

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. 30-025-54929
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 / 330 FNL / 1425 FEL / TWSP: 26S / RANGE: 32E / SECTION: 25 / LAT: 32.02003 / LONG: -103.624422 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 1660 FEL / TWSP: 26S / RANGE: 32E / SECTION: 25 / LAT: 32.020657 / LONG: -103.625181 (TVD: 12063 feet, MD: 12144 feet)

BHL: LOT 2 / 50 FSL / 1660 FEL / TWSP: 26S / RANGE: 32E / SECTION: 36 / LAT: 32.000373 / LONG: -103.625169 (TVD: 12184 feet, MD: 19442 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 30-025-54929	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 337697	Property Name ZIA HILLS UNIT 2532 WC	Well Number 709H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,136.25'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL B	Section 25	Township 26S	Range 32E	Lot	Ft. from N/S 330' FNL	Ft. from E/W 1,425' FEL	Latitude 32.020030°	Longitude -103.624422°	County LEA
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Bottom Hole Location

UL LOT 2	Section 36	Township 26S	Range 32E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 1,660' FEL	Latitude 32.000373°	Longitude -103.625169°	County LEA
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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 B	Section 25	Township 26S	Range 32E	Lot	Ft. from N/S 330' FNL	Ft. from E/W 1,425' FEL	Latitude 32.020030°	Longitude -103.624422°	County LEA
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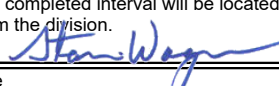
First Take Point (FTP)

UL B	Section 25	Township 26S	Range 32E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,660' FEL	Latitude 32.020657°	Longitude -103.625181°	County LEA
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Last Take Point (LTP)

UL LOT 2	Section 36	Township 26S	Range 32E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1,660' FEL	Latitude 32.000510°	Longitude -103.625169°	County LEA
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Unitized Area or Area of Uniform Interest Unit	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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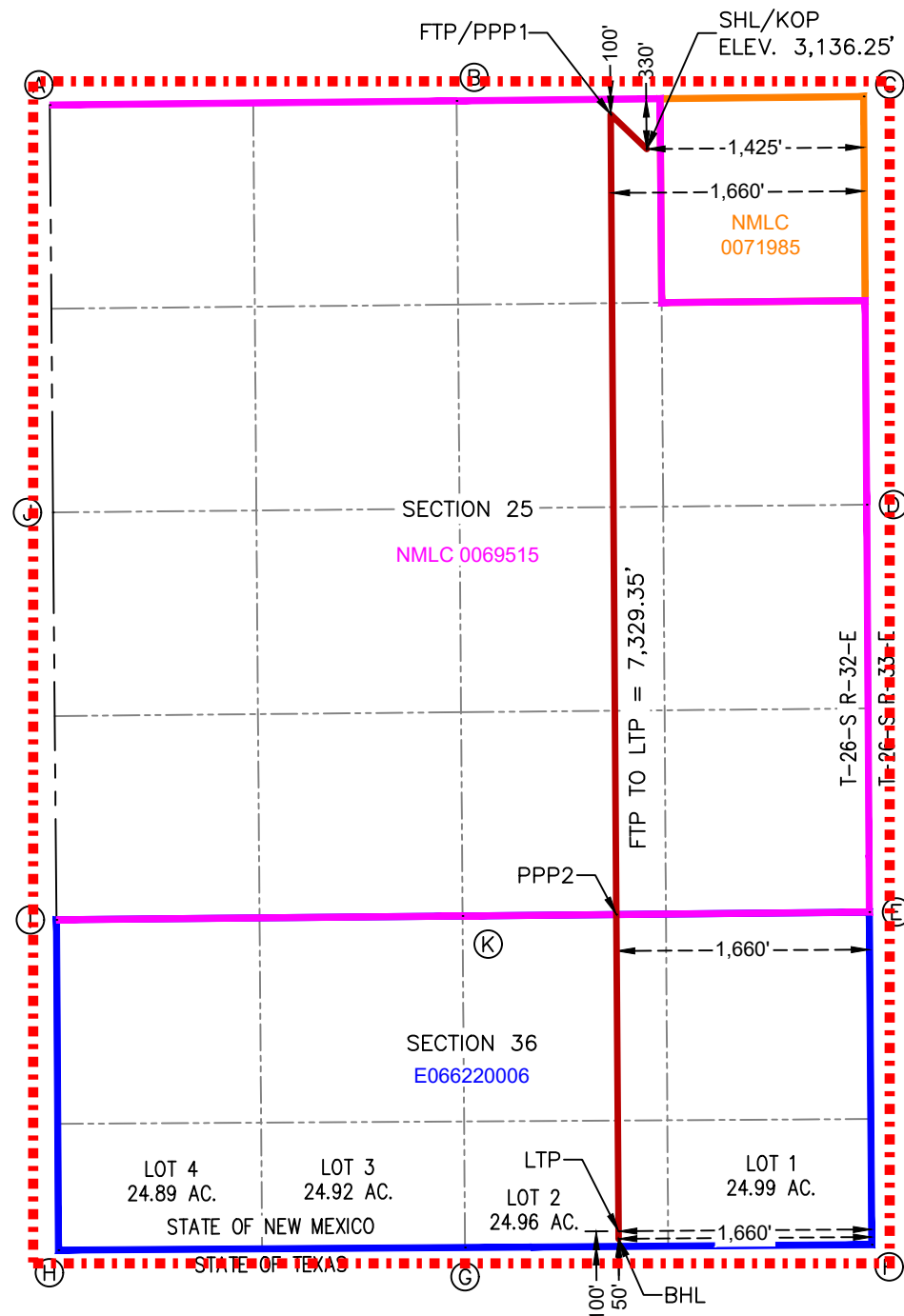
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  1/16/2025		SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  Date: 1/2/2025	
Signature Stan Wagner		Signature and Seal of Professional Surveyor	
Printed Name		Certificate Number 12177	Date of Survey 1/2/2025
Email Address			

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

ACREAGE DEDICATION PLATS

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

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



**SURFACE HOLE LOCATION
& KICK-OFF POINT**
330' FNL & 1,425' FEL
ELEV. = 3,136.25'

NAD 83 X = 761,046.17'
NAD 83 Y = 371,746.47'
NAD 83 LAT = 32.020030°
NAD 83 LONG = -103.624422°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 1,660' FEL

NAD 83 X = 760,809.52'
NAD 83 Y = 371,973.21'
NAD 83 LAT = 32.020657°
NAD 83 LONG = -103.625181°

PENETRATION POINT 2
0' FNL & 1,660' FEL

NAD 83 X = 760,846.43'
NAD 83 Y = 366,722.56'
NAD 83 LAT = 32.006224°
NAD 83 LONG = -103.625173°

LAST TAKE POINT
100' FSL & 1,660' FEL

NAD 83 X = 760,861.36'
NAD 83 Y = 364,644.05'
NAD 83 LAT = 32.000510°
NAD 83 LONG = -103.625169°

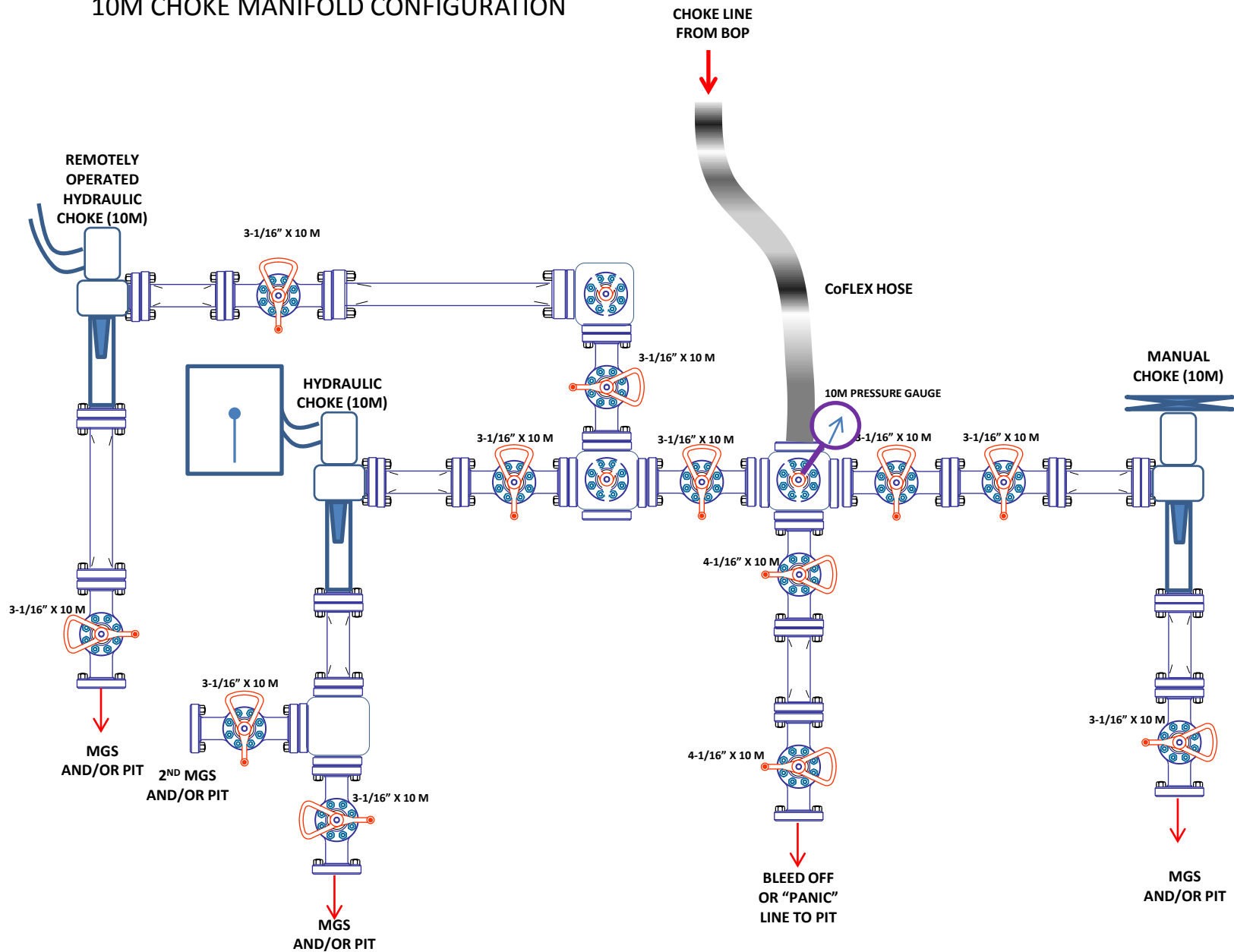
BOTTOM HOLE LOCATION
50' FSL & 1,660' FEL

NAD 83 X = 760,861.71'
NAD 83 Y = 364,594.05'
NAD 83 LAT = 32.000373°
NAD 83 LONG = -103.625169°

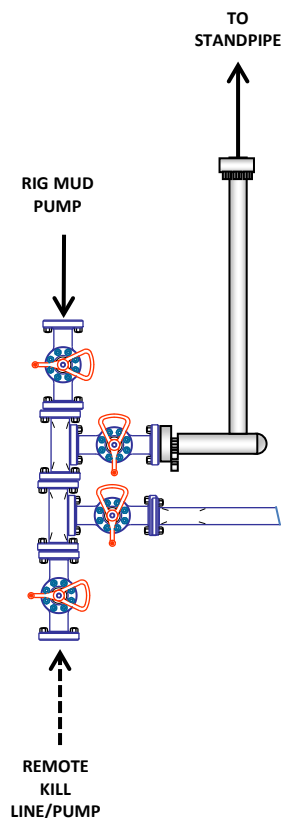
**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

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'		

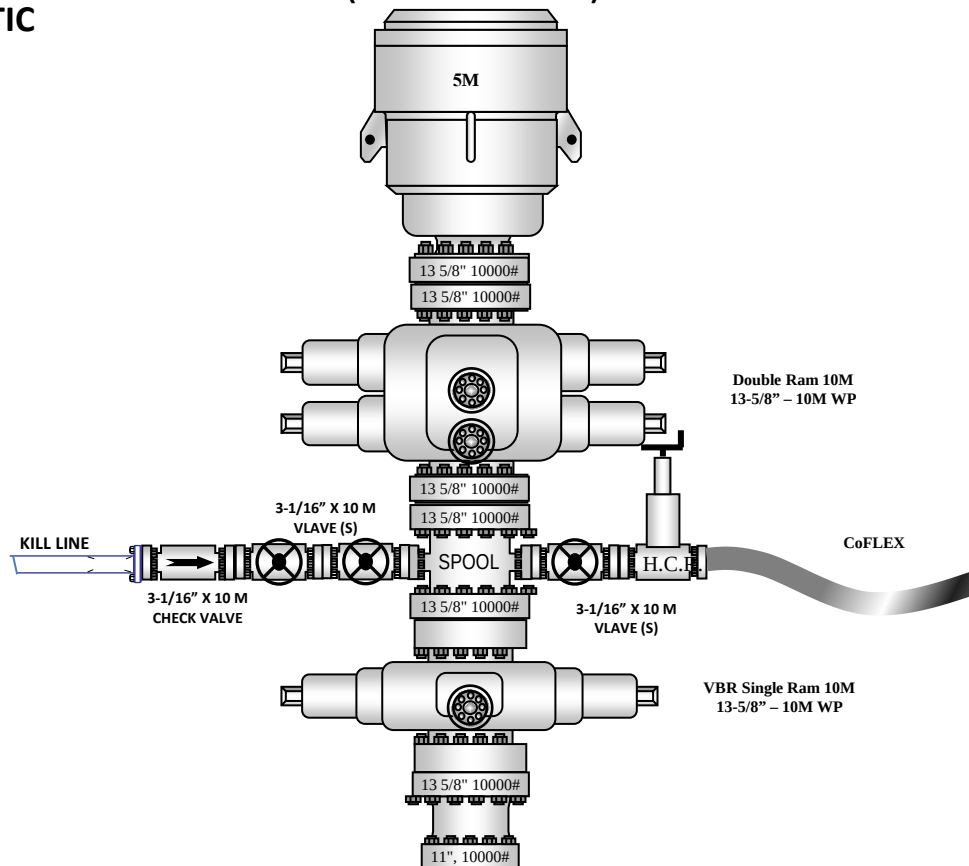
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)





TenarisHydril Wedge 441®



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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.900 in.	Tension Efficiency	90.80 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	662 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.670 in.	Internal Pressure Capacity	14,530 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	90.80 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	662 x1000 lb	Operating Torque	33,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	83.54 °/100 ft	Yield Torque	39,000 ft-lb
		External Pressure Capacity	14,540 psi	Buck-On	
		Coupling Face Load	172,000 lb	Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

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

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

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ConocoPhillips Company - Zia Hills Unit 2532 WC #709H

1. Geologic Formations

TVD of target	12,184' EOL	Pilot hole depth	NA
MD at TD:	19,443'	Deepest expected fresh water:	300'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	506	Water	
Top of Salt	891	Salt	
Base of Salt	4252	Salt	
Lamar	4483	Salt Water	
Bell Canyon	4485	Salt Water	
Cherry Canyon	5670	Oil/Gas	
Brushy Canyon	7357	Oil/Gas	
Bone Spring	8632	Oil/Gas	
1st Bone Spring Sand	9804	Oil/Gas	
2nd Bone Spring Sand	10469	Oil/Gas	
3rd Bone Spring Sand	11560	Oil/Gas	
Wolfcamp	11974	Oil/Gas	
Wolfcamp A	12194	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	19,443	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	4390	9.625"	40	L80-IC	BTC	1.88	1.40	5.22	5.39
8.75"	4190	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	19,443	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 #709H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 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 #709H

3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	360	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	850	10.3	3.3	22	24	Halliburton tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	720	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	610	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,100'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	450	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	640	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
	610	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	4,190'	20%
Production	11,350'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2532 WC #709H

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 #709H

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 #709H**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

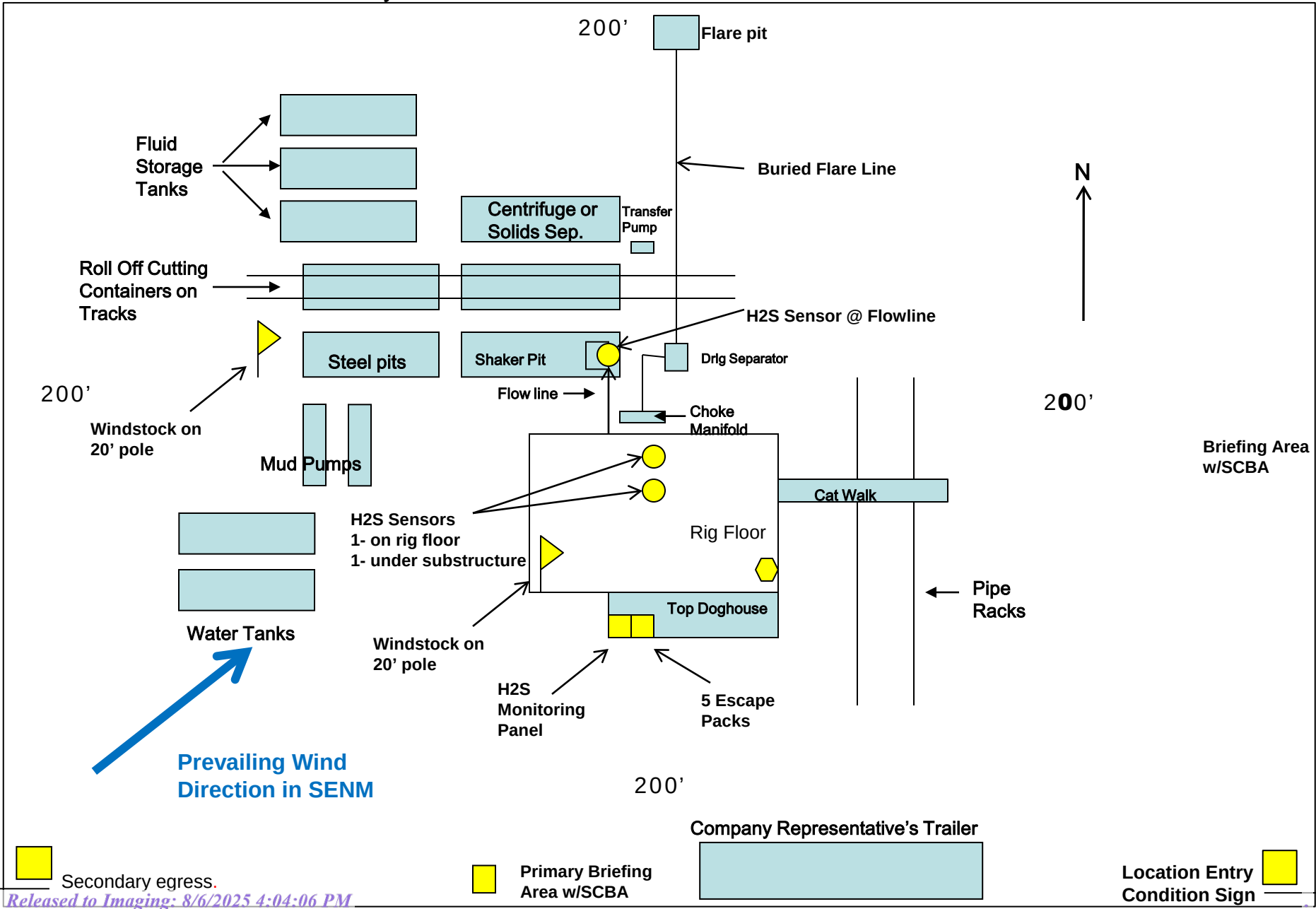
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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 709H - Slot ZIA HILLS UNIT 2532
WC 709**

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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 709H - Slot ZIA HILLS UNIT 2532 WC 709					
Well Position	+N/-S	0.0 usft	Northing:	371,689.74 usft	Latitude:	32° 1' 11.656 N
	+E/-W	0.0 usft	Easting:	719,908.61 usft	Longitude:	103° 37' 25.656 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	47,160.26896877

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	181.90

Plan Survey Tool Program	Date	7/18/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,442.8 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1 rev.5	

ConocoPhillips
Planning Report

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Site:	ZIA HILLS UNIT 2532 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2532 WC 709H	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	
1,586.0	11.72	314.12	1,582.0	41.6	-42.9	2.00	2.00	0.00	314.12	
2,662.6	11.72	314.12	2,636.1	193.8	-199.9	0.00	0.00	0.00	0.00	
3,834.7	0.00	0.00	3,800.0	277.0	-285.6	1.00	-1.00	0.00	180.00	
11,741.2	0.00	0.00	11,706.5	277.0	-285.6	0.00	0.00	0.00	0.00	
12,491.2	90.00	179.63	12,184.0	-200.5	-282.6	12.00	12.00	23.95	179.63	
19,442.8	90.00	179.63	12,184.0	-7,152.0	-237.6	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

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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 709H	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	314.12	1,100.0	1.2	-1.3	-1.2	2.00	2.00	0.00	
1,200.0	4.00	314.12	1,199.8	4.9	-5.0	-4.7	2.00	2.00	0.00	
1,300.0	6.00	314.12	1,299.5	10.9	-11.3	-10.5	2.00	2.00	0.00	
1,400.0	8.00	314.12	1,398.7	19.4	-20.0	-18.7	2.00	2.00	0.00	
1,500.0	10.00	314.12	1,497.5	30.3	-31.2	-29.2	2.00	2.00	0.00	
1,586.0	11.72	314.12	1,582.0	41.6	-42.9	-40.1	2.00	2.00	0.00	
1,600.0	11.72	314.12	1,595.6	43.6	-44.9	-42.0	0.00	0.00	0.00	
1,700.0	11.72	314.12	1,693.5	57.7	-59.5	-55.7	0.00	0.00	0.00	
1,800.0	11.72	314.12	1,791.5	71.8	-74.1	-69.3	0.00	0.00	0.00	
1,900.0	11.72	314.12	1,889.4	86.0	-88.7	-83.0	0.00	0.00	0.00	
2,000.0	11.72	314.12	1,987.3	100.1	-103.3	-96.6	0.00	0.00	0.00	
2,100.0	11.72	314.12	2,085.2	114.3	-117.8	-110.3	0.00	0.00	0.00	
2,200.0	11.72	314.12	2,183.1	128.4	-132.4	-123.9	0.00	0.00	0.00	
2,300.0	11.72	314.12	2,281.0	142.6	-147.0	-137.6	0.00	0.00	0.00	
2,400.0	11.72	314.12	2,378.9	156.7	-161.6	-151.2	0.00	0.00	0.00	
2,500.0	11.72	314.12	2,476.9	170.8	-176.2	-164.9	0.00	0.00	0.00	
2,600.0	11.72	314.12	2,574.8	185.0	-190.8	-178.5	0.00	0.00	0.00	
2,662.6	11.72	314.12	2,636.1	193.8	-199.9	-187.1	0.00	0.00	0.00	
2,700.0	11.35	314.12	2,672.7	199.0	-205.3	-192.1	1.00	-1.00	0.00	
2,800.0	10.35	314.12	2,770.9	212.1	-218.8	-204.8	1.00	-1.00	0.00	
2,900.0	9.35	314.12	2,869.5	224.0	-231.0	-216.2	1.00	-1.00	0.00	
3,000.0	8.35	314.12	2,968.3	234.7	-242.1	-226.6	1.00	-1.00	0.00	
3,100.0	7.35	314.12	3,067.3	244.3	-251.9	-235.8	1.00	-1.00	0.00	
3,200.0	6.35	314.12	3,166.6	252.6	-260.4	-243.8	1.00	-1.00	0.00	
3,300.0	5.35	314.12	3,266.1	259.6	-267.7	-250.6	1.00	-1.00	0.00	
3,400.0	4.35	314.12	3,365.7	265.5	-273.8	-256.3	1.00	-1.00	0.00	
3,500.0	3.35	314.12	3,465.5	270.2	-278.6	-260.8	1.00	-1.00	0.00	
3,600.0	2.35	314.12	3,565.4	273.7	-282.2	-264.1	1.00	-1.00	0.00	
3,700.0	1.35	314.12	3,665.3	275.9	-284.5	-266.3	1.00	-1.00	0.00	
3,800.0	0.35	314.12	3,765.3	276.9	-285.6	-267.3	1.00	-1.00	0.00	
3,834.7	0.00	0.00	3,800.0	277.0	-285.6	-267.4	1.00	-1.00	0.00	
3,900.0	0.00	0.00	3,865.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,000.0	0.00	0.00	3,965.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,065.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,165.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,265.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,365.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,465.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,565.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,665.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,765.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,865.3	277.0	-285.6	-267.4	0.00	0.00	0.00	

