	6,587.9	13.9	17.6	-59.11	588.0	119.6	530.7	501.3	29.43	18.034		
6,700.0	6,653.3	6,691.5	6,686.9	14.0	17.7	-59.14	588.0	119.1	531.0	501.4	29.64	17.914		
6,800.0	6,753.3	6,790.4	6,785.9	14.1	17.9	-59.20	587.8	118.4	531.6	501.7	29.86	17.801		
6,900.0	6,853.3	6,889.3	6,884.8	14.1	18.1	-59.30	587.4	117.3	532.3	502.2	30.09	17.694		
7,000.0	6,953.3	6,989.2	6,984.6	14.2	18.3	-59.44	586.7	115.9	533.2	502.9	30.31	17.590		
7,100.0	7,053.3	7,089.3	7,084.7	14.3	18.5	-59.61	585.7	114.3	534.1	503.5	30.54	17.487		
7,200.0	7,153.3	7,189.3	7,184.7	14.4	18.7	-59.78	584.8	112.8	534.9	504.2	30.77	17.383		
7,300.0	7,253.3	7,289.3	7,284.7	14.4	18.9	-59.94	584.0	111.3	535.8	504.8	31.00	17.282		
7,400.0	7,353.3	7,389.4	7,384.8	14.5	19.1	-60.11	583.0	109.7	536.6	505.4	31.23	17.182		
7,500.0	7,453.3	7,490.2	7,485.6	14.6	19.3	-60.33	581.6	108.0	537.4	506.0	31.46	17.081		
7,600.0	7,553.3	7,591.9	7,587.3	14.7	19.6	-60.55	580.1	106.6	538.0	506.3	31.69	16.975		
7,700.0	7,653.3	7,692.5	7,687.8	14.7	19.8	-60.76	578.5	105.3	538.3	506.3	31.91	16.865		
7,800.0	7,753.3	7,792.4	7,787.7	14.8	20.0	-60.93	577.3	104.3	538.5	506.4	32.13	16.760		
7,900.0	7,853.3	7,891.7	7,887.0	14.9	20.2	-61.09	576.1	103.3	538.9	506.5	32.35	16.657		
8,000.0	7,953.3	7,991.0	7,986.2	14.9	20.4	-61.27	574.9	102.0	539.4	506.8	32.57	16.559		
8,100.0	8,053.3	8,090.7	8,086.0	15.0	20.7	-61.46	573.6	100.6	540.0	507.2	32.80	16.462		
8,200.0	8,153.3	8,190.7	8,185.9	15.1	20.9	-61.67	572.2	99.2	540.6	507.6	33.03	16.368		
8,300.0	8,253.3	8,291.0	8,286.2	15.2	21.1	-61.87	570.8	97.7	541.2	508.0	33.26	16.274		
8,400.0	8,353.3	8,391.5	8,386.7	15.2	21.3	-62.08	569.3	96.3	541.7	508.3	33.47	16.186		
8,500.0	8,453.3	8,492.2	8,487.4	15.3	21.6	-62.33	567.3	94.8	542.1	508.5	33.68	16.099		
8,600.0	8,553.3	8,591.7	8,586.9	15.4	22.0	-62.29	568.7	93.3	544.8	510.7	34.06	15.995 SF		
8,700.0	8,653.3	8,691.7	8,686.9	15.5	22.3	-61.79	575.0	91.5	553.6	519.1	34.50	16.046		
8,800.0	8,753.3	8,792.5	8,787.7	15.5	22.6	-60.72	588.1	89.1	571.5	536.6	34.96	16.346		
8,900.0	8,853.3	8,891.7	8,886.9	15.6	22.6	-59.06	609.0	85.6	597.7	562.6	35.10	17.030		
9,000.0	8,953.3	8,991.7	8,986.9	15.7	22.6	-56.97	636.6	81.1	630.9	595.6	35.26	17.890		
9,100.0	9,053.3	9,091.7	9,086.9	15.8	22.6	-54.45	670.8	77.9	668.8	633.4	35.44	18.874		
9,200.0	9,153.3	9,191.7	9,186.9	15.8	22.6	-52.13	703.3	76.4	712.0	676.4	35.63	19.986		
9,300.0	9,253.3	9,291.7	9,286.9	15.9	22.6	-50.63	725.2	75.7	761.2	725.4	35.76	21.284		
9,400.0	9,353.3	9,391.7	9,386.9	16.0	22.7	-48.60	756.1	75.3	816.0	779.8	36.10	22.600		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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)					
9,500.0	9,453.3	9,023.0	8,947.2		16.1	22.7	-46.49	789.9	75.4	876.6	840.1	36.51	24.009
9,600.0	9,553.3	9,023.0	8,947.2		16.1	22.7	-46.49	789.9	75.4	941.7	905.1	36.60	25.731