ConocoPhillips
Planning Report

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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 709H	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)	
5,000.0	0.00	0.00	4,965.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,065.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,165.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,265.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,365.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,465.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,565.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,665.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,765.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,865.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,965.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,065.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,165.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,265.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,365.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,465.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,565.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,665.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,765.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,865.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,965.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,065.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,165.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,265.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,365.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,465.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,565.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,665.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,765.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,865.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,965.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,065.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,165.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,265.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,365.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,465.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,565.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,665.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,765.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,865.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,965.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,065.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,165.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,265.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,365.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,465.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,565.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,665.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,765.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,865.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,965.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,065.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,165.3	277.0	-285.6	-267.4	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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	10,265.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,365.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,465.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,565.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,665.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,765.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,865.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,965.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,065.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,165.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,265.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,365.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,465.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,565.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,665.3	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,741.2	0.00	0.00	11,706.5	277.0	-285.6	-267.4	0.00	0.00	0.00	
11,750.0	1.06	179.63	11,715.3	276.9	-285.6	-267.3	12.00	12.00	0.00	
11,775.0	4.06	179.63	11,740.3	275.8	-285.6	-266.2	12.00	12.00	0.00	
11,800.0	7.06	179.63	11,765.2	273.4	-285.6	-263.7	12.00	12.00	0.00	
11,825.0	10.06	179.63	11,789.9	269.7	-285.6	-260.0	12.00	12.00	0.00	
11,850.0	13.06	179.63	11,814.4	264.7	-285.6	-255.0	12.00	12.00	0.00	
11,875.0	16.06	179.63	11,838.6	258.4	-285.5	-248.7	12.00	12.00	0.00	
11,900.0	19.06	179.63	11,862.4	250.8	-285.5	-241.2	12.00	12.00	0.00	
11,925.0	22.06	179.63	11,885.8	242.1	-285.4	-232.4	12.00	12.00	0.00	
11,950.0	25.06	179.63	11,908.7	232.1	-285.4	-222.5	12.00	12.00	0.00	
11,975.0	28.06	179.63	11,931.1	220.9	-285.3	-211.3	12.00	12.00	0.00	
12,000.0	31.06	179.63	11,952.8	208.6	-285.2	-199.0	12.00	12.00	0.00	
12,025.0	34.06	179.63	11,973.9	195.1	-285.1	-185.5	12.00	12.00	0.00	
12,050.0	37.06	179.63	11,994.2	180.6	-285.0	-171.0	12.00	12.00	0.00	
12,075.0	40.06	179.63	12,013.8	165.0	-284.9	-155.4	12.00	12.00	0.00	
12,100.0	43.06	179.63	12,032.5	148.4	-284.8	-138.9	12.00	12.00	0.00	
12,125.0	46.06	179.63	12,050.3	130.9	-284.7	-121.3	12.00	12.00	0.00	
12,150.0	49.06	179.63	12,067.2	112.4	-284.6	-102.9	12.00	12.00	0.00	
12,175.0	52.06	179.63	12,083.0	93.1	-284.5	-83.6	12.00	12.00	0.00	
12,200.0	55.06	179.63	12,097.9	73.0	-284.3	-63.5	12.00	12.00	0.00	
12,225.0	58.06	179.63	12,111.7	52.1	-284.2	-42.7	12.00	12.00	0.00	
12,250.0	61.06	179.63	12,124.3	30.6	-284.1	-21.1	12.00	12.00	0.00	
12,275.0	64.06	179.63	12,135.9	8.4	-283.9	1.0	12.00	12.00	0.00	
12,300.0	67.06	179.63	12,146.2	-14.3	-283.8	23.8	12.00	12.00	0.00	
12,325.0	70.06	179.63	12,155.3	-37.6	-283.6	47.0	12.00	12.00	0.00	
12,350.0	73.06	179.63	12,163.2	-61.3	-283.5	70.7	12.00	12.00	0.00	
12,375.0	76.06	179.63	12,169.9	-85.4	-283.3	94.8	12.00	12.00	0.00	
12,400.0	79.06	179.63	12,175.3	-109.8	-283.1	119.2	12.00	12.00	0.00	
12,425.0	82.06	179.63	12,179.4	-134.5	-283.0	143.8	12.00	12.00	0.00	
12,450.0	85.06	179.63	12,182.2	-159.3	-282.8	168.6	12.00	12.00	0.00	
12,475.0	88.06	179.63	12,183.7	-184.3	-282.7	193.6	12.00	12.00	0.00	
12,491.2	90.00	179.63	12,184.0	-200.5	-282.6	209.7	12.00	12.00	0.00	
12,500.0	90.00	179.63	12,184.0	-209.3	-282.5	218.5	0.00	0.00	0.00	
12,600.0	90.00	179.63	12,184.0	-309.3	-281.9	318.5	0.00	0.00	0.00	
12,700.0	90.00	179.63	12,184.0	-409.3	-281.2	418.4	0.00	0.00	0.00	
12,800.0	90.00	179.63	12,184.0	-509.3	-280.6	518.3	0.00	0.00	0.00	
12,900.0	90.00	179.63	12,184.0	-609.3	-279.9	618.2	0.00	0.00	0.00	
13,000.0	90.00	179.63	12,184.0	-709.3	-279.3	718.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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)	
13,100.0	90.00	179.63	12,184.0	-809.3	-278.6	818.1	0.00	0.00	0.00	
13,200.0	90.00	179.63	12,184.0	-909.3	-278.0	918.0	0.00	0.00	0.00	
13,300.0	90.00	179.63	12,184.0	-1,009.3	-277.3	1,017.9	0.00	0.00	0.00	
13,400.0	90.00	179.63	12,184.0	-1,109.3	-276.7	1,117.8	0.00	0.00	0.00	
13,500.0	90.00	179.63	12,184.0	-1,209.2	-276.0	1,217.7	0.00	0.00	0.00	
13,600.0	90.00	179.63	12,184.0	-1,309.2	-275.4	1,317.7	0.00	0.00	0.00	
13,700.0	90.00	179.63	12,184.0	-1,409.2	-274.7	1,417.6	0.00	0.00	0.00	
13,800.0	90.00	179.63	12,184.0	-1,509.2	-274.1	1,517.5	0.00	0.00	0.00	
13,900.0	90.00	179.63	12,184.0	-1,609.2	-273.5	1,617.4	0.00	0.00	0.00	
14,000.0	90.00	179.63	12,184.0	-1,709.2	-272.8	1,717.4	0.00	0.00	0.00	
14,100.0	90.00	179.63	12,184.0	-1,809.2	-272.2	1,817.3	0.00	0.00	0.00	
14,200.0	90.00	179.63	12,184.0	-1,909.2	-271.5	1,917.2	0.00	0.00	0.00	
14,300.0	90.00	179.63	12,184.0	-2,009.2	-270.9	2,017.1	0.00	0.00	0.00	
14,400.0	90.00	179.63	12,184.0	-2,109.2	-270.2	2,117.0	0.00	0.00	0.00	
14,500.0	90.00	179.63	12,184.0	-2,209.2	-269.6	2,217.0	0.00	0.00	0.00	
14,600.0	90.00	179.63	12,184.0	-2,309.2	-268.9	2,316.9	0.00	0.00	0.00	
14,700.0	90.00	179.63	12,184.0	-2,409.2	-268.3	2,416.8	0.00	0.00	0.00	
14,800.0	90.00	179.63	12,184.0	-2,509.2	-267.6	2,516.7	0.00	0.00	0.00	
14,900.0	90.00	179.63	12,184.0	-2,609.2	-267.0	2,616.6	0.00	0.00	0.00	
15,000.0	90.00	179.63	12,184.0	-2,709.2	-266.3	2,716.6	0.00	0.00	0.00	
15,100.0	90.00	179.63	12,184.0	-2,809.2	-265.7	2,816.5	0.00	0.00	0.00	
15,200.0	90.00	179.63	12,184.0	-2,909.2	-265.0	2,916.4	0.00	0.00	0.00	
15,300.0	90.00	179.63	12,184.0	-3,009.2	-264.4	3,016.3	0.00	0.00	0.00	
15,400.0	90.00	179.63	12,184.0	-3,109.2	-263.8	3,116.3	0.00	0.00	0.00	
15,500.0	90.00	179.63	12,184.0	-3,209.2	-263.1	3,216.2	0.00	0.00	0.00	
15,600.0	90.00	179.63	12,184.0	-3,309.2	-262.5	3,316.1	0.00	0.00	0.00	
15,700.0	90.00	179.63	12,184.0	-3,409.2	-261.8	3,416.0	0.00	0.00	0.00	
15,800.0	90.00	179.63	12,184.0	-3,509.2	-261.2	3,515.9	0.00	0.00	0.00	
15,900.0	90.00	179.63	12,184.0	-3,609.2	-260.5	3,615.9	0.00	0.00	0.00	
16,000.0	90.00	179.63	12,184.0	-3,709.2	-259.9	3,715.8	0.00	0.00	0.00	
16,100.0	90.00	179.63	12,184.0	-3,809.2	-259.2	3,815.7	0.00	0.00	0.00	
16,200.0	90.00	179.63	12,184.0	-3,909.2	-258.6	3,915.6	0.00	0.00	0.00	
16,300.0	90.00	179.63	12,184.0	-4,009.2	-257.9	4,015.5	0.00	0.00	0.00	
16,400.0	90.00	179.63	12,184.0	-4,109.2	-257.3	4,115.5	0.00	0.00	0.00	
16,500.0	90.00	179.63	12,184.0	-4,209.2	-256.6	4,215.4	0.00	0.00	0.00	
16,600.0	90.00	179.63	12,184.0	-4,309.2	-256.0	4,315.3	0.00	0.00	0.00	
16,700.0	90.00	179.63	12,184.0	-4,409.2	-255.3	4,415.2	0.00	0.00	0.00	
16,800.0	90.00	179.63	12,184.0	-4,509.2	-254.7	4,515.2	0.00	0.00	0.00	
16,900.0	90.00	179.63	12,184.0	-4,609.2	-254.1	4,615.1	0.00	0.00	0.00	
17,000.0	90.00	179.63	12,184.0	-4,709.2	-253.4	4,715.0	0.00	0.00	0.00	
17,100.0	90.00	179.63	12,184.0	-4,809.2	-252.8	4,814.9	0.00	0.00	0.00	
17,200.0	90.00	179.63	12,184.0	-4,909.2	-252.1	4,914.8	0.00	0.00	0.00	
17,300.0	90.00	179.63	12,184.0	-5,009.2	-251.5	5,014.8	0.00	0.00	0.00	
17,400.0	90.00	179.63	12,184.0	-5,109.2	-250.8	5,114.7	0.00	0.00	0.00	
17,500.0	90.00	179.63	12,184.0	-5,209.2	-250.2	5,214.6	0.00	0.00	0.00	
17,600.0	90.00	179.63	12,184.0	-5,309.2	-249.5	5,314.5	0.00	0.00	0.00	
17,700.0	90.00	179.63	12,184.0	-5,409.2	-248.9	5,414.4	0.00	0.00	0.00	
17,800.0	90.00	179.63	12,184.0	-5,509.2	-248.2	5,514.4	0.00	0.00	0.00	
17,900.0	90.00	179.63	12,184.0	-5,609.2	-247.6	5,614.3	0.00	0.00	0.00	
18,000.0	90.00	179.63	12,184.0	-5,709.2	-246.9	5,714.2	0.00	0.00	0.00	
18,100.0	90.00	179.63	12,184.0	-5,809.2	-246.3	5,814.1	0.00	0.00	0.00	
18,200.0	90.00	179.63	12,184.0	-5,909.2	-245.7	5,914.0	0.00	0.00	0.00	
18,300.0	90.00	179.63	12,184.0	-6,009.1	-245.0	6,014.0	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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	179.63	12,184.0	-6,109.1	-244.4	6,113.9	0.00	0.00	0.00	
18,500.0	90.00	179.63	12,184.0	-6,209.1	-243.7	6,213.8	0.00	0.00	0.00	
18,600.0	90.00	179.63	12,184.0	-6,309.1	-243.1	6,313.7	0.00	0.00	0.00	
18,700.0	90.00	179.63	12,184.0	-6,409.1	-242.4	6,413.7	0.00	0.00	0.00	
18,800.0	90.00	179.63	12,184.0	-6,509.1	-241.8	6,513.6	0.00	0.00	0.00	
18,900.0	90.00	179.63	12,184.0	-6,609.1	-241.1	6,613.5	0.00	0.00	0.00	
19,000.0	90.00	179.63	12,184.0	-6,709.1	-240.5	6,713.4	0.00	0.00	0.00	
19,100.0	90.00	179.63	12,184.0	-6,809.1	-239.8	6,813.3	0.00	0.00	0.00	
19,200.0	90.00	179.63	12,184.0	-6,909.1	-239.2	6,913.3	0.00	0.00	0.00	
19,300.0	90.00	179.63	12,184.0	-7,009.1	-238.5	7,013.2	0.00	0.00	0.00	
19,400.0	90.00	179.63	12,184.0	-7,109.1	-237.9	7,113.1	0.00	0.00	0.00	
19,442.8	90.00	179.63	12,184.0	-7,152.0	-237.6	7,155.9	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP (ZIA HILLS UNIT 2532 WC 709H) - hit/miss target - Shape - plan misses target center by 0.3usft at 19392.8usft MD (12184.0 TVD, -7102.0 N, -237.9 E) - Circle (radius 50.0)	90.00	179.63	12,184.0	-7,102.0	-237.7	364,587.79	719,670.92	32° 0' 1.391 N	103° 37' 28.957 W	
FTP (ZIA HILLS UNIT 2532 WC 709H) - plan misses target center by 163.4usft at 12144.3usft MD (12063.4 TVD, 116.7 N, -284.6 E) - Circle (radius 50.0)	0.00	0.00	12,184.0	227.0	-285.6	371,916.70	719,622.97	32° 1' 13.921 N	103° 37' 28.956 W	
PBHL (ZIA HILLS UNIT 2532 WC 709H) - plan hits target center - Rectangle (sides W100.0 H7,367.0 D20.0)	0.00	359.63	12,184.0	-7,152.0	-237.6	364,537.79	719,671.00	32° 0' 0.896 N	103° 37' 28.960 W	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
19,442.9	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 709H

OWB

PWP0

Anticollision Report

18 July, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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	19,442.8	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

Summary						
	Reference Measured	Offset Measured	Distance		Separation	Warning
Site Name	Depth	Depth	Between Centres	Between Ellipses	Factor	
Offset Well - Wellbore - Design	(usft)	(usft)	(usft)	(usft)		
RED HILLS WEST						
SD WE 24 FEDERAL P24 7H - OWB - AWP	1,579.8	1,585.6	552.1	535.6	33.366 CC	
SD WE 24 FEDERAL P24 7H - OWB - AWP	1,600.0	1,604.5	552.1	535.5	33.270 ES	
SD WE 24 FEDERAL P24 7H - OWB - AWP	3,400.0	3,315.1	800.9	774.6	30.467 SF	
SD WE 24 FEDERAL P24 5H - OWB - AWP	4,021.1	4,057.9	202.5	174.5	7.235 CC	
SD WE 24 FEDERAL P24 5H - OWB - AWP	4,100.0	4,136.6	202.9	174.2	7.081 ES	
SD WE 24 FEDERAL P24 5H - OWB - AWP	4,800.0	4,835.0	221.0	186.4	6.402 SF	
SD WE 24 FEDERAL P24 6H - OWB - AWP	2,900.0	2,927.0	393.1	371.3	17.987 CC	
SD WE 24 FEDERAL P24 6H - OWB - AWP	8,573.3	8,581.0	406.1	369.3	11.059 ES	
SD WE 24 FEDERAL P24 6H - OWB - AWP	8,600.0	8,600.2	406.2	369.5	11.054 SF	
ZIA HILLS UNIT 2532 PROJECT						
_ZIA HILLS UNIT 2532 WC 701H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 702H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 703H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 704H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 705H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0	1,000.0	1,000.0	89.7	81.5	10.965 CC, ES	
_ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0	1,200.0	1,200.5	94.0	84.9	10.382 SF	
_ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0	1,000.0	1,000.0	59.7	51.5	7.299 CC, ES	
_ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0	19,442.8	19,524.2	855.8	707.9	5.785 SF	
_ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0	1,000.0	1,000.0	29.8	21.7	3.646 CC	
_ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0	1,100.0	1,100.6	30.0	21.4	3.466 ES	
_ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0	1,300.0	1,301.8	31.7	22.2	3.312 SF	
_ZIA HILLS UNIT 2532 WC 710H - OWB - PWP0	1,000.0	1,000.0	119.7	111.5	14.631 CC, ES	
_ZIA HILLS UNIT 2532 WC 710H - OWB - PWP0	19,442.8	19,628.7	465.6	323.6	3.279 SF	
_ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0	1,000.0	1,000.0	149.7	141.5	18.298 CC	
_ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0	1,100.0	1,102.4	150.1	141.5	17.333 ES	
_ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0	19,442.8	19,339.0	827.4	693.4	6.173 SF	
_ZIA HILLS UNIT 2632 WC 714H - OWB - PWP0						Out of range
MELLISSA-FEDERAL #1 (P&A) - OWB - AWP	745.7	749.9	768.4	735.9	23.655 CC	
MELLISSA-FEDERAL #1 (P&A) - OWB - AWP	1,100.0	1,104.5	771.5	724.3	16.324 ES	
MELLISSA-FEDERAL #1 (P&A) - OWB - AWP	2,400.0	2,381.9	986.2	885.2	9.766 SF	
WAR HAMMER 25 FEDERAL COM W1 3H - OWB - AW						Out of range
WAR HAMMER 25 FEDERAL COM W2 2H - OWB - AW						Out of range