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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:	STATE LINE OFFSETS - PATHFINDER STATE 7 21H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	198-r.5 MWD											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)		
19,100.0	12,184.0	11,865.7	11,818.6	60.8	31.7	-66.48	-7,223.6	1,374.7	974.1	893.1	81.03	12.021	
19,200.0	12,184.0	11,910.4	11,856.5	61.6	31.7	-68.90	-7,247.3	1,377.4	930.1	845.1	85.03	10.939	
19,300.0	12,184.0	11,950.0	11,888.4	62.4	31.7	-70.97	-7,270.6	1,378.9	892.6	803.7	88.97	10.033	
19,339.0	12,184.0	11,968.2	11,902.4	62.7	31.7	-71.90	-7,282.1	1,379.3	879.9	789.5	90.43	9.730 CC, ES, SF	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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						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 (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-0.54	60.0	-0.6	60.0	59.5	0.48	125.144		
100.0	100.0	100.0	100.0	1.2	1.2	-0.54	60.0	-0.6	60.0	57.1	2.87	20.929		
200.0	200.0	200.0	200.0	1.7	1.7	-0.54	60.0	-0.6	60.0	56.1	3.86	15.530		
300.0	300.0	300.0	300.0	2.1	2.1	-0.54	60.0	-0.6	60.0	55.4	4.63	12.949		
400.0	400.0	400.0	400.0	2.4	2.4	-0.54	60.0	-0.6	60.0	54.7	5.29	11.349		
500.0	500.0	500.0	500.0	2.7	2.7	-0.54	60.0	-0.6	60.0	54.1	5.87	10.228		
600.0	600.0	600.0	600.0	3.0	3.0	-0.54	60.0	-0.6	60.0	53.6	6.39	9.384		
700.0	700.0	700.0	700.0	3.2	3.2	-0.54	60.0	-0.6	60.0	53.1	6.88	8.719		
800.0	800.0	800.0	800.0	3.5	3.5	-0.54	60.0	-0.6	60.0	52.7	7.34	8.175		
900.0	900.0	900.0	900.0	3.7	3.7	-0.54	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	-0.54	60.0	-0.6	60.0	51.8	8.18	7.333		
1,100.0	1,100.0	1,099.7	1,099.7	4.2	4.2	-64.93	60.1	-2.3	59.4	50.8	8.59	6.920		
1,189.0	1,188.8	1,187.8	1,187.7	4.5	4.5	-73.14	60.5	-6.7	58.8	49.9	8.92	6.594 CC		
1,200.0	1,199.8	1,198.7	1,198.6	4.5	4.5	-74.50	60.6	-7.4	58.8	49.9	8.96	6.566 ES		
1,300.0	1,299.5	1,296.4	1,295.9	4.8	4.8	-89.71	61.3	-15.8	61.5	52.1	9.38	6.555 SF		
1,400.0	1,398.7	1,392.2	1,391.0	5.1	5.2	-106.84	62.3	-27.3	71.6	61.6	9.95	7.195		
1,428.1	1,426.5	1,418.7	1,417.2	5.1	5.2	-111.31	62.7	-31.0	76.2	66.1	10.10	7.540		
1,500.0	1,497.6	1,485.8	1,483.5	5.2	5.5	-121.17	63.6	-41.5	91.0	80.4	10.53	8.641		
1,600.0	1,596.5	1,577.6	1,573.7	5.4	5.8	-130.67	65.1	-58.4	117.3	106.2	11.12	10.549		
1,700.0	1,695.4	1,670.8	1,664.9	5.5	6.1	-136.95	66.7	-77.6	147.8	136.2	11.65	12.690		
1,800.0	1,794.3	1,765.0	1,757.0	5.7	6.4	-141.13	68.4	-97.1	179.5	167.4	12.16	14.763		
1,900.0	1,893.1	1,859.1	1,849.1	5.9	6.7	-144.05	70.1	-116.6	211.9	199.2	12.68	16.712		
2,000.0	1,992.0	1,953.3	1,941.2	6.1	7.1	-146.21	71.9	-136.1	244.6	231.4	13.20	18.525		
2,100.0	2,090.9	2,047.4	2,033.3	6.2	7.4	-147.86	73.6	-155.6	277.5	263.8	13.74	20.203		
2,200.0	2,189.8	2,141.6	2,125.4	6.4	7.8	-149.16	75.3	-175.1	310.6	296.3	14.28	21.752		
2,300.0	2,288.7	2,235.7	2,217.5	6.6	8.1	-150.21	77.0	-194.6	343.8	329.0	14.83	23.180		
2,400.0	2,387.6	2,329.9	2,309.6	6.8	8.5	-151.07	78.7	-214.1	377.1	361.8	15.40	24.497		
2,500.0	2,486.5	2,424.1	2,401.7	7.0	8.9	-151.80	80.4	-233.6	410.5	394.5	15.97	25.712		
2,600.0	2,585.3	2,518.2	2,493.8	7.2	9.3	-152.41	82.1	-253.1	443.9	427.4	16.54	26.834		
2,700.0	2,684.2	2,612.4	2,585.9	7.3	9.6	-152.94	83.8	-272.6	477.4	460.3	17.13	27.872		
2,800.0	2,783.1	2,706.5	2,677.9	7.5	10.0	-153.40	85.5	-292.1	510.9	493.2	17.72	28.833		
2,900.0	2,882.0	2,800.7	2,770.0	7.7	10.4	-153.81	87.2	-311.6	544.4	526.1	18.31	29.724		
3,000.0	2,980.9	2,894.8	2,862.1	7.9	10.8	-154.16	88.9	-331.1	577.9	559.0	18.92	30.552		
3,100.0	3,079.8	2,989.0	2,954.2	8.1	11.2	-154.48	90.6	-350.6	611.5	592.0	19.52	31.322		
3,200.0	3,178.7	3,077.6	3,040.8	8.3	11.6	-154.73	92.5	-369.2	645.3	625.2	20.06	32.166		
3,300.0	3,277.5	3,159.9	3,121.0	8.5	12.0	-154.78	95.8	-387.7	680.4	659.8	20.59	33.043		
3,400.0	3,376.4	3,244.7	3,203.1	8.7	12.4	-154.67	100.9	-408.3	717.1	696.0	21.14	33.920		
3,500.0	3,475.3	3,337.5	3,292.8	8.8	12.8	-154.52	107.1	-431.2	754.2	732.4	21.77	34.650		
3,600.0	3,574.2	3,430.4	3,382.6	9.0	13.2	-154.38	113.3	-454.1	791.3	768.9	22.40	35.330		
3,700.0	3,673.1	3,523.2	3,472.3	9.2	13.6	-154.25	119.4	-477.1	828.4	805.4	23.03	35.968		
3,800.0	3,772.0	3,616.1	3,562.1	9.4	14.1	-154.13	125.6	-500.0	865.5	841.8	23.67	36.566		
3,900.0	3,870.9	3,708.9	3,651.9	9.6	14.5	-154.02	131.7	-522.9	902.6	878.3	24.31	37.128		
4,000.0	3,969.7	3,801.8	3,741.6	9.8	14.9	-153.93	137.9	-545.9	939.7	914.8	24.95	37.658		
4,100.0	4,068.6	3,894.6	3,831.4	10.0	15.3	-153.84	144.1	-568.8	976.8	951.2	25.60	38.157		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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)	Semi Reference (usft)	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	90.0	-0.9	90.0	89.5	0.48	187.717	
100.0	100.0	100.0	100.0	1.2	1.2	-0.59	90.0	-0.9	90.0	87.1	2.87	31.394	
200.0	200.0	200.0	200.0	1.7	1.7	-0.59	90.0	-0.9	90.0	86.1	3.86	23.295	
300.0	300.0	300.0	300.0	2.1	2.1	-0.59	90.0	-0.9	90.0	85.4	4.63	19.424	
400.0	400.0	400.0	400.0	2.4	2.4	-0.59	90.0	-0.9	90.0	84.7	5.29	17.023	
500.0	500.0	500.0	500.0	2.7	2.7	-0.59	90.0	-0.9	90.0	84.1	5.87	15.342	
600.0	600.0	600.0	600.0	3.0	3.0	-0.59	90.0	-0.9	90.0	83.6	6.39	14.076	
700.0	700.0	700.0	700.0	3.2	3.2	-0.59	90.0	-0.9	90.0	83.1	6.88	13.078	
800.0	800.0	800.0	800.0	3.5	3.5	-0.59	90.0	-0.9	90.0	82.7	7.34	12.263	
900.0	900.0	900.0	900.0	3.7	3.7	-0.59	90.0	-0.9	90.0	82.2	7.77	11.581	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-0.59	90.0	-0.9	90.0	81.8	8.18	10.999	
1,100.0	1,100.0	1,099.3	1,099.3	4.2	4.2	-63.90	90.3	-2.6	89.6	81.0	8.59	10.422	
1,200.0	1,199.8	1,198.0	1,197.8	4.5	4.5	-70.12	91.2	-7.7	88.9	79.9	8.97	9.909	
1,206.7	1,206.5	1,204.6	1,204.4	4.5	4.5	-70.68	91.3	-8.1	88.9	79.9	9.00	9.881 CC, ES	
1,300.0	1,299.5	1,295.4	1,294.9	4.8	4.8	-80.22	92.6	-15.9	90.2	80.9	9.37	9.634 SF	
1,400.0	1,398.7	1,391.0	1,389.8	5.1	5.2	-92.90	94.6	-27.2	96.6	86.8	9.84	9.822	
1,428.1	1,426.5	1,417.4	1,416.0	5.1	5.2	-96.61	95.3	-30.8	99.8	89.8	9.96	10.017	
1,500.0	1,497.6	1,484.4	1,482.1	5.2	5.5	-105.62	97.1	-41.2	110.8	100.4	10.35	10.704	
1,600.0	1,596.5	1,576.1	1,572.2	5.4	5.8	-115.77	100.0	-57.8	132.4	121.5	10.95	12.091	
1,700.0	1,695.4	1,669.4	1,663.5	5.5	6.1	-123.44	103.4	-76.8	159.3	147.8	11.52	13.836	
1,800.0	1,794.3	1,763.7	1,755.7	5.7	6.4	-128.96	106.8	-96.1	188.4	176.3	12.06	15.619	
1,900.0	1,893.1	1,858.0	1,848.0	5.9	6.7	-133.02	110.2	-115.4	218.6	206.0	12.60	17.350	
2,000.0	1,992.0	1,952.3	1,940.2	6.1	7.1	-136.09	113.6	-134.7	249.6	236.4	13.14	18.994	
2,100.0	2,090.9	2,046.6	2,032.5	6.2	7.4	-138.49	117.0	-154.0	281.1	267.4	13.69	20.538	
2,200.0	2,189.8	2,140.9	2,124.7	6.4	7.8	-140.41	120.4	-173.3	313.0	298.7	14.24	21.978	
2,300.0	2,288.7	2,235.2	2,217.0	6.6	8.1	-141.98	123.8	-192.6	345.1	330.3	14.80	23.317	
2,400.0	2,387.6	2,329.6	2,309.2	6.8	8.5	-143.28	127.2	-212.0	377.4	362.1	15.37	24.560	
2,500.0	2,486.5	2,423.9	2,401.5	7.0	8.9	-144.37	130.6	-231.3	409.9	394.0	15.94	25.712	
2,600.0	2,585.3	2,518.2	2,493.7	7.2	9.3	-145.31	134.0	-250.6	442.5	426.0	16.52	26.782	
2,700.0	2,684.2	2,612.5	2,586.0	7.3	9.7	-146.12	137.4	-269.9	475.2	458.1	17.11	27.774	
2,800.0	2,783.1	2,706.8	2,678.2	7.5	10.0	-146.82	140.8	-289.2	507.9	490.2	17.70	28.696	
2,900.0	2,882.0	2,801.1	2,770.5	7.7	10.4	-147.44	144.2	-308.5	540.7	522.4	18.30	29.554	
3,000.0	2,980.9	2,895.4	2,862.7	7.9	10.9	-147.99	147.6	-327.8	573.6	554.7	18.90	30.353	
3,100.0	3,079.8	2,989.7	2,955.0	8.1	11.3	-148.48	151.0	-347.1	606.5	587.0	19.50	31.097	
3,200.0	3,178.7	3,084.0	3,047.2	8.3	11.7	-148.92	154.4	-366.4	639.4	619.3	20.11	31.793	
3,300.0	3,277.5	3,178.4	3,139.5	8.5	12.1	-149.31	157.9	-385.8	672.4	651.7	20.73	32.444	
3,400.0	3,376.4	3,272.7	3,231.7	8.7	12.5	-149.67	161.3	-405.1	705.4	684.1	21.34	33.053	
3,500.0	3,475.3	3,367.0	3,324.0	8.8	12.9	-150.00	164.7	-424.4	738.4	716.5	21.96	33.625	
3,600.0	3,574.2	3,461.3	3,416.2	9.0	13.3	-150.30	168.1	-443.7	771.5	748.9	22.58	34.162	
3,700.0	3,673.1	3,555.6	3,508.5	9.2	13.7	-150.57	171.5	-463.0	804.5	781.3	23.21	34.667	
3,800.0	3,772.0	3,649.9	3,600.7	9.4	14.2	-150.82	174.9	-482.3	837.6	813.8	23.83	35.143	
3,900.0	3,870.9	3,744.2	3,693.0	9.6	14.6	-151.06	178.3	-501.6	870.7	846.2	24.46	35.592	
4,000.0	3,969.7	3,838.5	3,785.2	9.8	15.0	-151.27	181.7	-520.9	903.8	878.7	25.09	36.015	
4,100.0	4,068.6	3,932.8	3,877.5	10.0	15.4	-151.47	185.1	-540.2	936.9	911.2	25.73	36.416	
4,200.0	4,167.5	4,027.2	3,969.7	10.2	15.9	-151.66	188.5	-559.5	970.0	943.7	26.35	36.806	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance 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	-0.68	119.9	-1.4	119.9	119.4	0.48	250.047		
100.0	100.0	100.0	100.0	1.2	1.2	-0.68	119.9	-1.4	119.9	117.0	2.87	41.818		
200.0	200.0	200.0	200.0	1.7	1.7	-0.68	119.9	-1.4	119.9	116.0	3.86	31.030		
300.0	300.0	300.0	300.0	2.1	2.1	-0.68	119.9	-1.4	119.9	115.3	4.63	25.874		
400.0	400.0	400.0	400.0	2.4	2.4	-0.68	119.9	-1.4	119.9	114.6	5.29	22.676		
500.0	500.0	500.0	500.0	2.7	2.7	-0.68	119.9	-1.4	119.9	114.0	5.87	20.436		
600.0	600.0	600.0	600.0	3.0	3.0	-0.68	119.9	-1.4	119.9	113.5	6.39	18.750		
700.0	700.0	700.0	700.0	3.2	3.2	-0.68	119.9	-1.4	119.9	113.0	6.88	17.421		
800.0	800.0	800.0	800.0	3.5	3.5	-0.68	119.9	-1.4	119.9	112.5	7.34	16.335		
900.0	900.0	900.0	900.0	3.7	3.7	-0.68	119.9	-1.4	119.9	112.1	7.77	15.427		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-0.68	119.9	-1.4	119.9	111.7	8.18	14.652 CC		
1,100.0	1,100.0	1,097.5	1,097.5	4.2	4.2	-63.28	120.8	-2.8	120.1	111.5	8.63	13.915 ES		
1,200.0	1,199.8	1,194.6	1,194.4	4.5	4.5	-67.27	123.7	-6.8	121.1	112.1	9.06	13.369		
1,300.0	1,299.5	1,290.6	1,290.1	4.8	4.8	-73.61	128.3	-13.5	124.2	114.7	9.50	13.074 SF		
1,400.0	1,398.7	1,385.2	1,384.1	5.1	5.2	-81.63	134.7	-22.6	130.9	121.0	9.96	13.139		
1,428.1	1,426.5	1,411.5	1,410.1	5.1	5.2	-84.05	136.8	-25.6	133.7	123.7	10.07	13.279		
1,500.0	1,497.6	1,478.2	1,475.9	5.2	5.5	-90.22	142.7	-34.0	143.2	132.8	10.41	13.756		
1,600.0	1,596.5	1,569.6	1,565.9	5.4	5.8	-97.72	152.3	-47.7	161.5	150.5	10.94	14.755		
1,700.0	1,695.4	1,663.4	1,657.6	5.5	6.1	-104.00	163.3	-63.5	184.6	173.1	11.47	16.092		
1,800.0	1,794.3	1,758.7	1,750.9	5.7	6.4	-108.98	174.7	-79.7	209.6	197.6	11.99	17.479		
1,900.0	1,893.1	1,854.1	1,844.1	5.9	6.8	-112.90	186.1	-96.0	235.8	223.2	12.51	18.838		
2,000.0	1,992.0	1,949.4	1,937.4	6.1	7.1	-116.04	197.5	-112.2	262.8	249.7	13.05	20.144		
2,100.0	2,090.9	2,044.8	2,030.7	6.2	7.4	-118.60	208.8	-128.5	290.4	276.9	13.58	21.383		
2,200.0	2,189.8	2,140.1	2,124.0	6.4	7.8	-120.72	220.2	-144.7	318.5	304.4	14.13	22.549		
2,300.0	2,288.7	2,235.5	2,217.2	6.6	8.2	-122.50	231.6	-160.9	347.0	332.3	14.68	23.643		
2,400.0	2,387.6	2,330.9	2,310.5	6.8	8.5	-124.00	242.9	-177.2	375.7	360.4	15.23	24.666		
2,500.0	2,486.5	2,426.2	2,403.8	7.0	8.9	-125.30	254.3	-193.4	404.6	388.8	15.79	25.622		
2,600.0	2,585.3	2,521.6	2,497.1	7.2	9.3	-126.42	265.7	-209.7	433.6	417.3	16.36	26.514		
2,700.0	2,684.2	2,616.9	2,590.3	7.3	9.7	-127.41	277.1	-225.9	462.8	445.9	16.92	27.347		
2,800.0	2,783.1	2,712.3	2,683.6	7.5	10.1	-128.27	288.4	-242.1	492.2	474.7	17.50	28.125		
2,900.0	2,882.0	2,807.6	2,776.9	7.7	10.5	-129.04	299.8	-258.4	521.6	503.5	18.08	28.853		
3,000.0	2,980.9	2,903.0	2,870.1	7.9	10.9	-129.73	311.2	-274.6	551.0	532.4	18.66	29.534		
3,100.0	3,079.8	2,998.4	2,963.4	8.1	11.3	-130.35	322.5	-290.9	580.6	561.4	19.24	30.172		
3,200.0	3,178.7	3,093.7	3,056.7	8.3	11.8	-130.90	333.9	-307.1	610.2	590.4	19.83	30.771		
3,300.0	3,277.5	3,189.1	3,150.0	8.5	12.2	-131.41	345.3	-323.3	639.9	619.4	20.42	31.333		
3,400.0	3,376.4	3,284.4	3,243.2	8.7	12.6	-131.87	356.7	-339.6	669.5	648.5	21.01	31.861		
3,500.0	3,475.3	3,379.8	3,336.5	8.8	13.0	-132.29	368.0	-355.8	699.3	677.7	21.61	32.359		
3,600.0	3,574.2	3,475.1	3,429.8	9.0	13.4	-132.68	379.4	-372.1	729.0	706.8	22.21	32.828		
3,700.0	3,673.1	3,573.2	3,525.7	9.2	13.9	-133.06	391.0	-388.8	758.8	736.0	22.80	33.280		
3,800.0	3,772.0	3,679.8	3,630.3	9.4	14.3	-133.63	400.8	-406.6	787.6	764.1	23.46	33.566		
3,900.0	3,870.9	3,786.6	3,735.6	9.6	14.8	-134.43	406.6	-424.2	815.1	791.0	24.12	33.800		
4,000.0	3,969.7	3,890.9	3,838.4	9.8	15.1	-135.40	408.6	-440.9	841.5	816.8	24.70	34.073		
4,100.0	4,068.6	3,986.5	3,932.8	10.0	15.5	-136.31	409.4	-456.1	867.8	842.5	25.25	34.372		
4,200.0	4,167.5	4,082.1	4,027.2	10.2	15.9	-137.16	410.1	-471.3	894.2	868.4	25.80	34.656		
4,300.0	4,266.4	4,177.7	4,121.6	10.4	16.2	-137.96	410.9	-486.5	920.8	894.4	26.36	34.928		
4,400.0	4,365.3	4,273.3	4,216.0	10.6	16.6	-138.72	411.6	-501.7	947.5	920.6	26.93	35.190		
4,500.0	4,464.2	4,368.9	4,310.4	10.8	17.0	-139.43	412.4	-516.9	974.4	947.0	27.49	35.443		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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)				
0.0	0.0	0.0	0.0	0.0	0.0	-0.59	149.7	-1.5	149.7	149.2	0.48	312.276		
100.0	100.0	100.0	100.0	1.2	1.2	-0.59	149.7	-1.5	149.7	146.9	2.87	52.225		
200.0	200.0	200.0	200.0	1.7	1.7	-0.59	149.7	-1.5	149.7	145.9	3.86	38.753		
300.0	300.0	300.0	300.0	2.1	2.1	-0.59	149.7	-1.5	149.7	145.1	4.63	32.313		
400.0	400.0	400.0	400.0	2.4	2.4	-0.59	149.7	-1.5	149.7	144.4	5.29	28.319		
500.0	500.0	500.0	500.0	2.7	2.7	-0.59	149.7	-1.5	149.7	143.9	5.87	25.522		
600.0	600.0	600.0	600.0	3.0	3.0	-0.59	149.7	-1.5	149.7	143.3	6.39	23.417		
700.0	700.0	700.0	700.0	3.2	3.2	-0.59	149.7	-1.5	149.7	142.8	6.88	21.756		
800.0	800.0	800.0	800.0	3.5	3.5	-0.59	149.7	-1.5	149.7	142.4	7.34	20.401		
900.0	900.0	900.0	900.0	3.7	3.7	-0.59	149.7	-1.5	149.7	141.9	7.77	19.266		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-0.59	149.7	-1.5	149.7	141.5	8.18	18.298 CC		
1,100.0	1,100.0	1,096.4	1,096.4	4.2	4.2	-62.83	150.8	-2.7	150.1	141.5	8.65	17.361 ES		
1,200.0	1,199.8	1,192.3	1,192.2	4.5	4.5	-65.77	154.2	-6.2	151.5	142.4	9.09	16.668		
1,300.0	1,299.5	1,287.4	1,286.9	4.8	4.8	-70.44	159.7	-11.9	154.8	145.3	9.54	16.233		
1,400.0	1,398.7	1,381.2	1,380.1	5.1	5.1	-76.47	167.3	-19.7	161.2	151.2	10.00	16.120		
1,428.1	1,426.5	1,407.3	1,405.9	5.1	5.2	-78.33	169.8	-22.3	163.7	153.6	10.10	16.209		
1,500.0	1,497.6	1,473.6	1,471.4	5.2	5.5	-83.17	176.9	-29.6	172.1	161.7	10.42	16.515		
1,600.0	1,596.5	1,564.7	1,561.0	5.4	5.8	-89.33	188.3	-41.4	188.4	177.5	10.90	17.292		
1,700.0	1,695.4	1,659.2	1,653.6	5.5	6.1	-94.84	201.6	-55.1	208.9	197.5	11.40	18.318		
1,800.0	1,794.3	1,755.2	1,747.6	5.7	6.4	-99.43	215.2	-69.1	231.1	219.1	11.94	19.359		
1,900.0	1,893.1	1,851.1	1,841.5	5.9	6.7	-103.22	228.8	-83.1	254.4	242.0	12.46	20.426		
2,000.0	1,992.0	1,947.0	1,935.4	6.1	7.1	-106.38	242.3	-97.1	278.7	265.7	12.99	21.464		
2,100.0	2,090.9	2,043.0	2,029.4	6.2	7.4	-109.03	255.9	-111.1	303.7	290.2	13.52	22.459		
2,200.0	2,189.8	2,138.9	2,123.3	6.4	7.8	-111.29	269.5	-125.1	329.2	315.1	14.06	23.407		
2,300.0	2,288.7	2,234.8	2,217.2	6.6	8.2	-113.22	283.0	-139.0	355.1	340.5	14.61	24.303		
2,400.0	2,387.6	2,330.8	2,311.2	6.8	8.5	-114.89	296.6	-153.0	381.3	366.2	15.16	25.149		
2,500.0	2,486.5	2,426.7	2,405.1	7.0	8.9	-116.35	310.2	-167.0	407.8	392.1	15.72	25.945		
2,600.0	2,585.3	2,522.6	2,499.0	7.2	9.3	-117.63	323.7	-181.0	434.5	418.3	16.28	26.693		
2,700.0	2,684.2	2,618.6	2,593.0	7.3	9.7	-118.76	337.3	-195.0	461.4	444.6	16.84	27.408		
2,800.0	2,783.1	2,719.2	2,691.5	7.5	10.1	-119.82	351.4	-209.5	488.2	470.8	17.40	28.063		
2,900.0	2,882.0	2,824.5	2,795.0	7.7	10.5	-120.86	364.9	-223.4	513.7	495.6	18.03	28.496		
3,000.0	2,980.9	2,930.6	2,899.7	7.9	11.0	-121.86	377.2	-236.1	537.5	518.8	18.64	28.830		
3,100.0	3,079.8	3,037.6	3,005.5	8.1	11.4	-122.84	388.2	-247.5	559.7	540.4	19.25	29.080		
3,200.0	3,178.7	3,145.3	3,112.3	8.3	11.8	-123.80	397.9	-257.5	580.3	560.4	19.83	29.257		
3,300.0	3,277.5	3,253.7	3,220.0	8.5	12.3	-124.76	406.2	-266.1	599.2	578.8	20.40	29.374		
3,400.0	3,376.4	3,362.7	3,328.6	8.7	12.7	-125.72	413.2	-273.2	616.6	595.6	20.94	29.441		
3,500.0	3,475.3	3,472.3	3,437.8	8.8	13.1	-126.70	418.7	-279.0	632.3	610.8	21.46	29.468		
3,600.0	3,574.2	3,582.3	3,547.7	9.0	13.4	-127.69	422.8	-283.2	646.3	624.4	21.93	29.468		
3,700.0	3,673.1	3,692.6	3,658.0	9.2	13.8	-128.71	425.5	-285.9	658.8	636.5	22.37	29.455		
3,800.0	3,772.0	3,803.3	3,768.6	9.4	14.1	-129.76	426.7	-287.1	669.7	647.0	22.73	29.469		
3,900.0	3,870.9	3,905.5	3,870.9	9.6	14.1	-130.75	426.7	-287.2	679.5	656.6	22.86	29.717		
4,000.0	3,969.7	4,004.4	3,969.7	9.8	14.2	-131.68	426.7	-287.2	689.3	666.3	23.02	29.947		
4,100.0	4,068.6	4,103.3	4,068.6	10.0	14.3	-132.59	426.7	-287.2	699.4	676.2	23.18	30.177		
4,200.0	4,167.5	4,202.2	4,167.5	10.2	14.3	-133.47	426.7	-287.2	709.6	686.3	23.34	30.407		
4,300.0	4,266.4	4,301.1	4,266.4	10.4	14.4	-134.32	426.7	-287.2	720.0	696.5	23.50	30.637		
4,400.0	4,365.3	4,400.0	4,365.3	10.6	14.5	-135.15	426.7	-287.2	730.5	706.9	23.67	30.865		
4,500.0	4,464.2	4,498.9	4,464.2	10.8	14.5	-135.96	426.7	-287.2	741.2	717.4	23.84	31.092		
4,600.0	4,563.1	4,597.7	4,563.1	11.0	14.6	-136.75	426.7	-287.2	752.0	728.0	24.01	31.316		
4,700.0	4,661.9	4,696.6	4,661.9	11.1	14.6	-137.51	426.7	-287.2	763.0	738.8	24.19	31.539		
4,800.0	4,760.8	4,795.5	4,760.8	11.3	14.7	-138.25	426.7	-287.2	774.1	749.7	24.37	31.759		
4,900.0	4,859.7	4,894.4	4,859.7	11.5	14.8	-138.97	426.7	-287.2	785.3	760.8	24.56	31.976		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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			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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
5,000.0	4,958.6	4,993.3	4,958.6	11.7	14.8	-139.67	426.7	-287.2	796.7	771.9	24.75	32.190		
5,100.0	5,057.5	5,092.2	5,057.5	11.9	14.9	-140.35	426.7	-287.2	808.1	783.2	24.94	32.401		
5,190.5	5,147.0	5,181.7	5,147.0	12.1	15.0	-140.95	426.7	-287.2	818.6	793.5	25.11	32.598		
5,200.0	5,156.4	5,191.1	5,156.4	12.1	15.0	-141.02	426.7	-287.2	819.7	794.6	25.13	32.624		
5,300.0	5,255.4	5,290.1	5,255.4	12.3	15.0	-141.68	426.7	-287.2	830.6	805.2	25.36	32.746		
5,400.0	5,354.7	5,389.4	5,354.7	12.5	15.1	-142.25	426.7	-287.2	840.1	814.6	25.57	32.862		
5,500.0	5,454.1	5,488.8	5,454.1	12.7	15.2	-142.73	426.7	-287.2	848.4	822.6	25.77	32.923		
5,600.0	5,553.7	5,588.4	5,553.7	12.9	15.3	-143.13	426.7	-287.2	855.3	829.3	25.97	32.929		
5,700.0	5,653.5	5,688.2	5,653.5	13.1	15.3	-143.43	426.7	-287.2	860.9	834.7	26.18	32.883		
5,800.0	5,753.4	5,788.1	5,753.4	13.2	15.4	-143.66	426.7	-287.2	865.0	838.7	26.38	32.788		
5,900.0	5,853.3	5,888.0	5,853.3	13.4	15.5	-143.81	426.7	-287.2	867.8	841.2	26.58	32.645		
6,000.0	5,953.3	5,988.0	5,953.3	13.5	15.5	-143.89	426.7	-287.2	869.2	842.4	26.78	32.461		
6,046.7	6,000.0	6,034.7	6,000.0	13.6	15.6	-82.66	426.7	-287.2	869.3	842.5	26.84	32.392		
6,100.0	6,053.3	6,088.0	6,053.3	13.6	15.6	-82.66	426.7	-287.2	869.3	842.4	26.90	32.317		
6,200.0	6,153.3	6,188.0	6,153.3	13.6	15.7	-82.66	426.7	-287.2	869.3	842.3	27.05	32.141		
6,300.0	6,253.3	6,288.0	6,253.3	13.7	15.7	-82.66	426.7	-287.2	869.3	842.1	27.19	31.966		
6,400.0	6,353.3	6,388.0	6,353.3	13.8	15.8	-82.66	426.7	-287.2	869.3	842.0	27.34	31.794		
6,500.0	6,453.3	6,488.0	6,453.3	13.9	15.9	-82.66	426.7	-287.2	869.3	841.8	27.49	31.623		
6,600.0	6,553.3	6,588.0	6,553.3	13.9	15.9	-82.66	426.7	-287.2	869.3	841.7	27.64	31.453		
6,700.0	6,653.3	6,688.0	6,653.3	14.0	16.0	-82.66	426.7	-287.2	869.3	841.5	27.79	31.286		
6,800.0	6,753.3	6,788.0	6,753.3	14.1	16.1	-82.66	426.7	-287.2	869.3	841.4	27.93	31.120		
6,900.0	6,853.3	6,888.0	6,853.3	14.1	16.2	-82.66	426.7	-287.2	869.3	841.2	28.08	30.955		
7,000.0	6,953.3	6,988.0	6,953.3	14.2	16.2	-82.66	426.7	-287.2	869.3	841.1	28.23	30.793		
7,100.0	7,053.3	7,088.0	7,053.3	14.3	16.3	-82.66	426.7	-287.2	869.3	840.9	28.38	30.631		
7,200.0	7,153.3	7,188.0	7,153.3	14.4	16.4	-82.66	426.7	-287.2	869.3	840.8	28.53	30.472		
7,300.0	7,253.3	7,288.0	7,253.3	14.4	16.4	-82.66	426.7	-287.2	869.3	840.6	28.68	30.313		
7,400.0	7,353.3	7,388.0	7,353.3	14.5	16.5	-82.66	426.7	-287.2	869.3	840.5	28.83	30.157		
7,500.0	7,453.3	7,488.0	7,453.3	14.6	16.6	-82.66	426.7	-287.2	869.3	840.3	28.98	30.001		
7,600.0	7,553.3	7,588.0	7,553.3	14.7	16.6	-82.66	426.7	-287.2	869.3	840.2	29.13	29.847		
7,700.0	7,653.3	7,688.0	7,653.3	14.7	16.7	-82.66	426.7	-287.2	869.3	840.0	29.27	29.695		
7,800.0	7,753.3	7,788.0	7,753.3	14.8	16.8	-82.66	426.7	-287.2	869.3	839.9	29.42	29.544		
7,900.0	7,853.3	7,888.0	7,853.3	14.9	16.9	-82.66	426.7	-287.2	869.3	839.7	29.57	29.395		
8,000.0	7,953.3	7,988.0	7,953.3	14.9	16.9	-82.66	426.7	-287.2	869.3	839.6	29.72	29.247		
8,100.0	8,053.3	8,088.0	8,053.3	15.0	17.0	-82.66	426.7	-287.2	869.3	839.4	29.87	29.100		
8,200.0	8,153.3	8,188.0	8,153.3	15.1	17.1	-82.66	426.7	-287.2	869.3	839.3	30.02	28.954		
8,300.0	8,253.3	8,288.0	8,253.3	15.2	17.1	-82.66	426.7	-287.2	869.3	839.1	30.17	28.810		
8,400.0	8,353.3	8,388.0	8,353.3	15.2	17.2	-82.66	426.7	-287.2	869.3	839.0	30.32	28.668		
8,500.0	8,453.3	8,488.0	8,453.3	15.3	17.3	-82.66	426.7	-287.2	869.3	838.8	30.47	28.526		
8,600.0	8,553.3	8,588.0	8,553.3	15.4	17.4	-82.66	426.7	-287.2	869.3	838.7	30.63	28.386		
8,700.0	8,653.3	8,688.0	8,653.3	15.5	17.4	-82.66	426.7	-287.2	869.3	838.5	30.78	28.247		
8,800.0	8,753.3	8,788.0	8,753.3	15.5	17.5	-82.66	426.7	-287.2	869.3	838.4	30.93	28.109		
8,900.0	8,853.3	8,888.0	8,853.3	15.6	17.6	-82.66	426.7	-287.2	869.3	838.2	31.08	27.973		
9,000.0	8,953.3	8,988.0	8,953.3	15.7	17.6	-82.66	426.7	-287.2	869.3	838.1	31.23	27.838		
9,100.0	9,053.3	9,088.0	9,053.3	15.8	17.7	-82.66	426.7	-287.2	869.3	837.9	31.38	27.704		
9,200.0	9,153.3	9,188.0	9,153.3	15.8	17.8	-82.66	426.7	-287.2	869.3	837.8	31.53	27.571		
9,300.0	9,253.3	9,288.0	9,253.3	15.9	17.9	-82.66	426.7	-287.2	869.3	837.6	31.68	27.439		
9,400.0	9,353.3	9,388.0	9,353.3	16.0	17.9	-82.66	426.7	-287.2	869.3	837.5	31.83	27.309		
9,500.0	9,453.3	9,488.0	9,453.3	16.1	18.0	-82.66	426.7	-287.2	869.3	837.3	31.98	27.180		
9,600.0	9,553.3	9,588.0	9,553.3	16.1	18.1	-82.66	426.7	-287.2	869.3	837.2	32.14	27.052		
9,700.0	9,653.3	9,688.0	9,653.3	16.2	18.1	-82.66	426.7	-287.2	869.3	837.0	32.29	26.925		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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		Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
9,800.0	9,753.3	9,788.0	9,753.3	16.3	18.2	-82.66	426.7	-287.2	869.3	836.9	32.44	26.799		
9,900.0	9,853.3	9,888.0	9,853.3	16.3	18.3	-82.66	426.7	-287.2	869.3	836.7	32.59	26.674		
10,000.0	9,953.3	9,988.0	9,953.3	16.4	18.4	-82.66	426.7	-287.2	869.3	836.6	32.74	26.550		
10,100.0	10,053.3	10,088.0	10,053.3	16.5	18.4	-82.66	426.7	-287.2	869.3	836.4	32.89	26.428		
10,200.0	10,153.3	10,188.0	10,153.3	16.6	18.5	-82.66	426.7	-287.2	869.3	836.3	33.05	26.306		
10,300.0	10,253.3	10,288.0	10,253.3	16.6	18.6	-82.66	426.7	-287.2	869.3	836.1	33.20	26.186		
10,400.0	10,353.3	10,388.0	10,353.3	16.7	18.7	-82.66	426.7	-287.2	869.3	836.0	33.35	26.066		
10,500.0	10,453.3	10,488.0	10,453.3	16.8	18.7	-82.66	426.7	-287.2	869.3	835.8	33.50	25.948		
10,600.0	10,553.3	10,588.0	10,553.3	16.9	18.8	-82.66	426.7	-287.2	869.3	835.7	33.66	25.830		
10,700.0	10,653.3	10,688.0	10,653.3	16.9	18.9	-82.66	426.7	-287.2	869.3	835.5	33.81	25.714		
10,800.0	10,753.3	10,788.0	10,753.3	17.0	18.9	-82.66	426.7	-287.2	869.3	835.4	33.96	25.598		
10,900.0	10,853.3	10,888.0	10,853.3	17.1	19.0	-82.66	426.7	-287.2	869.3	835.2	34.11	25.484		
11,000.0	10,953.3	10,988.0	10,953.3	17.2	19.1	-82.66	426.7	-287.2	869.3	835.1	34.27	25.370		
11,100.0	11,053.3	11,088.0	11,053.3	17.3	19.2	-82.66	426.7	-287.2	869.3	834.9	34.42	25.258		
11,200.0	11,153.3	11,188.0	11,153.3	17.3	19.2	-82.66	426.7	-287.2	869.3	834.7	34.57	25.146		
11,300.0	11,253.3	11,288.0	11,253.3	17.4	19.3	-82.66	426.7	-287.2	869.3	834.6	34.72	25.035		
11,400.0	11,353.3	11,388.0	11,353.3	17.5	19.4	-82.66	426.7	-287.2	869.3	834.4	34.88	24.925		
11,500.0	11,453.3	11,488.0	11,453.3	17.6	19.5	-82.66	426.7	-287.2	869.3	834.3	35.03	24.816		
11,600.0	11,553.3	11,588.0	11,553.3	17.6	19.5	-82.66	426.7	-287.2	869.3	834.1	35.18	24.708		
11,700.0	11,653.3	11,688.0	11,653.3	17.7	19.6	-82.66	426.7	-287.2	869.3	834.0	35.34	24.601		
11,753.2	11,706.5	11,741.2	11,706.5	17.7	19.6	-82.66	426.7	-287.2	869.3	833.9	35.39	24.561		
11,775.0	11,728.3	11,770.0	11,735.3	17.7	19.6	97.70	425.8	-287.2	869.3	833.9	35.38	24.570		
11,800.0	11,753.2	11,803.1	11,768.2	17.7	19.6	97.66	422.7	-287.2	869.2	833.9	35.35	24.592		
11,825.0	11,778.0	11,836.0	11,800.7	17.7	19.5	97.59	417.3	-287.1	869.1	833.8	35.31	24.614		
11,850.0	11,802.6	11,868.8	11,832.6	17.7	19.4	97.49	409.8	-287.1	868.9	833.6	35.27	24.637		
11,875.0	11,827.0	11,901.5	11,863.8	17.7	19.3	97.37	400.1	-287.0	868.7	833.4	35.23	24.660		
11,900.0	11,851.0	11,933.9	11,894.0	17.6	19.3	97.21	388.4	-286.9	868.4	833.2	35.18	24.683		
11,925.0	11,874.6	11,966.0	11,923.1	17.6	19.2	97.03	374.7	-286.9	868.1	832.9	35.14	24.706		
11,950.0	11,897.8	11,997.9	11,951.0	17.6	19.1	96.83	359.3	-286.8	867.7	832.6	35.09	24.729		
11,975.0	11,920.4	12,029.4	11,977.6	17.6	19.1	96.60	342.3	-286.6	867.3	832.3	35.04	24.751		
12,000.0	11,942.5	12,060.6	12,002.6	17.6	19.0	96.35	323.8	-286.5	866.9	831.9	34.99	24.772		
12,025.0	11,963.9	12,091.5	12,026.2	17.6	18.9	96.09	303.9	-286.4	866.5	831.5	34.95	24.793		
12,050.0	11,984.5	12,121.9	12,048.1	17.5	18.9	95.80	282.8	-286.3	866.0	831.1	34.90	24.812		
12,075.0	12,004.5	12,151.9	12,068.4	17.5	18.8	95.50	260.7	-286.1	865.6	830.7	34.86	24.830		
12,100.0	12,023.6	12,181.6	12,087.1	17.5	18.8	95.18	237.6	-286.0	865.1	830.3	34.82	24.845		
12,125.0	12,041.8	12,210.8	12,104.0	17.5	18.8	94.85	213.8	-285.8	864.7	829.9	34.78	24.859		
12,150.0	12,059.2	12,239.6	12,119.2	17.5	18.7	94.51	189.4	-285.7	864.2	829.5	34.75	24.869		
12,175.0	12,075.5	12,268.0	12,132.7	17.5	18.7	94.15	164.4	-285.5	863.8	829.1	34.73	24.876		
12,200.0	12,090.9	12,296.0	12,144.6	17.5	18.7	93.79	139.1	-285.3	863.4	828.7	34.70	24.880		
12,225.0	12,105.2	12,323.5	12,154.8	17.5	18.7	93.42	113.5	-285.2	863.1	828.4	34.69	24.879		
12,250.0	12,118.4	12,350.7	12,163.4	17.5	18.7	93.04	87.7	-285.0	862.7	828.1	34.69	24.873		
12,275.0	12,130.5	12,377.5	12,170.5	17.5	18.7	92.66	61.9	-284.8	862.4	827.7	34.69	24.862		
12,300.0	12,141.4	12,403.9	12,176.0	17.5	18.7	92.27	36.1	-284.7	862.2	827.5	34.70	24.845		
12,325.0	12,151.1	12,429.9	12,180.0	17.5	18.7	91.88	10.4	-284.5	861.9	827.2	34.72	24.823		
12,350.0	12,159.6	12,455.5	12,182.6	17.5	18.7	91.49	-15.1	-284.3	861.8	827.0	34.75	24.796		
12,375.0	12,166.9	12,480.8	12,183.9	17.6	18.8	91.10	-40.4	-284.2	861.6	826.8	34.79	24.763		
12,400.0	12,172.9	12,505.5	12,184.0	17.6	18.8	90.72	-65.0	-284.0	861.5	826.7	34.85	24.724		
12,425.0	12,177.6	12,530.0	12,184.0	17.6	18.8	90.42	-89.6	-283.9	861.5	826.6	34.91	24.677		
12,450.0	12,181.0	12,554.8	12,184.0	17.6	18.9	90.20	-114.3	-283.7	861.5	826.5	34.98	24.629		
12,475.0	12,183.1	12,579.7	12,184.0	17.7	18.9	90.06	-139.2	-283.5	861.5	826.4	35.05	24.581		
12,500.0	12,184.0	12,604.7	12,184.0	17.7	18.9	90.00	-164.2	-283.4	861.5	826.3	35.12	24.531		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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				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	
12,503.2	12,184.0	12,607.9	12,184.0	17.7	18.9	90.00	-167.4	-283.3	861.5	826.3	35.13	24.524		
12,600.0	12,184.0	12,704.7	12,184.0	17.8	19.1	90.00	-264.2	-282.7	861.5	826.0	35.48	24.282		
12,700.0	12,184.0	12,804.7	12,184.0	18.0	19.4	90.00	-364.2	-282.1	861.4	825.5	35.93	23.978		
12,800.0	12,184.0	12,904.7	12,184.0	18.2	19.6	90.00	-464.2	-281.4	861.4	825.0	36.46	23.627		
12,900.0	12,184.0	13,004.7	12,184.0	18.4	20.0	90.00	-564.2	-280.8	861.4	824.4	37.08	23.235		
13,000.0	12,184.0	13,104.7	12,184.0	18.7	20.3	90.00	-664.2	-280.1	861.4	823.7	37.77	22.809		
13,100.0	12,184.0	13,204.7	12,184.0	19.0	20.7	90.00	-764.2	-279.5	861.4	822.9	38.53	22.357		
13,200.0	12,184.0	13,304.7	12,184.0	19.3	21.2	90.00	-864.2	-278.8	861.4	822.1	39.36	21.884		
13,300.0	12,184.0	13,404.7	12,184.0	19.6	21.7	90.00	-964.2	-278.2	861.4	821.2	40.26	21.396		
13,400.0	12,184.0	13,504.7	12,184.0	20.0	22.2	90.00	-1,064.2	-277.6	861.4	820.2	41.22	20.900		
13,500.0	12,184.0	13,604.7	12,184.0	20.4	22.7	90.00	-1,164.2	-276.9	861.4	819.2	42.23	20.399		
13,600.0	12,184.0	13,704.7	12,184.0	20.8	23.3	90.00	-1,264.2	-276.3	861.4	818.1	43.29	19.897		
13,700.0	12,184.0	13,804.7	12,184.0	21.3	23.9	90.00	-1,364.2	-275.6	861.4	817.0	44.41	19.399		
13,800.0	12,184.0	13,904.7	12,184.0	21.8	24.6	90.00	-1,464.2	-275.0	861.4	815.9	45.56	18.907		
13,900.0	12,184.0	14,004.7	12,184.0	22.3	25.2	90.00	-1,564.2	-274.3	861.4	814.7	46.76	18.423		
14,000.0	12,184.0	14,104.7	12,184.0	22.8	25.9	90.00	-1,664.2	-273.7	861.4	813.4	48.00	17.948		
14,100.0	12,184.0	14,204.7	12,184.0	23.4	26.6	90.00	-1,764.2	-273.0	861.4	812.2	49.27	17.485		
14,200.0	12,184.0	14,304.7	12,184.0	23.9	27.3	90.00	-1,864.2	-272.4	861.4	810.9	50.57	17.035		
14,300.0	12,184.0	14,404.7	12,184.0	24.5	28.1	90.00	-1,964.2	-271.7	861.4	809.5	51.90	16.597		
14,400.0	12,184.0	14,504.7	12,184.0	25.1	28.8	90.00	-2,064.2	-271.1	861.4	808.2	53.26	16.173		
14,500.0	12,184.0	14,604.7	12,184.0	25.7	29.6	90.00	-2,164.2	-270.4	861.4	806.8	54.65	15.763		
14,600.0	12,184.0	14,704.7	12,184.0	26.4	30.3	90.00	-2,264.2	-269.8	861.4	805.4	56.06	15.366		
14,700.0	12,184.0	14,804.7	12,184.0	27.0	31.1	90.00	-2,364.2	-269.1	861.4	803.9	57.49	14.984		
14,800.0	12,184.0	14,904.7	12,184.0	27.6	31.9	90.00	-2,464.2	-268.5	861.4	802.5	58.94	14.614		
14,900.0	12,184.0	15,004.7	12,184.0	28.3	32.7	90.00	-2,564.2	-267.9	861.4	801.0	60.42	14.259		
15,000.0	12,184.0	15,104.7	12,184.0	29.0	33.5	90.00	-2,664.2	-267.2	861.4	799.5	61.90	13.916		
15,100.0	12,184.0	15,204.7	12,184.0	29.7	34.3	90.00	-2,764.2	-266.6	861.4	798.0	63.41	13.585		
15,200.0	12,184.0	15,304.7	12,184.0	30.4	35.2	90.00	-2,864.2	-265.9	861.4	796.5	64.93	13.267		
15,300.0	12,184.0	15,404.7	12,184.0	31.1	36.0	90.00	-2,964.2	-265.3	861.4	795.0	66.46	12.961		
15,400.0	12,184.0	15,504.7	12,184.0	31.8	36.8	90.00	-3,064.2	-264.6	861.4	793.4	68.01	12.666		
15,500.0	12,184.0	15,604.7	12,184.0	32.5	37.7	90.00	-3,164.2	-264.0	861.4	791.9	69.57	12.382		
15,600.0	12,184.0	15,704.7	12,184.0	33.2	38.5	90.00	-3,264.2	-263.3	861.4	790.3	71.14	12.109		
15,700.0	12,184.0	15,804.7	12,184.0	34.0	39.4	90.00	-3,364.2	-262.7	861.4	788.7	72.72	11.845		
15,800.0	12,184.0	15,904.7	12,184.0	34.7	40.3	90.00	-3,464.2	-262.0	861.4	787.1	74.31	11.592		
15,900.0	12,184.0	16,004.7	12,184.0	35.4	41.1	90.00	-3,564.1	-261.4	861.4	785.5	75.91	11.347		
16,000.0	12,184.0	16,104.7	12,184.0	36.2	42.0	90.00	-3,664.1	-260.7	861.4	783.9	77.52	11.112		
16,100.0	12,184.0	16,204.7	12,184.0	36.9	42.9	90.00	-3,764.1	-260.1	861.4	782.3	79.14	10.885		
16,200.0	12,184.0	16,304.7	12,184.0	37.7	43.7	90.00	-3,864.1	-259.4	861.4	780.7	80.77	10.665		
16,300.0	12,184.0	16,404.7	12,184.0	38.4	44.6	90.00	-3,964.1	-258.8	861.4	779.0	82.40	10.454		
16,400.0	12,184.0	16,504.7	12,184.0	39.2	45.5	90.00	-4,064.1	-258.2	861.4	777.4	84.04	10.250		
16,500.0	12,184.0	16,604.7	12,184.0	40.0	46.4	90.00	-4,164.1	-257.5	861.4	775.7	85.69	10.053		
16,600.0	12,184.0	16,704.7	12,184.0	40.8	47.3	90.00	-4,264.1	-256.9	861.4	774.1	87.34	9.863		
16,700.0	12,184.0	16,804.7	12,184.0	41.5	48.2	90.00	-4,364.1	-256.2	861.4	772.4	89.00	9.679		
16,800.0	12,184.0	16,904.7	12,184.0	42.3	49.1	90.00	-4,464.1	-255.6	861.4	770.8	90.66	9.502		
16,900.0	12,184.0	17,004.7	12,184.0	43.1	50.0	90.00	-4,564.1	-254.9	861.4	769.1	92.33	9.330		
17,000.0	12,184.0	17,104.7	12,184.0	43.9	50.9	90.00	-4,664.1	-254.3	861.4	767.4	94.00	9.164		
17,100.0	12,184.0	17,204.7	12,184.0	44.7	51.8	90.00	-4,764.1	-253.6	861.4	765.7	95.68	9.003		
17,200.0	12,184.0	17,304.7	12,184.0	45.5	52.7	90.00	-4,864.1	-253.0	861.4	764.1	97.36	8.847		
17,307.0	12,184.0	17,411.7	12,184.0	46.3	53.7	90.00	-4,971.1	-252.3	861.4	762.2	99.17	8.686		
17,355.5	12,184.0	17,460.2	12,184.0	46.7	54.1	90.00	-5,019.6	-252.0	861.0	761.0	99.99	8.611		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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)			
17,400.0	12,184.0	17,504.7	12,184.0	47.0	54.5	90.00	-5,064.1	-251.7	860.3	759.5	100.74	8.540	
17,500.0	12,184.0	17,604.6	12,184.0	47.8	55.4	90.00	-5,164.1	-251.0	858.6	756.1	102.43	8.382	
17,600.0	12,184.0	17,704.6	12,184.0	48.6	56.3	90.00	-5,264.1	-250.4	856.9	752.7	104.13	8.229	
17,700.0	12,184.0	17,804.6	12,184.0	49.4	57.3	90.00	-5,364.1	-249.8	855.2	749.3	105.83	8.081	
17,800.0	12,184.0	17,904.6	12,184.0	50.2	58.2	90.00	-5,464.0	-249.1	853.5	745.9	107.53	7.937	
17,900.0	12,184.0	18,004.6	12,184.0	51.0	59.1	90.00	-5,564.0	-248.5	851.8	742.5	109.23	7.798	
18,000.0	12,184.0	18,104.6	12,184.0	51.8	60.0	90.00	-5,664.0	-247.8	850.1	739.1	110.94	7.662	
18,100.0	12,184.0	18,204.6	12,184.0	52.6	60.9	90.00	-5,764.0	-247.2	848.4	735.7	112.65	7.531	
18,200.0	12,184.0	18,304.5	12,184.0	53.5	61.8	90.00	-5,864.0	-246.5	846.7	732.3	114.37	7.403	
18,300.0	12,184.0	18,404.5	12,184.0	54.3	62.8	90.00	-5,964.0	-245.9	845.0	728.9	116.09	7.279	
18,400.0	12,184.0	18,504.5	12,184.0	55.1	63.7	90.00	-6,063.9	-245.2	843.3	725.5	117.80	7.159	
18,500.0	12,184.0	18,604.5	12,184.0	55.9	64.6	90.00	-6,163.9	-244.6	841.6	722.1	119.53	7.041	
18,600.0	12,184.0	18,704.5	12,184.0	56.7	65.6	90.00	-6,263.9	-243.9	839.9	718.7	121.25	6.927	
18,700.0	12,184.0	18,804.5	12,184.0	57.5	66.5	90.00	-6,363.9	-243.3	838.2	715.3	122.98	6.816	
18,800.0	12,184.0	18,904.5	12,184.0	58.3	67.4	90.00	-6,463.9	-242.6	836.5	711.8	124.70	6.708	
18,900.0	12,184.0	19,004.4	12,184.0	59.1	68.3	90.00	-6,563.9	-242.0	834.8	708.4	126.43	6.603	
19,000.0	12,184.0	19,104.4	12,184.0	60.0	69.3	90.00	-6,663.8	-241.3	833.2	705.0	128.17	6.501	
19,100.0	12,184.0	19,204.4	12,184.0	60.8	70.2	90.00	-6,763.8	-240.7	831.5	701.6	129.90	6.401	
19,200.0	12,184.0	19,304.4	12,184.0	61.6	71.1	90.00	-6,863.8	-240.1	829.8	698.1	131.64	6.304	
19,300.0	12,184.0	19,404.4	12,184.0	62.4	72.1	90.00	-6,963.8	-239.4	828.1	694.7	133.37	6.209	
19,339.0	12,184.0	19,442.8	12,184.0	62.7	72.4	90.00	-7,002.2	-239.2	827.4	693.4	134.04	6.173 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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 710H - 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)	Semi Reference (usft)	Major 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	-0.58	30.0	-0.3	30.0	29.5	0.48	62.572	
100.0	100.0	100.0	100.0	1.2	1.2	-0.58	30.0	-0.3	30.0	27.1	2.87	10.465	
200.0	200.0	200.0	200.0	1.7	1.7	-0.58	30.0	-0.3	30.0	26.1	3.86	7.765	
300.0	300.0	300.0	300.0	2.1	2.1	-0.58	30.0	-0.3	30.0	25.4	4.63	6.475	
400.0	400.0	400.0	400.0	2.4	2.4	-0.58	30.0	-0.3	30.0	24.7	5.29	5.674	
500.0	500.0	500.0	500.0	2.7	2.7	-0.58	30.0	-0.3	30.0	24.1	5.87	5.114	
600.0	600.0	600.0	600.0	3.0	3.0	-0.58	30.0	-0.3	30.0	23.6	6.39	4.692	
700.0	700.0	700.0	700.0	3.2	3.2	-0.58	30.0	-0.3	30.0	23.1	6.88	4.359	
800.0	800.0	800.0	800.0	3.5	3.5	-0.58	30.0	-0.3	30.0	22.7	7.34	4.088	
900.0	900.0	900.0	900.0	3.7	3.7	-0.58	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	-0.58	30.0	-0.3	30.0	21.8	8.18	3.666	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.1	-64.85	30.0	-0.3	29.2	20.6	8.59	3.400	
1,200.0	1,199.8	1,199.8	1,199.8	4.5	4.3	-74.83	30.0	-0.3	27.4	18.4	8.96	3.059	
1,285.0	1,284.6	1,284.6	1,284.6	4.8	4.5	-90.00	30.0	-0.3	26.4	17.2	9.25	2.860	Normal Operations, CC
1,300.0	1,299.5	1,299.5	1,299.5	4.8	4.5	-93.28	30.0	-0.3	26.5	17.2	9.30	2.848	Normal Operations, ES, SF
1,400.0	1,398.7	1,398.7	1,398.7	5.1	4.7	-117.18	30.0	-0.3	29.8	20.0	9.74	3.059	
1,428.1	1,426.5	1,426.5	1,426.5	5.1	4.7	-123.59	30.0	-0.3	31.9	22.0	9.85	3.235	
1,500.0	1,497.6	1,497.6	1,497.6	5.2	4.8	-136.79	30.0	-0.3	38.9	28.7	10.15	3.827	
1,600.0	1,596.5	1,596.5	1,596.5	5.4	5.0	-148.33	30.0	-0.3	50.8	40.2	10.57	4.804	
1,700.0	1,695.4	1,695.4	1,695.4	5.5	5.2	-155.34	30.0	-0.3	64.0	53.0	10.94	5.844	
1,800.0	1,794.3	1,794.3	1,794.3	5.7	5.3	-159.91	30.0	-0.3	77.8	66.5	11.30	6.882	
1,900.0	1,893.1	1,893.1	1,893.1	5.9	5.5	-163.10	30.0	-0.3	91.9	80.3	11.64	7.894	
2,000.0	1,992.0	1,992.0	1,992.0	6.1	5.6	-165.43	30.0	-0.3	106.2	94.3	11.98	8.870	
2,100.0	2,090.9	2,090.9	2,090.9	6.2	5.8	-167.21	30.0	-0.3	120.7	108.4	12.31	9.807	
2,200.0	2,189.8	2,189.8	2,189.8	6.4	5.9	-168.60	30.0	-0.3	135.3	122.6	12.64	10.705	
2,300.0	2,288.7	2,288.7	2,288.7	6.6	6.1	-169.73	30.0	-0.3	149.9	137.0	12.96	11.564	
2,400.0	2,387.6	2,387.6	2,387.6	6.8	6.2	-170.65	30.0	-0.3	164.6	151.3	13.29	12.386	
2,500.0	2,486.5	2,486.5	2,486.5	7.0	6.4	-171.42	30.0	-0.3	179.3	165.7	13.61	13.174	
2,600.0	2,585.3	2,585.3	2,585.3	7.2	6.5	-172.08	30.0	-0.3	194.0	180.1	13.93	13.928	
2,700.0	2,684.2	2,684.2	2,684.2	7.3	6.6	-172.64	30.0	-0.3	208.8	194.5	14.25	14.650	
2,800.0	2,783.1	2,783.1	2,783.1	7.5	6.8	-173.13	30.0	-0.3	223.6	209.0	14.57	15.344	
2,900.0	2,882.0	2,882.0	2,882.0	7.7	6.9	-173.56	30.0	-0.3	238.4	223.5	14.89	16.009	
3,000.0	2,980.9	2,980.9	2,980.9	7.9	7.0	-173.94	30.0	-0.3	253.2	238.0	15.21	16.649	
3,100.0	3,079.8	3,079.8	3,079.8	8.1	7.2	-174.27	30.0	-0.3	268.0	252.5	15.52	17.264	
3,200.0	3,178.7	3,178.7	3,178.7	8.3	7.3	-174.57	30.0	-0.3	282.8	267.0	15.84	17.855	
3,300.0	3,277.5	3,277.5	3,277.5	8.5	7.4	-174.85	30.0	-0.3	297.6	281.5	16.15	18.425	
3,400.0	3,376.4	3,376.4	3,376.4	8.7	7.5	-175.09	30.0	-0.3	312.5	296.0	16.47	18.974	
3,500.0	3,475.3	3,475.3	3,475.3	8.8	7.7	-175.31	30.0	-0.3	327.3	310.5	16.78	19.503	
3,600.0	3,574.2	3,574.2	3,574.2	9.0	7.8	-175.52	30.0	-0.3	342.1	325.0	17.09	20.014	
3,700.0	3,673.1	3,673.1	3,673.1	9.2	7.9	-175.70	30.0	-0.3	357.0	339.6	17.41	20.508	
3,800.0	3,772.0	3,772.0	3,772.0	9.4	8.0	-175.88	30.0	-0.3	371.8	354.1	17.72	20.984	
3,900.0	3,870.9	3,870.9	3,870.9	9.6	8.1	-176.03	30.0	-0.3	386.7	368.6	18.03	21.445	
4,000.0	3,969.7	3,969.7	3,969.7	9.8	8.3	-176.18	30.0	-0.3	401.5	383.2	18.34	21.891	
4,100.0	4,068.6	4,076.4	4,076.4	10.0	8.4	-176.23	31.0	0.0	415.7	397.1	18.69	22.243	
4,200.0	4,167.5	4,187.1	4,186.9	10.2	8.6	-175.88	35.8	1.7	427.4	408.4	19.05	22.431	
4,300.0	4,266.4	4,298.1	4,297.6	10.4	8.9	-175.15	44.6	4.8	436.4	417.0	19.41	22.486	
4,400.0	4,365.3	4,409.2	4,407.9	10.6	9.1	-174.04	57.5	9.4	442.9	423.2	19.76	22.417	
4,500.0	4,464.2	4,520.1	4,517.2	10.8	9.3	-172.56	74.4	15.3	447.0	426.9	20.09	22.253	
4,600.0	4,563.1	4,622.9	4,618.2	11.0	9.5	-170.91	92.9	21.8	449.4	429.0	20.37	22.066	
4,700.0	4,661.9	4,722.1	4,715.5	11.1	9.7	-169.32	111.0	28.2	452.0	431.3	20.68	21.860	
4,800.0	4,760.8	4,821.3	4,812.8	11.3	10.0	-167.75	129.0	34.5	455.0	434.0	20.99	21.678	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 710H - 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		
4,900.0	4,859.7	4,920.4	4,910.1	11.5	10.2	-166.20	147.0	40.9	458.3	437.0	21.30	21.520		
5,000.0	4,958.6	5,019.6	5,007.4	11.7	10.5	-164.68	165.1	47.2	462.0	440.4	21.60	21.384		
5,100.0	5,057.5	5,118.8	5,104.7	11.9	10.8	-163.17	183.1	53.6	466.0	444.1	21.91	21.271		
5,190.5	5,147.0	5,208.5	5,192.8	12.1	11.0	-161.84	199.4	59.3	469.8	447.7	22.17	21.196		
5,200.0	5,156.4	5,217.9	5,202.0	12.1	11.1	-161.70	201.2	59.9	470.3	448.1	22.19	21.192		
5,300.0	5,255.4	5,317.1	5,299.3	12.3	11.4	-160.22	219.2	66.2	473.9	451.4	22.52	21.041		
5,400.0	5,354.7	5,416.3	5,396.6	12.5	11.7	-158.69	237.2	72.6	476.2	453.4	22.80	20.890		
5,500.0	5,454.1	5,515.3	5,493.8	12.7	12.0	-157.09	255.3	78.9	477.3	454.2	23.05	20.703		
5,600.0	5,553.7	5,614.3	5,591.0	12.9	12.3	-155.41	273.3	85.3	477.2	453.9	23.29	20.484		
5,700.0	5,653.5	5,713.2	5,688.0	13.1	12.7	-153.64	291.3	91.6	475.9	452.4	23.51	20.238		
5,800.0	5,753.4	5,811.9	5,784.9	13.2	13.0	-151.76	309.2	97.9	473.5	449.8	23.71	19.972		
5,900.0	5,853.3	5,910.5	5,881.6	13.4	13.4	-149.76	327.1	104.2	470.2	446.3	23.87	19.694		
6,000.0	5,953.3	6,007.0	5,976.4	13.5	13.7	-147.72	344.1	110.2	466.1	442.1	23.99	19.425		
6,046.7	6,000.0	6,052.0	6,020.7	13.6	13.9	-85.55	351.6	112.8	464.1	440.0	24.02	19.316		
6,100.0	6,053.3	6,103.5	6,071.5	13.6	14.0	-84.52	359.7	115.6	461.8	437.8	24.05	19.204		
6,200.0	6,153.3	6,200.0	6,166.8	13.6	14.4	-82.72	373.6	120.6	458.3	434.2	24.13	18.993		
6,300.0	6,253.3	6,298.1	6,264.0	13.7	14.7	-81.07	386.3	125.0	455.6	431.4	24.23	18.808		
6,400.0	6,353.3	6,396.0	6,361.2	13.8	15.1	-79.61	397.4	128.9	453.6	429.3	24.33	18.643		
6,500.0	6,453.3	6,494.4	6,459.1	13.9	15.4	-78.34	407.0	132.3	452.1	427.6	24.44	18.494		
6,600.0	6,553.3	6,593.0	6,557.3	13.9	15.8	-77.27	414.9	135.1	451.0	426.4	24.57	18.355		
6,700.0	6,653.3	6,692.0	6,656.0	14.0	16.1	-76.42	421.3	137.3	450.3	425.5	24.71	18.224		
6,800.0	6,753.3	6,791.1	6,755.0	14.1	16.4	-75.77	426.2	139.0	449.8	424.9	24.85	18.097		
6,900.0	6,853.3	6,890.4	6,854.2	14.1	16.7	-75.34	429.3	140.2	449.5	424.5	25.01	17.974		
7,000.0	6,953.3	6,989.7	6,953.6	14.2	16.9	-75.13	430.9	140.7	449.3	424.2	25.17	17.854		
7,062.4	7,015.7	7,051.8	7,015.7	14.3	17.0	-75.10	431.1	140.8	449.3	424.1	25.25	17.793		
7,100.0	7,053.3	7,089.4	7,053.3	14.3	17.0	-75.10	431.1	140.8	449.3	424.0	25.31	17.755		
7,200.0	7,153.3	7,189.4	7,153.3	14.4	17.1	-75.10	431.1	140.8	449.3	423.8	25.47	17.639		
7,300.0	7,253.3	7,289.4	7,253.3	14.4	17.1	-75.10	431.1	140.8	449.3	423.7	25.64	17.523		
7,400.0	7,353.3	7,389.4	7,353.3	14.5	17.2	-75.10	431.1	140.8	449.3	423.5	25.81	17.409		
7,500.0	7,453.3	7,489.4	7,453.3	14.6	17.3	-75.10	431.1	140.8	449.3	423.3	25.98	17.296		
7,600.0	7,553.3	7,589.4	7,553.3	14.7	17.3	-75.10	431.1	140.8	449.3	423.2	26.15	17.184		
7,700.0	7,653.3	7,689.4	7,653.3	14.7	17.4	-75.10	431.1	140.8	449.3	423.0	26.32	17.074		
7,800.0	7,753.3	7,789.4	7,753.3	14.8	17.5	-75.10	431.1	140.8	449.3	422.8	26.48	16.965		
7,900.0	7,853.3	7,889.4	7,853.3	14.9	17.6	-75.10	431.1	140.8	449.3	422.7	26.65	16.858		
8,000.0	7,953.3	7,989.4	7,953.3	14.9	17.6	-75.10	431.1	140.8	449.3	422.5	26.82	16.753		
8,100.0	8,053.3	8,089.4	8,053.3	15.0	17.7	-75.10	431.1	140.8	449.3	422.3	26.99	16.648		
8,200.0	8,153.3	8,189.4	8,153.3	15.1	17.8	-75.10	431.1	140.8	449.3	422.2	27.16	16.545		
8,300.0	8,253.3	8,289.4	8,253.3	15.2	17.8	-75.10	431.1	140.8	449.3	422.0	27.33	16.444		
8,400.0	8,353.3	8,389.4	8,353.3	15.2	17.9	-75.10	431.1	140.8	449.3	421.8	27.49	16.343		
8,500.0	8,453.3	8,489.4	8,453.3	15.3	18.0	-75.10	431.1	140.8	449.3	421.7	27.66	16.244		
8,600.0	8,553.3	8,589.4	8,553.3	15.4	18.1	-75.10	431.1	140.8	449.3	421.5	27.83	16.146		
8,700.0	8,653.3	8,689.4	8,653.3	15.5	18.1	-75.10	431.1	140.8	449.3	421.3	28.00	16.049		
8,800.0	8,753.3	8,789.4	8,753.3	15.5	18.2	-75.10	431.1	140.8	449.3	421.2	28.16	15.954		
8,900.0	8,853.3	8,889.4	8,853.3	15.6	18.3	-75.10	431.1	140.8	449.3	421.0	28.33	15.860		
9,000.0	8,953.3	8,989.4	8,953.3	15.7	18.3	-75.10	431.1	140.8	449.3	420.8	28.50	15.767		
9,100.0	9,053.3	9,089.4	9,053.3	15.8	18.4	-75.10	431.1	140.8	449.3	420.7	28.67	15.674		
9,200.0	9,153.3	9,189.4	9,153.3	15.8	18.5	-75.10	431.1	140.8	449.3	420.5	28.83	15.584		
9,300.0	9,253.3	9,289.4	9,253.3	15.9	18.6	-75.10	431.1	140.8	449.3	420.3	29.00	15.494		
9,400.0	9,353.3	9,389.4	9,353.3	16.0	18.6	-75.10	431.1	140.8	449.3	420.2	29.17	15.405		
9,500.0	9,453.3	9,489.4	9,453.3	16.1	18.7	-75.10	431.1	140.8	449.3	420.0	29.33	15.317		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 710H - 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	9,553.3	9,589.4	9,553.3	16.1	18.8	-75.10	431.1	140.8	449.3	419.8	29.50	15.231		
9,700.0	9,653.3	9,689.4	9,653.3	16.2	18.8	-75.10	431.1	140.8	449.3	419.7	29.67	15.145		
9,800.0	9,753.3	9,789.4	9,753.3	16.3	18.9	-75.10	431.1	140.8	449.3	419.5	29.83	15.060		
9,900.0	9,853.3	9,889.4	9,853.3	16.3	19.0	-75.10	431.1	140.8	449.3	419.3	30.00	14.977		
10,000.0	9,953.3	9,989.4	9,953.3	16.4	19.1	-75.10	431.1	140.8	449.3	419.2	30.17	14.894		
10,100.0	10,053.3	10,089.4	10,053.3	16.5	19.1	-75.10	431.1	140.8	449.3	419.0	30.34	14.812		
10,200.0	10,153.3	10,189.4	10,153.3	16.6	19.2	-75.10	431.1	140.8	449.3	418.8	30.50	14.731		
10,300.0	10,253.3	10,289.4	10,253.3	16.6	19.3	-75.10	431.1	140.8	449.3	418.7	30.67	14.651		
10,400.0	10,353.3	10,389.4	10,353.3	16.7	19.4	-75.10	431.1	140.8	449.3	418.5	30.83	14.572		
10,500.0	10,453.3	10,489.4	10,453.3	16.8	19.4	-75.10	431.1	140.8	449.3	418.3	31.00	14.494		
10,600.0	10,553.3	10,589.4	10,553.3	16.9	19.5	-75.10	431.1	140.8	449.3	418.2	31.17	14.416		
10,700.0	10,653.3	10,689.4	10,653.3	16.9	19.6	-75.10	431.1	140.8	449.3	418.0	31.33	14.340		
10,800.0	10,753.3	10,789.4	10,753.3	17.0	19.6	-75.10	431.1	140.8	449.3	417.8	31.50	14.264		
10,900.0	10,853.3	10,889.4	10,853.3	17.1	19.7	-75.10	431.1	140.8	449.3	417.7	31.67	14.189		
11,000.0	10,953.3	10,989.4	10,953.3	17.2	19.8	-75.10	431.1	140.8	449.3	417.5	31.83	14.115		
11,100.0	11,053.3	11,089.4	11,053.3	17.3	19.9	-75.10	431.1	140.8	449.3	417.3	32.00	14.042		
11,200.0	11,153.3	11,189.4	11,153.3	17.3	19.9	-75.10	431.1	140.8	449.3	417.2	32.16	13.970		
11,300.0	11,253.3	11,289.4	11,253.3	17.4	20.0	-75.10	431.1	140.8	449.3	417.0	32.33	13.898		
11,400.0	11,353.3	11,389.4	11,353.3	17.5	20.1	-75.10	431.1	140.8	449.3	416.8	32.50	13.827		
11,500.0	11,453.3	11,489.4	11,453.3	17.6	20.2	-75.10	431.1	140.8	449.3	416.7	32.66	13.757		
11,600.0	11,553.3	11,589.4	11,553.3	17.6	20.2	-75.10	431.1	140.8	449.3	416.5	32.83	13.687		
11,700.0	11,653.3	11,689.4	11,653.3	17.7	20.3	-75.10	431.1	140.8	449.3	416.3	32.99	13.619		
11,753.2	11,706.5	11,742.6	11,706.5	17.7	20.3	-75.10	431.1	140.8	449.3	416.3	33.07	13.588		
11,775.0	11,728.3	11,764.4	11,728.3	17.7	20.4	105.31	431.1	140.8	449.5	416.4	33.09	13.584		
11,800.0	11,753.2	11,789.4	11,753.2	17.7	20.4	105.48	431.1	140.8	449.9	416.8	33.10	13.594		
11,825.0	11,778.0	11,814.2	11,778.0	17.7	20.4	105.76	431.1	140.8	450.8	417.7	33.10	13.619		
11,850.0	11,802.6	11,838.8	11,802.6	17.7	20.4	106.14	431.1	140.8	452.0	418.9	33.09	13.658		
11,875.0	11,827.0	11,863.1	11,827.0	17.7	20.4	106.62	431.1	140.8	453.6	420.5	33.08	13.711		
11,900.0	11,851.0	11,887.1	11,851.0	17.6	20.4	107.19	431.1	140.8	455.7	422.7	33.07	13.780		
11,925.0	11,874.6	11,910.7	11,874.6	17.6	20.5	107.82	431.1	140.8	458.3	425.3	33.05	13.867		
11,950.0	11,897.8	11,938.0	11,901.9	17.6	20.5	108.68	430.9	140.8	461.4	428.4	33.02	13.973		
11,975.0	11,920.4	11,973.3	11,937.1	17.6	20.4	109.83	428.7	140.8	464.7	431.7	33.00	14.081		
12,000.0	11,942.5	12,009.9	11,973.4	17.6	20.3	110.94	423.7	140.8	467.8	434.8	33.01	14.171		
12,025.0	11,963.9	12,047.9	12,010.5	17.6	20.2	111.99	415.5	140.9	470.9	437.8	33.08	14.234		
12,050.0	11,984.5	12,087.3	12,048.1	17.5	20.1	112.97	404.0	141.0	473.8	440.6	33.22	14.264		
12,075.0	12,004.5	12,128.1	12,085.9	17.5	20.0	113.87	388.8	141.1	476.5	443.1	33.43	14.254		
12,100.0	12,023.6	12,170.1	12,123.4	17.5	19.9	114.66	369.9	141.2	478.9	445.2	33.73	14.202		
12,125.0	12,041.8	12,213.2	12,160.0	17.5	19.7	115.35	347.1	141.3	481.0	446.9	34.10	14.107		
12,150.0	12,059.2	12,257.4	12,195.2	17.5	19.6	115.90	320.4	141.5	482.7	448.2	34.54	13.974		
12,175.0	12,075.5	12,302.4	12,228.4	17.5	19.5	116.32	290.0	141.7	484.0	449.0	35.05	13.810		
12,200.0	12,090.9	12,348.0	12,258.9	17.5	19.4	116.58	256.2	141.9	484.8	449.2	35.59	13.624		
12,225.0	12,105.2	12,393.9	12,286.2	17.5	19.3	116.69	219.3	142.2	485.1	449.0	36.14	13.426		
12,250.0	12,118.4	12,439.9	12,309.9	17.5	19.3	116.63	179.9	142.4	485.0	448.3	36.67	13.226		
12,275.0	12,130.5	12,485.6	12,329.6	17.5	19.2	116.42	138.7	142.7	484.3	447.2	37.16	13.034		
12,300.0	12,141.4	12,530.8	12,345.2	17.5	19.2	116.06	96.2	142.9	483.2	445.6	37.58	12.857		
12,325.0	12,151.1	12,575.3	12,356.5	17.5	19.2	115.55	53.2	143.2	481.6	443.7	37.93	12.700		
12,350.0	12,159.6	12,618.8	12,363.6	17.5	19.1	114.91	10.3	143.5	479.7	441.5	38.18	12.564		
12,375.0	12,166.9	12,661.2	12,366.7	17.6	19.1	114.15	-32.0	143.8	477.4	439.0	38.34	12.452		
12,400.0	12,172.9	12,691.5	12,367.0	17.6	19.2	113.62	-62.3	144.0	474.9	436.6	38.29	12.404		
12,425.0	12,177.6	12,716.1	12,367.0	17.6	19.2	113.32	-86.8	144.1	473.0	434.8	38.21	12.381		
12,450.0	12,181.0	12,740.8	12,367.0	17.6	19.2	113.09	-111.6	144.3	471.7	433.5	38.18	12.355		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 710H - 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		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)				
12,475.0	12,183.1	12,765.8	12,367.0	17.7	19.2	112.95	-136.5	144.5	470.8	432.6	38.19	12.328		
12,500.0	12,184.0	12,790.7	12,367.0	17.7	19.2	112.89	-161.5	144.6	470.5	432.2	38.25	12.299		
12,503.2	12,184.0	12,793.9	12,367.0	17.7	19.2	112.89	-164.7	144.6	470.5	432.2	38.27	12.296		
12,600.0	12,184.0	12,890.7	12,367.0	17.8	19.3	112.89	-261.5	145.3	470.5	431.8	38.69	12.162		
12,700.0	12,184.0	12,990.7	12,367.0	18.0	19.3	112.89	-361.5	145.9	470.5	431.3	39.19	12.005		
12,800.0	12,184.0	13,090.7	12,367.0	18.2	19.4	112.89	-461.5	146.6	470.5	430.7	39.77	11.831		
12,900.0	12,184.0	13,190.7	12,367.0	18.4	19.6	112.89	-561.5	147.2	470.5	430.1	40.41	11.643		
13,000.0	12,184.0	13,290.7	12,367.0	18.7	19.8	112.89	-661.5	147.9	470.5	429.4	41.11	11.443		
13,100.0	12,184.0	13,390.7	12,367.0	19.0	20.1	112.89	-761.4	148.5	470.5	428.6	41.88	11.234		
13,200.0	12,184.0	13,490.7	12,367.0	19.3	20.4	112.89	-861.4	149.2	470.5	427.8	42.70	11.017		
13,300.0	12,184.0	13,590.7	12,367.0	19.6	20.8	112.89	-961.4	149.8	470.5	426.9	43.58	10.796		
13,400.0	12,184.0	13,690.7	12,367.0	20.0	21.3	112.89	-1,061.4	150.5	470.5	426.0	44.51	10.570		
13,500.0	12,184.0	13,790.7	12,367.0	20.4	21.8	112.89	-1,161.4	151.1	470.5	425.0	45.48	10.344		
13,600.0	12,184.0	13,890.7	12,367.0	20.8	22.4	112.89	-1,261.4	151.8	470.5	424.0	46.50	10.117		
13,700.0	12,184.0	13,990.7	12,367.0	21.3	23.0	112.89	-1,361.4	152.4	470.5	422.9	47.56	9.891		
13,800.0	12,184.0	14,090.7	12,367.0	21.8	23.6	112.89	-1,461.4	153.0	470.5	421.8	48.66	9.668		
13,900.0	12,184.0	14,190.7	12,367.0	22.3	24.3	112.89	-1,561.4	153.7	470.5	420.7	49.80	9.447		
14,000.0	12,184.0	14,290.7	12,367.0	22.8	25.0	112.89	-1,661.4	154.3	470.5	419.5	50.97	9.230		
14,100.0	12,184.0	14,390.7	12,367.0	23.4	25.7	112.89	-1,761.4	155.0	470.5	418.3	52.17	9.018		
14,200.0	12,184.0	14,490.7	12,367.0	23.9	26.4	112.89	-1,861.4	155.6	470.5	417.1	53.40	8.810		
14,300.0	12,184.0	14,590.7	12,367.0	24.5	27.2	112.89	-1,961.4	156.3	470.5	415.8	54.66	8.607		
14,400.0	12,184.0	14,690.7	12,367.0	25.1	28.0	112.89	-2,061.4	156.9	470.5	414.5	55.94	8.410		
14,500.0	12,184.0	14,790.7	12,367.0	25.7	28.7	112.89	-2,161.4	157.6	470.5	413.2	57.25	8.218		
14,600.0	12,184.0	14,890.7	12,367.0	26.4	29.5	112.89	-2,261.4	158.2	470.5	411.9	58.58	8.031		
14,700.0	12,184.0	14,990.7	12,367.0	27.0	30.3	112.89	-2,361.4	158.9	470.4	410.5	59.93	7.850		
14,800.0	12,184.0	15,090.7	12,367.0	27.6	31.1	112.89	-2,461.4	159.5	470.4	409.1	61.30	7.675		
14,900.0	12,184.0	15,190.7	12,367.0	28.3	31.9	112.89	-2,561.4	160.2	470.4	407.8	62.69	7.505		
15,000.0	12,184.0	15,290.7	12,367.0	29.0	32.8	112.89	-2,661.4	160.8	470.4	406.4	64.09	7.340		
15,100.0	12,184.0	15,390.7	12,367.0	29.7	33.6	112.89	-2,761.4	161.5	470.4	404.9	65.51	7.181		
15,200.0	12,184.0	15,490.7	12,367.0	30.4	34.4	112.89	-2,861.4	162.1	470.4	403.5	66.94	7.027		
15,300.0	12,184.0	15,590.7	12,367.0	31.1	35.3	112.89	-2,961.4	162.8	470.4	402.0	68.39	6.879		
15,400.0	12,184.0	15,690.7	12,367.0	31.8	36.1	112.89	-3,061.4	163.4	470.4	400.6	69.85	6.735		
15,500.0	12,184.0	15,790.7	12,367.0	32.5	37.0	112.89	-3,161.4	164.1	470.4	399.1	71.33	6.595		
15,600.0	12,184.0	15,890.7	12,367.0	33.2	37.8	112.89	-3,261.4	164.7	470.4	397.6	72.81	6.461		
15,700.0	12,184.0	15,990.7	12,367.0	34.0	38.7	112.90	-3,361.4	165.4	470.4	396.1	74.31	6.331		
15,800.0	12,184.0	16,090.7	12,367.0	34.7	39.6	112.90	-3,461.4	166.0	470.4	394.6	75.81	6.205		
15,900.0	12,184.0	16,190.7	12,367.0	35.4	40.5	112.90	-3,561.4	166.7	470.4	393.1	77.33	6.084		
16,000.0	12,184.0	16,290.7	12,367.0	36.2	41.3	112.90	-3,661.4	167.3	470.4	391.6	78.85	5.966		
16,100.0	12,184.0	16,390.7	12,367.0	36.9	42.2	112.90	-3,761.4	168.0	470.4	390.0	80.38	5.852		
16,200.0	12,184.0	16,490.7	12,367.0	37.7	43.1	112.90	-3,861.4	168.6	470.4	388.5	81.92	5.742		
16,300.0	12,184.0	16,590.7	12,367.0	38.4	44.0	112.90	-3,961.4	169.3	470.4	386.9	83.47	5.636		
16,400.0	12,184.0	16,690.7	12,367.0	39.2	44.9	112.90	-4,061.4	169.9	470.4	385.4	85.03	5.533		
16,500.0	12,184.0	16,790.7	12,367.0	40.0	45.8	112.90	-4,161.4	170.6	470.4	383.8	86.59	5.433		
16,600.0	12,184.0	16,890.7	12,367.0	40.8	46.7	112.90	-4,261.4	171.2	470.4	382.3	88.15	5.336		
16,700.0	12,184.0	16,990.7	12,367.0	41.5	47.6	112.90	-4,361.4	171.9	470.4	380.7	89.73	5.243		
16,800.0	12,184.0	17,090.7	12,367.0	42.3	48.5	112.90	-4,461.4	172.5	470.4	379.1	91.31	5.152		
16,900.0	12,184.0	17,190.7	12,367.0	43.1	49.4	112.90	-4,561.4	173.2	470.4	377.5	92.89	5.064		
17,000.0	12,184.0	17,290.7	12,367.0	43.9	50.3	112.90	-4,661.4	173.8	470.4	375.9	94.48	4.979		
17,100.0	12,184.0	17,390.7	12,367.0	44.7	51.2	112.90	-4,761.4	174.5	470.4	374.3	96.08	4.896		
17,200.0	12,184.0	17,490.7	12,367.0	45.5	52.1	112.90	-4,861.4	175.1	470.4	372.7	97.68	4.816		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 710H - OWB - PWP0											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 MWD+IFR1					Rule Assigned:							Offset Well Error:		0.0 usft
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning			
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)					
17,307.0	12,184.0	17,597.7	12,367.0	46.3	53.1	112.90	-4,968.4	175.8	470.4	371.0	99.39	4.733				
17,355.5	12,184.0	17,646.2	12,367.0	46.7	53.6	112.92	-5,016.9	176.1	470.0	369.8	100.17	4.692				
17,400.0	12,184.0	17,690.7	12,367.0	47.0	54.0	112.96	-5,061.3	176.4	469.3	368.4	100.88	4.652				
17,500.0	12,184.0	17,790.7	12,367.0	47.8	54.9	113.04	-5,161.3	177.0	467.8	365.3	102.49	4.564				
17,600.0	12,184.0	17,890.7	12,367.0	48.6	55.8	113.12	-5,261.3	177.7	466.2	362.1	104.10	4.478				
17,700.0	12,184.0	17,990.7	12,367.0	49.4	56.7	113.20	-5,361.3	178.3	464.6	358.9	105.71	4.395				
17,800.0	12,184.0	18,090.7	12,367.0	50.2	57.6	113.28	-5,461.3	179.0	463.1	355.8	107.32	4.315				
17,900.0	12,184.0	18,190.7	12,367.0	51.0	58.6	113.37	-5,561.3	179.6	461.5	352.6	108.94	4.237				
18,000.0	12,184.0	18,290.6	12,367.0	51.8	59.5	113.45	-5,661.3	180.3	460.0	349.4	110.55	4.161				
18,100.0	12,184.0	18,390.6	12,367.0	52.6	60.4	113.54	-5,761.2	180.9	458.4	346.2	112.17	4.087				
18,200.0	12,184.0	18,490.6	12,367.0	53.5	61.3	113.62	-5,861.2	181.6	456.9	343.1	113.79	4.015				
18,300.0	12,184.0	18,590.6	12,367.0	54.3	62.3	113.71	-5,961.2	182.2	455.3	339.9	115.42	3.945				
18,400.0	12,184.0	18,690.6	12,367.0	55.1	63.2	113.79	-6,061.2	182.9	453.8	336.7	117.04	3.877				
18,500.0	12,184.0	18,790.6	12,367.0	55.9	64.1	113.88	-6,161.2	183.5	452.2	333.5	118.66	3.811				
18,600.0	12,184.0	18,890.6	12,367.0	56.7	65.1	113.97	-6,261.2	184.2	450.7	330.4	120.29	3.746				
18,700.0	12,184.0	18,990.5	12,367.0	57.5	66.0	114.05	-6,361.1	184.8	449.1	327.2	121.91	3.684				
18,800.0	12,184.0	19,090.5	12,367.0	58.3	66.9	114.14	-6,461.1	185.5	447.6	324.0	123.54	3.623				
18,900.0	12,184.0	19,190.5	12,367.0	59.1	67.9	114.23	-6,561.1	186.1	446.0	320.8	125.17	3.563				
19,000.0	12,184.0	19,290.5	12,367.0	60.0	68.8	114.32	-6,661.1	186.8	444.5	317.7	126.79	3.505				
19,100.0	12,184.0	19,390.5	12,367.0	60.8	69.7	114.41	-6,761.1	187.4	442.9	314.5	128.42	3.449				
19,200.0	12,184.0	19,490.5	12,367.0	61.6	70.7	114.50	-6,861.1	188.1	441.4	311.3	130.05	3.394				
19,300.0	12,184.0	19,590.5	12,367.0	62.4	71.6	114.59	-6,961.0	188.7	439.8	308.2	131.68	3.340				
19,339.0	12,184.0	19,628.7	12,367.0	62.7	72.0	114.63	-6,999.3	189.0	439.2	306.9	132.29	3.320				