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2532 PROJECT						
WAR HAMMER 25 FEDERAL COM W2 2H - ST01 - ST0						Out of range
WAR HAMMER 25 FEDERAL COM W3 1H - OWB - AW						Out of range
WILDER-FEDERAL #15 (P&A) - OWB - AWP	3,152.5	3,120.0	717.9	706.2	61.601 CC	
WILDER-FEDERAL #15 (P&A) - OWB - AWP	4,700.0	4,651.1	726.1	660.1	10.994 ES	
WILDER-FEDERAL #15 (P&A) - OWB - AWP	4,800.0	4,675.0	730.1	663.4	10.949 SF	
WILDER-FEDERAL #23 (P&A) - OWB - AWP						Out of range
WILDER-FEDERAL 9-X - OWB - AWP	2,374.2	2,348.2	705.2	606.0	7.106 CC	
WILDER-FEDERAL 9-X - OWB - AWP	4,700.0	4,663.2	726.1	529.9	3.701 ES, SF	
ZIA HILLS 25E FEDERAL COM 401H - OWB - AWP	3,990.4	4,063.6	123.8	78.2	2.714 Normal Operations, CC	
ZIA HILLS 25E FEDERAL COM 401H - OWB - AWP	4,000.0	4,072.8	123.8	78.1	2.709 Normal Operations, ES, SF	
ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP	6,670.9	6,713.9	73.8	42.1	2.328 Caution - Monitor Closely, CC	
ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP	6,700.0	6,742.5	74.0	42.0	2.314 Caution - Monitor Closely, ES	
ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP	6,800.0	6,841.4	76.1	43.0	2.297 Caution - Monitor Closely, SF	
ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP	10,164.7	10,175.8	642.8	611.7	20.693 CC, ES	
ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP	10,200.0	10,190.0	643.3	612.2	20.682 SF	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	1,896.7	1,791.1	930.2	914.9	60.527 CC	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	2,964.0	2,892.3	935.3	914.0	43.923 ES	
ZIA HILLS 25E FEDERAL COM 404H - OWB - AWP	3,900.0	3,764.1	999.1	972.9	38.196 SF	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	1,896.7	1,791.1	930.2	914.9	60.527 CC	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	2,964.0	2,892.3	935.3	914.0	43.923 ES	
ZIA HILLS 25E FEDERAL COM 404H - ST01 - ST01 AW	3,900.0	3,764.1	999.1	972.9	38.196 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 Measured Depth (usft)	Vertical Depth (usft)	Offset 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	35.9	35.9	0.0	3.0	19.30	532.3	186.4	563.9	559.3	4.66	120.901		
100.0	100.0	132.5	132.5	1.2	3.3	19.31	532.5	186.6	564.3	558.9	5.35	105.380		
200.0	200.0	233.1	233.1	1.7	3.9	19.33	533.1	187.0	565.0	558.6	6.37	88.719		
300.0	300.0	335.9	335.9	2.1	4.6	19.36	533.3	187.4	565.2	557.8	7.47	75.621		
400.0	400.0	438.4	438.4	2.4	5.4	19.40	532.9	187.6	565.0	556.3	8.67	65.156		
500.0	500.0	540.7	540.7	2.7	6.2	19.44	532.2	187.9	564.4	554.5	9.93	56.834		
600.0	600.0	643.0	643.0	3.0	7.1	19.50	531.0	188.1	563.3	552.1	11.22	50.208		
700.0	700.0	742.7	742.7	3.2	7.3	19.57	529.7	188.3	562.2	550.7	11.53	48.746		
800.0	800.0	844.7	844.6	3.5	7.6	19.63	528.2	188.4	560.8	548.8	12.05	46.530		
900.0	900.0	945.4	945.3	3.7	7.9	19.69	526.4	188.4	559.2	546.6	12.55	44.567		
1,000.0	1,000.0	1,045.1	1,045.1	3.9	8.2	19.80	524.5	188.9	557.5	544.5	13.02	42.820		
1,100.0	1,100.0	1,137.0	1,136.9	4.2	8.9	66.10	522.8	190.7	555.8	541.7	14.06	39.522		
1,200.0	1,199.8	1,226.3	1,226.1	4.5	9.7	67.10	521.6	195.8	554.5	539.3	15.22	36.423		
1,300.0	1,299.5	1,319.8	1,319.2	4.9	10.1	68.69	520.8	203.8	553.6	537.9	15.70	35.269		
1,400.0	1,398.7	1,413.6	1,412.5	5.2	10.3	70.68	520.4	212.8	552.9	536.9	16.00	34.546		
1,500.0	1,497.5	1,509.6	1,508.0	5.6	10.5	73.10	520.1	222.8	552.3	536.0	16.32	33.847		
1,579.8	1,575.8	1,585.6	1,583.6	5.8	10.6	75.26	519.8	231.0	552.1	535.6	16.55	33.366 CC		
1,586.0	1,582.0	1,591.6	1,589.5	5.8	10.6	75.44	519.8	231.6	552.1	535.6	16.56	33.331		
1,600.0	1,595.6	1,604.5	1,602.4	5.9	10.7	75.83	519.7	233.0	552.1	535.5	16.60	33.270 ES		
1,700.0	1,693.5	1,695.5	1,692.7	6.2	10.9	78.61	519.6	243.5	553.7	536.7	16.92	32.713		
1,800.0	1,791.5	1,786.4	1,782.9	6.6	11.1	81.43	519.7	255.0	557.6	540.3	17.23	32.362		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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)			
1,900.0	1,889.4	1,879.1	1,874.8	6.9	11.3	84.36	519.6	267.8	563.7	546.1	17.57	32.083	
2,000.0	1,987.3	1,971.9	1,966.5	7.3	11.6	87.32	519.2	281.7	571.8	553.9	17.93	31.896	
2,100.0	2,085.2	2,066.8	2,060.3	7.6	11.9	90.35	518.2	296.5	581.8	563.5	18.33	31.738	
2,200.0	2,183.1	2,161.4	2,153.6	8.0	12.2	93.34	516.5	311.8	593.5	574.7	18.77	31.623	
2,300.0	2,281.0	2,255.6	2,246.4	8.4	12.5	96.29	514.2	327.5	606.8	587.6	19.24	31.538	
2,400.0	2,378.9	2,348.3	2,337.7	8.8	12.8	99.15	511.2	343.4	621.8	602.1	19.74	31.498	
2,500.0	2,476.9	2,439.4	2,427.2	9.2	13.1	101.89	507.9	359.6	638.7	618.5	20.27	31.512	
2,600.0	2,574.8	2,535.1	2,521.4	9.6	13.5	104.67	504.1	377.0	657.4	636.5	20.86	31.508	
2,662.6	2,636.1	2,598.3	2,583.4	9.9	13.7	106.43	501.2	388.1	669.4	648.1	21.26	31.489	
2,700.0	2,672.7	2,636.1	2,620.6	10.0	13.9	107.52	499.4	394.6	676.6	655.1	21.49	31.479	
2,800.0	2,770.9	2,733.6	2,716.7	10.4	14.2	110.15	494.3	410.8	695.8	673.7	22.16	31.406	
2,900.0	2,869.5	2,830.8	2,812.5	10.8	14.6	112.48	489.5	426.5	715.2	692.4	22.83	31.333	
3,000.0	2,968.3	2,938.7	2,919.1	11.2	15.1	114.64	485.5	442.3	733.9	710.2	23.69	30.975	
3,100.0	3,067.3	3,043.9	3,023.6	11.7	15.6	116.25	484.0	455.0	750.7	726.2	24.50	30.641	
3,200.0	3,166.6	3,135.8	3,114.8	12.0	15.9	117.42	483.8	465.7	767.1	742.0	25.11	30.551	
3,300.0	3,266.1	3,226.6	3,204.9	12.4	16.3	118.40	484.3	476.8	783.8	758.1	25.71	30.489	
3,400.0	3,365.7	3,315.1	3,292.6	12.8	16.6	119.24	484.8	488.7	800.9	774.6	26.29	30.467 SF	
3,500.0	3,465.5	3,403.2	3,379.8	13.2	16.9	119.98	485.4	501.5	818.4	791.5	26.86	30.474	
3,600.0	3,565.4	3,490.9	3,466.4	13.5	17.3	120.62	486.1	515.4	836.4	809.0	27.41	30.509	
3,700.0	3,665.3	3,579.3	3,553.5	13.8	17.6	121.15	487.0	530.5	854.8	826.8	27.96	30.567	
3,800.0	3,765.3	3,669.1	3,641.8	14.1	18.0	121.58	488.2	546.7	873.3	844.8	28.51	30.632	
3,834.7	3,800.0	3,700.2	3,672.3	14.1	18.1	75.82	488.7	552.5	879.8	851.1	28.67	30.681	
3,900.0	3,865.3	3,759.7	3,730.7	14.1	18.3	75.95	489.6	563.8	892.1	863.1	28.99	30.770	
4,000.0	3,965.3	3,851.5	3,820.7	14.2	18.7	76.20	490.2	582.1	911.6	882.1	29.52	30.878	
4,100.0	4,065.3	3,942.7	3,909.9	14.3	19.1	76.52	489.6	601.1	931.7	901.7	30.06	30.998	
4,200.0	4,165.3	4,033.2	3,998.2	14.3	19.5	76.91	487.8	620.9	952.7	922.1	30.60	31.132	
4,300.0	4,265.3	4,126.9	4,089.3	14.4	19.9	77.38	484.8	642.4	974.3	943.1	31.19	31.239	
4,400.0	4,365.3	4,224.1	4,183.9	14.5	20.3	77.88	481.1	664.8	996.1	964.3	31.82	31.305	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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	35.9	35.9	0.0	3.0	14.40	531.3	136.4	548.5	543.8	4.66	117.586	
100.0	100.0	133.1	133.1	1.2	3.3	14.34	531.6	135.9	548.8	543.4	5.36	102.426	
200.0	200.0	231.5	231.5	1.7	3.6	14.22	532.6	135.0	549.5	543.4	6.05	90.785	
300.0	300.0	333.3	333.3	2.1	4.1	14.13	533.5	134.3	550.2	543.4	6.82	80.670	
400.0	400.0	436.2	436.1	2.4	4.7	14.08	533.9	133.9	550.4	542.7	7.75	70.982	
500.0	500.0	538.2	538.2	2.7	5.3	14.04	533.8	133.5	550.2	541.4	8.77	62.743	
600.0	600.0	640.2	640.2	3.0	6.1	13.99	533.3	132.9	549.6	539.8	9.82	55.944	
700.0	700.0	741.3	741.2	3.2	6.5	13.94	532.5	132.1	548.7	538.2	10.48	52.367	
800.0	800.0	842.0	842.0	3.5	6.7	13.87	531.7	131.3	547.7	536.8	10.90	50.256	
900.0	900.0	943.3	943.2	3.7	7.0	13.76	530.8	130.0	546.5	535.1	11.43	47.813	
1,000.0	1,000.0	1,045.3	1,045.2	3.9	7.5	13.56	529.8	127.8	545.0	533.1	11.95	45.597	
1,100.0	1,100.0	1,147.6	1,147.4	4.2	7.9	59.19	528.9	123.0	542.2	529.8	12.49	43.417	
1,200.0	1,199.8	1,248.9	1,248.5	4.5	8.3	59.10	528.1	116.5	537.3	524.3	12.98	41.384	
1,300.0	1,299.5	1,350.4	1,349.7	4.9	8.6	59.29	527.2	109.2	530.3	516.9	13.48	39.347	
1,400.0	1,398.7	1,452.8	1,451.8	5.2	9.0	59.77	526.0	100.8	521.1	507.2	13.97	37.292	
1,500.0	1,497.5	1,554.3	1,552.9	5.6	9.3	60.54	524.6	91.6	509.7	495.2	14.47	35.227	
1,586.0	1,582.0	1,640.7	1,638.8	5.8	9.7	61.48	523.2	83.1	498.3	483.4	14.87	33.502	
1,600.0	1,595.6	1,654.7	1,652.7	5.9	9.7	61.62	523.0	81.7	496.3	481.4	14.93	33.243	
1,700.0	1,693.5	1,755.6	1,753.1	6.2	10.1	62.61	521.2	71.0	482.0	466.6	15.45	31.201	
1,800.0	1,791.5	1,856.9	1,853.6	6.6	10.5	63.53	519.1	59.0	467.4	451.5	15.94	29.322	
1,900.0	1,889.4	1,957.1	1,952.9	6.9	10.9	64.37	517.0	46.1	452.4	436.0	16.44	27.516	
2,000.0	1,987.3	2,057.7	2,052.5	7.3	11.2	65.14	514.8	32.1	437.2	420.3	16.95	25.793	
2,100.0	2,085.2	2,160.3	2,153.9	7.6	11.7	65.84	512.2	16.6	421.3	403.9	17.47	24.123	
2,200.0	2,183.1	2,262.0	2,254.2	8.0	12.1	66.42	509.2	-0.2	404.6	386.6	17.99	22.494	
2,300.0	2,281.0	2,362.6	2,353.2	8.4	12.5	66.91	505.9	-17.8	387.3	368.8	18.52	20.916	
2,400.0	2,378.9	2,460.7	2,449.6	8.8	12.9	67.32	502.7	-35.8	369.7	350.7	19.05	19.405	
2,500.0	2,476.9	2,557.7	2,544.9	9.2	13.3	67.68	499.9	-54.0	352.5	332.9	19.59	17.989	
2,600.0	2,574.8	2,654.1	2,639.5	9.6	13.7	68.05	497.7	-71.9	335.8	315.6	20.14	16.673	
2,662.6	2,636.1	2,714.4	2,698.8	9.9	13.9	68.32	496.6	-83.0	325.6	305.2	20.46	15.916	
2,700.0	2,672.7	2,750.0	2,733.8	10.0	14.1	68.42	496.0	-89.4	319.8	299.1	20.65	15.488	
2,800.0	2,770.9	2,848.6	2,830.8	10.4	14.5	68.63	494.5	-106.6	304.8	283.6	21.18	14.388	
2,900.0	2,869.5	2,946.9	2,927.8	10.8	14.9	68.77	492.8	-122.7	290.7	269.0	21.71	13.386	
3,000.0	2,968.3	3,046.1	3,025.7	11.2	15.3	68.74	491.0	-138.3	277.3	255.0	22.24	12.468	
3,100.0	3,067.3	3,144.7	3,123.2	11.7	15.7	68.48	489.0	-153.4	264.5	241.8	22.75	11.627	
3,200.0	3,166.6	3,242.8	3,220.2	12.0	16.2	67.87	487.3	-168.2	252.8	229.6	23.25	10.872	
3,300.0	3,266.1	3,340.7	3,317.0	12.4	16.6	66.88	486.0	-182.6	242.3	218.6	23.74	10.207	
3,400.0	3,365.7	3,438.6	3,413.9	12.8	17.0	65.49	485.2	-196.7	233.2	209.0	24.21	9.632	
3,500.0	3,465.5	3,537.9	3,512.1	13.2	17.4	63.55	484.9	-211.0	225.4	200.7	24.67	9.135	
3,600.0	3,565.4	3,637.3	3,610.4	13.5	17.8	60.82	484.8	-226.2	218.7	193.5	25.15	8.695	
3,700.0	3,665.3	3,739.8	3,711.3	13.8	18.3	56.96	484.3	-243.9	212.5	186.9	25.70	8.271	
3,800.0	3,765.3	3,840.5	3,810.0	14.1	18.8	51.92	482.7	-263.8	207.1	180.7	26.33	7.865	
3,834.7	3,800.0	3,874.6	3,843.3	14.1	19.0	4.11	482.0	-270.9	205.7	179.1	26.56	7.744	
3,900.0	3,865.3	3,938.6	3,905.9	14.1	19.2	0.33	480.7	-284.5	203.8	176.7	27.01	7.543	
4,000.0	3,965.3	4,037.0	4,001.9	14.2	19.7	-5.64	478.6	-305.6	202.6	174.7	27.82	7.282	
4,021.1	3,986.5	4,057.9	4,022.5	14.2	19.8	-6.85	478.1	-309.8	202.5	174.5	27.99	7.235 CC	
4,100.0	4,065.3	4,136.6	4,099.7	14.3	20.2	-11.09	476.1	-324.7	202.9	174.2	28.65	7.081 ES	
4,200.0	4,165.3	4,237.4	4,199.0	14.3	20.7	-15.93	473.0	-341.6	203.9	174.4	29.46	6.919	
4,300.0	4,265.3	4,338.5	4,298.8	14.4	21.1	-20.51	469.1	-357.5	205.1	174.8	30.28	6.772	
4,400.0	4,365.3	4,439.3	4,398.3	14.5	21.5	-24.98	464.1	-372.8	206.4	175.4	31.04	6.649	
4,500.0	4,465.3	4,538.2	4,495.8	14.5	21.9	-29.40	458.5	-387.9	208.4	176.5	31.91	6.531	
4,600.0	4,565.3	4,637.1	4,593.4	14.6	22.3	-33.76	452.8	-403.2	211.7	178.9	32.80	6.452	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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						Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth	Reference Depth	Measured Depth	Offset Vertical Depth	Semi Major Axis Reference	Semi Major Axis Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Offset Wellbore Centre +E/-W	Distance Between Centres	Distance Between Ellipses	No-Go Distance	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,700.0	4,665.3	4,736.3	4,691.3	14.7	22.7	-37.88	447.2	-418.1	215.9	182.2	33.67	6.412		
4,800.0	4,765.3	4,835.0	4,788.8	14.7	23.2	-41.69	441.7	-432.4	221.0	186.4	34.52	6.402 SF		
4,900.0	4,865.3	4,932.8	4,885.3	14.8	23.6	-45.41	436.2	-447.1	227.3	191.9	35.37	6.427		
5,000.0	4,965.3	5,027.6	4,978.8	14.9	24.0	-48.90	431.0	-462.3	235.4	199.2	36.24	6.497		
5,100.0	5,065.3	5,121.0	5,070.8	14.9	24.4	-51.91	427.9	-478.1	246.4	209.4	37.05	6.652		
5,200.0	5,165.3	5,218.1	5,166.4	15.0	24.8	-54.55	426.2	-495.2	259.6	221.7	37.82	6.862		
5,300.0	5,265.3	5,316.6	5,263.4	15.1	25.3	-56.79	425.2	-512.1	273.2	234.7	38.57	7.084		
5,400.0	5,365.3	5,416.0	5,361.4	15.1	25.7	-58.75	424.5	-528.7	287.1	247.8	39.29	7.308		
5,500.0	5,465.3	5,515.8	5,459.8	15.2	26.1	-60.51	423.7	-545.2	301.0	261.0	40.00	7.525		
5,600.0	5,565.3	5,616.5	5,559.2	15.3	26.6	-62.11	422.9	-561.2	314.6	273.9	40.69	7.732		
5,700.0	5,665.3	5,716.2	5,657.7	15.3	27.0	-63.52	421.9	-576.5	327.8	286.5	41.36	7.926		
5,800.0	5,765.3	5,814.1	5,754.5	15.4	27.4	-64.74	421.3	-591.4	341.4	299.3	42.01	8.125		
5,900.0	5,865.3	5,912.8	5,852.0	15.5	27.9	-65.82	421.1	-606.6	355.2	312.5	42.66	8.327		
6,000.0	5,965.3	6,012.0	5,950.0	15.5	28.3	-66.81	421.0	-621.6	369.1	325.8	43.30	8.525		
6,100.0	6,065.3	6,111.8	6,048.7	15.6	28.7	-67.71	420.9	-636.6	382.9	339.0	43.94	8.715		
6,200.0	6,165.3	6,211.8	6,147.7	15.7	29.1	-68.56	420.6	-651.4	396.5	352.0	44.57	8.897		
6,300.0	6,265.3	6,311.8	6,246.6	15.7	29.6	-69.36	420.2	-665.9	410.0	364.8	45.20	9.070		
6,400.0	6,365.3	6,411.6	6,345.3	15.8	30.0	-70.11	419.7	-680.2	423.3	377.4	45.83	9.236		
6,500.0	6,465.3	6,510.8	6,443.5	15.9	30.4	-70.82	419.2	-694.3	436.5	390.0	46.45	9.398		
6,600.0	6,565.3	6,612.2	6,543.9	16.0	30.9	-71.52	418.3	-708.6	449.6	402.5	47.07	9.552		
6,700.0	6,665.3	6,715.9	6,646.6	16.0	31.3	-72.24	416.9	-722.5	461.9	414.2	47.70	9.684		
6,800.0	6,765.3	6,818.5	6,748.5	16.1	31.7	-72.91	415.2	-735.3	473.4	425.1	48.31	9.799		
6,900.0	6,865.3	6,921.4	6,850.6	16.2	32.2	-73.44	414.2	-747.3	484.2	435.3	48.91	9.901		
7,000.0	6,965.3	7,028.7	6,957.4	16.2	32.6	-73.84	413.9	-758.2	493.9	444.5	49.48	9.983		
7,100.0	7,065.3	7,138.6	7,066.9	16.3	33.0	-74.09	414.3	-767.2	501.9	451.9	50.01	10.036		
7,200.0	7,165.3	7,252.0	7,180.1	16.4	33.4	-74.25	414.6	-773.6	507.5	457.0	50.51	10.047		
7,300.0	7,265.3	7,360.9	7,289.0	16.4	33.8	-74.38	414.5	-777.3	510.7	459.8	50.88	10.038		
7,400.0	7,365.3	7,466.9	7,394.9	16.5	34.1	-74.51	413.8	-779.3	512.3	461.1	51.23	10.001		
7,500.0	7,465.3	7,564.8	7,492.9	16.6	34.4	-74.63	413.1	-781.0	513.8	462.2	51.60	9.957		
7,600.0	7,565.3	7,664.2	7,592.2	16.7	34.6	-74.76	412.5	-783.0	515.6	463.6	51.97	9.920		
7,700.0	7,665.3	7,765.4	7,693.4	16.7	34.9	-74.90	411.7	-785.0	517.2	464.9	52.33	9.883		
7,800.0	7,765.3	7,868.8	7,796.7	16.8	35.2	-75.04	410.9	-786.5	518.5	465.9	52.60	9.858		
7,900.0	7,865.3	7,973.2	7,901.2	16.9	35.4	-75.12	410.3	-787.2	519.0	466.2	52.80	9.829		
8,000.0	7,965.3	8,075.6	8,003.5	16.9	35.4	-75.16	409.8	-787.1	518.8	465.9	52.81	9.823		
8,100.0	8,065.3	8,177.3	8,105.3	17.0	35.4	-75.22	409.2	-786.6	518.1	465.3	52.80	9.813		
8,200.0	8,165.3	8,277.5	8,205.5	17.1	35.4	-75.28	408.4	-786.0	517.3	464.6	52.74	9.809		
8,300.0	8,265.3	8,376.9	8,304.8	17.1	35.4	-75.36	407.6	-785.4	516.6	463.8	52.72	9.798		
8,400.0	8,365.3	8,475.3	8,403.2	17.2	35.4	-75.42	406.9	-785.1	516.0	463.3	52.74	9.784		
8,500.0	8,465.3	8,574.8	8,502.8	17.3	35.4	-75.50	406.1	-785.0	515.7	463.0	52.76	9.776		
8,514.4	8,479.8	8,587.7	8,515.7	17.3	35.6	-75.52	406.0	-785.0	515.7	462.7	53.05	9.721		
8,600.0	8,565.3	8,658.7	8,586.4	17.4	37.5	-75.03	410.5	-784.8	516.9	461.3	55.68	9.285		
8,700.0	8,665.3	8,736.9	8,662.9	17.4	37.8	-73.30	426.6	-784.2	521.9	465.9	56.05	9.312		
8,800.0	8,765.3	8,807.9	8,729.1	17.5	37.8	-70.62	452.0	-783.1	532.2	476.4	55.86	9.529		
8,900.0	8,865.3	8,868.4	8,782.0	17.6	37.7	-67.63	481.2	-781.9	549.7	494.3	55.42	9.918		
9,000.0	8,965.3	8,934.0	8,835.7	17.7	37.7	-64.00	518.9	-781.7	576.2	521.5	54.74	10.527		
9,100.0	9,065.3	8,978.1	8,869.6	17.7	37.8	-61.44	547.1	-781.7	610.5	556.7	53.85	11.337		
9,200.0	9,165.3	9,023.0	8,902.6	17.8	37.8	-58.76	577.5	-781.1	651.9	599.1	52.82	12.343		
9,300.0	9,265.3	9,060.6	8,928.3	17.9	37.8	-56.46	604.9	-780.4	701.0	649.2	51.81	13.531		
9,400.0	9,365.3	9,111.0	8,958.8	17.9	37.8	-53.34	645.0	-780.1	758.8	707.8	50.99	14.881		
9,500.0	9,465.3	9,111.0	8,958.8	18.0	37.8	-53.34	645.0	-780.1	821.2	771.4	49.83	16.480		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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)	(usft)	(usft)		
9,600.0	9,565.3	9,138.1	8,973.4	18.1	37.9	-51.68	667.8	-780.1	889.7	840.7	48.95	18.174	
9,700.0	9,665.3	9,164.8	8,987.1	18.2	37.9	-50.06	690.8	-779.9	962.1	913.9	48.22	19.954	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P24 6H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 33-r-5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		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	36.0	36.0	0.0	3.0	16.90	531.3	161.4	555.2	550.6	4.66	119.030	
100.0	100.0	135.2	135.2	1.2	3.3	16.87	531.4	161.2	555.3	549.9	5.44	102.106	
200.0	200.0	234.5	234.5	1.7	4.2	16.80	531.8	160.6	555.5	548.7	6.78	81.962	
300.0	300.0	336.5	336.5	2.1	4.8	16.71	532.2	159.8	555.7	547.9	7.81	71.184	
400.0	400.0	439.5	439.5	2.4	5.4	16.64	532.0	159.0	555.3	546.6	8.68	63.938	
500.0	500.0	541.2	541.2	2.7	5.8	16.58	531.4	158.2	554.5	545.1	9.36	59.223	
600.0	600.0	642.7	642.7	3.0	6.2	16.51	530.6	157.3	553.4	543.4	9.98	55.476	
700.0	700.0	743.5	743.5	3.2	6.3	16.50	529.3	156.7	552.1	541.8	10.29	53.672	
800.0	800.0	845.4	845.4	3.5	6.5	16.55	527.8	156.9	550.7	539.9	10.75	51.224	
900.0	900.0	949.9	949.9	3.7	6.9	16.62	525.5	156.9	548.5	537.2	11.33	48.396	
1,000.0	1,000.0	1,052.4	1,052.3	3.9	7.2	16.67	522.6	156.5	545.7	533.8	11.90	45.879	
1,100.0	1,100.0	1,154.3	1,154.1	4.2	7.6	62.78	519.5	155.5	541.8	529.3	12.46	43.468	
1,200.0	1,199.8	1,255.5	1,255.3	4.5	7.9	63.35	516.2	154.1	535.9	522.9	13.02	41.159	
1,300.0	1,299.5	1,357.0	1,356.7	4.9	8.2	64.30	512.7	152.5	528.3	514.7	13.58	38.899	
1,400.0	1,398.7	1,459.7	1,459.3	5.2	8.6	65.66	508.6	150.5	518.7	504.5	14.15	36.668	
1,500.0	1,497.5	1,561.2	1,560.7	5.6	8.9	67.45	504.0	148.3	507.3	492.6	14.71	34.496	
1,586.0	1,582.0	1,647.5	1,646.8	5.8	9.2	69.35	499.6	146.1	496.3	481.2	15.16	32.732	
1,600.0	1,595.6	1,661.5	1,660.8	5.9	9.3	69.65	498.9	145.7	494.5	479.3	15.23	32.471	
1,700.0	1,693.5	1,761.5	1,760.6	6.2	9.6	71.87	493.5	142.7	481.4	465.6	15.81	30.451	
1,800.0	1,791.5	1,861.6	1,860.5	6.6	10.0	74.15	487.7	139.1	468.5	452.2	16.36	28.643	
1,900.0	1,889.4	1,962.7	1,961.3	6.9	10.4	76.56	481.4	134.9	455.7	438.8	16.92	26.939	
2,000.0	1,987.3	2,062.7	2,060.9	7.3	10.7	79.07	474.5	130.4	442.9	425.4	17.47	25.354	
2,100.0	2,085.2	2,159.0	2,156.9	7.6	11.1	81.66	467.6	126.1	430.9	412.9	18.00	23.931	
2,200.0	2,183.1	2,253.2	2,250.8	8.0	11.4	84.35	461.0	122.3	420.1	401.6	18.53	22.677	
2,300.0	2,281.0	2,344.5	2,341.9	8.4	11.7	87.06	455.5	119.3	411.6	392.6	19.02	21.640	
2,400.0	2,378.9	2,438.1	2,435.4	8.8	12.1	89.91	450.9	116.9	405.6	386.1	19.51	20.790	
2,500.0	2,476.9	2,534.4	2,531.6	9.2	12.4	92.90	446.5	114.6	401.1	381.1	19.99	20.071	
2,600.0	2,574.8	2,633.3	2,630.3	9.6	12.7	96.02	442.1	112.4	398.0	377.5	20.47	19.442	
2,662.6	2,636.1	2,696.2	2,693.1	9.9	12.9	98.04	439.1	110.7	396.3	375.5	20.76	19.093	
2,700.0	2,672.7	2,733.7	2,730.6	10.0	13.1	99.24	437.1	109.7	395.4	374.5	20.92	18.899	
2,800.0	2,770.9	2,829.5	2,826.1	10.4	13.4	102.16	432.1	107.0	393.5	372.2	21.39	18.402	
2,900.0	2,869.5	2,927.0	2,923.5	10.8	13.8	104.91	427.4	104.9	393.1	371.3	21.86	17.987 CC	
2,905.4	2,874.8	2,929.8	2,926.3	10.9	13.8	104.99	427.3	104.8	393.1	371.2	21.87	17.975	
3,000.0	2,968.3	3,020.3	3,016.8	11.2	14.1	107.27	423.7	103.2	393.8	371.5	22.29	17.666	
3,100.0	3,067.3	3,116.4	3,112.8	11.7	14.4	109.36	420.8	101.7	395.3	372.6	22.73	17.389	
3,200.0	3,166.6	3,211.7	3,208.1	12.0	14.7	111.15	418.6	100.7	397.5	374.4	23.13	17.190	
3,300.0	3,266.1	3,306.4	3,302.7	12.4	14.9	112.69	416.8	100.6	400.5	377.0	23.48	17.057	
3,400.0	3,365.7	3,399.2	3,395.5	12.8	15.1	113.99	415.5	101.9	404.6	380.8	23.73	17.046	
3,500.0	3,465.3	3,496.0	3,492.2	13.2	15.3	115.11	414.7	104.5	409.6	385.6	23.96	17.092	
3,600.0	3,565.4	3,600.1	3,596.4	13.5	15.3	115.90	414.6	106.5	413.5	389.3	24.17	17.110	
3,700.0	3,665.3	3,702.5	3,698.8	13.8	15.3	116.26	415.4	107.1	415.7	391.3	24.39	17.047	
3,800.0	3,765.3	3,804.1	3,800.3	14.1	15.3	116.31	416.5	107.2	416.8	392.2	24.60	16.940	
3,834.7	3,800.0	3,838.1	3,834.4	14.1	15.3	70.38	417.0	107.1	416.9	392.3	24.65	16.915	
3,900.0	3,865.3	3,901.6	3,897.8	14.1	15.3	70.26	417.9	107.2	417.3	392.6	24.73	16.877	
4,000.0	3,965.3	3,998.6	3,994.9	14.2	15.3	70.08	419.6	107.8	418.5	393.7	24.87	16.827	
4,100.0	4,065.3	4,094.7	4,090.9	14.3	15.3	69.95	421.2	109.3	420.5	395.6	24.96	16.847	
4,200.0	4,165.3	4,191.4	4,187.5	14.3	15.3	69.91	422.4	111.8	423.5	398.4	25.06	16.898	
4,300.0	4,265.3	4,289.9	4,286.0	14.4	15.4	70.02	422.8	115.3	426.9	401.7	25.17	16.962	
4,400.0	4,365.3	4,391.1	4,387.1	14.5	15.4	70.28	422.2	119.4	430.5	405.2	25.25	17.046	
4,500.0	4,465.3	4,493.6	4,489.6	14.5	15.5	70.63	420.7	123.1	433.4	408.0	25.39	17.071	
4,600.0	4,565.3	4,595.0	4,590.8	14.6	15.7	70.98	419.0	126.4	436.0	410.4	25.57	17.048	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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	
4,700.0	4,665.3	4,693.9	4,689.7	14.7	15.8	71.21	418.2	129.3	438.5	412.7	25.76	17.018	
4,800.0	4,765.3	4,792.4	4,788.1	14.7	15.9	71.11	419.8	131.7	441.3	415.3	25.96	17.001	
4,900.0	4,865.3	4,892.9	4,888.6	14.8	15.9	70.86	422.6	133.8	444.2	418.1	26.10	17.023	
5,000.0	4,965.3	4,996.1	4,991.7	14.9	15.9	70.62	425.2	135.9	446.9	420.7	26.27	17.016	
5,100.0	5,065.3	5,106.3	5,101.9	14.9	16.0	70.35	427.6	136.2	447.9	421.4	26.50	16.903	
5,200.0	5,165.3	5,209.7	5,205.3	15.0	16.0	70.06	429.5	134.7	447.2	420.4	26.73	16.731	
5,300.0	5,265.3	5,309.6	5,305.2	15.1	16.1	69.81	431.1	133.2	446.3	419.3	26.95	16.557	
5,400.0	5,365.3	5,409.0	5,404.6	15.1	16.1	69.58	432.4	131.8	445.5	418.3	27.18	16.390	
5,500.0	5,465.3	5,508.5	5,504.1	15.2	16.2	69.37	433.7	130.7	444.8	417.4	27.41	16.230	
5,600.0	5,565.3	5,609.0	5,604.6	15.3	16.3	69.19	434.8	129.5	444.1	416.5	27.64	16.067	
5,700.0	5,665.3	5,709.4	5,705.0	15.3	16.4	69.03	435.7	128.3	443.4	415.5	27.88	15.900	
5,800.0	5,765.3	5,809.6	5,805.1	15.4	16.5	68.90	436.3	127.2	442.5	414.4	28.13	15.729	
5,900.0	5,865.3	5,909.4	5,904.9	15.5	16.6	68.80	436.7	126.1	441.7	413.3	28.39	15.558	
6,000.0	5,965.3	6,008.9	6,004.4	15.5	16.7	68.72	437.0	125.2	440.9	412.3	28.64	15.393	
6,100.0	6,065.3	6,108.9	6,104.4	15.6	16.9	68.64	437.4	124.3	440.2	411.3	28.90	15.232	
6,200.0	6,165.3	6,209.0	6,204.4	15.7	17.0	68.56	437.6	123.4	439.5	410.4	29.16	15.072	
6,300.0	6,265.3	6,308.7	6,304.2	15.7	17.1	68.49	437.9	122.6	438.8	409.4	29.42	14.917	
6,400.0	6,365.3	6,408.2	6,403.7	15.8	17.3	68.42	438.1	121.9	438.2	408.5	29.68	14.767	
6,500.0	6,465.3	6,507.2	6,502.6	15.9	17.4	68.38	438.3	121.4	437.8	407.9	29.93	14.629	
6,600.0	6,565.3	6,607.2	6,602.7	16.0	17.6	68.36	438.3	121.1	437.6	407.4	30.19	14.494	
6,700.0	6,665.3	6,708.5	6,704.0	16.0	17.7	68.35	438.3	120.6	437.1	406.6	30.46	14.351	
6,800.0	6,765.3	6,810.5	6,806.0	16.1	17.9	68.34	438.0	119.8	436.3	405.5	30.75	14.188	
6,900.0	6,865.3	6,912.7	6,908.2	16.2	18.1	68.34	437.5	118.5	434.9	403.9	31.05	14.009	
7,000.0	6,965.3	7,013.4	7,008.8	16.2	18.3	68.36	436.8	117.0	433.3	401.9	31.35	13.819	
7,100.0	7,065.3	7,113.7	7,109.2	16.3	18.5	68.40	435.8	115.5	431.5	399.8	31.66	13.628	
7,200.0	7,165.3	7,213.2	7,208.6	16.4	18.7	68.44	434.9	114.0	429.7	397.8	31.97	13.442	
7,300.0	7,265.3	7,313.4	7,308.8	16.4	19.0	68.47	434.1	112.5	428.1	395.8	32.28	13.261	
7,400.0	7,365.3	7,414.6	7,410.0	16.5	19.2	68.53	433.0	110.9	426.2	393.6	32.60	13.074	
7,500.0	7,465.3	7,514.3	7,509.7	16.6	19.4	68.62	431.6	109.2	424.1	391.2	32.91	12.887	
7,600.0	7,565.3	7,613.4	7,608.8	16.7	19.6	68.75	430.0	107.8	422.3	389.0	33.22	12.711	
7,700.0	7,665.3	7,712.4	7,707.7	16.7	19.8	68.88	428.6	106.7	420.6	387.1	33.52	12.549	
7,800.0	7,765.3	7,811.5	7,806.8	16.8	20.0	68.98	427.3	105.7	419.2	385.4	33.82	12.396	
7,900.0	7,865.3	7,912.5	7,907.8	16.9	20.3	69.08	426.2	104.6	417.8	383.7	34.13	12.242	
8,000.0	7,965.3	8,013.3	8,008.5	16.9	20.5	69.18	424.9	103.3	416.1	381.7	34.44	12.082	
8,100.0	8,065.3	8,113.8	8,109.0	17.0	20.7	69.28	423.5	101.8	414.3	379.6	34.76	11.919	
8,200.0	8,165.3	8,213.8	8,209.0	17.1	20.9	69.40	422.1	100.4	412.5	377.4	35.08	11.758	
8,300.0	8,265.3	8,313.4	8,308.6	17.1	21.2	69.51	420.7	99.0	410.6	375.2	35.40	11.602	
8,400.0	8,365.3	8,414.2	8,409.4	17.2	21.4	69.65	419.2	97.5	408.8	373.1	35.70	11.451	
8,500.0	8,465.3	8,513.1	8,508.3	17.3	21.7	69.81	417.4	96.0	406.7	370.6	36.12	11.261	
8,573.3	8,538.6	8,581.0	8,576.1	17.3	22.1	69.40	419.8	94.5	406.1	369.3	36.72	11.059 ES	
8,600.0	8,565.3	8,600.2	8,595.2	17.4	22.2	69.11	421.8	93.8	406.2	369.5	36.75	11.054 SF	
8,700.0	8,665.3	8,669.0	8,661.7	17.4	22.6	66.79	438.4	90.6	411.3	374.5	36.84	11.164	
8,800.0	8,765.3	8,747.3	8,733.1	17.5	22.6	62.50	470.1	85.3	423.7	386.9	36.79	11.516	
8,900.0	8,865.3	8,807.7	8,785.3	17.6	22.6	58.68	500.1	81.1	444.7	408.0	36.68	12.125	
9,000.0	8,965.3	8,862.6	8,830.8	17.7	22.6	55.16	530.7	78.9	475.8	439.3	36.52	13.027	
9,100.0	9,065.3	8,913.5	8,870.9	17.7	22.6	51.88	562.1	77.7	516.1	479.7	36.39	14.181	
9,200.0	9,165.3	8,934.0	8,886.4	17.8	22.6	50.57	575.5	77.3	565.7	529.6	36.09	15.674	
9,300.0	9,265.3	8,989.9	8,925.9	17.9	22.7	47.01	614.9	76.8	621.7	585.3	36.36	17.100	
9,400.0	9,365.3	9,023.0	8,947.2	17.9	22.7	44.95	640.2	76.9	685.3	648.8	36.49	18.781	
9,500.0	9,465.3	9,049.3	8,963.1	18.0	22.7	43.35	661.3	77.1	754.3	717.7	36.59	20.615	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: RED HILLS WEST - SD WE 24 FEDERAL P24 6H - OWB - AWP													Offset Site Error: 0.0 usft		
Survey Program: 33-r.5 MWD													Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Offset Well Error: 3.0 usft	
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)				
9,600.0	9,565.3	9,075.7	8,978.0	18.1	22.8	41.78	683.1	77.2	827.7	790.9	36.77	22.509			
9,700.0	9,665.3	9,111.0	8,996.4	18.2	22.8	39.75	713.1	77.2	904.9	867.8	37.09	24.398			
9,800.0	9,765.3	9,111.0	8,996.4	18.2	22.8	39.75	713.1	77.2	984.8	947.6	37.16	26.500			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	179.37	-89.7	1.0	89.7	89.2	0.48	187.132	
100.0	100.0	100.0	100.0	1.2	1.2	179.37	-89.7	1.0	89.7	86.9	2.87	31.296	
200.0	200.0	200.0	200.0	1.7	1.7	179.37	-89.7	1.0	89.7	85.9	3.86	23.223	
300.0	300.0	300.0	300.0	2.1	2.1	179.37	-89.7	1.0	89.7	85.1	4.63	19.364	
400.0	400.0	400.0	400.0	2.4	2.4	179.37	-89.7	1.0	89.7	84.4	5.29	16.970	
500.0	500.0	500.0	500.0	2.7	2.7	179.37	-89.7	1.0	89.7	83.9	5.87	15.294	
600.0	600.0	600.0	600.0	3.0	3.0	179.37	-89.7	1.0	89.7	83.3	6.39	14.033	
700.0	700.0	700.0	700.0	3.2	3.2	179.37	-89.7	1.0	89.7	82.8	6.88	13.037	
800.0	800.0	800.0	800.0	3.5	3.5	179.37	-89.7	1.0	89.7	82.4	7.34	12.225	
900.0	900.0	900.0	900.0	3.7	3.7	179.37	-89.7	1.0	89.7	81.9	7.77	11.545	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	179.37	-89.7	1.0	89.7	81.5	8.18	10.965 CC, ES	
1,100.0	1,100.0	1,100.3	1,100.3	4.2	4.2	-134.41	-89.6	-0.8	90.8	82.2	8.63	10.521	
1,200.0	1,199.8	1,200.5	1,200.3	4.5	4.5	-133.46	-89.1	-6.0	94.0	84.9	9.05	10.382 SF	
1,300.0	1,299.5	1,300.6	1,300.0	4.9	4.8	-132.00	-88.3	-14.7	99.3	89.9	9.47	10.492	
1,400.0	1,398.7	1,400.4	1,399.1	5.2	5.2	-130.20	-87.3	-26.8	106.9	97.0	9.88	10.825	
1,500.0	1,497.5	1,499.8	1,497.3	5.6	5.5	-128.22	-85.9	-42.3	116.8	106.5	10.28	11.354	
1,586.0	1,582.0	1,585.1	1,581.1	5.8	5.9	-126.49	-84.5	-58.3	127.1	116.5	10.60	11.985	
1,600.0	1,595.6	1,598.9	1,594.6	5.9	5.9	-126.22	-84.3	-61.2	128.9	118.2	10.64	12.113	
1,700.0	1,693.5	1,698.0	1,691.4	6.2	6.2	-124.42	-82.5	-81.7	141.9	130.9	11.07	12.821	
1,800.0	1,791.5	1,797.0	1,788.3	6.6	6.5	-122.93	-80.7	-102.2	155.1	143.7	11.46	13.533	
1,900.0	1,889.4	1,896.1	1,885.2	6.9	6.9	-121.66	-78.9	-122.7	168.4	156.5	11.86	14.194	
2,000.0	1,987.3	1,995.1	1,982.1	7.3	7.2	-120.59	-77.1	-143.2	181.7	169.5	12.27	14.808	
2,100.0	2,085.2	2,094.2	2,079.0	7.6	7.6	-119.66	-75.3	-163.7	195.1	182.5	12.69	15.378	
2,200.0	2,183.1	2,193.2	2,175.9	8.0	8.0	-118.85	-73.5	-184.3	208.6	195.5	13.11	15.908	
2,300.0	2,281.0	2,292.3	2,272.8	8.4	8.3	-118.14	-71.7	-204.8	222.1	208.5	13.54	16.400	
2,400.0	2,378.9	2,391.3	2,369.7	8.8	8.7	-117.51	-69.9	-225.3	236.6	221.6	13.97	16.859	
2,500.0	2,476.9	2,490.4	2,466.5	9.2	9.1	-116.95	-68.1	-245.8	249.1	234.7	14.41	17.286	
2,600.0	2,574.8	2,589.4	2,563.4	9.6	9.5	-116.44	-66.3	-266.3	262.7	247.8	14.85	17.684	
2,662.6	2,636.1	2,651.4	2,624.1	9.9	9.8	-116.15	-65.2	-279.2	271.2	256.1	15.10	17.953	
2,700.0	2,672.7	2,688.5	2,660.3	10.0	10.0	-116.01	-64.5	-286.8	276.2	260.9	15.25	18.115	
2,800.0	2,770.9	2,787.6	2,757.3	10.4	10.4	-115.44	-62.7	-307.4	289.1	273.4	15.68	18.436	
2,900.0	2,869.5	2,886.7	2,854.2	10.8	10.8	-114.62	-60.9	-327.9	301.4	285.3	16.11	18.709	
3,000.0	2,968.3	2,985.9	2,951.2	11.2	11.2	-113.58	-59.1	-348.4	313.0	296.5	16.52	18.942	
3,100.0	3,067.3	3,087.7	3,050.7	11.7	11.6	-112.22	-56.9	-369.8	323.9	307.0	16.91	19.158	
3,200.0	3,166.6	3,192.0	3,152.1	12.0	12.1	-110.11	-52.2	-393.8	333.0	315.6	17.34	19.205	
3,300.0	3,266.1	3,291.7	3,248.6	12.4	12.6	-107.53	-45.6	-418.4	340.9	323.1	17.74	19.213	
3,400.0	3,365.7	3,390.0	3,343.5	12.8	13.0	-104.82	-39.1	-442.6	349.0	330.8	18.19	19.190	
3,500.0	3,465.5	3,487.9	3,438.2	13.2	13.5	-101.99	-32.6	-466.8	357.6	338.9	18.68	19.146	
3,600.0	3,565.4	3,585.6	3,532.6	13.5	13.9	-99.06	-26.1	-490.9	366.8	347.5	19.22	19.079	
3,700.0	3,665.3	3,682.9	3,626.7	13.8	14.4	-96.04	-19.7	-515.0	376.8	356.9	19.84	18.990	
3,800.0	3,765.3	3,779.9	3,720.5	14.1	14.8	-92.96	-13.3	-538.9	387.8	367.3	20.54	18.884	
3,834.7	3,800.0	3,813.5	3,753.0	14.1	15.0	-137.76	-11.0	-547.2	391.9	371.1	20.78	18.860	
3,900.0	3,865.3	3,876.6	3,814.0	14.1	15.3	-135.68	-6.8	-562.8	400.0	378.7	21.27	18.804	
4,000.0	3,965.3	3,973.3	3,907.5	14.2	15.7	-132.66	-0.4	-586.7	413.4	391.3	22.10	18.709	
4,100.0	4,065.3	4,070.0	4,000.9	14.3	16.2	-129.83	6.0	-610.6	428.0	405.0	22.96	18.640	
4,200.0	4,165.3	4,166.6	4,094.4	14.3	16.6	-127.18	12.4	-634.4	443.5	419.7	23.84	18.602	
4,300.0	4,265.3	4,263.3	4,187.8	14.4	17.1	-124.71	18.8	-658.3	459.9	435.2	24.73	18.596	
4,400.0	4,365.3	4,360.0	4,281.3	14.5	17.5	-122.41	25.2	-682.2	477.2	451.5	25.63	18.619	