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	105.52	-191.3	688.7	714.8	710.1	4.67	153.136		
100.0	100.0	104.0	104.0	1.2	4.3	105.52	-191.3	688.7	714.8	708.0	6.75	105.908		
200.0	200.0	204.0	204.0	1.7	6.8	105.52	-191.3	688.7	714.8	704.5	10.28	69.504		
300.0	300.0	304.0	304.0	2.1	9.6	105.52	-191.3	688.7	714.8	700.6	14.19	50.369		
400.0	400.0	404.0	404.0	2.4	12.5	105.52	-191.3	688.7	714.8	696.5	18.23	39.218		
500.0	500.0	504.2	504.0	2.7	15.4	105.52	-191.3	688.7	714.8	692.4	22.33	32.014		
600.0	600.0	604.2	604.0	3.0	18.4	105.52	-191.3	688.7	714.8	688.3	26.45	27.024		
700.0	700.0	704.2	704.0	3.2	21.3	105.52	-191.3	688.7	714.8	684.2	30.59	23.367		
745.6	745.6	749.9	749.6	3.4	22.7	105.27	-188.0	688.7	713.9	681.4	32.48	21.978		
800.0	800.0	803.2	802.9	3.5	24.3	105.28	-188.1	688.7	713.9	679.2	34.70	20.575		
900.0	900.0	901.5	901.1	3.7	27.2	105.36	-189.2	688.7	714.2	675.4	38.79	18.414		
1,000.0	1,000.0	1,004.6	1,004.0	3.9	30.3	105.52	-191.3	688.7	714.8	671.7	43.08	16.593		
1,100.0	1,100.0	1,104.5	1,104.0	4.2	33.3	44.40	-191.3	688.7	713.5	666.3	47.25	15.099		
1,200.0	1,199.8	1,204.4	1,203.8	4.5	36.3	44.74	-191.3	688.7	709.8	658.4	51.43	13.802		
1,300.0	1,299.5	1,303.6	1,303.1	4.8	39.2	45.25	-190.2	688.7	703.3	647.7	55.58	12.655		
1,400.0	1,398.7	1,402.2	1,401.6	5.1	42.2	46.10	-190.6	688.7	694.9	635.2	59.70	11.640		
1,428.1	1,426.5	1,429.8	1,429.2	5.1	43.0	46.39	-190.7	688.7	692.1	631.3	60.85	11.375		
1,500.0	1,497.6	1,502.5	1,501.6	5.2	45.2	47.09	-191.3	688.7	684.9	621.0	63.87	10.723		
1,600.0	1,596.5	1,601.4	1,600.5	5.4	48.1	48.01	-191.3	688.7	674.8	606.8	68.00	9.923		
1,700.0	1,695.4	1,700.3	1,699.4	5.5	51.1	48.96	-191.3	688.7	664.9	592.7	72.14	9.217		
1,800.0	1,794.3	1,798.1	1,797.1	5.7	54.0	49.67	-188.1	688.7	654.0	577.8	76.22	8.580		
1,900.0	1,893.1	1,894.7	1,893.6	5.9	56.9	50.73	-189.1	688.7	644.8	564.5	80.26	8.033		
2,000.0	1,992.0	1,991.2	1,990.1	6.1	59.8	51.89	-191.0	688.7	636.2	551.9	84.30	7.547		
2,100.0	2,090.9	2,096.1	2,094.9	6.2	63.0	53.04	-191.3	688.7	627.1	538.4	88.69	7.071		
2,200.0	2,189.8	2,195.0	2,193.8	6.4	65.9	54.13	-191.3	688.7	618.2	525.4	92.82	6.660		
2,300.0	2,288.7	2,293.5	2,292.3	6.6	68.9	55.17	-190.2	688.7	609.1	512.1	96.94	6.283		
2,400.0	2,387.6	2,391.5	2,390.2	6.8	71.8	56.34	-190.5	688.7	600.8	499.7	101.04	5.946		
2,500.0	2,486.5	2,489.4	2,488.1	7.0	74.7	57.57	-191.2	688.7	592.9	487.8	105.14	5.639		
2,600.0	2,585.3	2,590.9	2,589.3	7.2	77.8	58.83	-191.3	688.7	585.0	475.6	109.39	5.348		
2,700.0	2,684.2	2,689.8	2,688.2	7.3	80.7	60.08	-191.3	688.7	577.4	463.9	113.53	5.086		
2,800.0	2,783.1	2,787.5	2,785.9	7.5	83.7	61.08	-188.1	688.7	568.4	450.7	117.62	4.832		
2,900.0	2,882.0	2,883.4	2,881.8	7.7	86.6	62.43	-188.9	688.7	561.7	440.1	121.63	4.618		
3,000.0	2,980.9	2,979.3	2,977.5	7.9	89.4	63.89	-190.7	688.7	556.0	430.4	125.63	4.426		
3,100.0	3,079.8	3,085.7	3,083.8	8.1	92.6	65.42	-191.3	688.7	549.9	419.8	130.09	4.227		
3,200.0	3,178.7	3,184.5	3,182.7	8.3	95.6	66.83	-191.3	688.7	543.8	409.5	134.23	4.051		
3,300.0	3,277.5	3,283.0	3,281.1	8.5	98.5	68.18	-190.2	688.7	537.4	399.0	138.36	3.884		
3,400.0	3,376.4	3,380.7	3,378.9	8.7	101.5	69.66	-190.5	688.7	532.1	389.7	142.45	3.736		
3,500.0	3,475.3	3,478.4	3,476.5	8.8	104.4	71.19	-191.1	688.7	527.5	381.0	146.53	3.600		
3,600.0	3,574.2	3,580.4	3,578.2	9.0	107.5	72.78	-191.3	688.7	523.0	372.2	150.80	3.468		
3,700.0	3,673.1	3,679.3	3,677.1	9.2	110.4	74.33	-191.3	688.7	518.7	363.8	154.94	3.348		
3,800.0	3,772.0	3,777.1	3,774.8	9.4	113.4	75.65	-188.0	688.7	512.5	353.5	159.04	3.222		
3,900.0	3,870.9	3,872.4	3,870.0	9.6	116.2	77.25	-188.8	688.7	509.6	346.5	163.02	3.126		
4,000.0	3,969.7	3,967.5	3,965.1	9.8	119.1	78.93	-190.5	688.7	507.8	340.8	166.99	3.041		
4,100.0	4,068.6	4,075.2	4,072.6	10.0	122.3	80.77	-191.3	688.7	505.7	334.2	171.52	2.949 Normal Operations		
4,200.0	4,167.5	4,174.1	4,171.5	10.2	125.3	82.42	-191.3	688.7	503.5	327.9	175.66	2.867 Normal Operations		
4,300.0	4,266.4	4,272.6	4,270.1	10.4	128.2	84.02	-190.2	688.7	500.9	321.1	179.79	2.786 Normal Operations		
4,400.0	4,365.3	4,370.1	4,367.5	10.6	131.1	85.69	-190.4	688.7	499.7	315.9	183.87	2.718 Normal Operations		
4,500.0	4,464.2	4,467.5	4,465.0	10.8	134.1	87.38	-191.0	688.7	499.3	311.4	187.95	2.657 Normal Operations		
4,600.0	4,563.1	4,569.9	4,567.1	11.0	137.1	89.14	-191.3	688.7	499.1	306.9	192.24	2.596 Normal Operations		
4,650.8	4,613.3	4,620.2	4,617.3	11.1	138.6	90.00	-191.3	688.7	499.0	304.7	194.34	2.568 Normal Operations, CC		
4,700.0	4,661.9	4,668.8	4,665.9	11.1	140.1	90.83	-191.3	688.7	499.1	302.7	196.38	2.541 Normal Operations		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			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	
4,704.4	4,666.3	4,673.2	4,670.3	11.2	140.2	90.91	-191.3	688.7	499.1	302.5	196.56	2.539	Normal Operations	
4,800.0	4,760.8	4,744.0	4,741.0	11.3	142.4	92.11	-191.3	688.7	500.1	300.8	199.31	2.509	Normal Operations, ES, SF	
4,900.0	4,859.7	4,744.0	4,741.0	11.5	142.4	92.11	-191.3	688.7	515.2	321.4	193.85	2.658	Normal Operations	
5,000.0	4,958.6	4,744.0	4,741.0	11.7	142.4	92.11	-191.3	688.7	548.5	365.8	182.69	3.002		
5,100.0	5,057.5	4,744.0	4,741.0	11.9	142.4	92.11	-191.3	688.7	596.9	428.2	168.64	3.539		
5,190.5	5,147.0	4,744.0	4,741.0	12.1	142.4	92.11	-191.3	688.7	650.9	495.4	155.42	4.188		
5,200.0	5,156.4	4,744.0	4,741.0	12.1	142.4	92.19	-191.3	688.7	657.0	502.9	154.06	4.264		
5,300.0	5,255.4	4,744.0	4,741.0	12.3	142.4	93.15	-191.3	688.7	725.9	585.6	140.32	5.173		
5,400.0	5,354.7	4,744.0	4,741.0	12.5	142.4	94.30	-191.3	688.7	801.4	673.4	127.94	6.264		
5,500.0	5,454.1	4,744.0	4,741.0	12.7	142.4	95.64	-191.3	688.7	881.6	764.6	117.06	7.531		
5,600.0	5,553.7	4,744.0	4,741.0	12.9	142.4	97.17	-191.3	688.7	965.5	857.9	107.58	8.975		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	
2,900.0	2,882.0	3,001.9	3,000.1	7.7	6.7	25.67	183.9	1,204.9	990.7	976.0	14.62	67.777		
3,000.0	2,980.9	3,098.2	3,096.0	7.9	6.9	25.89	186.0	1,196.3	968.6	953.5	15.02	64.496		
3,100.0	3,079.8	3,190.3	3,187.6	8.1	7.1	26.13	187.7	1,188.4	946.8	931.4	15.42	61.385		
3,200.0	3,178.7	3,278.2	3,275.3	8.3	7.4	26.38	189.1	1,181.6	925.8	910.0	15.83	58.493		
3,300.0	3,277.5	3,374.8	3,371.7	8.5	7.6	26.62	191.5	1,174.9	905.8	889.6	16.25	55.759		
3,400.0	3,376.4	3,495.4	3,491.7	8.7	7.9	26.83	195.9	1,165.1	884.6	867.9	16.72	52.902		
3,500.0	3,475.3	3,592.8	3,588.6	8.8	8.2	26.94	200.5	1,155.4	861.7	844.5	17.17	50.188		
3,600.0	3,574.2	3,691.9	3,687.1	9.0	8.5	27.04	205.4	1,145.6	838.9	821.3	17.62	47.606		
3,700.0	3,673.1	3,794.5	3,789.1	9.2	8.8	27.22	209.4	1,135.1	815.7	797.6	18.09	45.084		
3,800.0	3,772.0	3,890.0	3,884.0	9.4	9.1	27.49	211.9	1,124.9	792.0	773.4	18.57	42.649		
3,900.0	3,870.9	3,985.0	3,978.5	9.6	9.4	27.80	214.2	1,115.3	768.9	749.8	19.05	40.360		
4,000.0	3,969.7	4,065.3	4,058.4	9.8	9.7	28.09	215.8	1,108.5	747.2	727.7	19.50	38.311		
4,100.0	4,068.6	4,174.6	4,167.3	10.0	10.0	28.53	217.9	1,099.4	725.9	705.9	20.01	36.280		
4,200.0	4,167.5	4,267.6	4,260.0	10.2	10.3	28.92	219.7	1,091.0	703.9	683.5	20.49	34.348		
4,300.0	4,266.4	4,368.0	4,359.9	10.4	10.7	29.43	221.0	1,082.0	682.1	661.1	21.00	32.484		
4,400.0	4,365.3	4,463.9	4,455.4	10.6	11.0	29.98	221.9	1,073.3	660.1	638.6	21.50	30.708		
4,500.0	4,464.2	4,555.2	4,546.4	10.8	11.3	30.58	222.2	1,065.5	638.8	616.8	21.99	29.057		
4,600.0	4,563.1	4,652.9	4,643.8	11.0	11.6	31.20	223.2	1,057.7	618.1	595.6	22.48	27.491		
4,700.0	4,661.9	4,751.7	4,742.2	11.1	12.0	31.73	225.7	1,049.8	597.3	574.3	22.98	25.996		
4,800.0	4,760.8	4,851.5	4,841.7	11.3	12.3	32.29	228.4	1,041.4	576.2	552.8	23.40	24.623		
4,900.0	4,859.7	4,949.3	4,939.1	11.5	12.6	32.89	231.0	1,033.1	555.1	531.2	23.90	23.227		
5,000.0	4,958.6	5,041.4	5,030.8	11.7	13.0	33.45	233.8	1,025.5	534.2	509.8	24.39	21.903		
5,100.0	5,057.5	5,135.1	5,124.2	11.9	13.3	34.05	236.7	1,019.1	514.8	489.9	24.88	20.694		
5,190.5	5,147.0	5,220.4	5,209.3	12.1	13.6	34.76	238.2	1,013.4	497.5	472.2	25.31	19.661		
5,200.0	5,156.4	5,228.9	5,217.8	12.1	13.6	34.82	238.4	1,012.8	495.8	470.4	25.35	19.561		
5,300.0	5,255.4	5,322.5	5,311.2	12.3	13.9	35.54	239.6	1,007.8	478.9	453.1	25.85	18.526		
5,400.0	5,354.7	5,420.5	5,409.2	12.5	14.2	36.27	240.5	1,002.9	464.0	437.7	26.32	17.631		
5,500.0	5,454.1	5,511.1	5,499.7	12.7	14.5	36.86	241.3	998.8	451.1	424.4	26.76	16.858		
5,600.0	5,553.7	5,601.5	5,590.0	12.9	14.7	37.37	241.9	997.2	442.3	415.2	27.15	16.290		
5,700.0	5,653.5	5,699.8	5,688.3	13.1	15.0	37.85	242.2	996.3	435.9	408.4	27.51	15.844		
5,800.0	5,753.4	5,799.6	5,788.1	13.2	15.2	38.21	242.6	995.5	430.9	403.1	27.87	15.463		
5,900.0	5,853.3	5,899.0	5,887.5	13.4	15.4	38.45	242.9	994.7	427.4	399.2	28.22	15.149		
6,000.0	5,953.3	5,998.5	5,987.0	13.5	15.6	38.54	243.3	994.1	425.4	396.9	28.55	14.902		
6,046.7	6,000.0	6,045.1	6,033.6	13.6	15.7	99.78	243.4	993.8	425.0	396.3	28.68	14.821		
6,100.0	6,053.3	6,098.3	6,086.9	13.6	15.8	99.76	243.6	993.5	424.7	395.9	28.81	14.740		
6,200.0	6,153.3	6,197.1	6,185.6	13.6	16.0	99.71	244.0	993.1	424.2	395.1	29.06	14.597		
6,300.0	6,253.3	6,296.4	6,284.9	13.7	16.1	99.68	244.3	993.0	424.0	394.7	29.28	14.481		
6,400.0	6,353.3	6,396.0	6,384.5	13.8	16.2	99.66	244.4	992.9	423.9	394.4	29.47	14.383		
6,418.5	6,371.8	6,414.3	6,402.8	13.8	16.3	99.66	244.5	992.9	423.9	394.4	29.49	14.372		
6,500.0	6,453.3	6,494.7	6,483.2	13.9	16.3	99.66	244.4	993.0	424.0	394.4	29.54	14.353		
6,600.0	6,553.3	6,594.0	6,582.5	13.9	16.2	99.65	244.5	993.4	424.4	394.9	29.50	14.386		
6,700.0	6,653.3	6,692.9	6,681.4	14.0	16.0	99.62	244.6	994.0	425.0	395.5	29.44	14.435		
6,800.0	6,753.3	6,791.8	6,780.3	14.1	15.9	99.61	244.5	994.8	425.8	396.4	29.36	14.500		
6,900.0	6,853.3	6,889.5	6,878.0	14.1	15.8	99.62	244.3	995.9	427.0	397.7	29.27	14.589		
7,000.0	6,953.3	6,989.2	6,977.7	14.2	15.6	99.64	243.9	997.4	428.5	399.3	29.17	14.692		
7,100.0	7,053.3	7,089.4	7,077.9	14.3	15.4	99.64	243.6	998.9	430.0	401.0	29.07	14.794		
7,200.0	7,153.3	7,190.1	7,178.6	14.4	15.3	99.62	243.5	1,000.3	431.4	402.4	28.98	14.887		
7,300.0	7,253.3	7,290.8	7,279.3	14.4	15.1	99.62	243.3	1,001.6	432.7	403.8	28.90	14.972		
7,400.0	7,353.3	7,393.1	7,381.5	14.5	15.0	99.65	242.9	1,002.5	433.6	404.8	28.86	15.027		
7,500.0	7,453.3	7,493.9	7,482.3	14.6	15.0	99.74	242.1	1,002.8	434.1	405.2	28.87	15.037		
7,600.0	7,553.3	7,593.1	7,581.5	14.7	14.9	99.87	241.1	1,003.2	434.6	405.7	28.89	15.044		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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)				
7,700.0	7,653.3	7,693.3	7,681.7	14.7	14.9	100.02	239.9	1,003.6	435.3	406.4	28.91	15.054		
7,800.0	7,753.3	7,793.4	7,781.8	14.8	14.9	100.18	238.6	1,004.0	435.8	406.9	28.95	15.054		
7,900.0	7,853.3	7,893.2	7,881.6	14.9	14.9	100.36	237.1	1,004.3	436.4	407.4	28.99	15.056		
8,000.0	7,953.3	7,993.7	7,982.1	14.9	14.8	100.53	235.7	1,004.6	437.0	408.0	29.03	15.056		
8,100.0	8,053.3	8,095.4	8,083.8	15.0	14.9	100.70	234.4	1,004.7	437.3	408.2	29.10	15.029		
8,200.0	8,153.3	8,195.7	8,184.1	15.1	14.9	100.86	233.2	1,004.6	437.4	408.2	29.20	14.978		
8,300.0	8,253.3	8,294.5	8,282.9	15.2	15.0	101.02	231.9	1,004.5	437.6	408.3	29.29	14.939		
8,400.0	8,353.3	8,394.1	8,382.5	15.2	15.0	101.21	230.4	1,004.6	438.0	408.6	29.36	14.918		
8,500.0	8,453.3	8,495.9	8,484.3	15.3	15.1	101.44	228.7	1,004.5	438.2	408.7	29.45	14.878		
8,600.0	8,553.3	8,597.2	8,585.5	15.4	15.2	101.68	226.9	1,004.0	438.0	408.5	29.58	14.810		
8,700.0	8,653.3	8,698.0	8,686.3	15.5	15.3	101.97	224.8	1,003.1	437.7	407.9	29.72	14.727		
8,800.0	8,753.3	8,799.3	8,787.5	15.5	15.5	102.28	222.6	1,002.1	437.1	407.2	29.88	14.630		
8,900.0	8,853.3	8,900.4	8,888.7	15.6	15.7	102.54	220.9	1,000.7	436.2	406.1	30.07	14.506		
9,000.0	8,953.3	8,999.9	8,988.2	15.7	15.9	102.76	219.5	999.4	435.2	404.9	30.27	14.377		
9,100.0	9,053.3	9,098.9	9,087.1	15.8	16.0	103.00	217.8	998.3	434.4	404.0	30.45	14.267		
9,200.0	9,153.3	9,197.6	9,185.8	15.8	16.2	103.30	215.8	997.2	433.9	403.3	30.59	14.182		
9,300.0	9,253.3	9,299.1	9,287.3	15.9	16.4	103.70	212.9	996.2	433.5	402.8	30.73	14.106		
9,400.0	9,353.3	9,399.0	9,387.1	16.0	16.6	103.99	211.0	994.9	432.7	401.8	30.89	14.007		
9,500.0	9,453.3	9,500.4	9,488.5	16.1	16.8	104.23	209.4	993.7	432.0	400.9	31.08	13.899		
9,600.0	9,553.3	9,600.8	9,588.9	16.1	17.0	104.47	207.9	992.3	430.9	399.7	31.28	13.776		
9,700.0	9,653.3	9,700.6	9,688.7	16.2	17.2	104.79	205.9	990.6	429.9	398.4	31.46	13.664		
9,800.0	9,753.3	9,803.5	9,791.5	16.3	17.4	105.13	203.8	988.7	428.6	396.9	31.69	13.525		
9,900.0	9,853.3	9,903.9	9,891.8	16.3	17.7	105.40	202.3	986.4	426.8	394.9	31.93	13.367		
10,000.0	9,953.3	10,003.0	9,991.0	16.4	17.9	105.59	201.3	984.4	425.1	392.9	32.18	13.210		
10,100.0	10,053.3	10,104.7	10,092.6	16.5	18.2	105.77	200.5	982.4	423.4	390.9	32.45	13.046		
10,200.0	10,153.3	10,200.5	10,188.4	16.6	18.4	105.90	200.1	980.7	421.9	389.2	32.71	12.899		
10,300.0	10,253.3	10,299.0	10,286.9	16.6	18.6	105.98	199.7	979.9	421.2	388.2	32.94	12.788		
10,371.7	10,324.9	10,368.1	10,355.9	16.7	18.7	106.03	199.3	979.6	421.0	388.0	33.03	12.745		
10,400.0	10,353.3	10,395.7	10,383.6	16.7	18.8	106.06	199.1	979.6	421.0	388.0	33.07	12.731		
10,500.0	10,453.3	10,494.2	10,482.1	16.8	18.9	106.20	198.0	979.6	421.4	388.2	33.13	12.719		
10,600.0	10,553.3	10,592.5	10,580.4	16.9	18.9	106.40	196.5	979.9	422.1	389.0	33.15	12.734		
10,700.0	10,653.3	10,693.8	10,681.7	16.9	19.0	106.62	194.6	980.2	422.9	389.7	33.17	12.748		
10,800.0	10,753.3	10,795.9	10,783.7	17.0	19.1	106.94	192.3	979.9	423.3	390.1	33.23	12.737		
10,900.0	10,853.3	10,897.2	10,885.0	17.1	19.3	107.20	190.4	979.2	423.2	389.8	33.34	12.691		
10,933.4	10,886.7	10,929.9	10,917.7	17.1	19.4	107.28	189.9	979.0	423.1	389.8	33.38	12.677		
11,000.0	10,953.3	10,996.9	10,984.7	17.2	19.5	107.48	188.5	978.6	423.2	389.7	33.45	12.651		
11,100.0	11,053.3	11,100.5	11,088.2	17.3	19.7	107.89	185.8	977.2	422.7	389.1	33.57	12.591		
11,200.0	11,153.3	11,202.0	11,189.7	17.3	20.0	108.29	183.4	975.1	421.4	387.7	33.74	12.491		
11,300.0	11,253.3	11,303.4	11,291.1	17.4	20.2	108.45	182.7	973.4	420.1	386.1	33.99	12.360		
11,400.0	11,353.3	11,402.3	11,390.0	17.5	20.4	108.52	182.7	971.8	418.5	384.2	34.26	12.215		
11,500.0	11,453.3	11,501.1	11,488.7	17.6	20.7	108.73	181.6	970.2	417.3	382.8	34.48	12.103		
11,600.0	11,553.3	11,596.9	11,584.3	17.6	20.9	109.49	176.6	967.8	416.7	382.2	34.52	12.070		
11,604.4	11,557.7	11,601.2	11,588.6	17.6	20.9	109.54	176.2	967.7	416.7	382.2	34.52	12.071		
11,700.0	11,653.3	11,682.0	11,668.8	17.7	21.1	110.93	166.4	965.2	418.1	383.6	34.41	12.149		
11,753.2	11,706.5	11,714.0	11,699.9	17.7	21.1	111.89	159.1	964.4	421.3	386.9	34.38	12.255		
11,775.0	11,728.3	11,728.8	11,714.2	17.7	21.2	-67.05	155.2	964.2	423.2	388.8	34.36	12.316		
11,800.0	11,753.2	11,745.0	11,729.6	17.7	21.2	-66.36	150.4	964.3	425.5	391.1	34.38	12.376		
11,825.0	11,778.0	11,759.3	11,743.2	17.7	21.2	-65.77	145.9	964.5	427.8	393.4	34.46	12.414		
11,850.0	11,802.6	11,777.0	11,759.9	17.7	21.3	-65.18	139.9	965.0	430.2	395.6	34.52	12.462		
11,875.0	11,827.0	11,792.6	11,774.4	17.7	21.3	-64.71	134.3	965.6	432.4	397.8	34.64	12.482		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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
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)				
11,900.0	11,851.0	11,808.0	11,788.6	17.6	21.3	-64.30	128.4	966.3	434.6	399.8	34.80	12.487		
11,925.0	11,874.6	11,828.2	11,807.1	17.6	21.3	-63.93	120.2	967.3	436.6	401.7	34.87	12.519		
11,950.0	11,897.8	11,846.9	11,823.9	17.6	21.3	-63.66	112.1	968.3	438.4	403.4	35.00	12.527		
11,975.0	11,920.4	11,866.8	11,841.5	17.6	21.4	-63.45	103.0	969.3	439.9	404.8	35.10	12.533		
12,000.0	11,942.5	11,893.2	11,864.4	17.6	21.4	-63.30	89.9	970.3	441.0	406.0	35.04	12.585		
12,025.0	11,963.9	11,917.4	11,884.9	17.6	21.5	-63.22	77.1	970.6	441.4	406.4	35.05	12.594		
12,050.0	11,984.5	11,940.2	11,903.9	17.5	21.5	-63.23	64.3	970.7	441.4	406.3	35.10	12.574		
12,075.0	12,004.5	11,964.4	11,923.5	17.5	21.6	-63.34	50.2	970.5	440.8	405.7	35.12	12.551		
12,100.0	12,023.6	11,986.4	11,941.0	17.5	21.6	-63.54	36.8	970.1	439.8	404.6	35.21	12.492		
12,125.0	12,041.8	12,008.2	11,957.8	17.5	21.7	-63.83	23.1	969.5	438.4	403.1	35.30	12.417		
12,150.0	12,059.2	12,028.0	11,972.8	17.5	21.7	-64.20	10.1	968.9	436.5	401.1	35.46	12.312		
12,175.0	12,075.5	12,048.5	11,988.0	17.5	21.8	-64.68	-3.7	968.2	434.4	398.8	35.59	12.205		
12,200.0	12,090.9	12,067.1	12,001.5	17.5	21.8	-65.24	-16.5	967.7	432.1	396.3	35.78	12.075		
12,225.0	12,105.2	12,085.0	12,014.3	17.5	21.9	-65.89	-29.0	967.4	429.6	393.6	35.99	11.936		
12,250.0	12,118.4	12,102.2	12,026.4	17.5	21.9	-66.63	-41.2	967.2	427.1	390.8	36.22	11.790		
12,275.0	12,130.5	12,122.0	12,040.0	17.5	22.0	-67.54	-55.6	967.3	424.5	388.1	36.37	11.672		
12,300.0	12,141.4	12,140.4	12,052.2	17.5	22.0	-68.49	-69.3	967.4	421.8	385.2	36.55	11.539		
12,325.0	12,151.1	12,161.8	12,066.1	17.5	22.1	-69.64	-85.6	967.3	418.8	382.2	36.65	11.428		
12,350.0	12,159.6	12,181.5	12,078.4	17.5	22.2	-70.82	-101.0	967.2	415.7	378.9	36.79	11.300		
12,375.0	12,166.9	12,207.2	12,094.0	17.6	22.2	-72.38	-121.3	967.0	412.4	375.6	36.77	11.215		
12,400.0	12,172.9	12,231.4	12,108.5	17.6	22.3	-74.04	-140.8	966.5	408.7	371.9	36.80	11.106		
12,425.0	12,177.6	12,254.5	12,121.9	17.6	22.4	-75.78	-159.6	965.8	404.9	368.0	36.87	10.982		
12,450.0	12,181.0	12,278.8	12,135.4	17.6	22.5	-77.71	-179.7	964.9	401.0	364.0	36.93	10.857		
12,475.0	12,183.1	12,297.6	12,145.4	17.7	22.6	-79.37	-195.7	964.0	397.0	359.9	37.13	10.694		
12,500.0	12,184.0	12,316.2	12,154.8	17.7	22.6	-81.06	-211.7	963.2	393.4	356.0	37.34	10.536		
12,503.2	12,184.0	12,318.5	12,155.9	17.7	22.6	-81.27	-213.7	963.1	392.9	355.6	37.37	10.516		
12,600.0	12,184.0	12,400.1	12,191.1	17.8	23.0	-86.41	-287.2	959.7	382.8	344.6	38.17	10.028		
12,700.0	12,184.0	12,492.1	12,226.4	18.0	23.4	-91.74	-372.1	955.5	376.6	337.2	39.44	9.549		
12,780.2	12,184.0	12,561.0	12,250.5	18.2	23.8	-95.44	-436.5	953.0	374.8	334.1	40.71	9.206		
12,800.0	12,184.0	12,577.4	12,255.0	18.2	23.9	-96.14	-452.3	952.7	374.9	333.9	41.02	9.139		
12,900.0	12,184.0	12,662.8	12,270.1	18.4	24.4	-98.40	-536.2	954.1	378.1	335.6	42.52	8.894		
13,000.0	12,184.0	12,772.4	12,270.7	18.7	25.2	-98.35	-645.6	960.6	383.6	339.9	43.77	8.766		
13,100.0	12,184.0	12,885.5	12,268.9	19.0	26.2	-98.07	-758.5	962.5	384.3	339.2	45.09	8.523		
13,200.0	12,184.0	12,990.7	12,273.1	19.3	27.2	-98.73	-863.7	961.1	383.0	336.4	46.65	8.211		
13,300.0	12,184.0	13,095.3	12,276.1	19.6	28.2	-99.26	-968.2	958.6	380.4	332.1	48.28	7.878		
13,400.0	12,184.0	13,196.3	12,278.0	20.0	29.3	-99.62	-1,069.2	955.6	377.2	327.2	49.99	7.545		
13,500.0	12,184.0	13,298.4	12,276.1	20.4	30.5	-99.43	-1,171.1	952.6	373.4	321.7	51.71	7.221		
13,600.0	12,184.0	13,396.2	12,272.2	20.8	31.7	-98.91	-1,268.9	950.1	369.5	316.0	53.45	6.912		
13,700.0	12,184.0	13,491.9	12,269.0	21.3	32.9	-98.47	-1,364.5	948.5	366.8	311.5	55.26	6.637		
13,800.0	12,184.0	13,590.5	12,266.8	21.8	34.2	-98.17	-1,463.1	947.5	364.8	307.6	57.15	6.383		
13,900.0	12,184.0	13,689.7	12,264.1	22.3	35.5	-97.79	-1,562.2	946.7	363.0	303.9	59.08	6.144		
13,977.5	12,184.0	13,761.3	12,261.9	22.7	36.5	-97.44	-1,633.8	946.6	362.0	301.4	60.58	5.976		
14,000.0	12,184.0	13,778.8	12,261.4	22.8	36.7	-97.37	-1,651.3	946.9	362.2	301.2	61.00	5.937		
14,100.0	12,184.0	13,860.1	12,260.8	23.4	37.9	-97.21	-1,732.4	951.1	366.5	303.7	62.82	5.834		
14,200.0	12,184.0	13,957.7	12,258.6	23.9	39.3	-96.72	-1,829.7	959.2	373.8	309.0	64.84	5.765		
14,300.0	12,184.0	14,065.7	12,257.5	24.5	40.8	-96.45	-1,937.4	965.9	379.2	312.1	67.11	5.650		
14,400.0	12,184.0	14,160.3	12,258.0	25.1	42.2	-96.43	-2,031.9	971.8	384.8	315.6	69.16	5.563		
14,500.0	12,184.0	14,274.9	12,257.5	25.7	43.9	-96.24	-2,146.2	979.3	390.8	319.2	71.65	5.454		
14,600.0	12,184.0	14,434.3	12,257.0	26.4	46.5	-96.34	-2,305.1	969.9	383.5	309.0	74.47	5.149		
14,700.0	12,184.0	14,516.5	12,256.3	27.0	47.7	-96.38	-2,386.9	962.1	373.2	296.4	76.75	4.862		
14,800.0	12,184.0	14,608.2	12,256.2	27.6	49.0	-96.49	-2,478.4	956.0	366.0	287.0	78.97	4.634		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 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		
14,900.0	12,184.0	14,701.6	12,256.2	28.3	50.4	-96.56	-2,571.7	952.2	361.3	280.1	81.21	4.449		
15,000.0	12,184.0	14,842.7	12,252.9	29.0	52.6	-96.30	-2,712.0	938.6	350.6	267.1	83.46	4.200		
15,100.0	12,184.0	14,946.2	12,250.7	29.7	54.1	-96.25	-2,814.0	921.1	332.9	247.2	85.65	3.887		
15,200.0	12,184.0	15,030.0	12,249.9	30.4	55.4	-96.37	-2,886.9	908.7	317.4	229.3	88.16	3.600		
15,300.0	12,184.0	15,113.6	12,249.3	31.1	56.7	-96.43	-2,980.1	901.0	307.5	216.9	90.56	3.396		
15,400.0	12,184.0	15,199.0	12,248.8	31.8	58.0	-96.43	-3,065.4	896.8	302.0	209.2	92.80	3.254		
15,448.4	12,184.0	15,238.6	12,248.5	32.1	58.6	-96.40	-3,105.0	896.5	301.3	207.5	93.80	3.212		
15,500.0	12,184.0	15,285.2	12,248.2	32.5	59.4	-96.33	-3,151.5	897.4	301.9	207.0	94.90	3.182		
15,600.0	12,184.0	15,384.3	12,247.2	33.2	60.9	-96.09	-3,250.6	899.9	303.7	206.4	97.24	3.123		
15,700.0	12,184.0	15,481.2	12,246.2	34.0	62.4	-95.85	-3,347.5	903.1	306.2	206.6	99.53	3.076		
15,800.0	12,184.0	15,580.6	12,245.6	34.7	63.9	-95.69	-3,446.8	907.1	309.5	207.6	101.90	3.037		
15,900.0	12,184.0	15,683.2	12,247.3	35.4	65.5	-95.95	-3,549.3	910.3	312.1	207.7	104.38	2.990 Normal Operations		
16,000.0	12,184.0	15,780.4	12,248.3	36.2	67.1	-96.09	-3,646.4	913.2	314.6	207.9	106.70	2.948 Normal Operations		
16,100.0	12,184.0	15,888.5	12,250.3	36.9	68.8	-96.38	-3,754.5	917.1	317.8	208.4	109.36	2.906 Normal Operations		
16,156.9	12,184.0	15,947.5	12,251.0	37.4	69.7	-96.53	-3,813.5	917.0	317.4	206.6	110.81	2.864 Normal Operations		
16,200.0	12,184.0	15,981.4	12,251.5	37.7	70.3	-96.60	-3,847.4	917.6	318.0	206.4	111.62	2.849 Normal Operations		
16,300.0	12,184.0	16,070.9	12,252.8	38.4	71.7	-96.72	-3,936.7	923.0	323.3	209.7	113.68	2.844 Normal Operations		
16,400.0	12,184.0	16,196.7	12,253.0	39.2	73.8	-96.74	-4,062.3	925.0	324.0	207.0	117.04	2.768 Normal Operations		
16,500.0	12,184.0	16,321.6	12,252.6	40.0	75.8	-96.92	-4,186.7	914.2	313.8	194.2	119.61	2.624 Normal Operations		
16,600.0	12,184.0	16,404.5	12,251.9	40.8	77.1	-96.92	-4,269.4	909.1	307.0	185.0	122.03	2.516 Normal Operations		
16,700.0	12,184.0	16,498.6	12,251.1	41.5	78.6	-96.84	-4,363.5	906.8	303.8	179.4	124.39	2.442 Caution - Monitor Closely		
16,800.0	12,184.0	16,593.5	12,250.7	42.3	80.1	-96.79	-4,458.4	906.0	302.3	175.5	126.73	2.385 Caution - Monitor Closely		
16,815.2	12,184.0	16,606.9	12,250.7	42.4	80.3	-96.79	-4,471.8	906.0	302.2	175.1	127.06	2.378 Caution - Monitor Closely		
16,900.0	12,184.0	16,679.0	12,250.2	43.1	81.4	-96.67	-4,543.9	907.7	303.6	174.9	128.72	2.359 Caution - Monitor Closely		
17,000.0	12,184.0	16,764.9	12,250.6	43.9	82.8	-96.63	-4,629.5	913.3	309.6	179.1	130.50	2.373 Caution - Monitor Closely		
17,100.0	12,184.0	16,900.4	12,251.6	44.7	85.1	-96.78	-4,764.9	916.4	310.9	176.5	134.41	2.313 Caution - Monitor Closely		
17,187.0	12,184.0	16,979.1	12,250.9	45.4	86.3	-96.65	-4,843.5	916.1	309.9	173.5	136.39	2.272 Caution - Monitor Closely		
17,200.0	12,184.0	16,991.6	12,250.8	45.5	86.5	-96.63	-4,856.1	916.2	309.9	173.2	136.70	2.267 Caution - Monitor Closely		
17,307.0	12,184.0	17,115.7	12,251.1	46.3	88.5	-96.73	-4,980.1	916.0	309.4	169.8	139.64	2.216 Caution - Monitor Closely		
17,355.5	12,184.0	17,173.2	12,250.6	46.7	89.5	-96.71	-5,037.5	911.9	305.9	165.0	140.85	2.172 Caution - Monitor Closely		
17,400.0	12,184.0	17,211.4	12,250.2	47.0	90.1	-96.67	-5,075.6	909.4	303.4	161.4	141.97	2.137 Caution - Monitor Closely		
17,500.0	12,184.0	17,304.3	12,249.4	47.8	91.6	-96.58	-5,168.4	905.8	300.4	156.0	144.41	2.081 Caution - Monitor Closely		
17,600.0	12,184.0	17,403.7	12,248.9	48.6	93.1	-96.53	-5,267.8	902.7	298.4	151.5	146.87	2.032 Caution - Monitor Closely		
17,700.0	12,184.0	17,504.1	12,247.8	49.4	94.7	-96.36	-5,368.1	899.7	296.3	146.9	149.36	1.983 Caution - Monitor Closely		
17,800.0	12,184.0	17,598.2	12,248.3	50.2	96.2	-96.50	-5,462.2	897.2	294.7	143.0	151.74	1.942 Caution - Monitor Closely		
17,900.0	12,184.0	17,701.4	12,254.0	51.0	97.9	-97.62	-5,565.2	895.3	294.7	140.5	154.16	1.911 Caution - Monitor Closely		
18,000.0	12,184.0	17,807.9	12,257.2	51.8	99.6	-98.30	-5,671.5	891.2	292.3	135.7	156.60	1.866 Caution - Monitor Closely		
18,100.0	12,184.0	17,913.8	12,255.7	52.6	101.3	-98.14	-5,777.3	885.6	287.8	128.8	159.10	1.809 Caution - Monitor Closely		
18,200.0	12,184.0	17,998.9	12,254.0	53.5	102.6	-97.88	-5,862.3	882.5	285.1	123.5	161.51	1.765 Caution - Monitor Closely		
18,208.9	12,184.0	18,007.0	12,254.0	53.5	102.8	-97.86	-5,870.4	882.4	285.1	123.3	161.72	1.763 Caution - Monitor Closely		
18,300.0	12,184.0	18,092.8	12,254.1	54.3	104.1	-97.87	-5,956.2	882.4	286.0	122.1	163.84	1.745 Caution - Monitor Closely		
18,400.0	12,184.0	18,191.6	12,255.7	55.1	105.7	-98.13	-6,055.0	883.2	288.1	121.8	166.26	1.733 Caution - Monitor Closely		
18,500.0	12,184.0	18,292.9	12,258.0	55.9	107.4	-98.52	-6,156.3	884.0	290.1	121.4	168.72	1.720 Caution - Monitor Closely		
18,600.0	12,184.0	18,401.6	12,256.2	56.7	109.1	-98.17	-6,264.9	883.2	290.2	118.7	171.50	1.692 Caution - Monitor Closely		
18,700.0	12,184.0	18,503.2	12,251.7	57.5	110.7	-97.30	-6,366.4	881.3	288.9	114.7	174.16	1.659 Caution - Monitor Closely		
18,800.0	12,184.0	18,605.9	12,248.6	58.3	112.4	-96.74	-6,469.0	878.3	286.6	109.8	176.77	1.621 Caution - Monitor Closely		
18,900.0	12,184.0	18,706.4	12,248.4	59.1	114.0	-96.78	-6,569.4	874.5	283.8	104.5	179.27	1.583 Caution - Monitor Closely		
19,000.0	12,184.0	18,806.9	12,249.0	60.0	115.6	-96.96	-6,669.8	870.5	281.0	99.3	181.75	1.546 Caution - Monitor Closely		
19,100.0	12,184.0	18,902.0	12,250.0	60.8	117.1	-97.24	-6,764.8	866.3	277.9	93.7	184.14	1.509 Caution - Monitor Closely		
19,104.4	12,184.0	18,902.0	12,250.0	60.8	117.1	-97.24	-6,764.8	866.3	277.8	93.7	184.16	1.509 Caution - Monitor Closely, CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
19,200.0	12,184.0	18,902.0	12,250.0	61.6	117.1	-97.24	-6,764.8	866.3	294.1	119.4	174.72	1.683	Caution - Monitor Closely	
19,300.0	12,184.0	18,902.0	12,250.0	62.4	117.1	-97.24	-6,764.8	866.3	340.3	187.4	152.94	2.225	Caution - Monitor Closely	
19,339.0	12,184.0	18,902.0	12,250.0	62.7	117.1	-97.24	-6,764.8	866.3	364.2	220.3	143.92	2.530	Normal Operations	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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: Reference		134-MWD - OWSG R1 Offset						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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
3,100.0	3,079.8	3,159.7	3,159.2	8.1	10.8	24.63	214.2	1,240.6	998.7	979.4	19.24	51.898		
3,200.0	3,178.7	3,271.9	3,271.1	8.3	11.2	24.82	217.4	1,233.7	979.2	959.4	19.82	49.419		
3,300.0	3,277.5	3,371.9	3,370.9	8.5	11.5	24.96	221.0	1,227.1	959.6	939.2	20.36	47.139		
3,400.0	3,376.4	3,471.1	3,469.8	8.7	11.9	25.06	225.0	1,220.2	939.4	918.5	20.90	44.956		
3,500.0	3,475.3	3,562.7	3,561.1	8.8	12.2	25.14	229.1	1,214.0	919.6	898.2	21.42	42.934		
3,600.0	3,574.2	3,671.9	3,669.9	9.0	12.6	25.23	234.2	1,207.0	900.1	878.1	21.99	40.942		
3,700.0	3,673.1	3,781.1	3,778.6	9.2	13.0	25.34	238.8	1,197.9	878.7	856.1	22.55	38.968		
3,800.0	3,772.0	3,873.2	3,870.3	9.4	13.3	25.46	242.5	1,190.0	857.0	834.0	23.08	37.137		
3,900.0	3,870.9	3,970.9	3,967.6	9.6	13.7	25.61	246.1	1,182.2	835.9	812.3	23.62	35.391		
4,000.0	3,969.7	4,061.1	4,057.5	9.8	14.0	25.79	249.0	1,175.2	815.1	790.9	24.14	33.757		
4,100.0	4,068.6	4,150.0	4,146.2	10.0	14.3	26.02	251.3	1,169.4	795.3	770.6	24.67	32.243		
4,200.0	4,167.5	4,251.8	4,247.8	10.2	14.7	26.31	253.7	1,163.2	776.1	750.9	25.21	30.778		
4,300.0	4,266.4	4,365.8	4,361.4	10.4	15.1	26.61	257.0	1,154.7	755.5	729.7	25.78	29.299		
4,400.0	4,365.3	4,469.1	4,464.2	10.6	15.5	26.85	260.5	1,145.3	733.3	707.0	26.33	27.847		
4,500.0	4,464.2	4,563.2	4,557.9	10.8	15.8	27.10	263.4	1,136.7	711.1	684.2	26.87	26.463		
4,600.0	4,563.1	4,656.4	4,650.7	11.0	16.2	27.40	265.9	1,128.6	689.4	662.0	27.41	25.155		
4,700.0	4,661.9	4,748.0	4,742.0	11.1	16.5	27.74	268.1	1,121.5	668.6	640.7	27.94	23.932		
4,800.0	4,760.8	4,847.4	4,841.1	11.3	16.9	28.12	270.6	1,114.1	648.0	619.6	28.40	22.821		
4,900.0	4,859.7	4,944.9	4,938.2	11.5	17.3	28.46	273.6	1,106.6	627.4	598.4	28.94	21.681		
5,000.0	4,958.6	5,049.0	5,041.9	11.7	17.6	28.76	277.8	1,098.1	606.2	576.8	29.49	20.561		
5,100.0	5,057.5	5,144.4	5,136.8	11.9	18.0	29.01	282.1	1,090.1	584.9	554.8	30.03	19.477		
5,190.5	5,147.0	5,236.2	5,228.3	12.1	18.3	29.31	285.9	1,082.2	565.4	534.9	30.51	18.528		
5,200.0	5,156.4	5,245.5	5,237.5	12.1	18.4	29.33	286.2	1,081.3	563.3	532.7	30.56	18.432		
5,300.0	5,255.4	5,344.9	5,336.5	12.3	18.7	29.58	289.7	1,072.4	542.3	511.2	31.13	17.419		
5,400.0	5,354.7	5,447.2	5,438.1	12.5	19.1	29.67	294.2	1,062.5	522.1	490.4	31.67	16.484		
5,500.0	5,454.1	5,545.3	5,535.7	12.7	19.5	29.60	299.1	1,052.6	503.0	470.8	32.22	15.613		
5,600.0	5,553.7	5,640.6	5,630.4	12.9	19.9	29.46	303.7	1,043.3	485.8	453.0	32.76	14.826		
5,700.0	5,653.5	5,736.4	5,725.7	13.1	20.2	29.28	307.9	1,034.8	470.8	437.5	33.31	14.133		
5,800.0	5,753.4	5,836.8	5,825.7	13.2	20.6	29.04	311.9	1,026.0	457.5	423.7	33.85	13.516		
5,900.0	5,853.3	5,939.5	5,927.8	13.4	21.0	28.70	315.8	1,016.3	445.1	410.7	34.39	12.942		
6,000.0	5,953.3	6,039.7	6,027.4	13.5	21.4	28.21	319.8	1,006.3	433.7	398.8	34.93	12.417		
6,046.7	6,000.0	6,086.1	6,073.5	13.6	21.6	89.19	321.7	1,001.7	428.9	393.7	35.16	12.199		
6,100.0	6,053.3	6,137.7	6,124.8	13.6	21.8	88.90	323.7	996.7	423.7	388.3	35.41	11.964		
6,200.0	6,153.3	6,239.3	6,225.9	13.6	22.2	88.32	327.7	986.8	414.1	378.2	35.91	11.531		
6,300.0	6,253.3	6,338.6	6,324.5	13.7	22.5	87.67	331.9	976.6	403.9	367.5	36.42	11.090		
6,400.0	6,353.3	6,436.5	6,421.9	13.8	22.9	86.91	336.7	966.8	394.2	357.3	36.93	10.672		
6,500.0	6,453.3	6,533.4	6,518.2	13.9	23.3	86.20	341.0	957.6	385.0	347.5	37.45	10.280		
6,600.0	6,553.3	6,632.5	6,616.9	13.9	23.7	85.51	345.0	948.7	376.3	338.3	37.96	9.913		
6,700.0	6,653.3	6,729.8	6,713.7	14.0	24.0	84.82	348.7	940.2	367.9	329.4	38.47	9.563		
6,800.0	6,753.3	6,828.1	6,811.6	14.1	24.4	84.09	352.6	932.2	360.1	321.2	38.99	9.237		
6,900.0	6,853.3	6,927.2	6,910.3	14.1	24.8	83.29	356.7	924.3	352.7	313.2	39.50	8.927		
7,000.0	6,953.3	7,028.9	7,011.6	14.2	25.2	82.47	360.6	916.0	345.0	305.0	40.02	8.622		
7,100.0	7,053.3	7,130.9	7,113.1	14.3	25.6	81.51	365.1	906.8	336.8	296.2	40.54	8.307		
7,200.0	7,153.3	7,230.0	7,211.7	14.4	25.9	80.49	369.7	897.6	328.2	287.2	41.07	7.992		
7,300.0	7,253.3	7,326.8	7,308.0	14.4	26.3	79.58	373.4	889.2	320.4	278.8	41.59	7.703		
7,400.0	7,353.3	7,425.7	7,406.5	14.5	26.7	78.72	376.7	881.5	313.3	271.2	42.12	7.439		
7,500.0	7,453.3	7,527.4	7,507.8	14.6	27.1	77.60	381.0	872.8	305.8	263.1	42.65	7.170		
7,600.0	7,553.3	7,625.7	7,605.6	14.7	27.5	76.49	385.1	864.3	298.3	255.1	43.18	6.908		
7,700.0	7,653.3	7,722.5	7,702.0	14.7	27.8	75.47	388.7	856.8	291.7	248.0	43.71	6.673		
7,800.0	7,753.3	7,820.1	7,799.5	14.8	28.2	74.57	391.6	850.3	286.0	241.8	44.23	6.468		
7,900.0	7,853.3	7,918.8	7,897.9	14.9	28.6	73.77	394.0	844.5	281.0	236.2	44.74	6.280		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		
8,000.0	7,953.3	8,016.8	7,995.7	14.9	28.9	73.06	396.1	839.2	276.4	231.2	45.25	6.109		
8,100.0	8,053.3	8,115.9	8,094.7	15.0	29.3	72.48	397.6	834.8	272.6	226.8	45.76	5.957		
8,200.0	8,153.3	8,214.8	8,193.5	15.1	29.6	71.91	399.0	830.4	268.8	222.6	46.26	5.811		
8,300.0	8,253.3	8,314.1	8,292.8	15.2	30.0	71.42	400.2	826.6	265.6	218.8	46.76	5.680		
8,400.0	8,353.3	8,412.7	8,391.3	15.2	30.3	70.98	401.1	823.2	262.6	215.3	47.26	5.556		
8,500.0	8,453.3	8,510.9	8,489.4	15.3	30.7	70.54	402.3	820.4	260.3	212.5	47.75	5.450		
8,600.0	8,553.3	8,610.3	8,588.8	15.4	31.1	70.10	403.5	818.0	258.5	210.2	48.25	5.357		
8,700.0	8,653.3	8,710.2	8,688.7	15.5	31.4	69.74	404.5	815.8	256.8	208.0	48.75	5.267		
8,800.0	8,753.3	8,810.1	8,788.5	15.5	31.8	69.48	405.0	813.9	255.1	205.8	49.25	5.180		
8,900.0	8,853.3	8,909.6	8,888.1	15.6	32.1	69.31	405.1	812.1	253.5	203.8	49.73	5.097		
9,000.0	8,953.3	9,010.1	8,988.5	15.7	32.5	69.15	405.3	810.4	251.9	201.7	50.23	5.016		
9,100.0	9,053.3	9,111.2	9,089.6	15.8	32.8	68.90	405.6	808.2	250.0	199.3	50.73	4.928		
9,200.0	9,153.3	9,212.8	9,191.1	15.8	33.2	68.59	406.0	805.5	247.7	196.5	51.24	4.835		
9,300.0	9,253.3	9,315.6	9,293.9	15.9	33.6	68.23	406.0	801.5	244.0	192.3	51.75	4.716		
9,400.0	9,353.3	9,413.1	9,391.3	16.0	33.9	67.96	405.9	797.9	240.6	188.4	52.24	4.606		
9,500.0	9,453.3	9,512.4	9,490.5	16.1	34.3	67.78	405.6	795.4	238.1	185.4	52.73	4.516		
9,600.0	9,553.3	9,614.0	9,592.1	16.1	34.6	67.65	404.9	792.2	235.0	181.8	53.23	4.415		
9,700.0	9,653.3	9,713.0	9,691.0	16.2	35.0	67.73	403.4	789.4	231.8	178.1	53.70	4.316		
9,800.0	9,753.3	9,812.1	9,790.1	16.3	35.3	68.23	400.5	787.7	229.1	175.0	54.16	4.231		
9,900.0	9,853.3	9,907.7	9,885.7	16.3	35.6	69.12	396.6	787.3	227.2	172.6	54.56	4.164		
9,920.0	9,873.3	9,926.3	9,904.3	16.4	35.7	69.29	395.9	787.5	227.1	172.5	54.64	4.157		
10,000.0	9,953.3	10,004.4	9,982.3	16.4	35.9	69.90	393.8	788.8	227.7	172.7	54.97	4.142		
10,100.0	10,053.3	10,104.4	10,082.2	16.5	36.2	70.41	392.2	790.4	228.6	173.2	55.41	4.126		
10,200.0	10,153.3	10,204.5	10,182.4	16.6	36.6	70.84	390.9	791.8	229.5	173.6	55.86	4.108		
10,300.0	10,253.3	10,304.6	10,282.4	16.6	36.9	71.18	389.9	793.0	230.3	174.0	56.31	4.090		
10,400.0	10,353.3	10,405.8	10,383.6	16.7	37.2	71.29	389.7	793.7	230.9	174.1	56.78	4.067		
10,500.0	10,453.3	10,509.0	10,486.8	16.8	37.6	71.37	389.3	793.5	230.5	173.3	57.28	4.025		
10,600.0	10,553.3	10,610.0	10,587.8	16.9	37.9	71.45	388.5	792.3	229.3	171.5	57.77	3.968		
10,700.0	10,653.3	10,713.3	10,691.1	16.9	38.3	71.26	388.5	789.9	227.0	168.7	58.29	3.894		
10,800.0	10,753.3	10,816.7	10,794.4	17.0	38.6	70.64	389.5	785.4	223.2	164.4	58.82	3.794		
10,900.0	10,853.3	10,918.0	10,895.5	17.1	39.0	69.82	390.8	779.5	218.2	158.9	59.35	3.677		
11,000.0	10,953.3	11,017.8	11,000.0	17.2	39.4	69.44	390.4	774.4	213.3	153.4	59.86	3.563		
11,100.0	11,053.3	11,116.7	11,093.9	17.3	39.7	69.49	388.4	769.6	208.0	147.6	60.34	3.447		
11,200.0	11,153.3	11,213.2	11,190.3	17.3	40.1	69.46	387.3	766.3	204.4	143.6	60.82	3.361		
11,300.0	11,253.3	11,311.6	11,288.7	17.4	40.4	69.62	385.9	764.1	201.8	140.5	61.29	3.293		
11,400.0	11,353.3	11,410.6	11,387.7	17.5	40.8	70.11	383.6	763.0	200.0	138.2	61.75	3.238		
11,500.0	11,453.3	11,510.2	11,487.2	17.6	41.1	70.84	380.7	762.4	198.4	136.2	62.21	3.189		
11,600.0	11,553.3	11,609.6	11,586.6	17.6	41.4	71.62	377.7	762.0	197.1	134.4	62.66	3.145		
11,700.0	11,653.3	11,710.4	11,687.4	17.7	41.8	72.33	375.0	761.6	195.8	132.7	63.13	3.102		
11,753.2	11,706.5	11,764.0	11,741.0	17.7	41.9	72.71	373.5	761.1	194.9	131.5	63.37	3.076		
11,775.0	11,728.3	11,785.9	11,762.8	17.7	42.0	-106.93	372.9	760.8	194.6	131.2	63.46	3.067		
11,782.9	11,736.2	11,793.8	11,770.8	17.7	42.0	-106.99	372.7	760.8	194.6	131.1	63.50	3.065 CC, ES		
11,800.0	11,753.2	11,810.9	11,787.8	17.7	42.1	-107.25	372.2	760.6	194.7	131.1	63.57	3.063 SF		
11,825.0	11,778.0	11,835.8	11,812.7	17.7	42.2	-107.88	371.4	760.3	195.2	131.5	63.69	3.065		
11,850.0	11,802.6	11,860.6	11,837.5	17.7	42.3	-108.82	370.7	760.1	196.1	132.3	63.82	3.073		
11,875.0	11,827.0	11,885.1	11,862.0	17.7	42.4	-110.02	370.0	759.8	197.5	133.6	63.94	3.089		
11,900.0	11,851.0	11,909.3	11,886.2	17.6	42.4	-111.47	369.4	759.5	199.5	135.5	64.08	3.114		
11,925.0	11,874.6	11,933.1	11,910.0	17.6	42.5	-113.10	368.7	759.3	202.3	138.0	64.21	3.150		
11,950.0	11,897.8	11,956.6	11,933.4	17.6	42.6	-114.87	368.0	759.0	205.7	141.4	64.35	3.197		
11,975.0	11,920.4	11,979.5	11,956.3	17.6	42.7	-116.72	367.4	758.8	210.1	145.6	64.49	3.258		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,000.0	11,942.5	12,001.9	11,978.7	17.6	42.7	-118.61	366.8	758.5	215.5	150.9	64.62	3.335	
12,025.0	11,963.9	12,023.6	12,000.5	17.6	42.8	-120.47	366.1	758.3	222.0	157.2	64.75	3.428	
12,050.0	11,984.5	12,044.7	12,021.6	17.5	42.9	-122.26	365.5	758.0	229.6	164.7	64.88	3.539	
12,075.0	12,004.5	12,065.1	12,041.9	17.5	43.0	-123.94	365.0	757.8	238.4	173.4	65.00	3.668	
12,100.0	12,023.6	12,084.7	12,061.5	17.5	43.0	-125.47	364.4	757.6	248.5	183.4	65.11	3.817	
12,125.0	12,041.8	12,103.4	12,080.2	17.5	43.1	-126.80	363.9	757.3	259.9	194.7	65.22	3.985	
12,150.0	12,059.2	12,121.4	12,098.1	17.5	43.2	-127.94	363.4	757.1	272.5	207.2	65.32	4.172	
12,175.0	12,075.5	12,138.5	12,115.3	17.5	43.2	-128.85	362.9	756.9	286.3	220.9	65.40	4.377	
12,200.0	12,090.9	12,154.7	12,131.4	17.5	43.3	-129.49	362.4	756.7	301.3	235.8	65.49	4.601	
12,225.0	12,105.2	12,169.7	12,146.5	17.5	43.3	-129.84	362.0	756.5	317.4	251.8	65.56	4.841	
12,250.0	12,118.4	12,183.8	12,160.5	17.5	43.4	-129.86	361.6	756.3	334.6	268.9	65.63	5.098	
12,275.0	12,130.5	12,196.7	12,173.4	17.5	43.4	-129.52	361.2	756.1	352.7	287.0	65.68	5.370	
12,300.0	12,141.4	12,208.4	12,185.1	17.5	43.5	-128.77	360.8	755.9	371.8	306.1	65.74	5.656	
12,325.0	12,151.1	12,219.0	12,195.7	17.5	43.5	-127.56	360.5	755.8	391.7	325.9	65.78	5.955	
12,350.0	12,159.6	12,228.3	12,205.0	17.5	43.5	-125.81	360.2	755.6	412.4	346.6	65.82	6.265	
12,375.0	12,166.9	12,236.4	12,213.1	17.6	43.6	-123.42	360.0	755.5	433.7	367.9	65.86	6.586	
12,400.0	12,172.9	12,243.3	12,220.0	17.6	43.6	-120.27	359.7	755.3	455.7	389.8	65.89	6.916	
12,425.0	12,177.6	12,248.8	12,225.6	17.6	43.6	-116.22	359.6	755.2	478.1	412.2	65.91	7.255	
12,450.0	12,181.0	12,253.1	12,229.8	17.6	43.6	-111.10	359.4	755.2	501.0	435.1	65.93	7.600	
12,475.0	12,183.1	12,256.1	12,232.8	17.7	43.6	-104.79	359.3	755.1	524.2	458.3	65.94	7.951	
12,500.0	12,184.0	12,257.7	12,234.4	17.7	43.6	-97.24	359.3	755.1	547.7	481.8	65.94	8.306	
12,503.2	12,184.0	12,257.8	12,234.5	17.7	43.6	-96.18	359.3	755.1	550.7	484.8	65.94	8.352	
12,600.0	12,184.0	12,260.9	12,237.6	17.8	43.6	-97.15	359.2	755.0	642.9	577.0	65.95	9.749	
12,700.0	12,184.0	12,264.1	12,240.8	18.0	43.6	-98.15	359.1	755.0	739.4	673.4	65.95	11.211	
12,800.0	12,184.0	12,267.3	12,244.0	18.2	43.7	-99.15	359.0	754.9	836.6	770.7	65.96	12.684	
12,900.0	12,184.0	12,270.2	12,246.9	18.4	43.7	-100.05	358.9	754.9	934.5	868.5	65.97	14.166	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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
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)				
3,100.0	3,079.8	3,159.7	3,159.2	8.1	10.8	24.63	214.2	1,240.6	998.7	979.4	19.24	51.893		
3,200.0	3,178.7	3,271.9	3,271.1	8.3	11.2	24.82	217.4	1,233.7	979.2	959.4	19.82	49.412		
3,300.0	3,277.5	3,371.9	3,370.9	8.5	11.5	24.96	221.0	1,227.1	959.6	939.2	20.36	47.133		
3,400.0	3,376.4	3,471.1	3,469.8	8.7	11.9	25.06	225.0	1,220.2	939.4	918.5	20.90	44.949		
3,500.0	3,475.3	3,562.7	3,561.1	8.8	12.2	25.14	229.1	1,214.0	919.6	898.2	21.42	42.929		
3,600.0	3,574.2	3,671.9	3,669.9	9.0	12.6	25.23	234.2	1,207.0	900.1	878.1	21.99	40.935		
3,700.0	3,673.1	3,781.1	3,778.6	9.2	13.0	25.34	238.8	1,197.9	878.7	856.1	22.55	38.958		
3,800.0	3,772.0	3,873.2	3,870.3	9.4	13.3	25.46	242.5	1,190.0	857.0	834.0	23.08	37.129		
3,900.0	3,870.9	3,970.9	3,967.6	9.6	13.7	25.61	246.1	1,182.2	835.9	812.3	23.62	35.384		
4,000.0	3,969.7	4,061.1	4,057.5	9.8	14.0	25.79	249.0	1,175.2	815.1	790.9	24.15	33.752		
4,100.0	4,068.6	4,150.0	4,146.2	10.0	14.3	26.02	251.3	1,169.4	795.3	770.6	24.67	32.240		
4,200.0	4,167.5	4,251.8	4,247.8	10.2	14.7	26.31	253.7	1,163.2	776.1	750.9	25.22	30.774		
4,300.0	4,266.4	4,365.8	4,361.4	10.4	15.1	26.61	257.0	1,154.7	755.5	729.7	25.79	29.292		
4,400.0	4,365.3	4,469.1	4,464.2	10.6	15.5	26.85	260.5	1,145.3	733.3	707.0	26.34	27.840		
4,500.0	4,464.2	4,563.2	4,557.9	10.8	15.8	27.10	263.4	1,136.7	711.1	684.2	26.88	26.457		
4,600.0	4,563.1	4,656.4	4,650.7	11.0	16.2	27.40	265.9	1,128.6	689.4	662.0	27.41	25.150		
4,700.0	4,661.9	4,748.0	4,742.0	11.1	16.5	27.74	268.1	1,121.5	668.6	640.6	27.94	23.928		
4,800.0	4,760.8	4,847.4	4,841.1	11.3	16.9	28.12	270.6	1,114.1	648.0	619.6	28.40	22.817		
4,900.0	4,859.7	4,944.9	4,938.2	11.5	17.3	28.46	273.6	1,106.6	627.4	598.4	28.94	21.678		
5,000.0	4,958.6	5,049.0	5,041.9	11.7	17.6	28.76	277.8	1,098.1	606.2	576.8	29.49	20.556		
5,100.0	5,057.5	5,144.4	5,136.8	11.9	18.0	29.01	282.1	1,090.1	584.9	554.8	30.03	19.474		
5,190.5	5,147.0	5,236.2	5,228.3	12.1	18.3	29.31	285.9	1,082.2	565.4	534.9	30.52	18.524		
5,200.0	5,156.4	5,245.5	5,237.5	12.1	18.4	29.33	286.2	1,081.3	563.3	532.7	30.57	18.427		
5,300.0	5,255.4	5,344.9	5,336.5	12.3	18.7	29.58	289.7	1,072.4	542.3	511.2	31.14	17.415		
5,400.0	5,354.7	5,447.2	5,438.1	12.5	19.1	29.67	294.2	1,062.5	522.1	490.4	31.68	16.479		
5,500.0	5,454.1	5,545.3	5,535.7	12.7	19.5	29.60	299.1	1,052.6	503.0	470.8	32.23	15.608		
5,600.0	5,553.7	5,640.6	5,630.4	12.9	19.9	29.46	303.7	1,043.3	485.8	453.0	32.77	14.822		
5,700.0	5,653.5	5,736.4	5,725.7	13.1	20.2	29.28	307.9	1,034.8	470.8	437.5	33.32	14.130		
5,800.0	5,753.4	5,836.8	5,825.7	13.2	20.6	29.04	311.9	1,026.0	457.5	423.7	33.86	13.513		
5,900.0	5,853.3	5,939.5	5,927.8	13.4	21.0	28.70	315.8	1,016.3	445.1	410.7	34.40	12.938		
6,000.0	5,953.3	6,039.7	6,027.4	13.5	21.4	28.21	319.8	1,006.3	433.7	398.7	34.94	12.414		
6,046.7	6,000.0	6,086.1	6,073.5	13.6	21.6	89.19	321.7	1,001.7	428.9	393.7	35.17	12.196		
6,100.0	6,053.3	6,137.7	6,124.8	13.6	21.8	88.90	323.7	996.7	423.7	388.3	35.42	11.961		
6,200.0	6,153.3	6,239.3	6,225.9	13.6	22.2	88.32	327.7	986.8	414.1	378.2	35.92	11.527		
6,300.0	6,253.3	6,338.6	6,324.5	13.7	22.5	87.67	331.9	976.6	403.9	367.5	36.43	11.086		
6,400.0	6,353.3	6,436.5	6,421.9	13.8	22.9	86.91	336.7	966.8	394.2	357.2	36.95	10.669		
6,500.0	6,453.3	6,533.4	6,518.2	13.9	23.3	86.20	341.0	957.6	385.0	347.5	37.46	10.277		
6,600.0	6,553.3	6,632.5	6,616.9	13.9	23.7	85.51	345.0	948.7	376.3	338.3	37.97	9.910		
6,700.0	6,653.3	6,729.8	6,713.7	14.0	24.0	84.82	348.7	940.2	367.9	329.4	38.48	9.560		
6,800.0	6,753.3	6,828.1	6,811.6	14.1	24.4	84.09	352.6	932.2	360.1	321.1	39.00	9.235		
6,900.0	6,853.3	6,927.2	6,910.3	14.1	24.8	83.29	356.7	924.3	352.7	313.2	39.51	8.925		
7,000.0	6,953.3	7,028.9	7,011.6	14.2	25.2	82.47	360.6	916.0	345.0	305.0	40.03	8.619		
7,100.0	7,053.3	7,130.9	7,113.1	14.3	25.6	81.51	365.1	906.8	336.8	296.2	40.56	8.304		
7,200.0	7,153.3	7,230.0	7,211.7	14.4	25.9	80.49	369.7	897.6	328.2	287.2	41.08	7.990		
7,300.0	7,253.3	7,326.8	7,308.0	14.4	26.3	79.58	373.4	889.2	320.4	278.8	41.61	7.700		
7,400.0	7,353.3	7,425.7	7,406.5	14.5	26.7	78.72	376.7	881.5	313.3	271.2	42.13	7.436		
7,500.0	7,453.3	7,527.4	7,507.8	14.6	27.1	77.60	381.0	872.8	305.8	263.1	42.66	7.168		
7,600.0	7,553.3	7,625.7	7,605.6	14.7	27.4	76.49	385.1	864.3	298.3	255.1	43.19	6.905		
7,700.0	7,653.3	7,722.5	7,702.0	14.7	27.8	75.47	388.7	856.8	291.7	247.9	43.72	6.671		
7,800.0	7,753.3	7,820.1	7,799.5	14.8	28.2	74.57	391.6	850.3	286.0	241.8	44.24	6.465		
7,900.0	7,853.3	7,918.8	7,897.9	14.9	28.5	73.77	394.0	844.5	281.0	236.2	44.76	6.277		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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)			
8,000.0	7,953.3	8,016.8	7,995.7	14.9	28.9	73.06	396.1	839.2	276.4	231.2	45.27	6.106	
8,100.0	8,053.3	8,115.9	8,094.7	15.0	29.3	72.48	397.6	834.8	272.6	226.8	45.77	5.955	
8,200.0	8,153.3	8,214.8	8,193.5	15.1	29.6	71.91	399.0	830.4	268.8	222.6	46.28	5.809	
8,300.0	8,253.3	8,314.1	8,292.8	15.2	30.0	71.42	400.2	826.6	265.6	218.8	46.78	5.678	
8,400.0	8,353.3	8,412.7	8,391.3	15.2	30.3	70.98	401.1	823.2	262.6	215.3	47.28	5.554	
8,500.0	8,453.3	8,510.9	8,489.4	15.3	30.7	70.54	402.3	820.4	260.3	212.5	47.77	5.448	
8,600.0	8,553.3	8,610.3	8,588.8	15.4	31.0	70.10	403.5	818.0	258.5	210.2	48.27	5.355	
8,700.0	8,653.3	8,710.2	8,688.7	15.5	31.4	69.74	404.5	815.8	256.8	208.0	48.77	5.265	
8,800.0	8,753.3	8,810.1	8,788.5	15.5	31.8	69.48	405.0	813.9	255.1	205.8	49.26	5.178	
8,900.0	8,853.3	8,909.6	8,888.1	15.6	32.1	69.31	405.1	812.1	253.5	203.8	49.75	5.095	
9,000.0	8,953.3	9,010.1	8,988.5	15.7	32.5	69.15	405.3	810.4	251.9	201.7	50.25	5.014	
9,100.0	9,053.3	9,111.2	9,089.6	15.8	32.8	68.90	405.6	808.2	250.0	199.3	50.75	4.927	
9,200.0	9,153.3	9,212.8	9,191.1	15.8	33.2	68.59	406.0	805.5	247.7	196.5	51.25	4.833	
9,300.0	9,253.3	9,315.6	9,293.9	15.9	33.6	68.23	406.0	801.5	244.0	192.3	51.77	4.714	
9,400.0	9,353.3	9,413.1	9,391.3	16.0	33.9	67.96	405.9	797.9	240.6	188.3	52.25	4.604	
9,500.0	9,453.3	9,512.4	9,490.5	16.1	34.3	67.78	405.6	795.4	238.1	185.4	52.74	4.514	
9,600.0	9,553.3	9,614.0	9,592.1	16.1	34.6	67.65	404.9	792.2	235.0	181.7	53.24	4.413	
9,700.0	9,653.3	9,713.0	9,691.0	16.2	35.0	67.73	403.4	789.4	231.8	178.0	53.72	4.314	
9,800.0	9,753.3	9,812.1	9,790.1	16.3	35.3	68.23	400.5	787.7	229.1	175.0	54.17	4.230	
9,900.0	9,853.3	9,907.7	9,885.7	16.3	35.6	69.12	396.6	787.3	227.2	172.6	54.58	4.162	
9,920.0	9,873.3	9,926.3	9,904.3	16.4	35.7	69.29	395.9	787.5	227.1	172.5	54.66	4.156	
10,000.0	9,953.3	10,004.4	9,982.3	16.4	35.9	69.90	393.8	788.8	227.7	172.7	54.99	4.140	
10,100.0	10,053.3	10,104.4	10,082.2	16.5	36.2	70.41	392.2	790.4	228.6	173.2	55.43	4.124	
10,200.0	10,153.3	10,204.5	10,182.4	16.6	36.6	70.84	390.9	791.8	229.5	173.6	55.88	4.107	
10,300.0	10,253.3	10,304.6	10,282.4	16.6	36.9	71.18	389.9	793.0	230.3	174.0	56.33	4.089	
10,400.0	10,353.3	10,405.8	10,383.6	16.7	37.2	71.29	389.7	793.7	230.9	174.1	56.80	4.065	
10,500.0	10,453.3	10,509.0	10,486.8	16.8	37.5	71.37	389.3	793.5	230.5	173.3	57.30	4.024	
10,600.0	10,553.3	10,610.0	10,587.8	16.9	37.9	71.45	388.5	792.3	229.3	171.5	57.79	3.967	
10,700.0	10,653.3	10,713.3	10,691.1	16.9	38.3	71.26	388.5	789.9	227.0	168.7	58.31	3.893	
10,800.0	10,753.3	10,816.7	10,794.4	17.0	38.6	70.64	389.5	785.4	223.2	164.4	58.84	3.793	
10,900.0	10,853.3	10,918.0	10,895.5	17.1	39.0	69.82	390.8	779.5	218.2	158.8	59.37	3.675	
11,000.0	10,953.3	11,017.8	10,995.2	17.2	39.4	69.44	390.4	774.4	213.3	153.4	59.87	3.562	
11,100.0	11,053.3	11,116.7	11,093.9	17.3	39.7	69.49	388.4	769.6	208.0	147.6	60.36	3.446	
11,200.0	11,153.3	11,213.2	11,190.3	17.3	40.1	69.46	387.3	766.3	204.4	143.6	60.84	3.360	
11,300.0	11,253.3	11,311.6	11,288.7	17.4	40.4	69.62	385.9	764.1	201.8	140.5	61.31	3.292	
11,400.0	11,353.3	11,410.6	11,387.7	17.5	40.7	70.11	383.6	763.0	200.0	138.2	61.77	3.237	
11,500.0	11,453.3	11,510.2	11,487.2	17.6	41.1	70.84	380.7	762.4	198.4	136.2	62.22	3.188	
11,600.0	11,553.3	11,609.6	11,586.6	17.6	41.4	71.62	377.7	762.0	197.1	134.4	62.68	3.144	
11,700.0	11,653.3	11,710.4	11,687.4	17.7	41.8	72.33	375.0	761.6	195.8	132.7	63.14	3.101	
11,753.2	11,706.5	11,764.0	11,741.0	17.7	41.9	72.71	373.5	761.1	194.9	131.5	63.38	3.075	
11,775.0	11,728.3	11,785.9	11,762.8	17.7	42.0	-106.93	372.9	760.8	194.6	131.2	63.48	3.066	
11,782.9	11,736.2	11,793.8	11,770.8	17.7	42.0	-106.99	372.7	760.8	194.6	131.1	63.51	3.064 CC, ES	
11,800.0	11,753.2	11,810.9	11,787.8	17.7	42.1	-107.25	372.2	760.6	194.7	131.1	63.59	3.062 SF	
11,825.0	11,778.0	11,835.8	11,812.7	17.7	42.2	-107.88	371.4	760.3	195.2	131.5	63.71	3.064	
11,850.0	11,802.6	11,860.6	11,837.5	17.7	42.3	-108.82	370.7	760.1	196.1	132.3	63.83	3.072	
11,875.0	11,827.0	11,885.1	11,862.0	17.7	42.3	-110.02	370.0	759.8	197.5	133.6	63.96	3.088	
11,900.0	11,851.0	11,909.3	11,886.2	17.6	42.4	-111.47	369.4	759.5	199.5	135.5	64.09	3.113	
11,925.0	11,874.6	11,933.1	11,910.0	17.6	42.5	-113.10	368.7	759.3	202.3	138.0	64.23	3.149	
11,950.0	11,897.8	11,956.6	11,933.4	17.6	42.6	-114.87	368.0	759.0	205.7	141.4	64.37	3.196	
11,975.0	11,920.4	11,979.5	11,956.3	17.6	42.7	-116.72	367.4	758.8	210.1	145.6	64.50	3.258	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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		
12,000.0	11,942.5	12,001.9	11,978.7	17.6	42.7	-118.61	366.8	758.5	215.5	150.9	64.64	3.334		
12,025.0	11,963.9	12,023.6	12,000.5	17.6	42.8	-120.47	366.1	758.3	222.0	157.2	64.77	3.427		
12,050.0	11,984.5	12,044.7	12,021.6	17.5	42.9	-122.26	365.5	758.0	229.6	164.7	64.89	3.538		
12,075.0	12,004.5	12,065.1	12,041.9	17.5	43.0	-123.94	365.0	757.8	238.4	173.4	65.01	3.668		
12,100.0	12,023.6	12,084.7	12,061.5	17.5	43.0	-125.47	364.4	757.6	248.5	183.4	65.13	3.816		
12,125.0	12,041.8	12,103.4	12,080.2	17.5	43.1	-126.80	363.9	757.3	259.9	194.6	65.23	3.984		
12,150.0	12,059.2	12,121.4	12,098.1	17.5	43.2	-127.94	363.4	757.1	272.5	207.1	65.33	4.171		
12,175.0	12,075.5	12,138.5	12,115.3	17.5	43.2	-128.85	362.9	756.9	286.3	220.9	65.41	4.377		
12,200.0	12,090.9	12,154.7	12,131.4	17.5	43.3	-129.49	362.4	756.7	301.3	235.8	65.49	4.600		
12,225.0	12,105.2	12,169.7	12,146.5	17.5	43.3	-129.84	362.0	756.5	317.4	251.8	65.57	4.841		