4,500.0	4,465.3	4,456.7	4,374.8	14.5	18.0	-120.27	31.7	-706.1	495.1	468.6	26.52	18.670	
4,600.0	4,565.3	4,553.3	4,468.2	14.6	18.5	-118.27	38.1	-729.9	513.7	486.3	27.40	18.746	
4,700.0	4,665.3	4,650.0	4,561.7	14.7	18.9	-116.41	44.5	-753.8	532.9	504.6	28.28	18.844	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,765.3	4,746.7	4,655.1	14.7	19.4	-114.68	50.9	-777.7	552.6	523.4	29.14	18.960	
4,900.0	4,865.3	4,843.4	4,748.6	14.8	19.8	-113.06	57.3	-801.6	572.8	542.8	30.00	19.093	
5,000.0	4,965.3	4,940.0	4,842.1	14.9	20.3	-111.56	63.7	-825.4	593.3	562.5	30.84	19.238	
5,100.0	5,065.3	5,036.7	4,935.5	14.9	20.8	-110.15	70.1	-849.3	614.3	582.6	31.67	19.395	
5,200.0	5,165.3	5,133.4	5,029.0	15.0	21.2	-108.84	76.6	-873.2	635.6	603.1	32.49	19.560	
5,300.0	5,265.3	5,230.1	5,122.4	15.1	21.7	-107.61	83.0	-897.1	657.2	623.9	33.30	19.733	
5,400.0	5,365.3	5,326.7	5,215.9	15.1	22.2	-106.45	89.4	-920.9	679.1	644.9	34.10	19.911	
5,500.0	5,465.3	5,423.4	5,309.4	15.2	22.6	-105.37	95.8	-944.8	701.2	666.3	34.90	20.093	
5,600.0	5,565.3	5,520.1	5,402.8	15.3	23.1	-104.35	102.2	-968.7	723.5	687.8	35.68	20.278	
5,700.0	5,665.3	5,616.8	5,496.3	15.3	23.6	-103.40	108.6	-992.6	746.1	709.6	36.46	20.466	
5,800.0	5,765.3	5,713.4	5,589.7	15.4	24.0	-102.49	115.1	-1,016.4	768.8	731.6	37.22	20.654	
5,900.0	5,865.3	5,810.1	5,683.2	15.5	24.5	-101.64	121.5	-1,040.3	791.8	753.8	37.99	20.843	
6,000.0	5,965.3	5,906.8	5,776.7	15.5	25.0	-100.84	127.9	-1,064.2	814.8	776.1	38.74	21.031	
6,100.0	6,065.3	6,003.5	5,870.1	15.6	25.5	-100.08	134.3	-1,088.1	838.1	798.6	39.50	21.219	
6,200.0	6,165.3	6,100.1	5,963.6	15.7	25.9	-99.37	140.7	-1,111.9	861.4	821.2	40.24	21.406	
6,300.0	6,265.3	6,196.8	6,057.0	15.7	26.4	-98.69	147.1	-1,135.8	884.9	843.9	40.98	21.591	
6,400.0	6,365.3	6,293.5	6,150.5	15.8	26.9	-98.04	153.5	-1,159.7	908.5	866.8	41.72	21.775	
6,500.0	6,465.3	6,390.2	6,244.0	15.9	27.3	-97.43	160.0	-1,183.6	932.2	889.7	42.46	21.956	
6,600.0	6,565.3	6,486.8	6,337.4	16.0	27.8	-96.84	166.4	-1,207.4	956.0	912.8	43.19	22.135	
6,700.0	6,665.3	6,583.5	6,430.9	16.0	28.3	-96.29	172.8	-1,231.3	979.8	935.9	43.92	22.312	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	179.41	-59.7	0.6	59.7	59.2	0.48	124.559	
100.0	100.0	100.0	100.0	1.2	1.2	179.41	-59.7	0.6	59.7	56.9	2.87	20.831	
200.0	200.0	200.0	200.0	1.7	1.7	179.41	-59.7	0.6	59.7	55.9	3.86	15.457	
300.0	300.0	300.0	300.0	2.1	2.1	179.41	-59.7	0.6	59.7	55.1	4.63	12.889	
400.0	400.0	400.0	400.0	2.4	2.4	179.41	-59.7	0.6	59.7	54.4	5.29	11.296	
500.0	500.0	500.0	500.0	2.7	2.7	179.41	-59.7	0.6	59.7	53.9	5.87	10.180	
600.0	600.0	600.0	600.0	3.0	3.0	179.41	-59.7	0.6	59.7	53.3	6.39	9.340	
700.0	700.0	700.0	700.0	3.2	3.2	179.41	-59.7	0.6	59.7	52.8	6.88	8.678	
800.0	800.0	800.0	800.0	3.5	3.5	179.41	-59.7	0.6	59.7	52.4	7.34	8.137	
900.0	900.0	900.0	900.0	3.7	3.7	179.41	-59.7	0.6	59.7	51.9	7.77	7.685	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	179.41	-59.7	0.6	59.7	51.5	8.18	7.299 CC, ES	
1,100.0	1,100.0	1,100.4	1,100.4	4.2	4.2	-134.24	-59.4	-1.1	60.6	52.0	8.63	7.024	
1,200.0	1,199.8	1,200.7	1,200.5	4.5	4.5	-132.91	-58.5	-6.3	63.4	54.3	9.06	6.998	
1,300.0	1,299.5	1,300.9	1,300.3	4.9	4.9	-130.94	-57.0	-14.9	68.0	58.5	9.47	7.183	
1,400.0	1,398.7	1,400.9	1,399.6	5.2	5.2	-128.58	-54.9	-27.0	74.6	64.7	9.87	7.559	
1,500.0	1,497.5	1,500.6	1,498.1	5.6	5.5	-126.09	-52.1	-42.3	83.2	72.9	10.26	8.106	
1,586.0	1,582.0	1,586.2	1,582.1	5.8	5.9	-123.99	-49.3	-58.2	92.2	81.6	10.57	8.725	
1,600.0	1,595.6	1,600.0	1,595.7	5.9	5.9	-123.67	-48.8	-61.0	93.8	83.2	10.60	8.845	
1,700.0	1,693.5	1,699.3	1,692.8	6.2	6.2	-121.51	-45.3	-81.4	105.3	94.2	11.02	9.548	
1,800.0	1,791.5	1,798.6	1,789.9	6.6	6.5	-119.79	-41.7	-101.7	116.8	105.4	11.40	10.245	
1,900.0	1,889.4	1,897.9	1,887.0	6.9	6.9	-118.37	-38.1	-122.0	128.5	116.7	11.79	10.896	
2,000.0	1,987.3	1,997.1	1,984.1	7.3	7.2	-117.19	-34.5	-142.3	140.2	128.0	12.19	11.504	
2,100.0	2,085.2	2,096.4	2,081.2	7.6	7.6	-116.20	-30.9	-162.7	152.0	139.4	12.59	12.070	
2,200.0	2,183.1	2,195.7	2,178.3	8.0	8.0	-115.34	-27.3	-183.0	163.8	150.8	13.00	12.599	
2,300.0	2,281.0	2,294.9	2,275.4	8.4	8.4	-114.60	-23.8	-203.3	175.7	162.3	13.42	13.093	
2,400.0	2,378.9	2,394.2	2,372.5	8.8	8.8	-113.96	-20.2	-223.7	187.6	173.7	13.84	13.554	
2,500.0	2,476.9	2,493.5	2,469.6	9.2	9.2	-113.39	-16.6	-244.0	199.4	185.2	14.26	13.985	
2,600.0	2,574.8	2,592.8	2,566.7	9.6	9.6	-112.89	-13.0	-264.3	211.4	196.7	14.69	14.389	
2,662.6	2,636.1	2,654.9	2,627.5	9.9	9.8	-112.60	-10.8	-277.0	218.8	203.9	14.93	14.656	
2,700.0	2,672.7	2,692.0	2,663.8	10.0	10.0	-112.45	-9.4	-284.6	223.2	208.2	15.07	14.817	
2,800.0	2,770.9	2,791.3	2,760.9	10.4	10.4	-111.80	-5.8	-305.0	234.6	219.1	15.49	15.149	
2,900.0	2,869.5	2,890.7	2,858.1	10.8	10.8	-110.84	-2.2	-325.3	245.4	229.5	15.90	15.437	
3,000.0	2,968.3	2,990.0	2,955.2	11.2	11.3	-109.60	1.3	-345.6	255.7	239.4	16.30	15.688	
3,100.0	3,067.3	3,089.2	3,052.3	11.7	11.7	-108.10	4.9	-366.0	265.6	248.9	16.70	15.905	
3,200.0	3,166.6	3,188.4	3,149.3	12.0	12.1	-106.37	8.5	-386.3	275.1	258.0	17.10	16.091	
3,300.0	3,266.1	3,287.4	3,246.2	12.4	12.6	-104.42	12.1	-406.5	284.5	267.0	17.51	16.246	
3,400.0	3,365.7	3,386.3	3,342.9	12.8	13.0	-102.28	15.6	-426.8	293.9	275.9	17.95	16.369	
3,500.0	3,465.5	3,485.1	3,439.5	13.2	13.4	-99.96	19.2	-447.0	303.3	284.9	18.43	16.459	
3,600.0	3,565.4	3,583.6	3,535.9	13.5	13.9	-97.49	22.8	-467.2	313.1	294.1	18.96	16.516	
3,700.0	3,665.3	3,682.0	3,632.1	13.8	14.3	-94.88	26.3	-487.3	323.3	303.8	19.55	16.540	
3,800.0	3,765.3	3,780.0	3,728.0	14.1	14.8	-92.16	29.9	-507.4	334.1	313.9	20.21	16.535	
3,834.7	3,800.0	3,814.0	3,761.2	14.1	14.9	-137.08	31.1	-514.3	338.1	317.6	20.44	16.542	
3,900.0	3,865.3	3,877.8	3,823.7	14.1	15.2	-135.22	33.4	-527.4	345.7	324.8	20.90	16.541	
4,000.0	3,965.3	3,975.7	3,919.4	14.2	15.6	-132.52	36.9	-547.5	358.2	336.5	21.68	16.520	
4,100.0	4,065.3	4,075.2	4,016.8	14.3	16.1	-129.96	40.6	-567.8	371.3	348.9	22.47	16.523	
4,200.0	4,165.3	4,184.2	4,123.3	14.3	16.6	-127.10	47.2	-589.5	383.3	360.0	23.36	16.406	
4,300.0	4,265.3	4,281.7	4,218.7	14.4	17.0	-124.54	54.8	-608.5	394.7	370.5	24.22	16.297	
4,400.0	4,365.3	4,379.5	4,314.2	14.5	17.4	-122.11	62.4	-627.6	406.9	381.8	25.09	16.217	
4,500.0	4,465.3	4,477.2	4,409.8	14.5	17.9	-119.83	70.0	-646.7	419.8	393.9	25.97	16.168	
4,600.0	4,565.3	4,575.0	4,505.4	14.6	18.3	-117.68	77.6	-665.7	433.4	406.5	26.84	16.147	
4,700.0	4,665.3	4,672.8	4,601.0	14.7	18.8	-115.66	85.3	-684.8	447.5	419.7	27.71	16.150	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,800.0	4,765.3	4,770.5	4,696.6	14.7	19.2	-113.76	92.9	-703.9	462.1	433.5	28.56	16.177		
4,900.0	4,865.3	4,868.3	4,792.2	14.8	19.7	-111.98	100.5	-722.9	477.2	447.8	29.41	16.223		
5,000.0	4,965.3	4,966.1	4,887.8	14.9	20.1	-110.30	108.2	-742.0	492.7	462.5	30.25	16.286		
5,100.0	5,065.3	5,063.8	4,983.4	14.9	20.6	-108.73	115.8	-761.1	508.6	477.6	31.08	16.364		
5,200.0	5,165.3	5,161.6	5,079.0	15.0	21.0	-107.25	123.4	-780.1	524.9	493.0	31.90	16.456		
5,300.0	5,265.3	5,259.4	5,174.5	15.1	21.5	-105.87	131.1	-799.2	541.5	508.8	32.71	16.558		
5,400.0	5,365.3	5,357.2	5,270.1	15.1	21.9	-104.56	138.7	-818.2	558.4	524.9	33.50	16.669		
5,500.0	5,465.3	5,454.9	5,365.7	15.2	22.4	-103.33	146.3	-837.3	575.6	541.3	34.29	16.787		
5,600.0	5,565.3	5,552.7	5,461.3	15.3	22.8	-102.17	153.9	-856.4	593.0	558.0	35.07	16.912		
5,700.0	5,665.3	5,650.5	5,556.9	15.3	23.3	-101.07	161.6	-875.4	610.7	574.8	35.83	17.042		
5,800.0	5,765.3	5,748.2	5,652.5	15.4	23.7	-100.04	169.2	-894.5	628.5	591.9	36.59	17.176		
5,900.0	5,865.3	5,846.0	5,748.1	15.5	24.2	-99.06	176.8	-913.6	646.6	609.2	37.35	17.314		
6,000.0	5,965.3	5,943.8	5,843.7	15.5	24.6	-98.14	184.5	-932.6	664.8	626.7	38.09	17.453		
6,100.0	6,065.3	6,041.5	5,939.3	15.6	25.1	-97.27	192.1	-951.7	683.2	644.3	38.83	17.594		
6,200.0	6,165.3	6,139.3	6,034.8	15.7	25.5	-96.44	199.7	-970.8	701.7	662.1	39.56	17.737		
6,300.0	6,265.3	6,237.1	6,130.4	15.7	26.0	-95.65	207.3	-989.8	720.4	680.1	40.29	17.880		
6,400.0	6,365.3	6,334.8	6,226.0	15.8	26.5	-94.90	215.0	-1,008.9	739.1	698.1	41.01	18.023		
6,500.0	6,465.3	6,436.1	6,325.0	15.9	26.9	-94.17	222.8	-1,028.6	758.0	716.2	41.75	18.155		
6,600.0	6,565.3	6,547.7	6,434.4	16.0	27.4	-93.45	230.9	-1,048.8	775.7	733.2	42.52	18.244		
6,700.0	6,665.3	6,660.1	6,545.1	16.0	27.9	-92.83	238.3	-1,067.2	791.7	748.5	43.25	18.305		
6,800.0	6,765.3	6,773.2	6,656.9	16.1	28.4	-92.30	244.9	-1,083.7	806.0	762.1	43.95	18.341		
6,900.0	6,865.3	6,887.1	6,769.6	16.2	28.9	-91.85	250.7	-1,098.2	818.6	774.0	44.60	18.354		
7,000.0	6,965.3	7,001.5	6,883.2	16.2	29.4	-91.48	255.7	-1,110.7	829.4	784.2	45.22	18.344		
7,100.0	7,065.3	7,116.4	6,997.6	16.3	29.9	-91.17	259.9	-1,121.1	838.4	792.6	45.78	18.313		
7,200.0	7,165.3	7,231.7	7,112.6	16.4	30.3	-90.94	263.2	-1,129.4	845.6	799.3	46.30	18.264		
7,300.0	7,265.3	7,347.4	7,228.0	16.4	30.7	-90.76	265.7	-1,135.6	850.9	804.1	46.75	18.199		
7,400.0	7,365.3	7,463.2	7,343.8	16.5	31.1	-90.65	267.3	-1,139.6	854.3	807.2	47.14	18.122		
7,500.0	7,465.3	7,579.2	7,459.8	16.6	31.4	-90.60	268.0	-1,141.5	855.9	808.5	47.43	18.047		
7,600.0	7,565.3	7,684.8	7,565.3	16.7	31.4	-90.60	268.1	-1,141.6	856.0	808.5	47.53	18.010		
7,700.0	7,665.3	7,784.8	7,665.3	16.7	31.5	-90.60	268.1	-1,141.6	856.0	808.4	47.62	17.977		
7,800.0	7,765.3	7,884.8	7,765.3	16.8	31.5	-90.60	268.1	-1,141.6	856.0	808.3	47.70	17.945		
7,900.0	7,865.3	7,984.8	7,865.3	16.9	31.5	-90.60	268.1	-1,141.6	856.0	808.2	47.79	17.912		
8,000.0	7,965.3	8,084.8	7,965.3	16.9	31.6	-90.60	268.1	-1,141.6	856.0	808.1	47.88	17.879		
8,100.0	8,065.3	8,184.8	8,065.3	17.0	31.6	-90.60	268.1	-1,141.6	856.0	808.1	47.96	17.847		
8,200.0	8,165.3	8,284.8	8,165.3	17.1	31.6	-90.60	268.1	-1,141.6	856.0	808.0	48.05	17.814		
8,300.0	8,265.3	8,384.8	8,265.3	17.1	31.7	-90.60	268.1	-1,141.6	856.0	807.9	48.14	17.782		
8,400.0	8,365.3	8,484.8	8,365.3	17.2	31.7	-90.60	268.1	-1,141.6	856.0	807.8	48.23	17.749		
8,500.0	8,465.3	8,584.8	8,465.3	17.3	31.7	-90.60	268.1	-1,141.6	856.0	807.7	48.32	17.716		
8,600.0	8,565.3	8,684.8	8,565.3	17.4	31.7	-90.60	268.1	-1,141.6	856.0	807.6	48.41	17.683		
8,700.0	8,665.3	8,784.8	8,665.3	17.4	31.8	-90.60	268.1	-1,141.6	856.0	807.5	48.50	17.651		
8,800.0	8,765.3	8,884.8	8,765.3	17.5	31.8	-90.60	268.1	-1,141.6	856.0	807.4	48.59	17.618		
8,900.0	8,865.3	8,984.8	8,865.3	17.6	31.8	-90.60	268.1	-1,141.6	856.0	807.3	48.68	17.585		
9,000.0	8,965.3	9,084.8	8,965.3	17.7	31.9	-90.60	268.1	-1,141.6	856.0	807.2	48.77	17.552		
9,100.0	9,065.3	9,184.8	9,065.3	17.7	31.9	-90.60	268.1	-1,141.6	856.0	807.2	48.86	17.520		
9,200.0	9,165.3	9,284.8	9,165.3	17.8	31.9	-90.60	268.1	-1,141.6	856.0	807.1	48.95	17.487		
9,300.0	9,265.3	9,384.8	9,265.3	17.9	32.0	-90.60	268.1	-1,141.6	856.0	807.0	49.04	17.454		
9,400.0	9,365.3	9,484.8	9,365.3	17.9	32.0	-90.60	268.1	-1,141.6	856.0	806.9	49.14	17.421		
9,500.0	9,465.3	9,584.8	9,465.3	18.0	32.0	-90.60	268.1	-1,141.6	856.0	806.8	49.23	17.388		
9,600.0	9,565.3	9,684.8	9,565.3	18.1	32.1	-90.60	268.1	-1,141.6	856.0	806.7	49.32	17.356		
9,700.0	9,665.3	9,784.8	9,665.3	18.2	32.1	-90.60	268.1	-1,141.6	856.0	806.6	49.42	17.323		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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	
9,800.0	9,765.3	9,884.8	9,765.3	18.2	32.1	-90.60	268.1	-1,141.6	856.0	806.5	49.51	17.290		
9,900.0	9,865.3	9,984.8	9,865.3	18.3	32.2	-90.60	268.1	-1,141.6	856.0	806.4	49.60	17.257		
10,000.0	9,965.3	10,084.8	9,965.3	18.4	32.2	-90.60	268.1	-1,141.6	856.0	806.3	49.70	17.224		
10,100.0	10,065.3	10,184.8	10,065.3	18.4	32.2	-90.60	268.1	-1,141.6	856.0	806.2	49.79	17.192		
10,200.0	10,165.3	10,284.8	10,165.3	18.5	32.3	-90.60	268.1	-1,141.6	856.0	806.1	49.89	17.159		
10,300.0	10,265.3	10,384.8	10,265.3	18.6	32.3	-90.60	268.1	-1,141.6	856.0	806.0	49.98	17.126		
10,400.0	10,365.3	10,484.8	10,365.3	18.7	32.3	-90.60	268.1	-1,141.6	856.0	805.9	50.08	17.093		
10,500.0	10,465.3	10,584.8	10,465.3	18.7	32.4	-90.60	268.1	-1,141.6	856.0	805.8	50.18	17.061		
10,600.0	10,565.3	10,684.8	10,565.3	18.8	32.4	-90.60	268.1	-1,141.6	856.0	805.7	50.27	17.028		
10,700.0	10,665.3	10,784.8	10,665.3	18.9	32.4	-90.60	268.1	-1,141.6	856.0	805.6	50.37	16.995		
10,800.0	10,765.3	10,884.8	10,765.3	19.0	32.5	-90.60	268.1	-1,141.6	856.0	805.6	50.47	16.962		
10,900.0	10,865.3	10,984.8	10,865.3	19.0	32.5	-90.60	268.1	-1,141.6	856.0	805.5	50.56	16.930		
11,000.0	10,965.3	11,084.8	10,965.3	19.1	32.5	-90.60	268.1	-1,141.6	856.0	805.4	50.66	16.897		
11,100.0	11,065.3	11,184.8	11,065.3	19.2	32.6	-90.60	268.1	-1,141.6	856.0	805.3	50.76	16.864		
11,200.0	11,165.3	11,284.8	11,165.3	19.3	32.6	-90.60	268.1	-1,141.6	856.0	805.2	50.86	16.832		
11,300.0	11,265.3	11,384.8	11,265.3	19.3	32.7	-90.60	268.1	-1,141.6	856.0	805.1	50.96	16.799		
11,400.0	11,365.3	11,484.8	11,365.3	19.4	32.7	-90.60	268.1	-1,141.6	856.0	805.0	51.06	16.766		
11,500.0	11,465.3	11,584.8	11,465.3	19.5	32.7	-90.60	268.1	-1,141.6	856.0	804.9	51.16	16.734		
11,600.0	11,565.3	11,684.8	11,565.3	19.5	32.8	-90.60	268.1	-1,141.6	856.0	804.8	51.25	16.701		
11,700.0	11,665.3	11,784.8	11,665.3	19.6	32.8	-90.60	268.1	-1,141.6	856.0	804.7	51.35	16.669		
11,741.2	11,706.5	11,826.0	11,706.5	19.6	32.8	-90.60	268.1	-1,141.6	856.0	804.6	51.38	16.660		
11,750.0	11,715.3	11,834.7	11,715.3	19.6	32.8	89.77	268.0	-1,141.6	856.0	804.6	51.38	16.659		
11,775.0	11,740.3	11,859.5	11,740.1	19.6	32.8	89.77	266.9	-1,141.6	856.0	804.6	51.38	16.661		
11,800.0	11,765.2	11,884.4	11,764.8	19.6	32.8	89.78	264.5	-1,141.6	856.0	804.6	51.37	16.664		
11,825.0	11,789.9	11,909.2	11,789.3	19.5	32.7	89.78	260.8	-1,141.6	856.0	804.7	51.36	16.667		
11,850.0	11,814.4	11,934.0	11,813.6	19.5	32.7	89.78	255.9	-1,141.5	856.0	804.7	51.35	16.671		
11,875.0	11,838.6	11,958.9	11,837.7	19.4	32.7	89.78	249.7	-1,141.5	856.0	804.7	51.34	16.675		
11,900.0	11,862.4	11,983.7	11,861.4	19.3	32.6	89.79	242.3	-1,141.5	856.0	804.7	51.32	16.679		
11,925.0	11,885.8	12,008.5	11,884.6	19.3	32.6	89.79	233.6	-1,141.4	856.0	804.7	51.31	16.684		
11,950.0	11,908.7	12,033.4	11,907.4	19.2	32.6	89.79	223.7	-1,141.3	856.0	804.7	51.29	16.689		
11,975.0	11,931.1	12,058.2	11,929.7	19.2	32.5	89.80	212.7	-1,141.3	856.0	804.7	51.28	16.694		
12,000.0	11,952.8	12,083.1	11,951.3	19.1	32.5	89.81	200.5	-1,141.2	856.0	804.8	51.26	16.698		
12,025.0	11,973.9	12,107.9	11,972.3	19.1	32.5	89.81	187.2	-1,141.1	856.0	804.8	51.25	16.703		
12,050.0	11,994.2	12,132.8	11,992.6	19.0	32.4	89.82	172.9	-1,141.0	856.0	804.8	51.24	16.707		
12,075.0	12,013.8	12,157.6	12,012.1	19.0	32.4	89.83	157.5	-1,140.9	856.0	804.8	51.22	16.711		
12,100.0	12,032.5	12,182.5	12,030.8	18.9	32.4	89.83	141.0	-1,140.8	856.0	804.8	51.21	16.715		
12,125.0	12,050.3	12,207.4	12,048.6	18.9	32.3	89.84	123.7	-1,140.7	856.0	804.8	51.20	16.717		
12,150.0	12,067.2	12,232.3	12,065.5	18.8	32.3	89.85	105.4	-1,140.6	856.0	804.8	51.20	16.720		