12,250.0	12,118.4	12,183.8	12,160.5	17.5	43.4	-129.86	361.6	756.3	334.6	268.9	65.63	5.097		
12,275.0	12,130.5	12,196.7	12,173.4	17.5	43.4	-129.52	361.2	756.1	352.7	287.0	65.69	5.369		
12,300.0	12,141.4	12,208.4	12,185.1	17.5	43.5	-128.77	360.8	755.9	371.8	306.2	65.63	5.665		
12,325.0	12,151.1	12,219.0	12,195.7	17.5	43.5	-127.56	360.5	755.8	391.7	326.0	65.68	5.964		
12,350.0	12,159.6	12,228.3	12,205.0	17.5	43.5	-125.81	360.2	755.6	412.4	346.7	65.72	6.275		
12,375.0	12,166.9	12,236.4	12,213.1	17.6	43.5	-123.42	360.0	755.5	433.7	368.0	65.75	6.597		
12,400.0	12,172.9	12,243.3	12,220.0	17.6	43.6	-120.27	359.7	755.3	455.7	389.9	65.78	6.927		
12,425.0	12,177.6	12,248.8	12,225.6	17.6	43.6	-116.22	359.6	755.2	478.1	412.3	65.80	7.266		
12,450.0	12,181.0	12,253.1	12,229.8	17.6	43.6	-111.10	359.4	755.2	501.0	435.2	65.82	7.612		
12,475.0	12,183.1	12,256.1	12,232.8	17.7	43.6	-104.79	359.3	755.1	524.2	458.4	65.83	7.964		
12,500.0	12,184.0	12,257.7	12,234.4	17.7	43.6	-97.24	359.3	755.1	547.7	481.9	65.83	8.320		
12,503.2	12,184.0	12,257.8	12,234.5	17.7	43.6	-96.18	359.3	755.1	550.7	484.9	65.83	8.366		
12,600.0	12,184.0	13,101.8	12,722.0	17.8	44.2	-150.48	-196.3	865.4	585.8	527.6	58.27	10.054		
12,700.0	12,184.0	13,220.5	12,724.5	18.0	44.5	-149.33	-313.9	881.3	594.0	535.1	58.82	10.098		
12,800.0	12,184.0	13,344.1	12,724.6	18.2	45.0	-148.20	-436.6	895.9	600.0	540.5	59.53	10.079		
12,900.0	12,184.0	13,446.5	12,721.8	18.4	45.5	-147.26	-538.4	906.3	602.8	542.7	60.10	10.029		
13,000.0	12,184.0	13,534.2	12,720.5	18.7	46.0	-146.54	-625.7	915.1	606.7	546.2	60.55	10.021		
13,100.0	12,184.0	13,663.2	12,719.4	19.0	46.7	-145.81	-754.3	924.6	609.8	548.3	61.52	9.913		
13,200.0	12,184.0	13,766.8	12,717.8	19.3	47.4	-145.58	-857.9	927.2	609.6	547.4	62.15	9.808		
13,216.5	12,184.0	13,781.8	12,717.6	19.3	47.5	-145.55	-872.9	927.5	609.6	547.3	62.23	9.795		
13,300.0	12,184.0	13,870.8	12,716.7	19.6	48.1	-145.36	-961.9	929.9	609.8	547.0	62.84	9.704		
13,400.0	12,184.0	13,973.8	12,713.7	20.0	48.9	-145.22	-1,064.8	930.2	607.2	543.7	63.55	9.555		
13,430.9	12,184.0	13,996.3	12,713.5	20.1	49.0	-145.21	-1,087.3	930.4	607.0	543.4	63.63	9.540		
13,500.0	12,184.0	14,052.4	12,714.2	20.4	49.5	-145.22	-1,143.4	931.2	608.0	544.1	63.90	9.515		
13,600.0	12,184.0	14,148.8	12,716.8	20.8	50.3	-145.30	-1,239.8	932.5	610.6	546.1	64.52	9.463		
13,700.0	12,184.0	14,258.3	12,719.9	21.3	51.2	-145.50	-1,349.2	932.8	612.7	547.4	65.37	9.374		
13,800.0	12,184.0	14,366.1	12,720.9	21.8	52.2	-145.62	-1,457.0	932.6	613.0	546.7	66.25	9.252		
13,857.8	12,184.0	14,423.3	12,720.7	22.1	52.7	-145.60	-1,514.2	933.1	612.9	546.2	66.72	9.186		
13,900.0	12,184.0	14,463.3	12,720.6	22.3	53.1	-145.59	-1,554.2	933.5	613.0	545.9	67.04	9.143		
14,000.0	12,184.0	14,568.8	12,720.9	22.8	54.1	-145.59	-1,659.7	934.3	613.2	545.2	68.02	9.016		
14,100.0	12,184.0	14,672.2	12,719.9	23.4	55.2	-145.57	-1,763.1	934.6	612.2	543.2	69.00	8.873		
14,162.0	12,184.0	14,727.5	12,718.9	23.7	55.7	-145.46	-1,818.4	935.6	611.8	542.3	69.49	8.804		
14,200.0	12,184.0	14,759.7	12,718.7	23.9	56.1	-145.40	-1,850.5	936.5	612.0	542.2	69.76	8.772		
14,300.0	12,184.0	14,872.3	12,718.2	24.5	57.3	-145.23	-1,963.1	939.0	612.6	541.5	71.08	8.619		
14,400.0	12,184.0	14,973.9	12,717.3	25.1	58.4	-145.27	-2,064.7	938.6	611.2	539.1	72.11	8.477		
14,467.1	12,184.0	15,032.6	12,717.1	25.5	59.1	-145.30	-2,123.4	938.5	610.8	538.2	72.62	8.411		
14,500.0	12,184.0	15,061.5	12,717.1	25.7	59.4	-145.28	-2,152.3	938.9	610.9	538.0	72.88	8.382		
14,600.0	12,184.0	15,164.0	12,716.1	26.4	60.6	-145.08	-2,254.8	941.4	611.2	537.1	74.11	8.247		
14,700.0	12,184.0	15,259.0	12,715.0	27.0	61.7	-144.79	-2,349.7	945.1	612.0	536.8	75.26	8.132		
14,800.0	12,184.0	15,366.0	12,715.1	27.6	63.0	-144.67	-2,456.7	947.4	613.0	536.4	76.64	7.999		
14,900.0	12,184.0	15,467.8	12,714.4	28.3	64.2	-144.60	-2,558.5	948.5	612.7	534.8	77.89	7.866		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		
14,944.0	12,184.0	15,509.7	12,713.9	28.6	64.7	-144.53	-2,600.3	949.3	612.6	534.2	78.40	7.813		
15,000.0	12,184.0	15,566.4	12,713.2	29.0	65.4	-144.41	-2,657.0	950.7	612.7	533.5	79.16	7.739		
15,100.0	12,184.0	15,681.2	12,712.1	29.7	66.9	-144.41	-2,771.8	950.8	611.5	530.8	80.74	7.574		
15,200.0	12,184.0	15,783.0	12,711.4	30.4	68.1	-144.75	-2,873.5	946.5	608.2	526.4	81.81	7.434		
15,300.0	12,184.0	15,890.9	12,709.8	31.1	69.5	-144.87	-2,981.4	944.4	605.6	522.4	83.17	7.281		
15,400.0	12,184.0	15,986.6	12,708.1	31.8	70.8	-145.18	-3,076.9	940.0	601.1	517.0	84.14	7.144		
15,500.0	12,184.0	16,074.6	12,707.4	32.5	71.9	-145.34	-3,164.9	938.0	598.8	513.8	85.02	7.043		
15,565.9	12,184.0	16,132.0	12,707.3	33.0	72.7	-145.39	-3,222.3	937.7	598.2	512.6	85.62	6.987		
15,600.0	12,184.0	16,160.0	12,707.5	33.2	73.0	-145.39	-3,250.3	937.9	598.4	512.5	85.90	6.966		
15,700.0	12,184.0	16,266.9	12,708.3	34.0	74.5	-145.30	-3,357.2	940.3	600.1	512.6	87.48	6.860		
15,800.0	12,184.0	16,385.8	12,706.8	34.7	76.1	-145.39	-3,476.0	938.9	597.9	508.6	89.25	6.699		
15,900.0	12,184.0	16,488.3	12,704.3	35.4	77.5	-145.48	-3,578.5	936.7	594.3	503.7	90.60	6.560		
16,000.0	12,184.0	16,593.3	12,701.4	36.2	78.9	-145.61	-3,683.4	933.8	590.2	498.2	91.99	6.416		
16,100.0	12,184.0	16,682.0	12,699.7	36.9	80.1	-145.88	-3,772.0	929.8	585.8	492.9	92.84	6.309		
16,200.0	12,184.0	16,776.0	12,698.6	37.7	81.4	-145.98	-3,866.0	928.4	583.6	489.6	93.98	6.209		
16,209.5	12,184.0	16,776.0	12,698.6	37.8	81.4	-145.98	-3,866.0	928.4	583.5	489.6	93.84	6.218		
16,300.0	12,184.0	16,863.1	12,698.4	38.4	82.7	-145.90	-3,953.0	929.8	583.8	488.7	95.08	6.140		
16,400.0	12,184.0	16,986.2	12,697.8	39.2	84.4	-146.08	-4,076.2	928.1	582.2	485.2	97.00	6.002		
16,500.0	12,184.0	17,088.7	12,696.9	40.0	85.8	-146.46	-4,178.5	923.5	578.6	480.5	98.13	5.897		
16,600.0	12,184.0	17,185.2	12,696.7	40.8	87.2	-147.00	-4,274.8	917.5	574.7	475.8	98.95	5.809		
16,700.0	12,184.0	17,270.9	12,697.6	41.5	88.4	-147.39	-4,360.4	914.0	572.9	473.4	99.57	5.754		
16,748.8	12,184.0	17,315.8	12,697.8	41.9	89.1	-147.45	-4,405.4	913.7	572.8	472.7	100.09	5.723		
16,800.0	12,184.0	17,366.7	12,697.4	42.3	89.8	-147.37	-4,456.3	914.8	572.9	472.0	100.90	5.678		
16,900.0	12,184.0	17,470.1	12,694.7	43.1	91.3	-146.98	-4,559.6	918.3	572.2	469.4	102.84	5.564		
16,925.6	12,184.0	17,492.7	12,694.2	43.3	91.7	-146.88	-4,582.1	919.2	572.1	468.9	103.22	5.543		
17,000.0	12,184.0	17,559.1	12,693.1	43.9	92.7	-146.61	-4,648.5	922.2	572.7	468.4	104.33	5.489		
17,100.0	12,184.0	17,658.7	12,693.0	44.7	94.1	-146.29	-4,748.0	926.6	574.7	468.6	106.14	5.415		
17,200.0	12,184.0	17,767.4	12,692.6	45.5	95.7	-146.25	-4,856.6	927.6	574.5	466.5	107.97	5.321		
17,204.8	12,184.0	17,771.6	12,692.6	45.5	95.8	-146.24	-4,860.8	927.7	574.5	466.5	108.03	5.318		
17,307.0	12,184.0	17,872.8	12,692.8	46.3	97.3	-146.16	-4,962.0	929.4	575.3	465.6	109.63	5.247		
17,355.5	12,184.0	17,925.2	12,692.3	46.7	98.1	-146.07	-5,014.4	930.2	575.4	464.8	110.60	5.203		
17,400.0	12,184.0	17,967.0	12,691.9	47.0	98.7	-145.95	-5,056.2	931.0	575.7	464.4	111.33	5.171		
17,500.0	12,184.0	18,060.3	12,691.7	47.8	100.1	-145.70	-5,149.4	932.9	577.3	464.3	112.94	5.112		
17,600.0	12,184.0	18,178.1	12,692.8	48.6	101.9	-145.64	-5,267.2	933.1	578.9	463.8	115.08	5.030		
17,700.0	12,184.0	18,296.2	12,690.1	49.4	103.7	-145.63	-5,385.2	930.2	576.2	459.1	117.10	4.920		
17,800.0	12,184.0	18,393.0	12,688.9	50.2	105.1	-145.95	-5,481.9	924.5	572.4	454.2	118.18	4.844		
17,900.0	12,184.0	18,482.4	12,689.3	51.0	106.4	-146.36	-5,571.1	918.9	569.8	450.9	118.93	4.792		
18,000.0	12,184.0	18,607.0	12,688.6	51.8	108.2	-147.13	-5,695.2	907.9	564.9	444.9	120.08	4.705		
18,100.0	12,184.0	18,692.3	12,687.9	52.6	109.5	-147.65	-5,780.1	900.6	560.2	439.6	120.59	4.646		
18,192.1	12,184.0	18,766.0	12,689.3	53.4	110.6	-148.10	-5,853.7	895.5	558.7	437.9	120.86	4.623		
18,200.0	12,184.0	18,773.5	12,689.6	53.5	110.7	-148.15	-5,861.2	895.0	558.7	437.8	120.91	4.621		
18,300.0	12,184.0	18,877.4	12,691.8	54.3	112.3	-148.66	-5,964.9	889.4	558.2	436.4	121.86	4.581		
18,331.5	12,184.0	18,905.6	12,692.3	54.5	112.7	-148.79	-5,993.0	888.0	558.1	436.1	122.07	4.572		
18,400.0	12,184.0	18,967.7	12,694.1	55.1	113.6	-149.08	-6,055.1	885.1	558.6	436.1	122.49	4.560		
18,500.0	12,184.0	19,066.3	12,698.1	55.9	115.1	-149.64	-6,153.5	880.1	560.0	436.8	123.20	4.545		
18,600.0	12,184.0	19,177.0	12,701.4	56.7	116.8	-150.18	-6,264.0	874.7	560.7	436.4	124.29	4.511		
18,700.0	12,184.0	19,287.7	12,701.6	57.5	118.5	-150.59	-6,374.6	869.1	558.8	433.3	125.55	4.451		
18,800.0	12,184.0	19,398.1	12,700.6	58.3	120.2	-150.96	-6,484.8	863.3	556.0	429.2	126.81	4.384		
18,900.0	12,184.0	19,500.2	12,699.3	59.1	121.7	-151.60	-6,586.5	854.4	551.1	423.7	127.42	4.325		
19,000.0	12,184.0	19,599.4	12,698.5	60.0	123.2	-152.30	-6,685.2	845.4	546.7	418.8	127.87	4.276		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance				Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	No-Go	Separation	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Distance	Factor	
									(usft)	(usft)	(usft)		
19,094.5	12,184.0	19,670.0	12,698.3	60.7	124.3	-152.86	-6,755.5	838.5	543.1	415.4	127.68	4.254	
19,100.0	12,184.0	19,670.0	12,698.3	60.8	124.3	-152.86	-6,755.5	838.5	543.1	415.6	127.56	4.258	
19,200.0	12,184.0	19,670.0	12,698.3	61.6	124.3	-152.86	-6,755.5	838.5	553.3	429.3	123.97	4.463	
19,300.0	12,184.0	19,670.0	12,698.3	62.4	124.3	-152.86	-6,755.5	838.5	580.7	462.4	118.24	4.911	
19,339.0	12,184.0	19,670.0	12,698.3	62.7	124.3	-152.86	-6,755.5	838.5	595.6	479.9	115.68	5.149	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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 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		
2,900.0	2,882.0	2,987.7	2,983.6	7.7	8.2	17.83	314.2	1,187.3	988.8	972.6	16.19	61.068		
3,000.0	2,980.9	3,082.9	3,078.4	7.9	8.5	17.75	318.4	1,179.6	967.7	951.0	16.70	57.947		
3,100.0	3,079.8	3,175.6	3,170.7	8.1	8.9	17.67	322.6	1,172.5	947.0	929.8	17.20	55.041		
3,200.0	3,178.7	3,266.9	3,261.6	8.3	9.2	17.60	326.6	1,166.1	926.9	909.2	17.71	52.341		
3,300.0	3,277.5	3,359.2	3,353.7	8.5	9.5	17.50	331.2	1,160.2	907.4	889.2	18.22	49.810		
3,400.0	3,376.4	3,450.8	3,445.0	8.7	9.8	17.39	336.0	1,154.9	888.7	870.0	18.73	47.452		
3,500.0	3,475.3	3,542.6	3,536.5	8.8	10.1	17.28	341.0	1,150.3	870.7	851.4	19.24	45.253		
3,600.0	3,574.2	3,640.8	3,634.5	9.0	10.5	17.16	346.3	1,146.0	853.3	833.5	19.77	43.158		
3,700.0	3,673.1	3,753.6	3,747.0	9.2	10.9	16.99	352.5	1,139.5	834.6	814.2	20.34	41.026		
3,800.0	3,772.0	3,851.7	3,844.6	9.4	11.2	16.81	358.1	1,133.0	815.1	794.2	20.88	39.039		
3,900.0	3,870.9	3,946.4	3,939.0	9.6	11.5	16.65	363.2	1,127.2	796.1	774.7	21.41	37.185		
4,000.0	3,969.7	4,044.0	4,036.3	9.8	11.9	16.50	368.3	1,121.5	777.2	755.3	21.95	35.417		
4,100.0	4,068.6	4,143.9	4,136.0	10.0	12.2	16.38	372.9	1,115.7	758.4	735.9	22.49	33.722		
4,200.0	4,167.5	4,247.1	4,238.9	10.2	12.6	16.27	377.3	1,109.4	739.1	716.0	23.04	32.077		
4,300.0	4,266.4	4,347.8	4,339.3	10.4	13.0	16.23	380.6	1,102.8	719.1	695.5	23.58	30.492		
4,400.0	4,365.3	4,443.3	4,434.6	10.6	13.3	16.24	383.2	1,096.6	699.2	675.1	24.12	28.990		
4,500.0	4,464.2	4,544.4	4,535.5	10.8	13.7	16.26	385.8	1,090.2	679.3	654.7	24.66	27.544		
4,600.0	4,563.1	4,643.7	4,634.5	11.0	14.0	16.20	389.1	1,083.3	659.1	633.9	25.12	26.232		
4,700.0	4,661.9	4,747.3	4,737.6	11.1	14.4	16.07	393.2	1,075.4	638.3	612.7	25.68	24.859		
4,800.0	4,760.8	4,848.1	4,838.1	11.3	14.7	15.95	396.9	1,067.0	616.9	590.6	26.23	23.520		
4,900.0	4,859.7	4,942.4	4,932.0	11.5	15.1	15.86	400.0	1,059.3	595.4	568.7	26.77	22.244		
5,000.0	4,958.6	5,041.4	5,030.6	11.7	15.4	15.80	403.0	1,051.5	574.2	546.9	27.31	21.020		
5,100.0	5,057.5	5,140.3	5,129.1	11.9	15.8	15.70	406.1	1,043.3	552.6	524.8	27.86	19.834		
5,190.5	5,147.0	5,224.5	5,213.1	12.1	16.1	15.66	408.4	1,036.8	533.4	505.1	28.35	18.817		
5,200.0	5,156.4	5,233.8	5,222.3	12.1	16.1	15.66	408.6	1,036.1	531.5	503.1	28.39	18.716		
5,300.0	5,255.4	5,331.8	5,320.0	12.3	16.5	15.57	411.0	1,028.9	511.6	482.7	28.97	17.659		
5,400.0	5,354.7	5,431.3	5,419.2	12.5	16.8	15.40	413.5	1,021.4	493.3	463.7	29.52	16.710		
5,500.0	5,454.1	5,527.7	5,515.3	12.7	17.2	15.21	415.8	1,014.3	476.7	446.6	30.06	15.858		
5,600.0	5,553.7	5,624.4	5,611.8	12.9	17.5	15.00	417.8	1,007.8	462.3	431.7	30.60	15.107		
5,700.0	5,653.5	5,721.4	5,708.6	13.1	17.9	14.79	419.6	1,001.8	450.0	418.9	31.14	14.454		
5,800.0	5,753.4	5,819.0	5,806.0	13.2	18.2	14.57	421.0	996.2	439.9	408.2	31.67	13.892		
5,900.0	5,853.3	5,916.8	5,903.7	13.4	18.6	14.34	422.3	991.2	431.9	399.7	32.19	13.416		
6,000.0	5,953.3	6,015.3	6,002.0	13.5	18.9	14.06	423.5	986.5	425.9	393.2	32.71	13.023		
6,046.7	6,000.0	6,061.5	6,048.2	13.6	19.1	75.15	424.1	984.3	423.8	390.9	32.92	12.874		
6,100.0	6,053.3	6,113.8	6,100.5	13.6	19.3	74.98	424.8	982.0	421.7	388.6	33.16	12.719		
6,200.0	6,153.3	6,212.0	6,198.6	13.6	19.6	74.69	425.9	978.0	418.1	384.5	33.62	12.436		
6,300.0	6,253.3	6,310.7	6,297.2	13.7	20.0	74.44	426.8	974.5	414.9	380.8	34.08	12.172		
6,400.0	6,353.3	6,409.1	6,395.5	13.8	20.3	74.21	427.6	971.2	411.9	377.4	34.55	11.923		
6,500.0	6,453.3	6,507.8	6,494.2	13.9	20.7	74.04	428.2	968.5	409.4	374.4	35.01	11.693		
6,600.0	6,553.3	6,605.7	6,592.0	13.9	21.0	73.89	428.5	966.1	407.2	371.7	35.47	11.479		
6,700.0	6,653.3	6,705.6	6,691.9	14.0	21.4	73.80	428.7	964.2	405.4	369.5	35.94	11.281		
6,800.0	6,753.3	6,803.7	6,790.0	14.1	21.7	73.69	428.9	962.4	403.6	367.2	36.40	11.089		
6,900.0	6,853.3	6,901.1	6,887.4	14.1	22.0	73.50	430.0	961.0	402.6	365.7	36.86	10.921		
7,000.0	6,953.3	7,000.3	6,986.6	14.2	22.4	73.26	431.4	959.9	401.9	364.6	37.33	10.767		
7,100.0	7,053.3	7,100.2	7,086.5	14.3	22.7	73.07	432.5	959.0	401.4	363.6	37.80	10.617		
7,200.0	7,153.3	7,201.0	7,187.3	14.4	23.1	72.91	433.4	958.0	400.7	362.5	38.28	10.468		
7,300.0	7,253.3	7,302.1	7,288.4	14.4	23.5	72.75	434.2	956.8	399.9	361.1	38.76	10.315		
7,400.0	7,353.3	7,402.5	7,388.7	14.5	23.8	72.65	434.5	955.6	398.8	359.6	39.24	10.163		
7,500.0	7,453.3	7,502.9	7,489.1	14.6	24.2	72.58	434.6	954.3	397.6	357.8	39.71	10.011		
7,600.0	7,553.3	7,599.9	7,586.2	14.7	24.5	72.54	434.6	953.5	396.8	356.6	40.17	9.877		
7,700.0	7,653.3	7,699.9	7,686.2	14.7	24.9	72.48	434.9	952.9	396.3	355.6	40.65	9.749		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		Rule Assigned:		Distance		No-Go		Separation	
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	Warning
7,800.0	7,753.3	7,799.2	7,785.5	14.8	25.2	72.48	434.8	952.5	395.9	354.8	41.11	9.630	
7,900.0	7,853.3	7,898.9	7,885.1	14.9	25.5	72.52	434.5	952.4	395.7	354.1	41.57	9.519	
8,000.0	7,953.3	7,999.1	7,985.3	14.9	25.9	72.60	433.8	952.3	395.4	353.4	42.02	9.411	
8,100.0	8,053.3	8,099.2	8,085.4	15.0	26.2	72.72	433.0	952.3	395.1	352.7	42.47	9.304	
8,200.0	8,153.3	8,199.2	8,185.4	15.1	26.5	72.87	431.9	952.3	394.9	351.9	42.92	9.200	
8,300.0	8,253.3	8,299.3	8,285.5	15.2	26.9	73.04	430.7	952.4	394.6	351.2	43.37	9.097	
8,400.0	8,353.3	8,399.5	8,385.7	15.2	27.2	73.23	429.4	952.5	394.2	350.4	43.82	8.996	
8,500.0	8,453.3	8,501.2	8,487.5	15.3	27.5	73.40	428.0	952.3	393.7	349.4	44.29	8.889	
8,600.0	8,553.3	8,601.4	8,587.6	15.4	27.9	73.59	426.6	951.8	392.8	348.1	44.75	8.778	
8,700.0	8,653.3	8,702.8	8,689.0	15.5	28.2	73.80	424.9	951.3	391.9	346.6	45.22	8.666	
8,800.0	8,753.3	8,801.8	8,788.0	15.5	28.5	74.04	423.1	950.6	390.7	345.0	45.68	8.554	
8,900.0	8,853.3	8,903.5	8,889.6	15.6	28.9	74.17	421.9	949.8	389.6	343.5	46.15	8.442	
9,000.0	8,953.3	9,002.6	8,988.8	15.7	29.2	74.21	421.3	948.7	388.3	341.7	46.63	8.329	
9,100.0	9,053.3	9,105.5	9,091.6	15.8	29.6	74.29	420.3	947.3	386.8	339.7	47.12	8.209	
9,200.0	9,153.3	9,207.3	9,193.4	15.8	29.9	74.41	418.9	945.4	384.6	337.0	47.61	8.079	
9,300.0	9,253.3	9,306.8	9,292.9	15.9	30.3	74.53	417.5	943.4	382.4	334.3	48.08	7.953	
9,400.0	9,353.3	9,409.0	9,395.0	16.0	30.7	74.50	417.1	940.9	379.8	331.2	48.58	7.819	
9,500.0	9,453.3	9,510.1	9,496.1	16.1	31.0	74.40	416.9	937.8	376.8	327.7	49.07	7.679	
9,600.0	9,553.3	9,611.2	9,597.1	16.1	31.4	74.30	416.6	934.4	373.6	324.0	49.56	7.537	
9,700.0	9,653.3	9,711.2	9,697.0	16.2	31.7	74.34	415.4	931.1	370.0	320.0	50.05	7.393	
9,800.0	9,753.3	9,809.6	9,795.4	16.3	32.1	74.59	413.0	928.4	366.8	316.3	50.52	7.260	
9,900.0	9,853.3	9,903.3	9,889.1	16.3	32.4	74.90	410.5	926.8	364.4	313.4	50.96	7.150	
9,969.3	9,922.6	9,967.8	9,953.6	16.4	32.6	75.09	409.2	926.8	364.0	312.8	51.26	7.102	
10,000.0	9,953.3	9,997.0	9,982.7	16.4	32.7	75.17	408.8	926.9	364.1	312.7	51.39	7.085	
10,100.0	10,053.3	10,089.3	10,075.0	16.5	33.0	75.34	408.1	928.4	365.4	313.7	51.79	7.057	
10,200.0	10,153.3	10,188.5	10,174.1	16.6	33.3	75.32	408.9	931.4	368.5	316.3	52.24	7.055	
10,300.0	10,253.3	10,287.8	10,273.4	16.6	33.7	75.31	409.7	933.9	371.2	318.5	52.70	7.044	
10,400.0	10,353.3	10,386.2	10,371.8	16.7	34.0	75.46	409.6	937.1	374.3	321.2	53.14	7.044	
10,500.0	10,453.3	10,491.2	10,476.8	16.8	34.3	75.71	408.7	940.4	377.2	323.5	53.64	7.031	
10,600.0	10,553.3	10,600.4	10,585.9	16.9	34.7	76.00	407.0	941.7	378.0	323.8	54.17	6.978	
10,700.0	10,653.3	10,701.7	10,687.2	16.9	35.1	76.09	406.3	941.4	377.5	322.8	54.66	6.906	
10,800.0	10,753.3	10,807.7	10,793.2	17.0	35.4	75.92	407.0	939.5	375.9	320.7	55.19	6.811	
10,900.0	10,853.3	10,912.0	10,897.5	17.1	35.8	75.70	407.7	936.2	372.9	317.2	55.71	6.695	
11,000.0	10,953.3	11,014.6	10,999.9	17.2	36.2	75.52	407.7	931.9	368.9	312.7	56.21	6.563	
11,100.0	11,053.3	11,111.9	11,097.1	17.3	36.5	75.49	406.9	928.0	364.9	308.2	56.70	6.436	
11,200.0	11,153.3	11,208.8	11,194.0	17.3	36.9	75.63	405.4	925.5	361.9	304.8	57.17	6.331	
11,300.0	11,253.3	11,307.5	11,292.7	17.4	37.2	75.69	404.4	923.1	359.4	301.7	57.65	6.233	
11,400.0	11,353.3	11,407.8	11,393.0	17.5	37.6	75.90	402.6	921.3	357.1	299.0	58.14	6.142	
11,500.0	11,453.3	11,509.6	11,494.7	17.6	37.9	76.05	401.0	918.8	354.4	295.8	58.64	6.044	
11,600.0	11,553.3	11,610.2	11,595.2	17.6	38.3	76.15	399.7	916.0	351.4	292.2	59.13	5.942	
11,700.0	11,653.3	11,710.6	11,695.6	17.7	38.6	76.21	398.5	913.0	348.2	288.6	59.63	5.840	
11,753.2	11,706.5	11,763.3	11,748.2	17.7	38.8	76.27	397.8	911.4	346.5	286.6	59.88	5.787	
11,775.0	11,728.3	11,784.7	11,769.6	17.7	38.9	-103.48	397.5	910.8	346.0	286.0	59.98	5.768	
11,800.0	11,753.2	11,809.2	11,794.2	17.7	39.0	-103.77	397.1	910.2	345.6	285.6	60.08	5.753	
11,809.5	11,762.7	11,818.5	11,803.5	17.7	39.0	-103.92	397.0	910.0	345.6	285.5	60.12	5.748 CC, ES	
11,825.0	11,778.0	11,833.7	11,818.6	17.7	39.1	-104.21	396.7	909.6	345.7	285.5	60.19	5.743	
11,850.0	11,802.6	11,858.1	11,843.0	17.7	39.1	-104.81	396.3	909.0	346.1	285.8	60.30	5.740 SF	
11,875.0	11,827.0	11,882.3	11,867.2	17.7	39.2	-105.55	395.9	908.4	346.9	286.5	60.40	5.744	
11,900.0	11,851.0	11,906.1	11,891.0	17.6	39.3	-106.41	395.5	907.9	348.2	287.7	60.51	5.755	
11,925.0	11,874.6	11,929.6	11,914.5	17.6	39.4	-107.37	395.1	907.4	350.1	289.5	60.62	5.775	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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)			
11,950.0	11,897.8	11,952.6	11,937.5	17.6	39.5	-108.41	394.7	906.9	352.5	291.8	60.72	5.806		
11,975.0	11,920.4	11,975.1	11,960.0	17.6	39.6	-109.49	394.3	906.5	355.6	294.8	60.82	5.847		
12,000.0	11,942.5	11,997.1	11,982.0	17.6	39.6	-110.60	393.9	906.1	359.5	298.5	60.92	5.901		
12,025.0	11,963.9	12,018.3	12,003.2	17.6	39.7	-111.70	393.6	905.7	364.1	303.1	61.01	5.968		
12,050.0	11,984.5	12,038.7	12,023.6	17.5	39.8	-112.74	393.2	905.3	369.7	308.6	61.10	6.050		
12,075.0	12,004.5	12,058.4	12,043.2	17.5	39.8	-113.71	392.9	905.0	376.2	315.1	61.19	6.149		
12,100.0	12,023.6	12,077.2	12,062.1	17.5	39.9	-114.58	392.6	904.8	383.8	322.5	61.28	6.264		
12,125.0	12,041.8	12,095.3	12,080.1	17.5	40.0	-115.32	392.3	904.5	392.4	331.1	61.36	6.396		
12,150.0	12,059.2	12,112.5	12,097.4	17.5	40.0	-115.92	392.1	904.4	402.1	340.7	61.44	6.546		
12,175.0	12,075.5	12,129.0	12,113.8	17.5	40.1	-116.36	391.8	904.2	413.0	351.4	61.51	6.714		
12,200.0	12,090.9	12,144.5	12,129.4	17.5	40.1	-116.60	391.5	904.0	424.8	363.3	61.58	6.899		
12,225.0	12,105.2	12,159.1	12,143.9	17.5	40.2	-116.62	391.3	903.9	437.8	376.2	61.64	7.103		
12,250.0	12,118.4	12,173.1	12,157.9	17.5	40.2	-116.45	391.0	903.8	451.8	390.1	61.70	7.323		
12,275.0	12,130.5	12,186.0	12,170.8	17.5	40.3	-116.00	390.8	903.7	466.9	405.1	61.76	7.559		
12,300.0	12,141.4	12,197.7	12,182.6	17.5	40.3	-115.24	390.6	903.6	482.8	421.0	61.81	7.811		
12,325.0	12,151.1	12,208.3	12,193.1	17.5	40.4	-114.13	390.4	903.5	499.7	438.0	61.75	8.092		
12,350.0	12,159.6	12,217.6	12,202.5	17.5	40.4	-112.65	390.2	903.4	517.4	455.6	61.79	8.374		
12,375.0	12,166.9	12,225.7	12,210.6	17.6	40.4	-110.74	390.0	903.3	535.9	474.1	61.83	8.668		
12,400.0	12,172.9	12,232.4	12,217.2	17.6	40.4	-108.33	389.8	903.2	555.2	493.3	61.86	8.974		
12,425.0	12,177.6	12,237.6	12,222.4	17.6	40.5	-105.41	389.7	903.2	575.0	513.1	61.89	9.291		
12,450.0	12,181.0	12,241.6	12,226.4	17.6	40.5	-101.94	389.6	903.1	595.4	533.5	61.90	9.618		
12,475.0	12,183.1	12,244.3	12,229.1	17.7	40.5	-97.92	389.6	903.1	616.3	554.3	61.92	9.953		
12,500.0	12,184.0	12,245.6	12,230.5	17.7	40.5	-93.34	389.5	903.1	637.5	575.6	61.93	10.294		
12,503.2	12,184.0	12,245.7	12,230.5	17.7	40.5	-92.71	389.5	903.1	640.2	578.3	61.93	10.338		
12,600.0	12,184.0	12,247.8	12,232.6	17.8	40.5	-93.08	389.5	903.1	725.0	663.0	61.95	11.703		
12,700.0	12,184.0	12,250.0	12,234.8	18.0	40.5	-93.45	389.5	903.1	815.4	753.4	61.97	13.158		
12,800.0	12,184.0	12,252.1	12,236.9	18.2	40.5	-93.82	389.4	903.0	907.8	845.8	61.98	14.645		
16,700.0	12,184.0	17,687.1	13,148.9	41.5	65.7	-160.48	-4,423.5	936.7	993.2	910.8	82.37	12.058		
16,800.0	12,184.0	17,777.4	13,148.4	42.3	66.3	-161.10	-4,513.1	925.8	988.2	905.2	83.00	11.906		
16,900.0	12,184.0	17,872.2	13,146.8	43.1	66.9	-161.96	-4,606.7	910.2	981.3	897.6	83.62	11.735		
17,000.0	12,184.0	17,930.5	13,148.0	43.9	67.3	-162.47	-4,664.3	901.8	978.5	894.7	83.75	11.683		
17,100.0	12,184.0	18,059.7	13,150.0	44.7	68.2	-163.37	-4,792.6	887.2	976.5	891.5	84.96	11.493		
17,200.0	12,184.0	18,175.5	13,147.8	45.5	69.0	-164.06	-4,907.8	875.2	971.5	885.4	86.03	11.292		
17,307.0	12,184.0	18,261.0	13,146.3	46.3	69.6	-164.54	-4,992.8	866.9	966.7	880.1	86.62	11.160		
17,355.5	12,184.0	18,302.0	13,146.5	46.7	69.9	-164.72	-5,033.7	863.2	965.8	878.8	86.92	11.110		
17,396.5	12,184.0	18,321.9	13,146.8	47.0	70.1	-164.80	-5,053.6	861.7	965.6	878.6	86.94	11.106		
17,400.0	12,184.0	18,324.1	13,146.8	47.0	70.1	-164.81	-5,055.8	861.5	965.6	878.6	86.95	11.105		
17,500.0	12,184.0	18,396.0	13,149.2	47.8	70.6	-164.89	-5,127.6	860.1	968.2	880.8	87.45	11.072		
17,600.0	12,184.0	18,524.2	13,149.8	48.6	71.7	-164.79	-5,255.7	860.7	968.8	879.7	89.11	10.872		
17,700.0	12,184.0	18,585.0	13,150.8	49.4	72.2	-164.62	-5,316.5	863.3	971.6	882.2	89.48	10.859		
17,800.0	12,184.0	18,718.2	13,152.1	50.2	73.3	-164.26	-5,449.6	868.6	973.8	882.4	91.37	10.657		
17,900.0	12,184.0	18,825.6	13,152.9	51.0	74.2	-164.06	-5,556.9	871.2	975.4	882.7	92.69	10.524		
17,957.5	12,184.0	18,885.7	13,152.6	51.5	74.7	-164.04	-5,617.0	870.8	975.2	881.8	93.38	10.443		
18,000.0	12,184.0	18,911.6	13,152.6	51.8	74.9	-163.98	-5,642.9	871.6	975.6	882.1	93.55	10.429		
18,100.0	12,184.0	19,017.0	13,153.2	52.6	75.8	-163.40	-5,747.8	881.0	979.2	884.2	95.01	10.306		
18,200.0	12,184.0	19,143.5	13,150.5	53.5	76.9	-163.08	-5,874.2	884.6	978.0	881.2	96.77	10.107		
18,300.0	12,184.0	19,241.9	13,148.3	54.3	77.8	-162.87	-5,972.6	886.7	976.8	878.8	97.96	9.971		
18,399.2	12,184.0	19,330.1	13,146.5	55.1	78.5	-162.61	-6,060.7	889.9	976.2	877.2	99.00	9.861		
18,400.0	12,184.0	19,330.8	13,146.5	55.1	78.5	-162.60	-6,061.5	889.9	976.2	877.2	99.00	9.860		
18,500.0	12,184.0	19,413.7	13,145.5	55.9	79.3	-162.27	-6,144.1	894.7	977.1	877.1	99.97	9.774		
18,600.0	12,184.0	19,553.3	13,142.7	56.7	80.5	-162.01	-6,283.6	896.9	975.6	873.6	101.98	9.567		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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:		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	
18,646.8	12,184.0	19,578.2	13,142.4	57.1	80.7	-162.01	-6,308.5	896.6	975.1	873.0	102.12	9.549	
18,700.0	12,184.0	19,623.0	13,143.0	57.5	81.1	-161.96	-6,353.3	897.2	976.0	873.4	102.59	9.514	
18,800.0	12,184.0	19,696.5	13,145.1	58.3	81.7	-161.85	-6,426.7	899.1	979.4	876.2	103.27	9.484	
18,900.0	12,184.0	19,805.4	13,147.8	59.1	82.7	-161.77	-6,535.5	900.4	982.6	877.9	104.66	9.388	
19,000.0	12,184.0	19,976.1	13,147.0	60.0	84.1	-161.86	-6,706.2	896.7	981.8	874.7	107.08	9.169	
19,095.4	12,184.0	20,027.0	13,145.2	60.7	84.5	-161.91	-6,757.0	894.6	978.6	871.2	107.37	9.114	
19,100.0	12,184.0	20,027.0	13,145.2	60.8	84.5	-161.91	-6,757.0	894.6	978.6	871.3	107.34	9.117	
19,200.0	12,184.0	20,027.0	13,145.2	61.6	84.5	-161.91	-6,757.0	894.6	984.2	877.9	106.25	9.263	
19,300.0	12,184.0	20,027.0	13,145.2	62.4	84.5	-161.91	-6,757.0	894.6	999.8	895.2	104.62	9.556	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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)					
2,800.0	2,783.1	3,120.0	3,120.0	7.5	0.0	-171.51	-198.6	-656.2	983.1	972.5	10.68	92.081	
2,900.0	2,882.0	3,120.0	3,120.0	7.7	0.0	-171.51	-198.6	-656.2	966.4	955.3	11.11	87.001	
3,000.0	2,980.9	3,120.0	3,120.0	7.9	0.0	-171.51	-198.6	-656.2	959.9	948.4	11.47	83.704	
3,012.9	2,993.7	3,120.0	3,120.0	7.9	0.0	-171.51	-198.6	-656.2	959.8	948.3	11.51	83.401 CC, ES	
3,100.0	3,079.8	3,120.0	3,120.0	8.1	0.0	-171.51	-198.6	-656.2	963.8	952.0	11.74	82.068	
3,200.0	3,178.7	3,163.7	3,163.7	8.3	1.3	-171.57	-198.6	-656.2	976.9	964.8	12.12	80.610	
3,300.0	3,277.5	3,262.5	3,262.5	8.5	4.3	-171.70	-198.6	-656.2	991.6	978.0	13.66	72.577 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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	3.0	-106.84	-198.6	-656.2	685.7	681.0	4.66	147.009	
100.0	100.0	95.0	95.0	1.2	4.1	-106.84	-198.6	-656.2	685.6	679.1	6.49	105.588	
200.0	200.0	195.0	195.0	1.7	6.6	-106.84	-198.6	-656.2	685.6	675.7	9.96	68.856	
300.0	300.0	295.0	295.0	2.1	9.3	-106.84	-198.6	-656.2	685.6	671.8	13.84	49.534	
400.0	400.0	395.0	395.0	2.4	12.2	-106.84	-198.6	-656.2	685.6	667.8	17.87	38.375	
500.0	500.0	495.0	495.0	2.7	15.2	-106.84	-198.6	-656.2	685.6	663.7	21.95	31.231	
600.0	600.0	595.2	595.0	3.0	18.1	-106.84	-198.6	-656.2	685.6	659.6	26.08	26.287	
700.0	700.0	695.2	695.0	3.2	21.1	-106.84	-198.6	-656.2	685.6	655.4	30.22	22.688	
754.6	754.6	749.8	749.5	3.4	22.7	-106.58	-195.4	-656.2	684.7	652.2	32.49	21.077 CC	
800.0	800.0	794.4	794.0	3.5	24.0	-106.59	-195.5	-656.2	684.7	650.4	34.34	19.942	
900.0	900.0	892.5	892.2	3.7	26.9	-106.66	-196.4	-656.2	685.0	646.6	38.42	17.831	
1,000.0	1,000.0	990.8	990.3	3.9	29.9	-106.82	-198.4	-656.2	685.6	643.1	42.51	16.129	
1,100.0	1,100.0	1,095.5	1,095.0	4.2	33.0	-168.10	-198.6	-656.2	687.3	640.5	46.89	14.658 ES	
1,200.0	1,199.8	1,195.4	1,194.8	4.5	36.0	-168.17	-198.6	-656.2	692.5	641.4	51.07	13.558	
1,300.0	1,299.5	1,294.7	1,294.1	4.8	39.0	-168.20	-197.6	-656.2	700.7	645.5	55.23	12.686	
1,400.0	1,398.7	1,393.2	1,392.7	5.1	41.9	-168.37	-197.9	-656.2	712.7	653.4	59.36	12.007	
1,428.1	1,426.5	1,420.8	1,420.2	5.1	42.7	-168.43	-198.1	-656.2	716.7	656.2	60.51	11.846	
1,500.0	1,497.6	1,491.4	1,490.8	5.2	44.8	-168.64	-198.6	-656.2	727.4	663.9	63.45	11.465	
1,600.0	1,596.5	1,592.4	1,591.5	5.4	47.9	-168.88	-198.6	-656.2	742.0	674.3	67.66	10.966	
1,700.0	1,695.4	1,691.3	1,690.4	5.5	50.8	-169.09	-198.6	-656.2	756.6	684.8	71.80	10.538	
1,800.0	1,794.3	1,789.2	1,788.2	5.7	53.8	-169.07	-195.4	-656.2	770.3	694.4	75.89	10.150	
1,900.0	1,893.1	1,885.8	1,884.7	5.9	56.7	-169.34	-196.3	-656.2	785.2	705.3	79.93	9.823	
2,000.0	1,992.0	1,982.2	1,981.1	6.1	59.5	-169.66	-198.2	-656.2	800.4	716.5	83.97	9.533	
2,100.0	2,090.9	2,087.1	2,085.9	6.2	62.7	-169.88	-198.6	-656.2	815.2	726.9	88.36	9.226	
2,200.0	2,189.8	2,186.0	2,184.8	6.4	65.6	-170.07	-198.6	-656.2	829.9	737.4	92.49	8.972	
2,300.0	2,288.7	2,284.6	2,283.4	6.6	68.6	-170.17	-197.6	-656.2	844.2	747.6	96.62	8.737	
2,400.0	2,387.6	2,382.5	2,381.3	6.8	71.5	-170.36	-197.9	-656.2	859.0	758.3	100.72	8.528	
2,500.0	2,486.5	2,480.4	2,479.2	7.0	74.5	-170.56	-198.5	-656.2	873.9	769.0	104.82	8.337	
2,600.0	2,585.3	2,581.9	2,580.3	7.2	77.5	-170.73	-198.6	-656.2	888.6	779.5	109.07	8.147	
2,700.0	2,684.2	2,680.8	2,679.2	7.3	80.5	-170.88	-198.6	-656.2	903.3	790.1	113.21	7.979	
2,800.0	2,783.1	2,778.8	2,777.1	7.5	83.4	-170.83	-195.4	-656.2	916.9	799.6	117.31	7.816	
2,900.0	2,882.0	2,874.6	2,872.9	7.7	86.3	-171.02	-196.2	-656.2	931.9	810.6	121.33	7.681	
3,000.0	2,980.9	2,970.4	2,968.6	7.9	89.2	-171.26	-197.9	-656.2	947.2	821.9	125.34	7.557	
3,100.0	3,079.8	3,076.7	3,074.8	8.1	92.3	-171.44	-198.6	-656.2	962.2	832.4	129.79	7.413	
3,200.0	3,178.7	3,175.5	3,173.7	8.3	95.3	-171.57	-198.6	-656.2	976.9	843.0	133.94	7.294	
3,300.0	3,277.5	3,274.1	3,272.2	8.5	98.3	-171.64	-197.6	-656.2	991.3	853.2	138.07	7.179 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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		
0.0	0.0	25.3	25.3	0.0	3.0	-76.83	219.3	-936.8	962.2	957.5	4.68	205.583		
100.0	100.0	122.6	122.6	1.2	3.3	-76.85	219.0	-937.1	962.4	957.0	5.33	180.645		
200.0	200.0	220.2	220.2	1.7	3.8	-76.89	218.5	-937.7	962.9	956.6	6.23	154.603		
300.0	300.0	320.3	320.3	2.1	4.3	-76.94	217.7	-938.5	963.5	956.3	7.12	135.412		
400.0	400.0	420.9	420.9	2.4	4.8	-76.99	217.0	-939.3	964.0	956.0	8.00	120.507		
500.0	500.0	523.0	523.0	2.7	5.3	-77.04	216.3	-939.9	964.5	955.7	8.76	110.114		
600.0	600.0	622.9	622.9	3.0	5.8	-77.08	215.7	-940.3	964.7	955.2	9.47	101.881		
700.0	700.0	720.0	720.0	3.2	6.2	-77.14	214.9	-941.0	965.2	955.1	10.11	95.507		
800.0	800.0	813.8	813.8	3.5	6.5	-77.21	213.8	-942.0	966.0	955.5	10.58	91.321		
900.0	900.0	910.0	909.9	3.7	6.8	-77.29	212.9	-943.8	967.7	956.6	11.04	87.646		
1,000.0	1,000.0	1,013.5	1,013.4	3.9	7.2	-77.35	212.2	-945.6	969.2	957.4	11.71	82.749		
1,100.0	1,100.0	1,272.2	1,271.3	4.2	28.7	-138.61	213.0	-931.3	967.6	946.5	21.18	45.681		
1,200.0	1,199.8	1,359.8	1,358.0	4.5	26.9	-138.67	214.5	-918.7	957.8	937.2	20.59	46.528		
1,300.0	1,299.5	1,463.6	1,460.6	4.8	27.0	-138.80	216.8	-903.4	950.4	929.6	20.88	45.515		
1,400.0	1,398.7	1,582.1	1,577.5	5.1	27.1	-138.99	220.4	-884.2	944.4	923.1	21.23	44.491		
1,428.1	1,426.5	1,615.4	1,610.2	5.1	27.2	-139.05	221.7	-878.3	942.8	921.5	21.30	44.266		
1,500.0	1,497.6	1,703.9	1,697.1	5.2	27.2	-139.14	225.3	-861.6	938.2	916.6	21.56	43.522		
1,600.0	1,596.5	1,830.4	1,820.6	5.4	27.4	-139.20	231.1	-834.7	929.5	907.5	21.97	42.315		
1,700.0	1,695.4	1,971.3	1,956.4	5.5	27.4	-139.07	239.2	-798.1	916.2	893.9	22.27	41.136		
1,800.0	1,794.3	2,072.4	2,053.2	5.7	27.5	-138.89	245.8	-769.9	901.2	878.7	22.57	39.934		
1,900.0	1,893.1	2,168.9	2,145.8	5.9	27.6	-138.74	251.7	-743.1	886.4	863.6	22.88	38.741		
2,000.0	1,992.0	2,261.8	2,235.0	6.1	27.6	-138.64	256.9	-717.9	872.1	848.8	23.21	37.577		
2,100.0	2,090.9	2,358.3	2,328.1	6.2	27.7	-138.68	260.1	-692.7	858.3	834.8	23.50	36.518		
2,200.0	2,189.8	2,449.1	2,415.8	6.4	27.8	-138.76	262.8	-669.5	845.0	821.2	23.81	35.496		
2,300.0	2,288.7	2,543.8	2,507.6	6.6	27.9	-138.85	265.8	-646.2	832.7	808.6	24.12	34.523		
2,400.0	2,387.6	2,644.3	2,604.9	6.8	28.0	-138.94	269.0	-621.5	820.5	796.0	24.46	33.551		
2,500.0	2,486.5	2,742.2	2,699.8	7.0	28.1	-139.04	271.9	-597.5	808.2	783.4	24.80	32.589		
2,600.0	2,585.3	2,839.6	2,794.3	7.2	28.2	-139.20	274.2	-573.9	796.2	771.0	25.15	31.661		
2,700.0	2,684.2	2,929.0	2,881.1	7.3	28.3	-139.38	276.1	-553.0	784.8	759.3	25.49	30.787		
2,800.0	2,783.1	3,035.3	2,984.6	7.5	28.4	-139.58	278.5	-528.6	774.0	748.2	25.87	29.922		
2,900.0	2,882.0	3,137.6	3,083.9	7.7	28.6	-139.79	280.6	-504.1	762.2	735.9	26.26	29.028		
3,000.0	2,980.9	3,231.0	3,174.6	7.9	28.7	-140.01	282.2	-482.1	750.6	724.0	26.64	28.177		
3,100.0	3,079.8	3,340.8	3,281.3	8.1	28.8	-140.25	284.5	-455.8	738.8	711.8	27.07	27.293		
3,200.0	3,178.7	3,439.9	3,377.2	8.3	29.0	-140.40	287.2	-431.2	726.3	698.8	27.51	26.397		
3,300.0	3,277.5	3,534.1	3,468.5	8.5	29.1	-140.56	289.9	-408.2	714.1	686.2	27.96	25.542		
3,400.0	3,376.4	3,631.3	3,562.8	8.7	29.3	-140.72	292.7	-385.1	702.6	674.2	28.42	24.727		
3,500.0	3,475.3	3,741.9	3,670.0	8.8	29.5	-140.91	295.8	-357.6	690.1	661.1	28.92	23.863		
3,600.0	3,574.2	3,839.9	3,764.7	9.0	29.6	-141.09	298.3	-332.7	676.9	647.5	29.40	23.022		
3,700.0	3,673.1	3,933.8	3,855.6	9.2	29.8	-141.30	300.5	-309.4	664.3	634.4	29.88	22.230		
3,800.0	3,772.0	4,027.3	3,946.4	9.4	30.0	-141.54	302.6	-287.1	652.6	622.3	30.36	21.494		
3,900.0	3,870.9	4,122.3	4,038.9	9.6	30.1	-141.86	304.0	-265.1	641.7	610.8	30.84	20.808		
4,000.0	3,969.7	4,225.5	4,139.4	9.8	30.3	-142.27	305.1	-241.9	631.2	599.9	31.34	20.142		
4,100.0	4,068.6	4,341.7	4,251.9	10.0	30.5	-142.61	307.4	-213.0	618.6	586.7	31.91	19.387		
4,200.0	4,167.5	4,442.1	4,348.7	10.2	30.7	-142.89	309.4	-186.5	604.3	571.9	32.45	18.622		
4,300.0	4,266.4	4,534.6	4,438.1	10.4	30.9	-143.26	310.5	-162.7	590.7	557.8	32.97	17.915		
4,400.0	4,365.3	4,630.1	4,530.6	10.6	31.1	-143.69	311.2	-139.0	578.1	544.6	33.49	17.262		
4,500.0	4,464.2	4,717.0	4,615.1	10.8	31.3	-144.13	311.8	-118.7	566.9	532.8	34.02	16.661		
4,600.0	4,563.1	4,809.6	4,705.6	11.0	31.5	-144.66	312.2	-98.8	557.5	523.0	34.53	16.145		
4,700.0	4,661.9	4,907.8	4,801.6	11.1	31.6	-145.24	312.7	-78.2	548.8	513.8	35.04	15.663		
4,800.0	4,760.8	5,016.6	4,907.8	11.3	31.9	-145.76	314.6	-55.0	539.9	504.3	35.63	15.152		
4,900.0	4,859.7	5,125.0	5,013.0	11.5	32.1	-146.03	318.5	-28.9	528.5	492.2	36.26	14.573		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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	4,958.6	5,221.2	5,106.1	11.7	32.3	-146.20	322.8	-5.4	516.7	479.8	36.86	14.017		
5,100.0	5,057.5	5,313.7	5,196.0	11.9	32.5	-146.35	327.2	16.3	505.9	468.5	37.44	13.513		
5,190.5	5,147.0	5,407.7	5,287.4	12.1	32.7	-146.48	331.9	37.9	496.8	458.8	38.01	13.070		
5,200.0	5,156.4	5,418.0	5,297.3	12.1	32.7	-146.48	332.5	40.3	495.7	457.7	38.07	13.023		
5,300.0	5,255.4	5,534.7	5,410.1	12.3	33.0	-146.45	338.5	70.0	482.2	443.4	38.79	12.432		
5,400.0	5,354.7	5,631.9	5,503.5	12.5	33.3	-146.27	343.3	96.2	465.6	426.1	39.44	11.804		
5,500.0	5,454.1	5,722.7	5,591.0	12.7	33.5	-146.00	347.7	120.0	448.4	408.3	40.08	11.187		
5,600.0	5,553.7	5,811.7	5,677.2	12.9	33.7	-145.62	352.1	141.5	431.8	391.1	40.71	10.608		
5,700.0	5,653.5	5,916.2	5,778.6	13.1	34.0	-145.00	357.3	166.5	414.1	372.7	41.39	10.005		
5,800.0	5,753.4	6,017.8	5,876.8	13.2	34.3	-144.16	362.4	192.1	393.7	351.6	42.08	9.356		
5,900.0	5,853.3	6,114.0	5,969.7	13.4	34.5	-143.02	367.6	216.4	372.0	329.2	42.78	8.696		
6,000.0	5,953.3	6,214.2	6,066.5	13.5	34.8	-141.73	371.7	242.0	348.6	305.1	43.49	8.016		
6,046.7	6,000.0	6,260.1	6,110.8	13.6	34.9	-79.82	373.3	254.0	337.0	293.2	43.81	7.693		
6,100.0	6,053.3	6,311.3	6,160.2	13.6	35.1	-79.06	375.1	267.4	323.6	279.4	44.17	7.326		
6,200.0	6,153.3	6,406.3	6,251.8	13.6	35.3	-77.37	379.0	292.0	299.0	254.1	44.90	6.659		
6,300.0	6,253.3	6,503.3	6,345.5	13.7	35.6	-75.26	383.5	316.9	275.0	229.3	45.68	6.020		
6,400.0	6,353.3	6,600.3	6,439.1	13.8	35.9	-73.13	386.3	341.9	250.8	204.3	46.47	5.397		
6,500.0	6,453.3	6,694.8	6,530.6	13.9	36.2	-70.73	388.8	365.6	227.7	180.4	47.29	4.814		
6,600.0	6,553.3	6,789.6	6,622.5	13.9	36.4	-67.80	391.6	388.8	205.7	157.5	48.17	4.270		
6,700.0	6,653.3	6,886.9	6,717.1	14.0	36.7	-64.20	394.7	411.4	185.6	136.4	49.13	3.777		
6,800.0	6,753.3	6,986.8	6,813.8	14.1	37.0	-59.52	397.2	436.3	164.6	114.4	50.22	3.277		
6,900.0	6,853.3	7,081.9	6,905.8	14.1	37.3	-53.72	399.7	460.5	144.5	93.1	51.46	2.808 Normal Operations		
7,000.0	6,953.3	7,179.7	7,000.6	14.2	37.6	-46.49	402.2	483.7	127.6	74.8	52.83	2.416 Caution - Monitor Closely		
7,100.0	7,053.3	7,277.3	7,094.9	14.3	37.9	-36.70	404.3	508.9	111.7	57.3	54.39	2.053 Caution - Monitor Closely		
7,200.0	7,153.3	7,374.2	7,188.6	14.4	38.2	-24.36	406.4	533.9	100.1	44.1	55.93	1.789 Caution - Monitor Closely		
7,300.0	7,253.3	7,470.1	7,280.9	14.4	38.5	-9.37	408.7	559.6	94.4	37.3	57.03	1.655 Caution - Monitor Closely		
7,322.9	7,276.2	7,492.1	7,302.2	14.5	38.5	-6.03	409.3	565.1	94.2	37.0	57.16	1.648 Caution - Monitor Closely, CC, ES, SF		
7,400.0	7,353.3	7,566.9	7,374.8	14.5	38.8	4.79	411.2	583.0	96.0	38.7	57.32	1.676 Caution - Monitor Closely		
7,500.0	7,453.3	7,663.6	7,468.7	14.6	39.1	17.64	413.7	606.2	103.5	46.4	57.06	1.814 Caution - Monitor Closely		
7,600.0	7,553.3	7,760.2	7,562.0	14.7	39.4	29.11	416.3	631.0	116.5	59.9	56.60	2.058 Caution - Monitor Closely		
7,700.0	7,653.3	7,859.8	7,658.6	14.7	39.7	37.85	418.6	655.1	132.1	75.8	56.33	2.345 Caution - Monitor Closely		
7,800.0	7,753.3	7,955.1	7,751.4	14.8	39.9	43.97	420.9	676.6	149.0	92.7	56.30	2.646 Normal Operations		
7,900.0	7,853.3	8,053.1	7,846.6	14.9	40.2	49.09	423.8	699.8	168.4	112.0	56.43	2.984 Normal Operations		
8,000.0	7,953.3	8,154.7	7,945.7	14.9	40.5	52.99	426.4	722.1	187.2	130.5	56.71	3.301		
8,100.0	8,053.3	8,249.3	8,038.1	15.0	40.8	55.73	429.3	741.8	206.0	149.0	57.08	3.610		
8,200.0	8,153.3	8,349.0	8,135.5	15.1	41.0	58.03	432.9	763.0	225.9	168.3	57.52	3.926		
8,300.0	8,253.3	8,452.6	8,237.1	15.2	41.3	59.88	436.3	783.1	244.2	186.2	57.99	4.211		
8,400.0	8,353.3	8,556.5	8,339.3	15.2	41.5	61.34	439.1	801.0	260.6	202.2	58.45	4.458		
8,500.0	8,453.3	8,664.3	8,446.0	15.3	41.7	62.42	441.7	816.4	274.3	215.5	58.87	4.660		
8,600.0	8,553.3	8,770.9	8,552.0	15.4	41.9	63.11	443.9	828.0	285.0	225.8	59.26	4.810		
8,700.0	8,653.3	8,875.4	8,656.0	15.5	42.0	63.65	445.6	837.4	293.8	234.1	59.64	4.926		
8,800.0	8,753.3	8,980.6	8,761.0	15.5	42.2	64.14	446.6	845.2	300.8	240.9	59.98	5.016		
8,900.0	8,853.3	9,085.1	8,865.3	15.6	42.3	64.44	447.5	850.8	306.1	245.8	60.31	5.076		
9,000.0	8,953.3	9,194.2	8,974.3	15.7	42.3	64.61	448.2	854.4	309.3	248.9	60.46	5.116		
9,100.0	9,053.3	9,301.2	9,081.3	15.8	42.4	64.68	448.1	855.1	309.9	249.4	60.47	5.125		
9,200.0	9,153.3	9,412.7	9,192.6	15.8	43.1	65.72	441.9	854.9	307.3	245.7	61.62	4.988		
9,300.0	9,253.3	9,516.6	9,295.2	15.9	43.7	68.49	426.1	855.4	301.8	239.4	62.46	4.832		
9,400.0	9,353.3	9,610.7	9,385.3	16.0	43.8	73.61	399.7	860.8	298.0	235.2	62.86	4.741		
9,437.6	9,390.9	9,644.7	9,416.9	16.0	43.8	76.02	387.5	863.8	297.6	234.5	63.12	4.715		
9,500.0	9,453.3	9,698.7	9,465.4	16.1	43.9	80.55	364.7	869.6	299.0	235.3	63.66	4.697		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,600.0	9,553.3	9,792.6	9,547.1	16.1	43.9	89.27	319.5	880.5	307.2	242.8	64.37	4.772	
9,700.0	9,653.3	9,883.4	9,626.1	16.2	44.0	97.30	275.5	888.0	320.1	255.1	64.97	4.927	
9,800.0	9,753.3	9,953.6	9,685.0	16.3	44.1	103.69	237.8	894.3	341.9	276.6	65.36	5.232	
9,900.0	9,853.3	10,014.5	9,733.0	16.3	44.2	109.38	200.9	901.0	375.3	310.2	65.14	5.761	
10,000.0	9,953.3	10,066.2	9,771.0	16.4	44.2	114.16	166.5	907.3	419.6	355.4	64.25	6.531	
10,100.0	10,053.3	10,107.7	9,799.3	16.5	44.2	117.86	136.8	913.3	474.1	411.2	62.89	7.539	
10,200.0	10,153.3	10,141.0	9,820.3	16.6	44.3	120.73	111.5	918.5	537.1	475.8	61.31	8.761	
10,300.0	10,253.3	10,174.1	9,839.7	16.6	44.3	123.44	85.1	924.0	606.8	546.9	59.90	10.130	
10,400.0	10,353.3	10,201.5	9,854.5	16.7	44.3	125.56	62.7	928.8	681.6	623.0	58.58	11.636	
10,500.0	10,453.3	10,234.0	9,870.7	16.8	44.4	127.94	35.1	934.7	760.6	702.9	57.66	13.191	
10,600.0	10,553.3	10,234.0	9,870.7	16.9	44.4	127.94	35.1	934.7	842.7	786.6	56.16	15.006	
10,700.0	10,653.3	10,262.3	9,883.5	16.9	44.4	129.89	10.4	940.1	927.2	871.6	55.60	16.678	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		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)			
0.0	0.0	32.7	32.7	0.0	3.0	-78.74	186.4	-936.5	954.9	950.2	4.69	203.699	
100.0	100.0	131.9	131.9	1.2	3.3	-78.74	186.4	-936.6	955.0	949.6	5.34	178.983	
200.0	200.0	229.6	229.6	1.7	3.7	-78.74	186.4	-936.8	955.1	948.9	6.19	154.183	
300.0	300.0	323.2	323.2	2.1	4.2	-78.74	186.7	-937.4	955.8	948.8	7.06	135.378	
400.0	400.0	417.3	417.3	2.4	4.8	-78.72	187.3	-938.6	957.2	949.2	7.93	120.680	
500.0	500.0	512.9	512.8	2.7	5.2	-78.71	187.8	-940.3	959.1	950.4	8.69	110.404	
600.0	600.0	611.5	611.4	3.0	5.7	-78.72	188.0	-942.5	961.3	951.9	9.44	101.859	
700.0	700.0	717.7	717.6	3.2	6.1	-78.76	187.8	-944.7	963.3	953.1	10.16	94.798	
800.0	800.0	822.2	822.1	3.5	6.4	-78.83	186.8	-946.3	964.6	953.9	10.69	90.252	
900.0	900.0	945.5	945.4	3.7	6.9	-78.89	186.0	-946.8	964.9	953.7	11.24	85.869	
1,000.0	1,000.0	1,072.9	1,072.7	3.9	7.2	-78.72	188.0	-942.8	962.2	950.6	11.58	83.117	
1,100.0	1,100.0	1,239.0	1,238.1	4.2	7.3	-139.72	192.6	-928.9	955.8	943.9	11.96	79.892	
1,200.0	1,199.8	1,352.6	1,350.7	4.5	7.4	-139.65	196.5	-914.3	947.8	935.6	12.23	77.513	
1,300.0	1,299.5	1,445.0	1,442.3	4.8	7.5	-139.70	199.5	-902.1	942.1	929.6	12.51	75.308	
1,400.0	1,398.7	1,539.0	1,535.5	5.1	7.6	-139.81	203.3	-890.4	940.1	927.3	12.81	73.370	
1,403.1	1,401.7	1,539.0	1,535.5	5.1	7.6	-139.81	203.3	-890.4	940.1	927.3	12.82	73.343	
1,428.1	1,426.5	1,561.5	1,557.8	5.1	7.7	-139.85	204.2	-887.9	940.3	927.4	12.86	73.090	
1,500.0	1,497.6	1,636.7	1,632.5	5.2	7.8	-140.10	205.8	-879.4	940.8	927.8	13.04	72.150	
1,600.0	1,596.5	1,738.4	1,733.5	5.4	7.9	-140.52	206.4	-867.9	941.4	928.0	13.34	70.572	
1,700.0	1,695.4	1,842.6	1,837.0	5.5	8.0	-140.90	207.8	-855.6	941.5	927.9	13.66	68.905	
1,800.0	1,794.3	1,942.6	1,936.1	5.7	8.1	-141.13	211.1	-843.3	941.6	927.6	14.01	67.213	
1,900.0	1,893.1	2,043.0	2,035.7	5.9	8.3	-141.31	215.5	-830.7	941.6	927.2	14.37	65.534	
2,000.0	1,992.0	2,143.3	2,135.1	6.1	8.4	-141.47	220.1	-818.0	941.6	926.8	14.74	63.874	
2,098.5	2,089.5	2,241.5	2,232.4	6.2	8.6	-141.62	224.7	-805.6	941.5	926.4	15.13	62.223	
2,100.0	2,090.9	2,242.9	2,233.8	6.2	8.6	-141.62	224.7	-805.4	941.5	926.4	15.14	62.199	
2,200.0	2,189.8	2,348.6	2,338.5	6.4	8.9	-141.80	229.5	-792.0	941.4	925.9	15.55	60.530	
2,300.0	2,288.7	2,456.2	2,445.0	6.6	9.2	-142.04	233.1	-777.4	940.3	924.3	16.00	58.784	
2,400.0	2,387.6	2,559.0	2,546.8	6.8	9.5	-142.27	236.4	-763.0	938.7	922.3	16.45	57.067	
2,500.0	2,486.5	2,665.4	2,652.0	7.0	9.8	-142.50	240.0	-747.6	936.8	919.8	16.93	55.340	
2,600.0	2,585.3	2,755.1	2,740.8	7.2	10.1	-142.74	242.3	-734.8	934.9	917.5	17.39	53.774	
2,685.4	2,669.8	2,828.8	2,813.9	7.3	10.4	-143.00	243.3	-725.3	934.3	916.6	17.77	52.581	
2,700.0	2,684.2	2,841.4	2,826.3	7.3	10.4	-143.05	243.4	-723.8	934.4	916.5	17.84	52.389	
2,800.0	2,783.1	2,924.9	2,909.3	7.5	10.6	-143.37	244.4	-714.5	935.4	917.2	18.27	51.189	
2,900.0	2,882.0	3,016.7	3,000.6	7.7	10.9	-143.71	245.8	-705.7	938.1	919.3	18.73	50.078	
3,000.0	2,980.9	3,112.5	3,096.1	7.9	11.2	-144.07	247.2	-696.8	941.2	922.0	19.20	49.007	
3,100.0	3,079.8	3,218.4	3,201.5	8.1	11.6	-144.45	249.0	-687.1	944.4	924.7	19.72	47.898	
3,200.0	3,178.7	3,326.7	3,309.2	8.3	11.9	-144.74	252.3	-676.0	946.7	926.4	20.24	46.765	
3,300.0	3,277.5	3,428.2	3,410.0	8.5	12.3	-144.99	255.6	-665.0	948.5	927.7	20.76	45.690	
3,400.0	3,376.4	3,524.2	3,505.4	8.7	12.6	-145.24	258.6	-654.7	950.4	929.2	21.26	44.701	
3,500.0	3,475.3	3,636.6	3,617.0	8.8	13.0	-145.50	262.6	-642.0	951.8	930.0	21.83	43.604	
3,600.0	3,574.2	3,735.5	3,715.2	9.0	13.3	-145.72	266.1	-630.2	952.6	930.3	22.36	42.602	
3,700.0	3,673.1	3,832.3	3,811.2	9.2	13.7	-145.94	269.5	-619.3	954.0	931.2	22.89	41.684	
3,800.0	3,772.0	3,951.2	3,929.2	9.4	14.1	-146.25	273.0	-604.6	954.3	930.8	23.51	40.588	
3,900.0	3,870.9	4,058.1	4,035.0	9.6	14.5	-146.56	275.3	-589.8	953.1	929.0	24.12	39.523	
4,000.0	3,969.7	4,153.1	4,129.1	9.8	14.9	-146.88	276.8	-576.7	952.0	927.3	24.69	38.563	
4,100.0	4,068.6	4,252.4	4,227.5	10.0	15.3	-147.24	278.0	-563.6	951.3	926.0	25.28	37.637	
4,200.0	4,167.5	4,352.1	4,326.4	10.2	15.6	-147.65	278.2	-550.3	950.6	924.7	25.88	36.736	
4,300.0	4,266.4	4,448.4	4,421.8	10.4	16.0	-148.04	278.5	-537.6	950.1	923.6	26.46	35.902	
4,346.6	4,312.5	4,492.7	4,465.7	10.5	16.2	-148.19	279.3	-531.9	950.0	923.3	26.73	35.538	
4,400.0	4,365.3	4,543.1	4,515.8	10.6	16.4	-148.34	280.5	-525.5	950.1	923.1	27.04	35.140	
4,500.0	4,464.2	4,633.5	4,605.4	10.8	16.7	-148.59	282.8	-514.6	950.9	923.3	27.59	34.469	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
4,600.0	4,563.1	4,747.0	4,718.0	11.0	17.2	-148.88	286.1	-501.1	951.9	923.6	28.26	33.688		
4,700.0	4,661.9	4,855.7	4,825.7	11.1	17.6	-149.11	290.2	-486.3	951.2	922.3	28.89	32.923		
4,800.0	4,760.8	4,955.2	4,924.1	11.3	18.0	-149.29	294.3	-472.5	950.2	920.7	29.49	32.218		
4,900.0	4,859.7	5,054.0	5,021.9	11.5	18.4	-149.44	298.8	-458.8	949.4	919.3	30.09	31.549		
5,000.0	4,958.6	5,151.5	5,118.4	11.7	18.8	-149.59	303.3	-445.5	948.7	918.1	30.68	30.919		
5,100.0	5,057.5	5,255.7	5,221.5	11.9	19.2	-149.82	306.9	-431.2	948.0	916.6	31.32	30.268		
5,190.5	5,147.0	5,345.7	5,310.6	12.1	19.6	-150.05	309.6	-418.7	947.1	915.2	31.88	29.711		
5,200.0	5,156.4	5,355.1	5,319.9	12.1	19.6	-150.07	309.9	-417.4	947.0	915.1	31.93	29.657		
5,300.0	5,255.4	5,451.6	5,415.4	12.3	20.0	-150.25	313.1	-404.1	945.3	912.8	32.57	29.027		
5,400.0	5,354.7	5,541.5	5,504.5	12.5	20.4	-150.35	316.6	-392.4	942.9	909.8	33.13	28.463		
5,500.0	5,454.1	5,628.5	5,590.9	12.7	20.7	-150.43	319.4	-382.2	940.2	906.6	33.66	27.936		
5,600.0	5,553.7	5,720.7	5,682.5	12.9	21.1	-150.49	321.8	-372.4	937.2	903.0	34.20	27.406		
5,700.0	5,653.5	5,818.9	5,780.1	13.1	21.4	-150.49	324.7	-362.4	933.0	898.3	34.75	26.852		
5,800.0	5,753.4	5,916.2	5,876.9	13.2	21.8	-150.41	328.0	-352.7	927.6	892.3	35.28	26.294		
5,900.0	5,853.3	6,019.6	5,979.7	13.4	22.2	-150.24	331.8	-342.6	920.9	885.1	35.83	25.705		
6,000.0	5,953.3	6,135.0	6,094.4	13.5	22.7	-149.99	335.7	-329.6	911.1	874.6	36.44	25.004		
6,046.7	6,000.0	6,183.5	6,142.5	13.6	22.9	-88.62	337.2	-323.7	905.6	868.9	36.68	24.693		
6,100.0	6,053.3	6,234.9	6,193.4	13.6	23.1	-88.51	338.9	-317.5	899.2	862.3	36.92	24.355		
6,200.0	6,153.3	6,330.6	6,288.4	13.6	23.4	-88.28	342.0	-306.2	887.5	850.1	37.40	23.731		
6,300.0	6,253.3	6,424.8	6,381.9	13.7	23.8	-88.04	345.4	-295.5	876.3	838.4	37.86	23.146		
6,400.0	6,353.3	6,520.9	6,477.5	13.8	24.2	-87.78	348.9	-285.1	865.6	827.3	38.32	22.589		
6,500.0	6,453.3	6,616.6	6,572.5	13.9	24.6	-87.51	352.6	-275.1	855.2	816.5	38.77	22.060		
6,600.0	6,553.3	6,724.9	6,680.2	13.9	25.0	-87.20	356.7	-263.7	845.0	805.7	39.29	21.508		
6,700.0	6,653.3	6,829.2	6,783.7	14.0	25.4	-86.93	360.0	-251.5	833.4	793.6	39.80	20.940		
6,800.0	6,753.3	6,921.0	6,874.8	14.1	25.8	-86.70	362.7	-241.0	822.1	781.9	40.25	20.424		
6,900.0	6,853.3	7,030.3	6,983.4	14.1	26.2	-86.47	365.2	-228.6	810.9	770.1	40.80	19.875		
7,000.0	6,953.3	7,126.2	7,078.7	14.2	26.6	-86.32	366.6	-217.2	799.2	757.9	41.30	19.351		
7,100.0	7,053.3	7,218.0	7,169.8	14.3	27.0	-86.17	367.9	-206.7	787.9	746.1	41.77	18.863		
7,200.0	7,153.3	7,312.0	7,263.3	14.4	27.3	-86.02	369.3	-196.7	777.4	735.2	42.24	18.405		
7,300.0	7,253.3	7,406.8	7,357.6	14.4	27.7	-85.86	370.8	-187.5	767.8	725.1	42.70	17.980		
7,400.0	7,353.3	7,524.9	7,474.9	14.5	28.2	-85.63	372.9	-174.6	757.0	713.7	43.32	17.475		
7,500.0	7,453.3	7,624.1	7,573.4	14.6	28.6	-85.45	374.3	-162.9	745.4	701.5	43.83	17.006		
7,600.0	7,553.3	7,724.1	7,672.7	14.7	29.0	-85.22	376.3	-150.8	733.5	689.1	44.34	16.541		
7,700.0	7,653.3	7,818.0	7,765.9	14.7	29.4	-84.98	378.4	-139.9	722.1	677.3	44.81	16.114		
7,800.0	7,753.3	7,922.9	7,870.2	14.8	29.8	-84.71	380.7	-128.1	711.1	665.8	45.34	15.684		
7,900.0	7,853.3	8,028.5	7,974.8	14.9	30.2	-84.40	383.2	-114.5	698.4	652.6	45.88	15.224		
8,000.0	7,953.3	8,122.8	8,068.3	14.9	30.6	-84.10	385.7	-102.6	686.1	639.7	46.35	14.803		
8,100.0	8,053.3	8,216.9	8,161.8	15.0	31.0	-83.78	388.2	-91.3	674.5	627.7	46.80	14.412		
8,200.0	8,153.3	8,311.7	8,255.9	15.1	31.4	-83.47	390.7	-80.7	663.7	616.4	47.25	14.046		
8,300.0	8,253.3	8,413.7	8,357.3	15.2	31.8	-83.15	393.0	-69.7	653.2	605.5	47.74	13.682		
8,400.0	8,353.3	8,513.8	8,456.7	15.2	32.2	-82.78	395.8	-58.2	642.2	594.0	48.21	13.320		
8,500.0	8,453.3	8,607.2	8,549.5	15.3	32.6	-82.35	399.3	-47.8	631.6	583.0	48.61	12.993		
8,600.0	8,553.3	8,709.1	8,650.7	15.4	33.0	-81.87	403.0	-37.1	621.6	572.6	49.05	12.673		
8,700.0	8,653.3	8,799.9	8,741.0	15.5	33.4	-81.41	406.7	-27.5	611.8	562.4	49.40	12.384		
8,800.0	8,753.3	8,895.1	8,835.7	15.5	33.7	-80.98	409.8	-18.9	603.3	553.6	49.77	12.121		
8,900.0	8,853.3	8,985.9	8,926.2	15.6	34.1	-80.68	411.9	-11.6	595.8	545.7	50.12	11.888		
9,000.0	8,953.3	9,086.0	9,026.0	15.7	34.4	-80.35	414.2	-4.6	589.3	538.8	50.52	11.665		
9,100.0	9,053.3	9,187.0	9,126.7	15.8	34.8	-80.06	415.9	2.7	582.4	531.5	50.94	11.433		
9,200.0	9,153.3	9,282.7	9,222.2	15.8	35.2	-79.80	417.4	9.4	575.8	524.5	51.32	11.219		
9,300.0	9,253.3	9,391.7	9,330.9	15.9	35.6	-79.45	419.4	17.5	568.8	517.0	51.80	10.981		