12,175.0	12,083.0	12,257.1	12,081.4	18.8	32.3	89.86	86.3	-1,140.4	856.0	804.8	51.19	16.721		
12,200.0	12,097.9	12,282.0	12,096.3	18.8	32.3	89.87	66.3	-1,140.3	856.0	804.8	51.19	16.721		
12,225.0	12,111.7	12,306.9	12,110.2	18.8	32.3	89.88	45.6	-1,140.2	856.0	804.8	51.20	16.720		
12,250.0	12,124.3	12,331.9	12,122.9	18.7	32.3	89.89	24.2	-1,140.0	856.0	804.8	51.20	16.718		
12,275.0	12,135.9	12,356.8	12,134.5	18.7	32.3	89.90	2.2	-1,139.9	856.0	804.8	51.21	16.714		
12,300.0	12,146.2	12,381.7	12,145.0	18.7	32.3	89.91	-20.4	-1,139.7	856.0	804.8	51.23	16.710		
12,325.0	12,155.3	12,406.6	12,154.3	18.7	32.3	89.92	-43.6	-1,139.6	856.0	804.8	51.25	16.703		
12,350.0	12,163.2	12,431.6	12,162.3	18.7	32.3	89.93	-67.2	-1,139.4	856.0	804.7	51.27	16.696		
12,375.0	12,169.9	12,456.5	12,169.1	18.7	32.3	89.94	-91.2	-1,139.3	856.0	804.7	51.30	16.687		
12,400.0	12,175.3	12,481.5	12,174.6	18.7	32.3	89.96	-115.5	-1,139.1	856.0	804.7	51.33	16.676		
12,425.0	12,179.4	12,506.5	12,178.9	18.7	32.3	89.97	-140.1	-1,139.0	856.0	804.6	51.37	16.664		
12,450.0	12,182.2	12,531.4	12,181.9	18.7	32.3	89.98	-164.9	-1,138.8	856.0	804.6	51.41	16.650		
12,475.0	12,183.7	12,556.4	12,183.6	18.8	32.3	89.99	-189.8	-1,138.6	856.0	804.5	51.46	16.635		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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	
12,491.2	12,184.0	12,572.6	12,184.0	18.8	32.3	90.00	-206.0	-1,138.5	856.0	804.5	51.49	16.625		
12,500.0	12,184.0	12,581.4	12,184.0	18.8	32.4	90.00	-214.8	-1,138.5	856.0	804.5	51.51	16.618		
12,600.0	12,184.0	12,681.4	12,184.0	18.9	32.5	90.00	-314.8	-1,137.8	856.0	804.2	51.79	16.529		
12,700.0	12,184.0	12,781.4	12,184.0	19.1	32.6	90.00	-414.8	-1,137.2	856.0	803.9	52.13	16.419		
12,800.0	12,184.0	12,881.4	12,184.0	19.3	32.8	90.00	-514.8	-1,136.5	856.0	803.4	52.55	16.290		
12,900.0	12,184.0	12,981.4	12,184.0	19.6	33.0	90.00	-614.8	-1,135.9	856.0	803.0	53.03	16.143		
13,000.0	12,184.0	13,081.4	12,184.0	19.9	33.3	90.00	-714.8	-1,135.2	856.0	802.4	53.57	15.979		
13,100.0	12,184.0	13,181.4	12,184.0	20.3	33.5	90.00	-814.8	-1,134.6	856.0	801.8	54.17	15.800		
13,200.0	12,184.0	13,281.4	12,184.0	20.7	33.8	90.00	-914.8	-1,133.9	856.0	801.1	54.84	15.609		
13,300.0	12,184.0	13,381.4	12,184.0	21.2	34.1	90.00	-1,014.8	-1,133.3	856.0	800.4	55.56	15.406		
13,400.0	12,184.0	13,481.4	12,184.0	21.6	34.4	90.00	-1,114.8	-1,132.6	856.0	799.6	56.34	15.193		
13,500.0	12,184.0	13,581.4	12,184.0	22.2	34.8	90.00	-1,214.8	-1,132.0	856.0	798.8	57.17	14.972		
13,600.0	12,184.0	13,681.4	12,184.0	22.7	35.2	90.00	-1,314.8	-1,131.3	856.0	797.9	58.05	14.745		
13,700.0	12,184.0	13,781.4	12,184.0	23.3	35.6	90.00	-1,414.8	-1,130.7	856.0	797.0	58.98	14.512		
13,800.0	12,184.0	13,881.4	12,184.0	23.9	36.0	90.00	-1,514.8	-1,130.0	856.0	796.0	59.96	14.276		
13,900.0	12,184.0	13,981.4	12,184.0	24.5	36.4	90.00	-1,614.8	-1,129.4	856.0	795.0	60.98	14.037		
14,000.0	12,184.0	14,081.4	12,184.0	25.2	36.9	90.00	-1,714.8	-1,128.7	856.0	793.9	62.04	13.797		
14,100.0	12,184.0	14,181.4	12,184.0	25.9	37.3	90.00	-1,814.8	-1,128.1	856.0	792.8	63.14	13.556		
14,200.0	12,184.0	14,281.4	12,184.0	26.6	37.8	90.00	-1,914.8	-1,127.4	856.0	791.7	64.28	13.316		
14,300.0	12,184.0	14,381.4	12,184.0	27.3	38.3	90.00	-2,014.8	-1,126.8	856.0	790.5	65.46	13.077		
14,400.0	12,184.0	14,481.4	12,184.0	28.0	38.9	90.00	-2,114.8	-1,126.1	855.9	789.3	66.66	12.840		
14,500.0	12,184.0	14,581.4	12,184.0	28.8	39.4	90.00	-2,214.8	-1,125.5	855.9	788.0	67.91	12.605		
14,600.0	12,184.0	14,681.4	12,184.0	29.5	40.0	90.00	-2,314.8	-1,124.9	855.9	786.8	69.18	12.373		
14,700.0	12,184.0	14,781.4	12,184.0	30.3	40.5	90.00	-2,414.8	-1,124.2	855.9	785.5	70.48	12.145		
14,800.0	12,184.0	14,881.4	12,184.0	31.1	41.1	90.00	-2,514.8	-1,123.6	855.9	784.1	71.80	11.921		
14,900.0	12,184.0	14,981.4	12,184.0	31.9	41.7	90.00	-2,614.8	-1,122.9	855.9	782.8	73.15	11.700		
15,000.0	12,184.0	15,081.4	12,184.0	32.7	42.3	90.00	-2,714.8	-1,122.3	855.9	781.4	74.53	11.484		
15,100.0	12,184.0	15,181.4	12,184.0	33.5	43.0	90.00	-2,814.8	-1,121.6	855.9	780.0	75.93	11.273		
15,200.0	12,184.0	15,281.4	12,184.0	34.3	43.6	90.00	-2,914.8	-1,121.0	855.9	778.6	77.35	11.066		
15,300.0	12,184.0	15,381.4	12,184.0	35.1	44.2	90.00	-3,014.8	-1,120.3	855.9	777.1	78.79	10.863		
15,400.0	12,184.0	15,481.4	12,184.0	36.0	44.9	90.00	-3,114.8	-1,119.7	855.9	775.7	80.25	10.666		
15,500.0	12,184.0	15,581.4	12,184.0	36.8	45.6	90.00	-3,214.8	-1,119.0	855.9	774.2	81.73	10.473		
15,600.0	12,184.0	15,681.4	12,184.0	37.6	46.3	90.00	-3,314.8	-1,118.4	855.9	772.7	83.22	10.284		
15,700.0	12,184.0	15,781.4	12,184.0	38.5	47.0	90.00	-3,414.8	-1,117.7	855.9	771.2	84.74	10.101		
15,800.0	12,184.0	15,881.4	12,184.0	39.4	47.7	90.00	-3,514.8	-1,117.1	855.9	769.6	86.26	9.922		
15,900.0	12,184.0	15,981.4	12,184.0	40.2	48.4	90.00	-3,614.8	-1,116.4	855.9	768.1	87.81	9.748		
16,000.0	12,184.0	16,081.4	12,184.0	41.1	49.1	90.00	-3,714.8	-1,115.8	855.9	766.5	89.36	9.578		
16,100.0	12,184.0	16,181.4	12,184.0	41.9	49.8	90.00	-3,814.8	-1,115.1	855.9	765.0	90.93	9.413		
16,200.0	12,184.0	16,281.4	12,184.0	42.8	50.5	90.00	-3,914.7	-1,114.5	855.9	763.4	92.51	9.252		
16,300.0	12,184.0	16,381.4	12,184.0	43.7	51.3	90.00	-4,014.7	-1,113.8	855.9	761.8	94.11	9.095		
16,400.0	12,184.0	16,481.4	12,184.0	44.6	52.0	90.00	-4,114.7	-1,113.2	855.9	760.2	95.71	8.943		
16,500.0	12,184.0	16,581.4	12,184.0	45.5	52.8	90.00	-4,214.7	-1,112.5	855.9	758.6	97.33	8.794		
16,600.0	12,184.0	16,681.4	12,184.0	46.4	53.6	90.00	-4,314.7	-1,111.9	855.9	756.9	98.95	8.650		
16,700.0	12,184.0	16,781.4	12,184.0	47.2	54.3	90.00	-4,414.7	-1,111.2	855.9	755.3	100.59	8.509		
16,800.0	12,184.0	16,881.4	12,184.0	48.1	55.1	90.00	-4,514.7	-1,110.6	855.9	753.7	102.23	8.372		
16,900.0	12,184.0	16,981.4	12,184.0	49.0	55.9	90.00	-4,614.7	-1,109.9	855.9	752.0	103.89	8.239		
17,000.0	12,184.0	17,081.4	12,184.0	49.9	56.7	90.00	-4,714.7	-1,109.3	855.9	750.3	105.55	8.109		
17,100.0	12,184.0	17,181.4	12,184.0	50.8	57.5	90.00	-4,814.7	-1,108.6	855.9	748.7	107.22	7.983		
17,200.0	12,184.0	17,281.4	12,184.0	51.7	58.3	90.00	-4,914.7	-1,108.0	855.9	747.0	108.89	7.860		
17,300.0	12,184.0	17,381.4	12,184.0	52.7	59.1	90.00	-5,014.7	-1,107.3	855.9	745.3	110.58	7.740		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		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)			
17,400.0	12,184.0	17,481.4	12,184.0	53.6	59.9	90.00	-5,114.7	-1,106.7	855.9	743.6	112.27	7.623	
17,500.0	12,184.0	17,581.4	12,184.0	54.5	60.7	90.00	-5,214.7	-1,106.0	855.9	741.9	113.97	7.510	
17,600.0	12,184.0	17,681.4	12,184.0	55.4	61.5	90.00	-5,314.7	-1,105.4	855.9	740.2	115.67	7.399	
17,700.0	12,184.0	17,781.4	12,184.0	56.3	62.3	90.00	-5,414.7	-1,104.7	855.9	738.5	117.38	7.291	
17,800.0	12,184.0	17,881.4	12,184.0	57.2	63.2	90.00	-5,514.7	-1,104.1	855.9	736.8	119.10	7.186	
17,900.0	12,184.0	17,981.4	12,184.0	58.1	64.0	90.00	-5,614.7	-1,103.4	855.9	735.0	120.82	7.084	
18,000.0	12,184.0	18,081.4	12,184.0	59.0	64.8	90.00	-5,714.7	-1,102.8	855.9	733.3	122.55	6.984	
18,100.0	12,184.0	18,181.4	12,184.0	60.0	65.7	90.00	-5,814.7	-1,102.1	855.8	731.6	124.28	6.886	
18,200.0	12,184.0	18,281.4	12,184.0	60.9	66.5	90.00	-5,914.7	-1,101.5	855.8	729.8	126.02	6.791	
18,300.0	12,184.0	18,381.4	12,184.0	61.8	67.3	90.00	-6,014.7	-1,100.8	855.8	728.1	127.76	6.699	
18,400.0	12,184.0	18,481.4	12,184.0	62.7	68.2	90.00	-6,114.7	-1,100.2	855.8	726.3	129.51	6.608	
18,500.0	12,184.0	18,581.4	12,184.0	63.7	69.0	90.00	-6,214.7	-1,099.5	855.8	724.6	131.26	6.520	
18,600.0	12,184.0	18,681.4	12,184.0	64.6	69.9	90.00	-6,314.7	-1,098.9	855.8	722.8	133.01	6.434	
18,700.0	12,184.0	18,781.4	12,184.0	65.5	70.7	90.00	-6,414.7	-1,098.2	855.8	721.1	134.77	6.350	
18,800.0	12,184.0	18,881.4	12,184.0	66.4	71.6	90.00	-6,514.7	-1,097.6	855.8	719.3	136.54	6.268	
18,900.0	12,184.0	18,981.4	12,184.0	67.4	72.5	90.00	-6,614.7	-1,096.9	855.8	717.5	138.30	6.188	
19,000.0	12,184.0	19,081.4	12,184.0	68.3	73.3	90.00	-6,714.7	-1,096.3	855.8	715.8	140.07	6.110	
19,100.0	12,184.0	19,181.4	12,184.0	69.2	74.2	90.00	-6,814.7	-1,095.6	855.8	714.0	141.84	6.034	
19,200.0	12,184.0	19,281.4	12,184.0	70.2	75.1	90.00	-6,914.7	-1,095.0	855.8	712.2	143.62	5.959	
19,300.0	12,184.0	19,381.4	12,184.0	71.1	75.9	90.00	-7,014.7	-1,094.3	855.8	710.4	145.40	5.886	
19,400.0	12,184.0	19,481.4	12,184.0	72.0	76.8	90.00	-7,114.7	-1,093.7	855.8	708.6	147.18	5.815	
19,442.8	12,184.0	19,524.2	12,184.0	72.4	77.2	90.00	-7,157.5	-1,093.4	855.8	707.9	147.95	5.785 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	179.78	-29.8	0.1	29.8	29.4	0.48	62.231	
100.0	100.0	100.0	100.0	1.2	1.2	179.78	-29.8	0.1	29.8	27.0	2.87	10.407	
200.0	200.0	200.0	200.0	1.7	1.7	179.78	-29.8	0.1	29.8	26.0	3.86	7.723	
300.0	300.0	300.0	300.0	2.1	2.1	179.78	-29.8	0.1	29.8	25.2	4.63	6.439	
400.0	400.0	400.0	400.0	2.4	2.4	179.78	-29.8	0.1	29.8	24.5	5.29	5.643	
500.0	500.0	500.0	500.0	2.7	2.7	179.78	-29.8	0.1	29.8	24.0	5.87	5.086	
600.0	600.0	600.0	600.0	3.0	3.0	179.78	-29.8	0.1	29.8	23.4	6.39	4.666	
700.0	700.0	700.0	700.0	3.2	3.2	179.78	-29.8	0.1	29.8	23.0	6.88	4.336	
800.0	800.0	800.0	800.0	3.5	3.5	179.78	-29.8	0.1	29.8	22.5	7.34	4.065	
900.0	900.0	900.0	900.0	3.7	3.7	179.78	-29.8	0.1	29.8	22.1	7.77	3.839	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	179.78	-29.8	0.1	29.8	21.7	8.18	3.646 CC	
1,100.0	1,100.0	1,100.6	1,100.6	4.2	4.2	-133.98	-28.8	-1.3	30.0	21.4	8.67	3.466 ES	
1,200.0	1,199.8	1,201.2	1,201.0	4.5	4.5	-132.93	-25.8	-5.7	30.7	21.5	9.13	3.358	
1,300.0	1,299.5	1,301.8	1,301.2	4.9	4.9	-131.27	-20.7	-12.9	31.7	22.2	9.58	3.312 SF	
1,400.0	1,398.7	1,402.4	1,401.0	5.2	5.2	-129.14	-13.7	-23.0	33.3	23.3	10.02	3.322	
1,500.0	1,497.5	1,502.9	1,500.3	5.6	5.6	-126.67	-4.6	-36.0	35.3	24.9	10.44	3.384	
1,586.0	1,582.0	1,589.4	1,585.3	5.8	5.9	-124.40	4.8	-49.4	37.5	26.7	10.75	3.486	
1,600.0	1,595.6	1,603.4	1,599.0	5.9	5.9	-123.99	6.5	-51.7	37.9	27.1	10.79	3.509	
1,700.0	1,693.5	1,703.4	1,696.7	6.2	6.3	-121.11	18.4	-68.8	40.5	29.3	11.19	3.620	
1,800.0	1,791.5	1,803.3	1,794.5	6.6	6.6	-118.59	30.3	-85.8	43.3	31.7	11.55	3.746	
1,900.0	1,889.4	1,903.2	1,892.2	6.9	6.9	-116.38	42.2	-102.8	46.1	34.2	11.90	3.870	
2,000.0	1,987.3	2,003.2	1,990.0	7.3	7.3	-114.43	54.2	-119.8	48.9	36.7	12.26	3.992	
2,100.0	2,085.2	2,103.1	2,087.8	7.6	7.7	-112.69	66.1	-136.9	51.9	39.3	12.62	4.110	
2,200.0	2,183.1	2,203.1	2,185.5	8.0	8.0	-111.14	78.0	-153.9	54.8	41.9	12.98	4.224	
2,300.0	2,281.0	2,303.0	2,283.3	8.4	8.4	-109.75	89.9	-170.9	57.9	44.5	13.35	4.335	
2,400.0	2,378.9	2,403.0	2,381.1	8.8	8.8	-108.50	101.8	-187.9	60.9	47.2	13.71	4.441	
2,500.0	2,476.9	2,502.9	2,478.8	9.2	9.2	-107.37	113.7	-204.9	64.0	49.9	14.08	4.544	
2,600.0	2,574.8	2,602.9	2,576.6	9.6	9.7	-106.34	125.7	-222.0	67.0	52.6	14.44	4.642	
2,662.6	2,636.1	2,665.4	2,637.8	9.9	9.9	-105.74	133.1	-232.6	69.0	54.3	14.65	4.711	
2,700.0	2,672.7	2,702.8	2,674.3	10.0	10.1	-105.32	137.6	-239.0	70.1	55.4	14.75	4.753	
2,800.0	2,770.9	2,802.7	2,772.1	10.4	10.5	-103.33	149.5	-256.0	72.9	57.8	15.06	4.838	
2,900.0	2,869.5	2,902.6	2,869.8	10.8	10.9	-100.19	161.4	-273.0	75.4	60.1	15.33	4.919	
3,000.0	2,968.3	3,002.4	2,967.4	11.2	11.4	-96.00	173.3	-290.0	77.9	62.3	15.61	4.994	
3,100.0	3,067.3	3,102.1	3,064.9	11.7	11.8	-90.87	185.2	-307.0	80.8	64.8	15.98	5.057	
3,200.0	3,166.6	3,201.7	3,162.3	12.0	12.2	-84.96	197.1	-324.0	84.4	67.9	16.56	5.099	
3,300.0	3,266.1	3,301.1	3,259.5	12.4	12.7	-78.52	208.9	-340.9	89.2	71.8	17.43	5.118	
3,400.0	3,365.7	3,400.3	3,356.6	12.8	13.1	-71.84	220.8	-357.8	95.6	77.0	18.62	5.133	
3,500.0	3,465.5	3,499.3	3,453.4	13.2	13.5	-65.20	232.6	-374.6	103.8	83.8	20.06	5.175	
3,600.0	3,565.4	3,597.7	3,549.7	13.5	14.0	-59.13	243.9	-391.3	114.2	92.7	21.56	5.297	
3,700.0	3,665.3	3,696.0	3,646.2	13.8	14.4	-54.85	252.2	-407.8	127.0	104.1	22.90	5.543	
3,800.0	3,765.3	3,794.5	3,743.3	14.1	14.8	-52.20	257.2	-423.9	141.4	117.5	23.98	5.899	
3,834.7	3,800.0	3,828.7	3,777.0	14.1	14.9	-97.48	258.1	-429.4	146.8	122.5	24.26	6.052	
3,900.0	3,865.3	3,893.1	3,840.6	14.1	15.2	-96.69	258.9	-439.7	157.0	132.4	24.69	6.361	
4,000.0	3,965.3	3,991.8	3,938.1	14.2	15.5	-95.82	259.7	-455.4	172.8	147.4	25.35	6.816	
4,100.0	4,065.3	4,090.6	4,035.6	14.3	15.9	-95.09	260.5	-471.1	188.5	162.5	25.99	7.255	
4,200.0	4,165.3	4,189.3	4,133.0	14.3	16.3	-94.47	261.3	-486.8	204.3	177.7	26.62	7.677	
4,300.0	4,265.3	4,288.0	4,230.5	14.4	16.7	-93.94	262.1	-502.5	220.1	192.9	27.23	8.084	
4,400.0	4,365.3	4,386.7	4,328.0	14.5	17.1	-93.49	262.8	-518.2	236.0	208.1	27.84	8.476	
4,500.0	4,465.3	4,485.5	4,425.4	14.5	17.4	-93.09	263.6	-533.9	251.8	223.4	28.44	8.853	
4,600.0	4,565.3	4,584.2	4,522.9	14.6	17.8	-92.73	264.4	-549.6	267.6	238.6	29.04	9.217	
4,700.0	4,665.3	4,682.9	4,620.3	14.7	18.2	-92.42	265.2	-565.3	283.5	253.9	29.63	9.568	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		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)				
4,800.0	4,765.3	4,781.6	4,717.8	14.7	18.6	-92.14	266.0	-581.0	299.4	269.1	30.22	9.905		
4,900.0	4,865.3	4,880.3	4,815.3	14.8	19.0	-91.89	266.7	-596.7	315.2	284.4	30.81	10.230		
5,000.0	4,965.3	4,979.1	4,912.7	14.9	19.4	-91.66	267.5	-612.4	331.1	299.7	31.40	10.544		
5,100.0	5,065.3	5,077.8	5,010.2	14.9	19.8	-91.45	268.3	-628.1	347.0	315.0	31.99	10.846		
5,200.0	5,165.3	5,177.9	5,109.0	15.0	20.2	-91.26	269.1	-644.0	362.8	330.3	32.57	11.142		
5,300.0	5,265.3	5,283.6	5,213.6	15.1	20.6	-91.09	269.9	-659.5	377.4	344.3	33.15	11.385		
5,400.0	5,365.3	5,389.9	5,319.0	15.1	21.1	-90.95	270.5	-673.1	390.2	356.5	33.72	11.571		
5,500.0	5,465.3	5,496.7	5,425.1	15.2	21.5	-90.84	271.1	-684.7	401.2	366.9	34.27	11.707		
5,600.0	5,565.3	5,603.8	5,531.9	15.3	21.9	-90.76	271.6	-694.5	410.2	375.5	34.78	11.796		
5,700.0	5,665.3	5,711.3	5,639.1	15.3	22.2	-90.69	272.0	-702.3	417.5	382.2	35.25	11.842		
5,800.0	5,765.3	5,819.1	5,746.7	15.4	22.6	-90.64	272.3	-708.0	422.8	387.1	35.69	11.848		
5,900.0	5,865.3	5,927.0	5,854.5	15.5	22.9	-90.61	272.5	-711.8	426.3	390.2	36.07	11.819		
6,000.0	5,965.3	6,035.0	5,962.5	15.5	23.1	-90.59	272.6	-713.5	427.9	391.5	36.34	11.775		
6,100.0	6,065.3	6,137.8	6,065.3	15.6	23.2	-90.59	272.6	-713.6	428.0	391.6	36.45	11.743		
6,200.0	6,165.3	6,237.8	6,165.3	15.7	23.2	-90.59	272.6	-713.6	428.0	391.4	36.55	11.709		
6,300.0	6,265.3	6,337.8	6,265.3	15.7	23.3	-90.59	272.6	-713.6	428.0	391.3	36.66	11.675		
6,400.0	6,365.3	6,437.8	6,365.3	15.8	23.3	-90.59	272.6	-713.6	428.0	391.2	36.77	11.641		
6,500.0	6,465.3	6,537.8	6,465.3	15.9	23.4	-90.59	272.6	-713.6	428.0	391.1	36.87	11.607		
6,600.0	6,565.3	6,637.8	6,565.3	16.0	23.4	-90.59	272.6	-713.6	428.0	391.0	36.98	11.573		
6,700.0	6,665.3	6,737.8	6,665.3	16.0	23.4	-90.59	272.6	-713.6	428.0	390.9	37.09	11.539		
6,800.0	6,765.3	6,837.8	6,765.3	16.1	23.5	-90.59	272.6	-713.6	428.0	390.8	37.20	11.506		
6,900.0	6,865.3	6,937.8	6,865.3	16.2	23.5	-90.59	272.6	-713.6	428.0	390.7	37.31	11.472		
7,000.0	6,965.3	7,037.8	6,965.3	16.2	23.6	-90.59	272.6	-713.6	428.0	390.6	37.42	11.439		