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)			
9,400.0	9,353.3	9,493.0	9,431.8	16.0	36.0	-79.08	421.5	26.2	560.7	508.5	52.22	10.738	
9,500.0	9,453.3	9,584.4	9,522.8	16.1	36.3	-78.79	422.9	33.5	553.3	500.7	52.57	10.524	
9,600.0	9,553.3	9,666.0	9,604.3	16.1	36.6	-78.66	423.4	37.9	548.2	495.3	52.84	10.374	
9,700.0	9,653.3	9,750.0	9,688.3	16.2	36.7	-78.65	423.1	39.5	546.2	493.2	52.93	10.318	
9,800.0	9,753.3	9,851.5	9,789.8	16.3	36.7	-78.74	422.2	39.7	545.9	492.7	53.11	10.278	
9,900.0	9,853.3	9,951.6	9,889.9	16.3	36.7	-78.88	420.7	40.0	545.2	491.9	53.33	10.223	
10,000.0	9,953.3	10,070.8	10,008.8	16.4	36.7	-79.63	413.3	40.9	543.5	489.7	53.79	10.104	
10,100.0	10,053.3	10,179.5	10,114.7	16.5	36.6	-82.11	389.4	42.2	538.6	484.2	54.46	9.891	
10,200.0	10,153.3	10,295.2	10,223.5	16.6	36.6	-86.25	350.3	45.2	532.2	476.9	55.33	9.619	
10,300.0	10,253.3	10,392.1	10,310.7	16.6	36.5	-90.78	308.4	49.2	526.4	470.5	55.93	9.412	
10,376.3	10,329.6	10,453.7	10,362.6	16.7	36.5	-94.40	275.4	52.3	524.3	468.2	56.09	9.347 CC, ES, SF	
10,400.0	10,353.3	10,468.0	10,374.2	16.7	36.5	-95.31	267.1	52.9	524.5	468.5	56.04	9.361	
10,500.0	10,453.3	10,539.8	10,430.1	16.8	36.5	-100.19	222.2	55.4	530.9	475.3	55.67	9.538	
10,600.0	10,553.3	10,600.6	10,474.1	16.9	36.6	-104.65	180.4	57.8	546.2	491.5	54.70	9.985	
10,700.0	10,653.3	10,644.8	10,504.2	16.9	36.6	-107.99	148.0	58.9	572.4	519.2	53.21	10.758	
10,800.0	10,753.3	10,692.0	10,534.8	17.0	36.6	-111.53	112.0	58.9	609.2	557.5	51.62	11.801	
10,900.0	10,853.3	10,744.7	10,566.9	17.1	36.7	-115.45	70.2	59.3	654.4	604.3	50.13	13.054	
11,000.0	10,953.3	10,782.4	10,588.5	17.2	36.8	-118.22	39.3	60.1	706.9	658.2	48.70	14.516	
11,100.0	11,053.3	10,813.4	10,604.8	17.3	36.8	-120.49	12.9	61.0	766.6	719.1	47.51	16.136	
11,200.0	11,153.3	10,845.0	10,620.2	17.3	36.9	-122.77	-14.6	62.1	832.2	785.6	46.60	17.860	
11,300.0	11,253.3	10,862.9	10,628.3	17.4	36.9	-124.04	-30.5	62.7	902.9	856.9	45.94	19.652	
11,400.0	11,353.3	10,893.0	10,641.3	17.5	37.0	-126.12	-57.7	63.4	977.8	932.3	45.54	21.473	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	No-Go Distance	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
0.0	0.0	24.3	24.3	0.0	3.0	-80.70	153.3	-936.3	948.8	944.1	4.68	202.777	CC
100.0	100.0	117.7	117.7	1.2	3.2	-80.69	153.6	-936.8	949.3	944.0	5.30	178.982	ES
200.0	200.0	211.5	211.5	1.7	3.7	-80.65	154.5	-937.8	950.5	944.3	6.18	153.776	
300.0	300.0	309.8	309.8	2.1	4.2	-80.59	155.7	-939.2	952.1	945.1	7.07	134.766	
400.0	400.0	408.4	408.3	2.4	4.8	-80.51	157.2	-940.7	953.9	946.0	7.98	119.534	
500.0	500.0	508.7	508.7	2.7	5.3	-80.45	158.6	-942.4	955.8	947.0	8.75	109.171	
600.0	600.0	608.9	608.8	3.0	5.8	-80.40	159.6	-944.0	957.6	948.1	9.51	100.659	
700.0	700.0	708.4	708.3	3.2	6.2	-80.37	160.5	-945.7	959.4	949.2	10.20	94.028	
800.0	800.0	806.8	806.7	3.5	6.6	-80.34	161.3	-947.5	961.3	950.5	10.77	89.214	
900.0	900.0	904.1	904.0	3.7	6.7	-80.32	161.9	-949.5	963.4	952.3	11.15	86.428	
1,000.0	1,000.0	1,004.8	1,004.6	3.9	6.9	-80.29	162.8	-951.7	965.8	954.2	11.53	83.777	
1,100.0	1,100.0	1,107.2	1,107.0	4.2	7.1	-141.53	163.5	-953.7	969.1	957.2	11.95	81.129	
1,200.0	1,199.8	1,224.4	1,224.2	4.5	7.4	-141.70	163.7	-955.4	974.8	962.3	12.50	77.989	
1,300.0	1,299.5	1,334.2	1,333.9	4.8	7.5	-142.13	160.7	-955.2	981.0	968.2	12.85	76.342	
1,400.0	1,398.7	1,428.8	1,428.5	5.1	7.6	-142.60	157.9	-955.0	990.0	976.9	13.10	75.559	SF
1,428.1	1,426.5	1,455.6	1,455.2	5.1	7.6	-142.74	157.2	-955.0	993.2	980.0	13.14	75.584	