7,100.0	7,065.3	7,137.8	7,065.3	16.3	23.6	-90.59	272.6	-713.6	428.0	390.5	37.53	11.405		
7,200.0	7,165.3	7,237.8	7,165.3	16.4	23.6	-90.59	272.6	-713.6	428.0	390.4	37.64	11.372		
7,300.0	7,265.3	7,337.8	7,265.3	16.4	23.7	-90.59	272.6	-713.6	428.0	390.3	37.75	11.339		
7,400.0	7,365.3	7,437.8	7,365.3	16.5	23.7	-90.59	272.6	-713.6	428.0	390.1	37.86	11.306		
7,500.0	7,465.3	7,537.8	7,465.3	16.6	23.8	-90.59	272.6	-713.6	428.0	390.0	37.97	11.273		
7,600.0	7,565.3	7,637.8	7,565.3	16.7	23.8	-90.59	272.6	-713.6	428.0	389.9	38.08	11.240		
7,700.0	7,665.3	7,737.8	7,665.3	16.7	23.9	-90.59	272.6	-713.6	428.0	389.8	38.19	11.207		
7,800.0	7,765.3	7,837.8	7,765.3	16.8	23.9	-90.59	272.6	-713.6	428.0	389.7	38.30	11.174		
7,900.0	7,865.3	7,937.8	7,865.3	16.9	23.9	-90.59	272.6	-713.6	428.0	389.6	38.42	11.141		
8,000.0	7,965.3	8,037.8	7,965.3	16.9	24.0	-90.59	272.6	-713.6	428.0	389.5	38.53	11.109		
8,100.0	8,065.3	8,137.8	8,065.3	17.0	24.0	-90.59	272.6	-713.6	428.0	389.4	38.64	11.076		
8,200.0	8,165.3	8,237.8	8,165.3	17.1	24.1	-90.59	272.6	-713.6	428.0	389.2	38.76	11.044		
8,300.0	8,265.3	8,337.8	8,265.3	17.1	24.1	-90.59	272.6	-713.6	428.0	389.1	38.87	11.011		
8,400.0	8,365.3	8,437.8	8,365.3	17.2	24.2	-90.59	272.6	-713.6	428.0	389.0	38.98	10.979		
8,500.0	8,465.3	8,537.8	8,465.3	17.3	24.2	-90.59	272.6	-713.6	428.0	388.9	39.10	10.947		
8,600.0	8,565.3	8,637.8	8,565.3	17.4	24.2	-90.59	272.6	-713.6	428.0	388.8	39.21	10.915		
8,700.0	8,665.3	8,737.8	8,665.3	17.4	24.3	-90.59	272.6	-713.6	428.0	388.7	39.33	10.883		
8,800.0	8,765.3	8,837.8	8,765.3	17.5	24.3	-90.59	272.6	-713.6	428.0	388.6	39.44	10.851		
8,900.0	8,865.3	8,937.8	8,865.3	17.6	24.4	-90.59	272.6	-713.6	428.0	388.4	39.56	10.819		
9,000.0	8,965.3	9,037.8	8,965.3	17.7	24.4	-90.59	272.6	-713.6	428.0	388.3	39.68	10.788		
9,100.0	9,065.3	9,137.8	9,065.3	17.7	24.5	-90.59	272.6	-713.6	428.0	388.2	39.79	10.756		
9,200.0	9,165.3	9,237.8	9,165.3	17.8	24.5	-90.59	272.6	-713.6	428.0	388.1	39.91	10.725		
9,300.0	9,265.3	9,337.8	9,265.3	17.9	24.6	-90.59	272.6	-713.6	428.0	388.0	40.03	10.693		
9,400.0	9,365.3	9,437.8	9,365.3	17.9	24.6	-90.59	272.6	-713.6	428.0	387.9	40.14	10.662		
9,500.0	9,465.3	9,537.8	9,465.3	18.0	24.6	-90.59	272.6	-713.6	428.0	387.7	40.26	10.631		
9,600.0	9,565.3	9,637.8	9,565.3	18.1	24.7	-90.59	272.6	-713.6	428.0	387.6	40.38	10.600		
9,700.0	9,665.3	9,737.8	9,665.3	18.2	24.7	-90.59	272.6	-713.6	428.0	387.5	40.50	10.569		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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)	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)				
9,800.0	9,765.3	9,837.8	9,765.3	18.2	24.8	-90.59	272.6	-713.6	428.0	387.4	40.62	10.538		
9,900.0	9,865.3	9,937.8	9,865.3	18.3	24.8	-90.59	272.6	-713.6	428.0	387.3	40.73	10.507		
10,000.0	9,965.3	10,037.8	9,965.3	18.4	24.9	-90.59	272.6	-713.6	428.0	387.1	40.85	10.476		
10,100.0	10,065.3	10,137.8	10,065.3	18.4	24.9	-90.59	272.6	-713.6	428.0	387.0	40.97	10.446		
10,200.0	10,165.3	10,237.8	10,165.3	18.5	25.0	-90.59	272.6	-713.6	428.0	386.9	41.09	10.415		
10,300.0	10,265.3	10,337.8	10,265.3	18.6	25.0	-90.59	272.6	-713.6	428.0	386.8	41.21	10.385		
10,400.0	10,365.3	10,437.8	10,365.3	18.7	25.1	-90.59	272.6	-713.6	428.0	386.7	41.33	10.355		
10,500.0	10,465.3	10,537.8	10,465.3	18.7	25.1	-90.59	272.6	-713.6	428.0	386.5	41.45	10.325		
10,600.0	10,565.3	10,637.8	10,565.3	18.8	25.2	-90.59	272.6	-713.6	428.0	386.4	41.57	10.295		
10,700.0	10,665.3	10,737.8	10,665.3	18.9	25.2	-90.59	272.6	-713.6	428.0	386.3	41.70	10.265		
10,800.0	10,765.3	10,837.8	10,765.3	19.0	25.3	-90.59	272.6	-713.6	428.0	386.2	41.82	10.235		
10,900.0	10,865.3	10,937.8	10,865.3	19.0	25.3	-90.59	272.6	-713.6	428.0	386.1	41.94	10.205		
11,000.0	10,965.3	11,037.8	10,965.3	19.1	25.4	-90.59	272.6	-713.6	428.0	385.9	42.06	10.176		
11,100.0	11,065.3	11,137.8	11,065.3	19.2	25.4	-90.59	272.6	-713.6	428.0	385.8	42.18	10.146		
11,200.0	11,165.3	11,237.8	11,165.3	19.3	25.5	-90.59	272.6	-713.6	428.0	385.7	42.31	10.117		
11,300.0	11,265.3	11,337.8	11,265.3	19.3	25.5	-90.59	272.6	-713.6	428.0	385.6	42.43	10.088		
11,400.0	11,365.3	11,437.8	11,365.3	19.4	25.6	-90.59	272.6	-713.6	428.0	385.4	42.55	10.058		
11,500.0	11,465.3	11,537.8	11,465.3	19.5	25.6	-90.59	272.6	-713.6	428.0	385.3	42.67	10.029		
11,600.0	11,565.3	11,637.8	11,565.3	19.5	25.7	-90.59	272.6	-713.6	428.0	385.2	42.80	10.000		
11,700.0	11,665.3	11,737.8	11,665.3	19.6	25.7	-90.59	272.6	-713.6	428.0	385.1	42.92	9.972		
11,741.2	11,706.5	11,779.0	11,706.5	19.6	25.7	-90.59	272.6	-713.6	428.0	385.0	42.96	9.962		
11,750.0	11,715.3	11,787.8	11,715.3	19.6	25.7	89.79	272.6	-713.6	428.0	385.0	42.97	9.960		
11,775.0	11,740.3	11,812.8	11,740.3	19.6	25.7	89.94	272.6	-713.6	428.0	385.0	43.00	9.953		
11,781.0	11,746.3	11,818.8	11,746.3	19.6	25.7	90.00	272.6	-713.6	428.0	385.0	43.01	9.950		
11,800.0	11,765.2	11,837.7	11,765.2	19.6	25.8	90.26	272.6	-713.6	428.0	384.9	43.06	9.940		
11,825.0	11,789.9	11,862.4	11,789.9	19.5	25.8	90.75	272.6	-713.6	428.0	384.9	43.14	9.923		
11,850.0	11,814.4	11,886.9	11,814.4	19.5	25.8	91.39	272.6	-713.6	428.1	384.9	43.24	9.901		
11,875.0	11,838.6	11,911.1	11,838.6	19.4	25.8	92.18	272.6	-713.6	428.3	385.0	43.36	9.879		
11,900.0	11,862.4	11,934.9	11,862.4	19.3	25.8	93.10	272.6	-713.6	428.7	385.2	43.49	9.856		
11,925.0	11,885.8	11,958.3	11,885.8	19.3	25.8	94.12	272.6	-713.6	429.3	385.6	43.64	9.836		
11,950.0	11,908.7	11,983.1	11,910.6	19.2	25.8	95.28	272.1	-713.6	430.1	386.4	43.77	9.828		
11,975.0	11,931.1	12,008.8	11,936.2	19.2	25.8	96.46	270.3	-713.6	431.2	387.3	43.86	9.832		
12,000.0	11,952.8	12,035.0	11,962.3	19.1	25.7	97.62	267.0	-713.6	432.5	388.5	43.91	9.848		
12,025.0	11,973.9	12,061.9	11,988.7	19.1	25.7	98.78	262.1	-713.6	433.9	390.0	43.94	9.874		
12,050.0	11,994.2	12,089.5	12,015.5	19.0	25.6	99.93	255.6	-713.5	435.5	391.6	43.95	9.911		
12,075.0	12,013.8	12,117.8	12,042.6	19.0	25.6	101.07	247.4	-713.5	437.3	393.4	43.92	9.957		
12,100.0	12,032.5	12,146.9	12,069.8	18.9	25.5	102.18	237.2	-713.4	439.3	395.4	43.88	10.012		
12,125.0	12,050.3	12,176.8	12,097.1	18.9	25.5	103.28	225.1	-713.3	441.3	397.5	43.81	10.074		
12,150.0	12,067.2	12,207.5	12,124.3	18.8	25.5	104.35	210.8	-713.2	443.5	399.8	43.73	10.142		
12,175.0	12,083.0	12,239.1	12,151.3	18.8	25.4	105.39	194.4	-713.1	445.7	402.1	43.63	10.215		
12,200.0	12,097.9	12,271.5	12,177.8	18.8	25.4	106.39	175.7	-713.0	448.0	404.4	43.54	10.289		
12,225.0	12,111.7	12,304.9	12,203.7	18.8	25.3	107.36	154.7	-712.9	450.2	406.8	43.44	10.365		
12,250.0	12,124.3	12,339.2	12,228.6	18.7	25.3	108.27	131.2	-712.7	452.5	409.1	43.35	10.438		
12,275.0	12,135.9	12,374.4	12,252.5	18.7	25.2	109.13	105.3	-712.5	454.7	411.4	43.26	10.509		
12,300.0	12,146.2	12,410.4	12,274.9	18.7	25.2	109.93	77.0	-712.4	456.7	413.5	43.19	10.575		
12,325.0	12,155.3	12,447.4	12,295.5	18.7	25.2	110.66	46.4	-712.2	458.6	415.5	43.12	10.636		
12,350.0	12,163.2	12,485.2	12,314.1	18.7	25.2	111.31	13.5	-711.9	460.4	417.3	43.06	10.692		
12,375.0	12,169.9	12,523.7	12,330.3	18.7	25.2	111.87	-21.4	-711.7	461.9	418.9	43.00	10.741		
12,400.0	12,175.3	12,562.9	12,343.9	18.7	25.2	112.34	-58.2	-711.5	463.2	420.3	42.94	10.786		
12,425.0	12,179.4	12,602.6	12,354.5	18.7	25.2	112.70	-96.4	-711.2	464.2	421.3	42.88	10.826		
12,450.0	12,182.2	12,642.7	12,361.9	18.7	25.2	112.96	-135.8	-711.0	464.9	422.1	42.80	10.863		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis			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	
12,475.0	12,183.7	12,683.1	12,366.1	18.8	25.2	113.11	-176.0	-710.7	465.4	422.7	42.70	10.898		
12,491.2	12,184.0	12,709.3	12,367.0	18.8	25.3	113.15	-202.2	-710.5	465.5	422.8	42.63	10.919		
12,500.0	12,184.0	12,719.1	12,367.0	18.8	25.3	113.15	-212.0	-710.5	465.5	422.8	42.62	10.922		
12,600.0	12,184.0	12,819.1	12,367.0	18.9	25.4	113.15	-312.0	-709.8	465.5	422.8	42.65	10.915		
12,700.0	12,184.0	12,919.1	12,367.0	19.1	25.6	113.15	-412.0	-709.2	465.5	422.7	42.75	10.887		
12,800.0	12,184.0	13,019.1	12,367.0	19.3	25.9	113.15	-512.0	-708.5	465.5	422.5	42.94	10.839		
12,900.0	12,184.0	13,119.1	12,367.0	19.6	26.1	113.15	-612.0	-707.9	465.5	422.2	43.21	10.772		
13,000.0	12,184.0	13,219.1	12,367.0	19.9	26.4	113.15	-712.0	-707.2	465.5	421.9	43.56	10.687		
13,100.0	12,184.0	13,319.1	12,367.0	20.3	26.7	113.15	-812.0	-706.6	465.5	421.5	43.98	10.584		
13,200.0	12,184.0	13,419.1	12,367.0	20.7	27.1	113.15	-912.0	-705.9	465.5	421.0	44.47	10.466		
13,300.0	12,184.0	13,519.1	12,367.0	21.2	27.4	113.15	-1,012.0	-705.3	465.4	420.4	45.04	10.334		
13,400.0	12,184.0	13,619.1	12,367.0	21.6	27.8	113.15	-1,112.0	-704.6	465.4	419.8	45.68	10.190		
13,500.0	12,184.0	13,719.1	12,367.0	22.2	28.3	113.15	-1,212.0	-704.0	465.4	419.1	46.38	10.036		
13,600.0	12,184.0	13,819.1	12,367.0	22.7	28.7	113.15	-1,312.0	-703.3	465.4	418.3	47.14	9.873		
13,700.0	12,184.0	13,919.1	12,367.0	23.3	29.2	113.15	-1,412.0	-702.7	465.4	417.5	47.97	9.703		
13,800.0	12,184.0	14,019.1	12,367.0	23.9	29.7	113.15	-1,512.0	-702.0	465.4	416.6	48.85	9.528		
13,900.0	12,184.0	14,119.1	12,367.0	24.5	30.2	113.15	-1,612.0	-701.4	465.4	415.6	49.79	9.349		
14,000.0	12,184.0	14,219.1	12,367.0	25.2	30.8	113.15	-1,712.0	-700.7	465.4	414.7	50.77	9.167		
14,100.0	12,184.0	14,319.1	12,367.0	25.9	31.3	113.15	-1,812.0	-700.1	465.4	413.6	51.81	8.984		
14,200.0	12,184.0	14,419.1	12,367.0	26.6	31.9	113.15	-1,912.0	-699.4	465.4	412.5	52.89	8.800		
14,300.0	12,184.0	14,519.1	12,367.0	27.3	32.5	113.15	-2,012.0	-698.8	465.4	411.4	54.01	8.618		
14,400.0	12,184.0	14,619.1	12,367.0	28.0	33.1	113.15	-2,112.0	-698.1	465.4	410.3	55.17	8.436		
14,500.0	12,184.0	14,719.1	12,367.0	28.8	33.8	113.15	-2,212.0	-697.5	465.4	409.1	56.37	8.257		
14,600.0	12,184.0	14,819.1	12,367.0	29.5	34.4	113.15	-2,312.0	-696.8	465.4	407.8	57.60	8.080		
14,700.0	12,184.0	14,919.1	12,367.0	30.3	35.1	113.15	-2,412.0	-696.2	465.4	406.5	58.87	7.906		
14,800.0	12,184.0	15,019.1	12,367.0	31.1	35.8	113.15	-2,512.0	-695.6	465.4	405.2	60.17	7.736		
14,900.0	12,184.0	15,119.1	12,367.0	31.9	36.4	113.15	-2,612.0	-694.9	465.4	403.9	61.49	7.569		
15,000.0	12,184.0	15,219.1	12,367.0	32.7	37.2	113.15	-2,712.0	-694.3	465.4	402.6	62.84	7.406		
15,100.0	12,184.0	15,319.1	12,367.0	33.5	37.9	113.15	-2,812.0	-693.6	465.4	401.2	64.22	7.247		
15,200.0	12,184.0	15,419.1	12,367.0	34.3	38.6	113.15	-2,912.0	-693.0	465.4	399.8	65.62	7.092		
15,300.0	12,184.0	15,519.1	12,367.0	35.1	39.3	113.15	-3,012.0	-692.3	465.4	398.4	67.04	6.942		
15,400.0	12,184.0	15,619.1	12,367.0	36.0	40.1	113.15	-3,112.0	-691.7	465.4	396.9	68.49	6.795		
15,500.0	12,184.0	15,719.1	12,367.0	36.8	40.8	113.15	-3,212.0	-691.0	465.4	395.4	69.95	6.653		
15,600.0	12,184.0	15,819.1	12,367.0	37.6	41.6	113.15	-3,312.0	-690.4	465.4	394.0	71.43	6.515		
15,700.0	12,184.0	15,919.1	12,367.0	38.5	42.4	113.15	-3,412.0	-689.7	465.4	392.5	72.93	6.381		
15,800.0	12,184.0	16,019.1	12,367.0	39.4	43.1	113.15	-3,512.0	-689.1	465.4	390.9	74.44	6.252		
15,900.0	12,184.0	16,119.1	12,367.0	40.2	43.9	113.15	-3,612.0	-688.4	465.4	389.4	75.97	6.126		
16,000.0	12,184.0	16,219.1	12,367.0	41.1	44.7	113.16	-3,712.0	-687.8	465.4	387.9	77.52	6.004		
16,100.0	12,184.0	16,319.1	12,367.0	41.9	45.5	113.16	-3,812.0	-687.1	465.4	386.3	79.07	5.885		
16,200.0	12,184.0	16,419.1	12,367.0	42.8	46.3	113.16	-3,912.0	-686.5	465.4	384.7	80.64	5.771		
16,300.0	12,184.0	16,519.1	12,367.0	43.7	47.1	113.16	-4,012.0	-685.8	465.4	383.2	82.22	5.660		
16,400.0	12,184.0	16,619.1	12,367.0	44.6	48.0	113.16	-4,112.0	-685.2	465.4	381.6	83.82	5.552		
16,500.0	12,184.0	16,719.1	12,367.0	45.5	48.8	113.16	-4,212.0	-684.5	465.4	380.0	85.42	5.448		
16,600.0	12,184.0	16,819.1	12,367.0	46.4	49.6	113.16	-4,312.0	-683.9	465.4	378.3	87.03	5.347		
16,700.0	12,184.0	16,919.1	12,367.0	47.2	50.4	113.16	-4,412.0	-683.2	465.4	376.7	88.65	5.249		
16,800.0	12,184.0	17,019.1	12,367.0	48.1	51.3	113.16	-4,512.0	-682.6	465.4	375.1	90.28	5.154		
16,900.0	12,184.0	17,119.1	12,367.0	49.0	52.1	113.16	-4,612.0	-681.9	465.4	373.4	91.92	5.063		
17,000.0	12,184.0	17,219.1	12,367.0	49.9	53.0	113.16	-4,712.0	-681.3	465.4	371.8	93.57	4.973		
17,100.0	12,184.0	17,319.1	12,367.0	50.8	53.8	113.16	-4,811.9	-680.6	465.4	370.1	95.23	4.887		
17,200.0	12,184.0	17,419.1	12,367.0	51.7	54.7	113.16	-4,911.9	-680.0	465.4	368.5	96.89	4.803		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,300.0	12,184.0	17,519.1	12,367.0	52.7	55.5	113.16	-5,011.9	-679.3	465.4	366.8	98.56	4.722	
17,400.0	12,184.0	17,619.1	12,367.0	53.6	56.4	113.16	-5,111.9	-678.7	465.4	365.1	100.23	4.643	
17,500.0	12,184.0	17,719.1	12,367.0	54.5	57.3	113.16	-5,211.9	-678.0	465.4	363.4	101.91	4.566	
17,600.0	12,184.0	17,819.1	12,367.0	55.4	58.1	113.16	-5,311.9	-677.4	465.4	361.8	103.60	4.492	
17,700.0	12,184.0	17,919.1	12,367.0	56.3	59.0	113.16	-5,411.9	-676.7	465.4	360.1	105.29	4.420	
17,800.0	12,184.0	18,019.1	12,367.0	57.2	59.9	113.16	-5,511.9	-676.1	465.3	358.4	106.99	4.349	
17,900.0	12,184.0	18,119.1	12,367.0	58.1	60.8	113.16	-5,611.9	-675.4	465.3	356.7	108.70	4.281	
18,000.0	12,184.0	18,219.1	12,367.0	59.0	61.6	113.16	-5,711.9	-674.8	465.3	354.9	110.40	4.215	
18,100.0	12,184.0	18,319.1	12,367.0	60.0	62.5	113.16	-5,811.9	-674.1	465.3	353.2	112.12	4.151	
18,200.0	12,184.0	18,419.1	12,367.0	60.9	63.4	113.16	-5,911.9	-673.5	465.3	351.5	113.83	4.088	
18,300.0	12,184.0	18,519.1	12,367.0	61.8	64.3	113.16	-6,011.9	-672.8	465.3	349.8	115.55	4.027	
18,400.0	12,184.0	18,619.1	12,367.0	62.7	65.2	113.16	-6,111.9	-672.2	465.3	348.1	117.28	3.968	
18,500.0	12,184.0	18,719.1	12,367.0	63.7	66.1	113.16	-6,211.9	-671.5	465.3	346.3	119.01	3.910	
18,600.0	12,184.0	18,819.1	12,367.0	64.6	67.0	113.16	-6,311.9	-670.9	465.3	344.6	120.74	3.854	
18,700.0	12,184.0	18,919.1	12,367.0	65.5	67.9	113.16	-6,411.9	-670.2	465.3	342.9	122.48	3.799	
18,800.0	12,184.0	19,019.1	12,367.0	66.4	68.8	113.16	-6,511.9	-669.6	465.3	341.1	124.22	3.746	
18,900.0	12,184.0	19,119.1	12,367.0	67.4	69.7	113.16	-6,611.9	-668.9	465.3	339.4	125.96	3.694	
19,000.0	12,184.0	19,219.1	12,367.0	68.3	70.6	113.16	-6,711.9	-668.3	465.3	337.6	127.70	3.644	
19,100.0	12,184.0	19,319.1	12,367.0	69.2	71.5	113.16	-6,811.9	-667.6	465.3	335.9	129.45	3.595	
19,200.0	12,184.0	19,419.1	12,367.0	70.2	72.4	113.16	-6,911.9	-667.0	465.3	334.1	131.20	3.547	
19,300.0	12,184.0	19,519.1	12,367.0	71.1	73.3	113.16	-7,011.9	-666.3	465.3	332.4	132.96	3.500	
19,400.0	12,184.0	19,619.1	12,367.0	72.0	74.2	113.16	-7,111.9	-665.7	465.3	330.6	134.71	3.454	
19,442.8	12,184.0	19,662.0	12,367.0	72.4	74.6	113.16	-7,154.7	-665.4	465.3	329.8	135.46	3.435	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	179.41	-119.7	1.2	119.7	119.2	0.48	249.704	
100.0	100.0	100.0	100.0	1.2	1.2	179.41	-119.7	1.2	119.7	116.9	2.87	41.761	
200.0	200.0	200.0	200.0	1.7	1.7	179.41	-119.7	1.2	119.7	115.9	3.86	30.988	