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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	24.8	24.8	0.0	3.0	-82.67	120.4	-936.1	943.8	939.1	4.68	201.701	CC
100.0	100.0	120.2	120.2	1.2	3.2	-82.63	121.0	-936.4	944.2	938.9	5.31	177.854	
200.0	200.0	215.4	215.4	1.7	3.7	-82.55	122.6	-937.0	945.0	938.8	6.18	152.821	ES
300.0	300.0	309.1	309.1	2.1	4.2	-82.43	124.7	-938.1	946.5	939.5	7.03	134.614	
400.0	400.0	402.9	402.8	2.4	4.8	-82.28	127.3	-939.7	948.6	940.7	7.91	119.900	
500.0	500.0	497.4	497.2	2.7	5.2	-82.13	130.3	-942.0	951.4	942.7	8.64	110.069	
600.0	600.0	592.3	592.0	3.0	5.7	-81.96	133.4	-944.7	954.7	945.3	9.38	101.811	
700.0	700.0	690.7	690.4	3.2	6.2	-81.81	136.4	-947.9	958.3	948.2	10.06	95.262	
800.0	800.0	792.8	792.4	3.5	6.6	-81.70	138.8	-951.4	962.1	951.4	10.69	90.000	
900.0	900.0	905.8	905.3	3.7	6.8	-81.67	139.8	-954.3	964.7	953.6	11.10	86.938	
1,000.0	1,000.0	1,001.6	1,001.1	3.9	7.0	-81.71	139.4	-956.3	966.7	955.2	11.50	84.082	
1,100.0	1,100.0	1,077.4	1,076.8	4.2	7.1	-142.97	139.1	-959.3	972.0	960.1	11.89	81.767	
1,200.0	1,199.8	1,166.7	1,166.0	4.5	7.3	-143.07	139.0	-964.4	981.8	969.5	12.29	79.886	
1,300.0	1,299.5	1,270.8	1,269.9	4.8	7.5	-143.28	139.0	-970.5	994.6	981.8	12.74	78.035	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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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												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)			
0.0	0.0	24.8	24.8	0.0	3.0	-82.67	120.4	-936.1	943.8	939.1	4.68	201.701	CC
100.0	100.0	120.2	120.2	1.2	3.2	-82.63	121.0	-936.4	944.2	938.9	5.31	177.854	
200.0	200.0	215.4	215.4	1.7	3.7	-82.55	122.6	-937.0	945.0	938.8	6.18	152.821	ES
300.0	300.0	309.1	309.1	2.1	4.2	-82.43	124.7	-938.1	946.5	939.5	7.03	134.614	
400.0	400.0	402.9	402.8	2.4	4.8	-82.28	127.3	-939.7	948.6	940.7	7.91	119.900	
500.0	500.0	497.4	497.2	2.7	5.2	-82.13	130.3	-942.0	951.4	942.7	8.64	110.069	
600.0	600.0	592.3	592.0	3.0	5.7	-81.96	133.4	-944.7	954.7	945.3	9.38	101.811	
700.0	700.0	690.7	690.4	3.2	6.2	-81.81	136.4	-947.9	958.3	948.2	10.06	95.262	
800.0	800.0	792.8	792.4	3.5	6.6	-81.70	138.8	-951.4	962.1	951.4	10.69	90.000	
900.0	900.0	905.8	905.3	3.7	6.8	-81.67	139.8	-954.3	964.7	953.6	11.10	86.938	
1,000.0	1,000.0	1,001.6	1,001.1	3.9	7.0	-81.71	139.4	-956.3	966.7	955.2	11.50	84.082	
1,100.0	1,100.0	1,077.4	1,076.8	4.2	7.1	-142.97	139.1	-959.3	972.0	960.1	11.89	81.767	
1,200.0	1,199.8	1,166.7	1,166.0	4.5	7.3	-143.07	139.0	-964.4	981.8	969.5	12.29	79.886	
1,300.0	1,299.5	1,270.8	1,269.9	4.8	7.5	-143.28	139.0	-970.5	994.6	981.8	12.74	78.035	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 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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

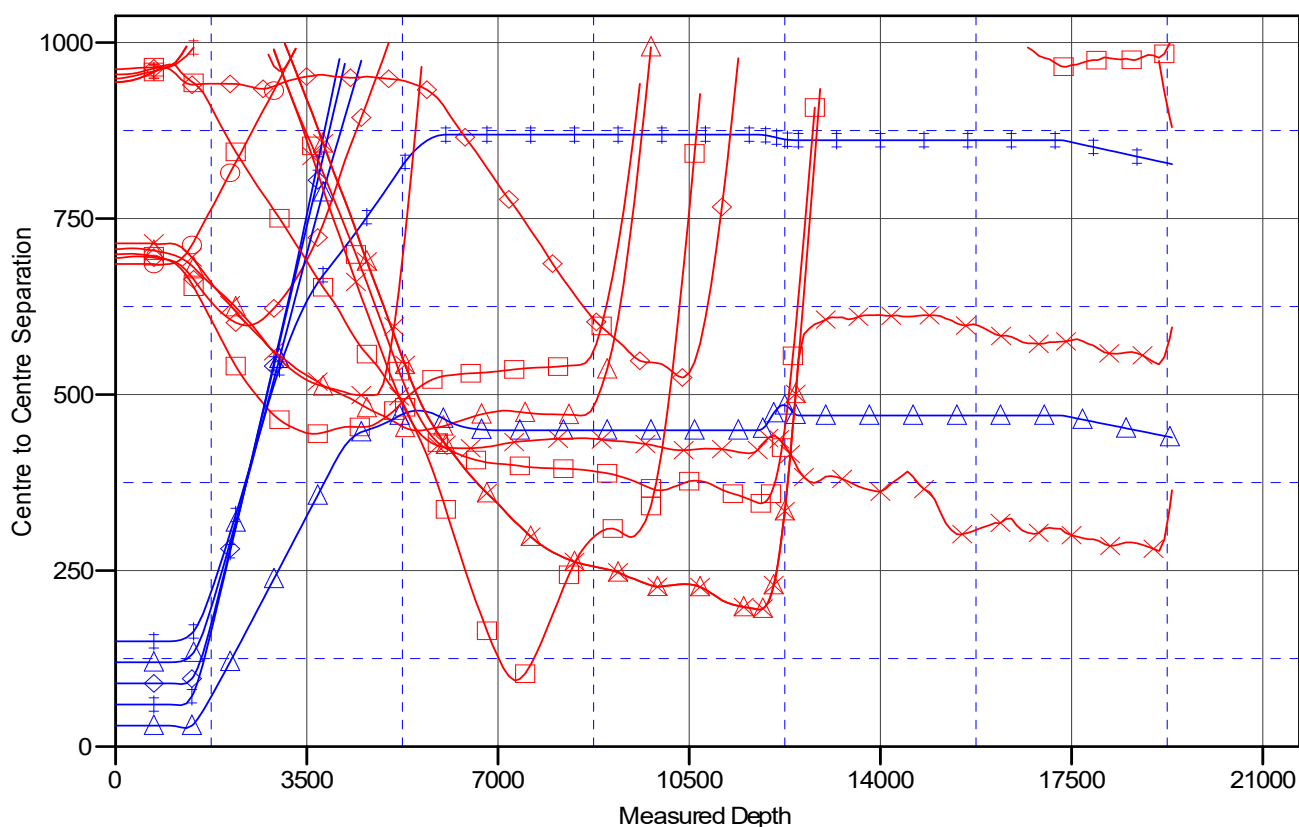
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2532 WC 711H - 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
PATRINDER STATE 7 21H, OWB, AWP V0
_ZIA HILLS UNIT 2532 WC 708H, OWB, PWP0 V0
_ZIA HILLS UNIT 2532 WC 708H, OWB, PWP0 V0
_ZIA HILLS UNIT 2532 WC 708H, OWB, PWP0 V0

_ZIA HILLS UNIT 2532 WC 708H, OWB, PWP0 V0
_ZIA HILLS UNIT 2532 WC 710H, OWB, PWP0 V0
MELLISSA-FEDERAL #1 (P&A), OWB, AWP V0
WAR HAMMER 25 FEDERALCOM W1 3H, 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 6X, 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

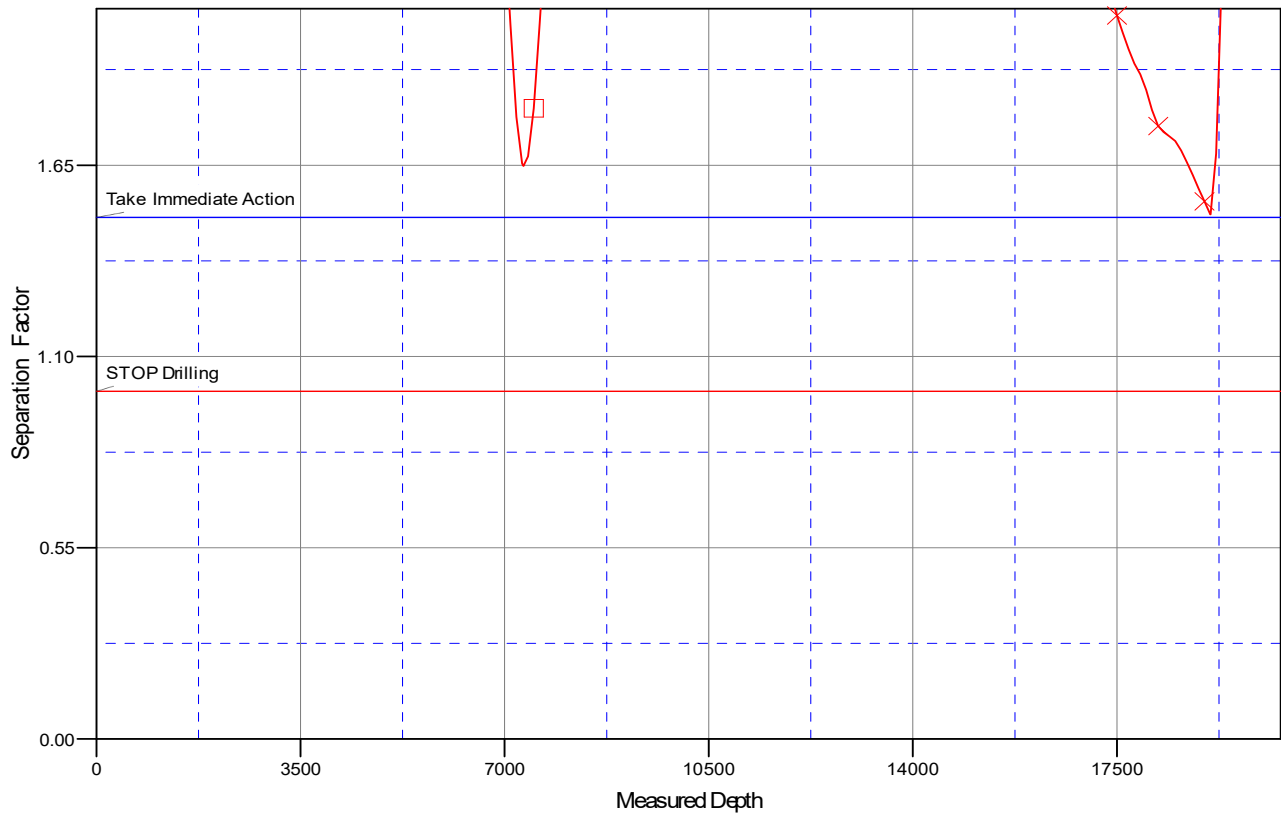
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UNIT 2532 WC 711H
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 711H	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

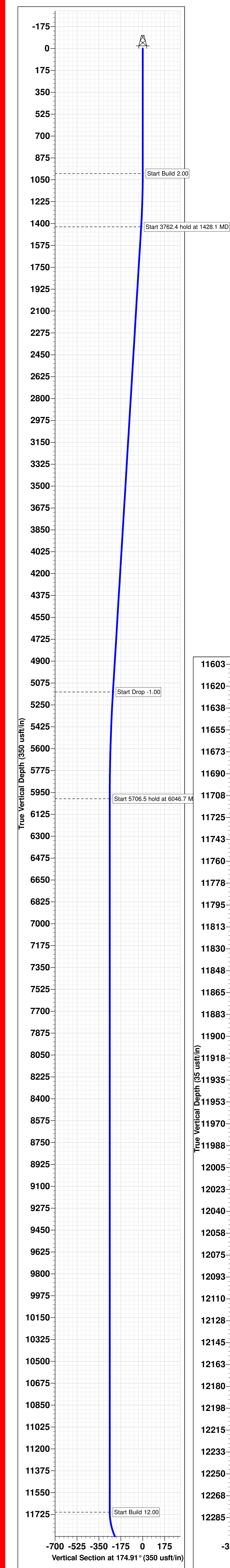
Coordinates are relative to: _ZIA HILLS UNIT 2532 WC 711H - Slot ZIA HILLS UN
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°

Separation Factor 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
PATFINDER STATE 7.21H, 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

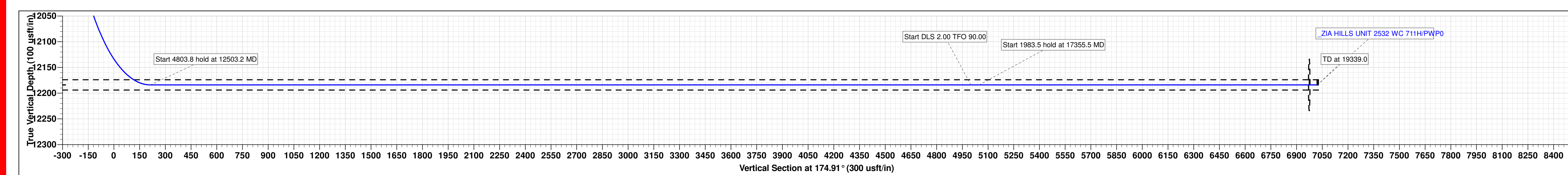
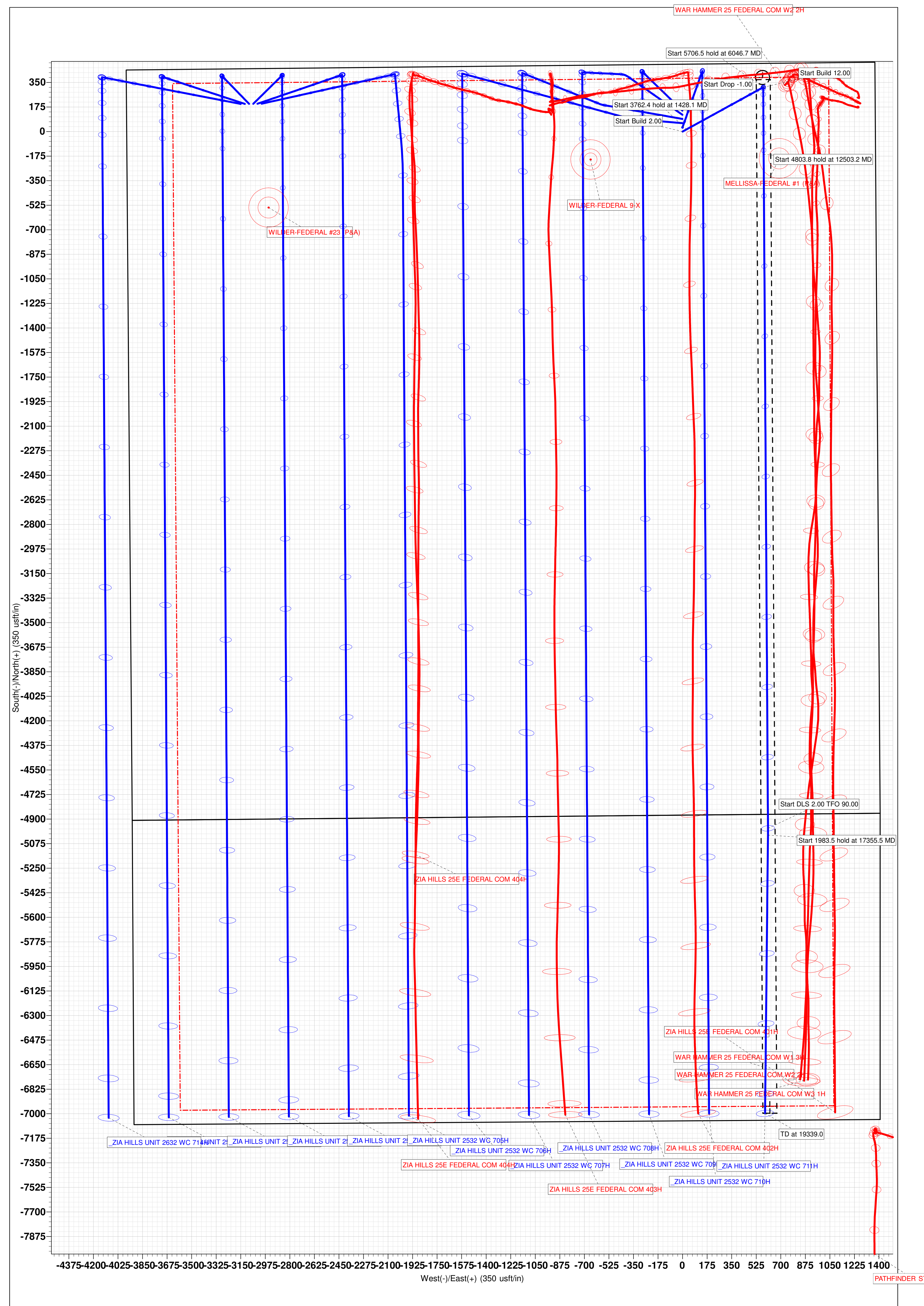
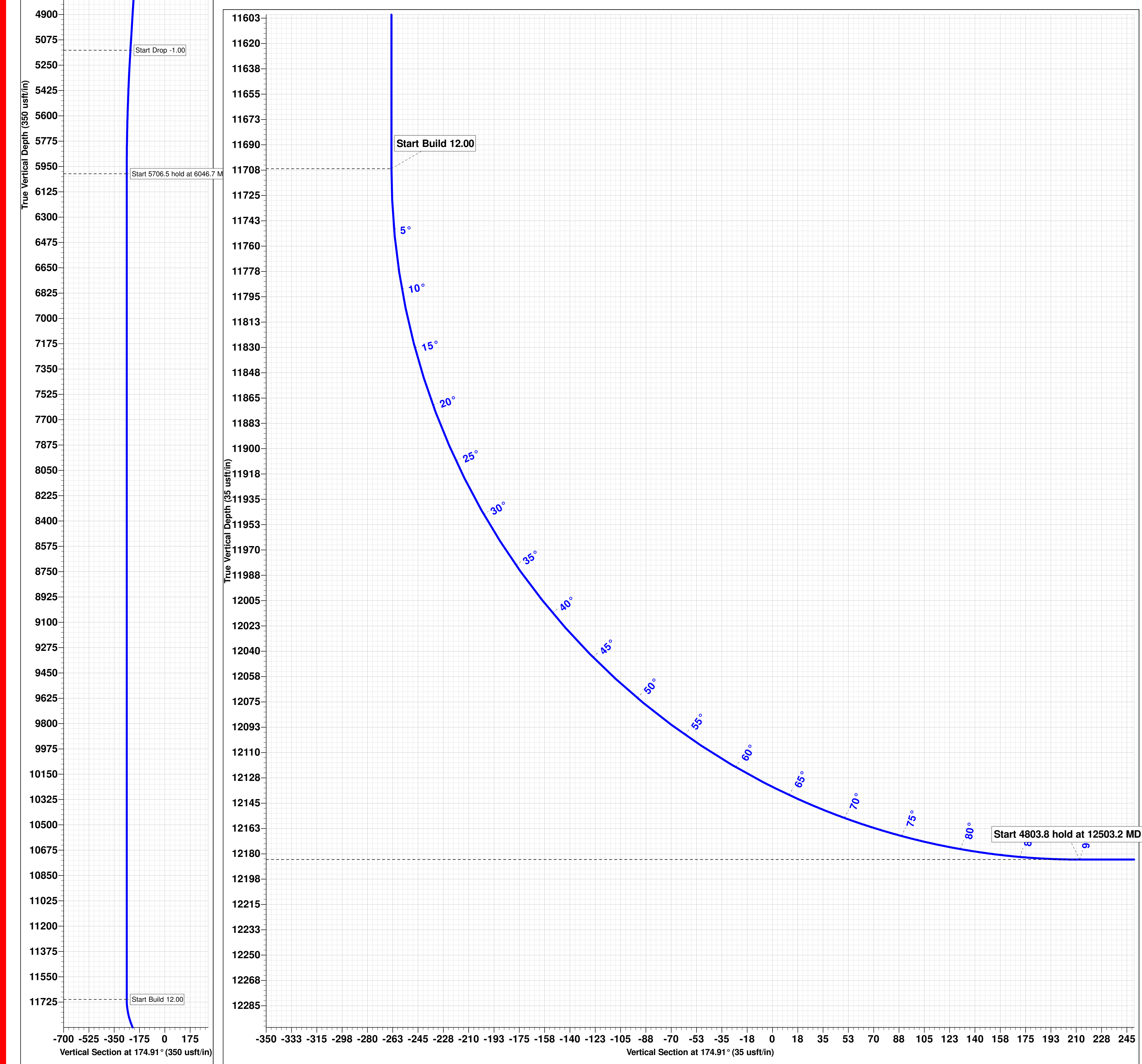
_ZIA HILLS UNIT 2532 WC 709H, OWB, PWP0 V0
_ZIA HILLS UNIT 2532 WC 710H, OWB, PWP0 V0
MELISSA FEDERAL #1 (P&A), OWB, AWP V0
WAR HAMMER 25 FEDERAL COM W1 3H, OWB, AWP V0
WAR HAMMER 25 FEDERAL COM W2 2H, OWB, AWP V0
WAR HAMMER 25 FEDERAL COM W2 2H, ST01, ST01 AWP V0
WAR HAMMER 25 FEDERAL COM W3 1H, OWB, AWP V0

WILDER-FEDERAL #15 (P&A), OWB, AWP V0
WILDER-FEDERAL 9X, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM001H, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM023H, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM039H, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM040H, OWB, AWP V0
ZIA HILLS 25E FEDERAL COM040H, ST01, ST01 AWP V0



Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2532 PROJECT
Well: ZIA HILLS UNIT 2532 WC 711H
Wellbore: OWB
Design: PWP0

SECTION DETAILS									
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
	1000.0	0.0	0.00	1000.0	0.0	0.0	0.00	0.00	0.0
	1428.1	8.56	61.24	1426.5	15.4	28.0	2.00	61.24	-12.8
	5190.5	8.56	61.24	5147.0	284.9	519.0	0.00	0.00	-237.8
	6046.7	0.00	0.00	6000.0	315.6	575.0	1.00	180.0	-263.4
	11753.2	0.00	0.00	11706.5	315.6	575.0	0.00	0.00	-263.4
	12503.2	90.00	179.63	12184.0	-161.9	578.1	12.00	179.63	212.5
	17307.0	90.00	179.63	12184.0	-4965.6	609.1	0.00	0.00	5000.0
	17355.5	90.00	180.60	12184.0	-5014.1	609.0	2.00	90.00	5048.3
	19339.0	90.00	180.60	12184.0	-6997.4	588.2	0.00	0.00	7022.0



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

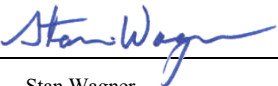
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

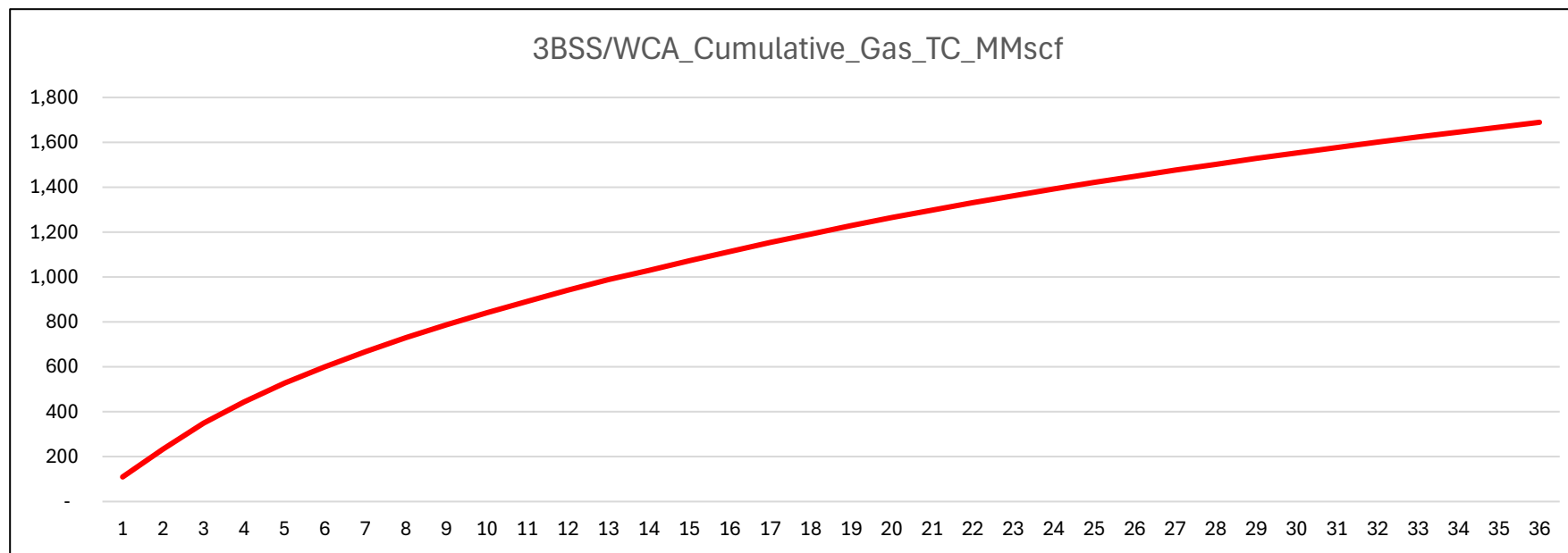
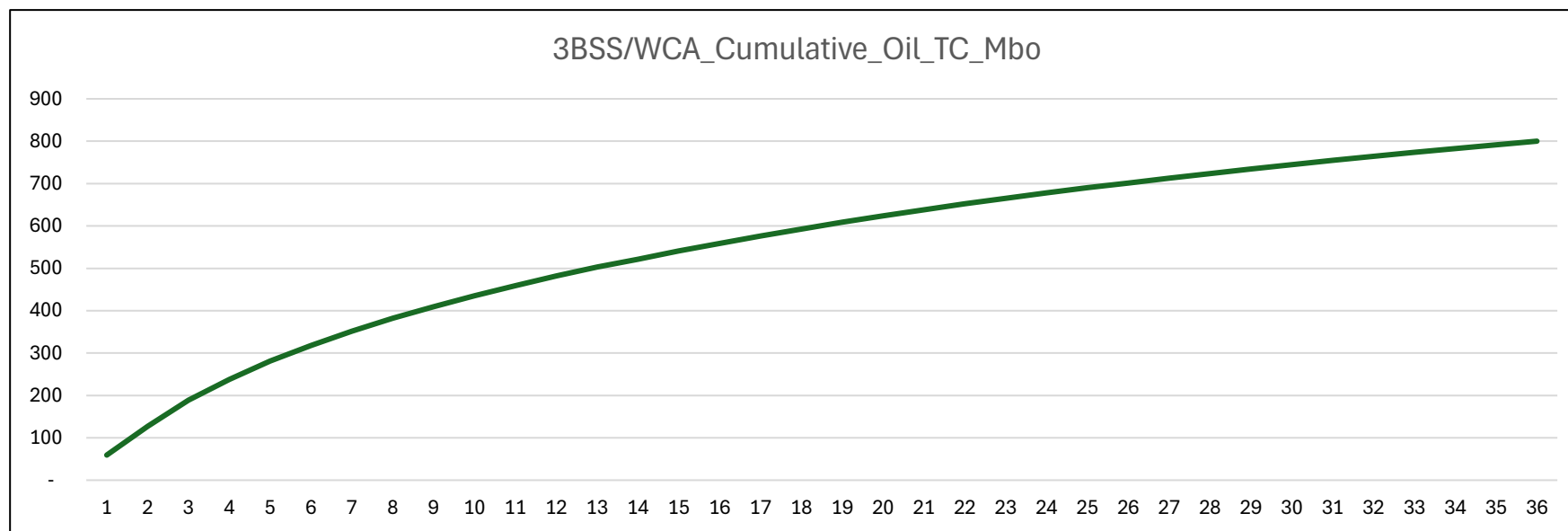
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize 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 711H
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/oed/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 464044

COMMENTS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 464044
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	R-20080	8/12/2025

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CONDITIONS

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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	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	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	Any string of casing where cement is not circulated requires a minimum of 200' of tieback into the previous casing string.	8/12/2025