300.0	300.0	300.0	300.0	2.1	2.1	179.41	-119.7	1.2	119.7	115.1	4.63	25.838	
400.0	400.0	400.0	400.0	2.4	2.4	179.41	-119.7	1.2	119.7	114.4	5.29	22.645	
500.0	500.0	500.0	500.0	2.7	2.7	179.41	-119.7	1.2	119.7	113.9	5.87	20.408	
600.0	600.0	600.0	600.0	3.0	3.0	179.41	-119.7	1.2	119.7	113.3	6.39	18.725	
700.0	700.0	700.0	700.0	3.2	3.2	179.41	-119.7	1.2	119.7	112.8	6.88	17.397	
800.0	800.0	800.0	800.0	3.5	3.5	179.41	-119.7	1.2	119.7	112.4	7.34	16.313	
900.0	900.0	900.0	900.0	3.7	3.7	179.41	-119.7	1.2	119.7	111.9	7.77	15.406	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	179.41	-119.7	1.2	119.7	111.5	8.18	14.631 CC, ES	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.1	-135.28	-119.7	1.2	121.0	112.3	8.64	14.007	
1,200.0	1,199.8	1,199.8	1,199.8	4.5	4.3	-136.92	-119.7	1.2	124.7	115.6	9.08	13.731	
1,300.0	1,299.5	1,299.5	1,299.5	4.9	4.5	-139.43	-119.7	1.2	131.2	121.7	9.55	13.749	
1,400.0	1,398.7	1,398.7	1,398.7	5.2	4.7	-142.54	-119.7	1.2	140.7	130.7	10.03	14.033	
1,500.0	1,497.5	1,497.5	1,497.5	5.6	4.8	-145.93	-119.7	1.2	153.5	142.9	10.54	14.560	
1,586.0	1,582.0	1,582.0	1,582.0	5.8	5.0	-148.89	-119.7	1.2	167.2	156.3	10.97	15.250	
1,600.0	1,595.6	1,595.6	1,595.6	5.9	5.0	-149.38	-119.7	1.2	169.7	158.6	11.02	15.396	
1,700.0	1,693.5	1,693.5	1,693.5	6.2	5.2	-152.53	-119.7	1.2	187.5	176.0	11.56	16.219	
1,800.0	1,791.5	1,791.5	1,791.5	6.6	5.3	-155.13	-119.7	1.2	205.8	193.8	12.07	17.055	
1,900.0	1,889.4	1,889.4	1,889.4	6.9	5.5	-157.30	-119.7	1.2	224.5	211.9	12.59	17.832	
2,000.0	1,987.3	1,987.3	1,987.3	7.3	5.6	-159.14	-119.7	1.2	243.4	230.3	13.12	18.548	
2,100.0	2,085.2	2,085.2	2,085.2	7.6	5.8	-160.72	-119.7	1.2	262.5	248.9	13.67	19.208	
2,200.0	2,183.1	2,183.1	2,183.1	8.0	5.9	-162.08	-119.7	1.2	281.8	267.6	14.22	19.814	
2,300.0	2,281.0	2,281.0	2,281.0	8.4	6.1	-163.27	-119.7	1.2	301.3	286.5	14.79	20.370	
2,400.0	2,378.9	2,378.9	2,378.9	8.8	6.2	-164.31	-119.7	1.2	320.8	305.4	15.36	20.881	
2,500.0	2,476.9	2,476.9	2,476.9	9.2	6.3	-165.23	-119.7	1.2	340.4	324.5	15.94	21.351	
2,600.0	2,574.8	2,574.8	2,574.8	9.6	6.5	-166.06	-119.7	1.2	360.1	343.6	16.53	21.783	
2,662.6	2,636.1	2,636.1	2,636.1	9.9	6.6	-166.53	-119.7	1.2	372.5	355.6	16.88	22.067	
2,700.0	2,672.7	2,672.7	2,672.7	10.0	6.6	-166.81	-119.7	1.2	379.8	362.7	17.08	22.234	
2,800.0	2,770.9	2,770.9	2,770.9	10.4	6.7	-167.46	-119.7	1.2	398.2	380.5	17.67	22.527	
2,900.0	2,869.5	2,869.5	2,869.5	10.8	6.9	-168.01	-119.7	1.2	414.9	396.6	18.26	22.717	
3,000.0	2,968.3	2,968.3	2,968.3	11.2	7.0	-168.47	-119.7	1.2	429.9	411.1	18.85	22.814	
3,100.0	3,067.3	3,067.3	3,067.3	11.7	7.1	-168.85	-119.7	1.2	443.3	423.9	19.42	22.830	
3,200.0	3,166.6	3,166.6	3,166.6	12.0	7.3	-169.16	-119.7	1.2	455.0	435.1	19.98	22.772	
3,300.0	3,266.1	3,266.1	3,266.1	12.4	7.4	-169.41	-119.7	1.2	465.0	444.5	20.53	22.650	
3,400.0	3,365.7	3,365.7	3,365.7	12.8	7.5	-169.62	-119.7	1.2	473.4	452.3	21.07	22.470	
3,500.0	3,465.5	3,465.5	3,465.5	13.2	7.6	-169.77	-119.7	1.2	480.0	458.4	21.58	22.242	
3,600.0	3,565.4	3,565.4	3,565.4	13.5	7.8	-169.89	-119.7	1.2	484.8	462.8	22.07	21.972	
3,700.0	3,665.3	3,665.3	3,665.3	13.8	7.9	-169.96	-119.7	1.2	488.0	465.5	22.52	21.670	
3,800.0	3,765.3	3,765.3	3,765.3	14.1	8.0	-169.99	-119.7	1.2	489.5	466.6	22.91	21.362	
3,834.7	3,800.0	3,800.0	3,800.0	14.1	8.1	144.13	-119.7	1.2	489.6	466.6	22.99	21.297	
3,900.0	3,865.3	3,865.3	3,865.3	14.1	8.1	144.13	-119.7	1.2	489.6	466.5	23.08	21.214	
4,000.0	3,965.3	3,965.3	3,965.3	14.2	8.3	144.13	-119.7	1.2	489.6	466.3	23.24	21.063	
4,100.0	4,065.3	4,072.3	4,072.3	14.3	8.4	144.04	-118.9	1.5	489.1	465.6	23.46	20.851	
4,200.0	4,165.3	4,182.9	4,182.8	14.3	8.6	143.56	-114.2	3.2	486.6	462.9	23.69	20.538	
4,300.0	4,265.3	4,292.9	4,292.4	14.4	8.9	142.66	-105.6	6.2	482.0	458.0	23.93	20.141	
4,400.0	4,365.3	4,402.1	4,400.8	14.5	9.1	141.33	-93.1	10.6	475.4	451.2	24.16	19.674	
4,500.0	4,465.3	4,510.1	4,507.4	14.5	9.3	139.54	-77.0	16.3	467.2	442.8	24.39	19.156	
4,600.0	4,565.3	4,612.0	4,607.5	14.6	9.5	137.44	-58.8	22.7	457.8	433.3	24.55	18.648	
4,700.0	4,665.3	4,710.1	4,703.7	14.7	9.7	135.30	-40.9	28.9	448.9	424.2	24.72	18.159	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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		
4,800.0	4,765.3	4,808.2	4,800.0	14.7	9.9	133.08	-23.1	35.2	440.7	415.8	24.88	17.715		
4,900.0	4,865.3	4,906.4	4,896.3	14.8	10.2	130.78	-5.2	41.5	433.2	408.2	25.01	17.318		
5,000.0	4,965.3	5,004.5	4,992.6	14.9	10.5	128.41	12.6	47.8	426.4	401.3	25.13	16.967		
5,100.0	5,065.3	5,102.6	5,088.9	14.9	10.7	125.97	30.5	54.1	420.4	395.2	25.23	16.665		
5,200.0	5,165.3	5,200.7	5,185.2	15.0	11.0	123.46	48.3	60.3	415.2	389.9	25.30	16.412		
5,300.0	5,265.3	5,298.9	5,281.4	15.1	11.3	120.90	66.2	66.6	410.9	385.5	25.35	16.206		
5,400.0	5,365.3	5,397.0	5,377.7	15.1	11.6	118.29	84.0	72.9	407.4	382.0	25.39	16.048		
5,500.0	5,465.3	5,495.1	5,474.0	15.2	11.9	115.64	101.9	79.2	404.8	379.4	25.40	15.935		
5,600.0	5,565.3	5,593.2	5,570.3	15.3	12.3	112.97	119.7	85.5	403.1	377.7	25.40	15.867		
5,700.0	5,665.3	5,691.4	5,666.6	15.3	12.6	110.28	137.6	91.7	402.3	376.9	25.40	15.840		
5,733.4	5,698.7	5,724.1	5,698.7	15.4	12.7	109.38	143.5	93.8	402.3	376.9	25.40	15.840		
5,800.0	5,765.3	5,789.5	5,762.8	15.4	12.9	107.58	155.4	98.0	402.5	377.1	25.39	15.852		
5,900.0	5,865.3	5,887.6	5,859.1	15.5	13.3	104.90	173.3	104.3	403.5	378.2	25.38	15.897		
6,000.0	5,965.3	5,986.3	5,956.0	15.5	13.6	102.26	190.9	110.5	405.5	380.1	25.37	15.981		
6,100.0	6,065.3	6,085.8	6,054.0	15.6	14.0	99.85	207.2	116.2	408.0	382.6	25.41	16.058		
6,200.0	6,165.3	6,185.9	6,152.9	15.7	14.3	97.70	222.0	121.4	411.0	385.5	25.48	16.127		
6,300.0	6,265.3	6,286.5	6,252.5	15.7	14.7	95.80	235.2	126.1	414.0	388.4	25.59	16.183		
6,400.0	6,365.3	6,387.6	6,352.9	15.8	15.1	94.15	246.8	130.2	417.1	391.4	25.72	16.219		
6,500.0	6,465.3	6,489.1	6,453.8	15.9	15.4	92.76	256.8	133.7	420.0	394.1	25.87	16.234		
6,600.0	6,565.3	6,591.0	6,555.3	16.0	15.8	91.62	265.1	136.6	422.5	396.5	26.04	16.225		
6,700.0	6,665.3	6,693.1	6,657.2	16.0	16.1	90.71	271.7	138.9	424.7	398.4	26.23	16.192		
6,800.0	6,765.3	6,795.4	6,759.4	16.1	16.4	90.05	276.6	140.6	426.3	399.9	26.42	16.135		
6,900.0	6,865.3	6,897.9	6,861.8	16.2	16.7	89.62	279.8	141.8	427.4	400.8	26.62	16.056		
7,000.0	6,965.3	7,000.5	6,964.4	16.2	16.9	89.43	281.3	142.3	428.0	401.1	26.82	15.958		
7,100.0	7,065.3	7,101.4	7,065.3	16.3	17.0	89.41	281.4	142.3	428.0	401.0	26.96	15.875		
7,200.0	7,165.3	7,201.4	7,165.3	16.4	17.1	89.41	281.4	142.3	428.0	400.9	27.13	15.777		
7,300.0	7,265.3	7,301.4	7,265.3	16.4	17.1	89.41	281.4	142.3	428.0	400.7	27.29	15.681		
7,400.0	7,365.3	7,401.4	7,365.3	16.5	17.2	89.41	281.4	142.3	428.0	400.5	27.46	15.586		
7,500.0	7,465.3	7,501.4	7,465.3	16.6	17.3	89.41	281.4	142.3	428.0	400.4	27.63	15.492		
7,600.0	7,565.3	7,601.4	7,565.3	16.7	17.4	89.41	281.4	142.3	428.0	400.2	27.79	15.399		
7,700.0	7,665.3	7,701.4	7,665.3	16.7	17.4	89.41	281.4	142.3	428.0	400.0	27.96	15.307		
7,800.0	7,765.3	7,801.4	7,765.3	16.8	17.5	89.41	281.4	142.3	428.0	399.9	28.13	15.217		
7,900.0	7,865.3	7,901.4	7,865.3	16.9	17.6	89.41	281.4	142.3	428.0	399.7	28.29	15.127		
8,000.0	7,965.3	8,001.4	7,965.3	16.9	17.6	89.41	281.4	142.3	428.0	399.5	28.46	15.039		
8,100.0	8,065.3	8,101.4	8,065.3	17.0	17.7	89.41	281.4	142.3	428.0	399.4	28.62	14.952		
8,200.0	8,165.3	8,201.4	8,165.3	17.1	17.8	89.41	281.4	142.3	428.0	399.2	28.79	14.866		
8,300.0	8,265.3	8,301.4	8,265.3	17.1	17.9	89.41	281.4	142.3	428.0	399.0	28.96	14.780		
8,400.0	8,365.3	8,401.4	8,365.3	17.2	17.9	89.41	281.4	142.3	428.0	398.9	29.12	14.696		
8,500.0	8,465.3	8,501.4	8,465.3	17.3	18.0	89.41	281.4	142.3	428.0	398.7	29.29	14.613		
8,600.0	8,565.3	8,601.4	8,565.3	17.4	18.1	89.41	281.4	142.3	428.0	398.5	29.45	14.531		
8,700.0	8,665.3	8,701.4	8,665.3	17.4	18.1	89.41	281.4	142.3	428.0	398.4	29.62	14.449		
8,800.0	8,765.3	8,801.4	8,765.3	17.5	18.2	89.41	281.4	142.3	428.0	398.2	29.79	14.369		
8,900.0	8,865.3	8,901.4	8,865.3	17.6	18.3	89.41	281.4	142.3	428.0	398.0	29.95	14.290		
9,000.0	8,965.3	9,001.4	8,965.3	17.7	18.3	89.41	281.4	142.3	428.0	397.9	30.12	14.211		
9,100.0	9,065.3	9,101.4	9,065.3	17.7	18.4	89.41	281.4	142.3	428.0	397.7	30.28	14.133		
9,200.0	9,165.3	9,201.4	9,165.3	17.8	18.5	89.41	281.4	142.3	428.0	397.5	30.45	14.056		
9,300.0	9,265.3	9,301.4	9,265.3	17.9	18.6	89.41	281.4	142.3	428.0	397.4	30.61	13.981		
9,400.0	9,365.3	9,401.4	9,365.3	17.9	18.6	89.41	281.4	142.3	428.0	397.2	30.78	13.905		
9,500.0	9,465.3	9,501.4	9,465.3	18.0	18.7	89.41	281.4	142.3	428.0	397.0	30.94	13.831		
9,600.0	9,565.3	9,601.4	9,565.3	18.1	18.8	89.41	281.4	142.3	428.0	396.9	31.11	13.758		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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)				
9,700.0	9,665.3	9,701.4	9,665.3	18.2	18.9	89.41	281.4	142.3	428.0	396.7	31.27	13.685		
9,800.0	9,765.3	9,801.4	9,765.3	18.2	18.9	89.41	281.4	142.3	428.0	396.6	31.44	13.613		
9,900.0	9,865.3	9,901.4	9,865.3	18.3	19.0	89.41	281.4	142.3	428.0	396.4	31.60	13.542		
10,000.0	9,965.3	10,001.4	9,965.3	18.4	19.1	89.41	281.4	142.3	428.0	396.2	31.77	13.471		
10,100.0	10,065.3	10,101.4	10,065.3	18.4	19.1	89.41	281.4	142.3	428.0	396.1	31.94	13.402		
10,200.0	10,165.3	10,201.4	10,165.3	18.5	19.2	89.41	281.4	142.3	428.0	395.9	32.10	13.333		
10,300.0	10,265.3	10,301.4	10,265.3	18.6	19.3	89.41	281.4	142.3	428.0	395.7	32.27	13.265		
10,400.0	10,365.3	10,401.4	10,365.3	18.7	19.4	89.41	281.4	142.3	428.0	395.6	32.43	13.197		
10,500.0	10,465.3	10,501.4	10,465.3	18.7	19.4	89.41	281.4	142.3	428.0	395.4	32.60	13.131		
10,600.0	10,565.3	10,601.4	10,565.3	18.8	19.5	89.41	281.4	142.3	428.0	395.2	32.76	13.064		
10,700.0	10,665.3	10,701.4	10,665.3	18.9	19.6	89.41	281.4	142.3	428.0	395.1	32.92	12.999		
10,800.0	10,765.3	10,801.4	10,765.3	19.0	19.6	89.41	281.4	142.3	428.0	394.9	33.09	12.934		
10,900.0	10,865.3	10,901.4	10,865.3	19.0	19.7	89.41	281.4	142.3	428.0	394.7	33.25	12.870		
11,000.0	10,965.3	11,001.4	10,965.3	19.1	19.8	89.41	281.4	142.3	428.0	394.6	33.42	12.807		
11,100.0	11,065.3	11,101.4	11,065.3	19.2	19.9	89.41	281.4	142.3	428.0	394.4	33.58	12.744		
11,200.0	11,165.3	11,201.4	11,165.3	19.3	19.9	89.41	281.4	142.3	428.0	394.2	33.75	12.682		
11,300.0	11,265.3	11,301.4	11,265.3	19.3	20.0	89.41	281.4	142.3	428.0	394.1	33.91	12.620		
11,400.0	11,365.3	11,401.4	11,365.3	19.4	20.1	89.41	281.4	142.3	428.0	393.9	34.08	12.559		
11,500.0	11,465.3	11,501.4	11,465.3	19.5	20.2	89.41	281.4	142.3	428.0	393.7	34.24	12.499		
11,600.0	11,565.3	11,601.4	11,565.3	19.5	20.2	89.41	281.4	142.3	428.0	393.6	34.41	12.439		
11,700.0	11,665.3	11,701.4	11,665.3	19.6	20.3	89.41	281.4	142.3	428.0	393.4	34.57	12.380		
11,741.2	11,706.5	11,742.6	11,706.5	19.6	20.3	89.41	281.4	142.3	428.0	393.4	34.63	12.360		
11,750.0	11,715.3	11,751.4	11,715.3	19.6	20.3	-90.23	281.4	142.3	428.0	393.4	34.63	12.357		
11,775.0	11,740.3	11,776.4	11,740.3	19.6	20.4	-90.38	281.4	142.3	428.0	393.3	34.65	12.353		
11,800.0	11,765.2	11,801.3	11,765.2	19.6	20.4	-90.70	281.4	142.3	428.0	393.4	34.65	12.351		
11,825.0	11,789.9	11,826.0	11,789.9	19.5	20.4	-91.18	281.4	142.3	428.1	393.4	34.66	12.351		
11,850.0	11,814.4	11,850.5	11,814.4	19.5	20.4	-91.82	281.4	142.3	428.2	393.6	34.66	12.354		
11,875.0	11,838.6	11,874.7	11,838.6	19.4	20.4	-92.60	281.4	142.3	428.5	393.8	34.67	12.360		
11,900.0	11,862.4	11,898.5	11,862.4	19.3	20.5	-93.51	281.4	142.3	428.9	394.2	34.67	12.370		
11,925.0	11,885.8	11,921.9	11,885.8	19.3	20.5	-94.53	281.4	142.3	429.5	394.9	34.67	12.388		
11,950.0	11,908.7	11,946.9	11,910.8	19.2	20.5	-95.69	280.9	142.3	430.5	395.8	34.67	12.415		
11,975.0	11,931.1	11,972.8	11,936.6	19.2	20.4	-96.86	279.1	142.3	431.6	396.9	34.67	12.450		
12,000.0	11,952.8	11,999.3	11,962.8	19.1	20.3	-98.02	275.7	142.4	432.9	398.3	34.66	12.489		
12,025.0	11,973.9	12,026.4	11,989.5	19.1	20.3	-99.18	270.8	142.4	434.4	399.8	34.67	12.531		
12,050.0	11,994.2	12,054.2	12,016.5	19.0	20.2	-100.32	264.2	142.4	436.1	401.4	34.69	12.573		
12,075.0	12,013.8	12,082.8	12,043.8	19.0	20.1	-101.45	255.8	142.5	438.0	403.3	34.72	12.614		
12,100.0	12,032.5	12,112.1	12,071.3	18.9	20.0	-102.56	245.4	142.6	440.0	405.2	34.77	12.652		
12,125.0	12,050.3	12,142.3	12,098.8	18.9	19.9	-103.65	233.1	142.6	442.1	407.2	34.85	12.685		
12,150.0	12,067.2	12,173.3	12,126.2	18.8	19.9	-104.71	218.6	142.7	444.2	409.3	34.95	12.709		
12,175.0	12,083.0	12,205.1	12,153.3	18.8	19.8	-105.74	201.9	142.8	446.5	411.4	35.09	12.723		
12,200.0	12,097.9	12,237.9	12,180.0	18.8	19.7	-106.73	182.9	143.0	448.8	413.5	35.27	12.725		
12,225.0	12,111.7	12,271.6	12,206.0	18.8	19.6	-107.67	161.5	143.1	451.0	415.5	35.48	12.712		
12,250.0	12,124.3	12,306.2	12,231.0	18.7	19.5	-108.57	137.6	143.3	453.2	417.5	35.73	12.685		
12,275.0	12,135.9	12,341.7	12,254.9	18.7	19.4	-109.41	111.3	143.4	455.4	419.4	36.02	12.642		
12,300.0	12,146.2	12,378.1	12,277.2	18.7	19.4	-110.19	82.6	143.6	457.4	421.1	36.34	12.586		
12,325.0	12,155.3	12,415.3	12,297.7	18.7	19.3	-110.89	51.5	143.8	459.3	422.6	36.69	12.518		
12,350.0	12,163.2	12,453.3	12,316.1	18.7	19.3	-111.51	18.3	144.0	460.9	423.9	37.05	12.441		
12,375.0	12,169.9	12,492.1	12,332.1	18.7	19.2	-112.04	-17.0	144.3	462.4	425.0	37.42	12.357		
12,400.0	12,175.3	12,531.5	12,345.4	18.7	19.2	-112.47	-54.1	144.5	463.6	425.8	37.78	12.271		
12,425.0	12,179.4	12,571.3	12,355.6	18.7	19.2	-112.80	-92.6	144.7	464.5	426.4	38.12	12.187		
12,450.0	12,182.2	12,611.5	12,362.7	18.7	19.1	-113.03	-132.2	145.0	465.1	426.7	38.42	12.107		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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	12,183.7	12,652.0	12,366.4	18.8	19.1	-113.14	-172.5	145.3	465.4	426.8	38.68	12.034		
12,491.2	12,184.0	12,678.2	12,367.0	18.8	19.2	-113.15	-198.7	145.4	465.5	426.7	38.81	11.993		
12,492.6	12,184.0	12,680.5	12,366.9	18.8	19.2	-113.15	-200.9	145.4	465.5	426.6	38.82	11.990		
12,500.0	12,184.0	12,686.1	12,367.0	18.8	19.2	-113.15	-206.5	145.5	465.5	426.6	38.84	11.985		
12,600.0	12,184.0	12,786.1	12,367.0	18.9	19.2	-113.15	-306.5	146.1	465.5	426.2	39.27	11.854		
12,700.0	12,184.0	12,886.1	12,367.0	19.1	19.3	-113.15	-406.5	146.8	465.5	425.7	39.78	11.701		
12,800.0	12,184.0	12,986.1	12,367.0	19.3	19.3	-113.15	-506.5	147.4	465.5	425.1	40.37	11.530		
12,900.0	12,184.0	13,086.1	12,367.0	19.6	19.4	-113.15	-606.5	148.1	465.5	424.4	41.04	11.342		
13,000.0	12,184.0	13,186.1	12,367.0	19.9	19.6	-113.15	-706.5	148.7	465.5	423.7	41.78	11.141		
13,100.0	12,184.0	13,286.1	12,367.0	20.3	19.8	-113.15	-806.5	149.4	465.5	422.9	42.59	10.930		
13,200.0	12,184.0	13,386.1	12,367.0	20.7	20.0	-113.15	-906.5	150.0	465.5	422.0	43.46	10.710		
13,300.0	12,184.0	13,486.1	12,367.0	21.2	20.4	-113.15	-1,006.5	150.7	465.5	421.1	44.40	10.485		
13,400.0	12,184.0	13,586.1	12,367.0	21.6	20.8	-113.15	-1,106.5	151.3	465.5	420.1	45.39	10.256		
13,500.0	12,184.0	13,686.1	12,367.0	22.2	21.3	-113.15	-1,206.5	152.0	465.5	419.1	46.43	10.026		
13,600.0	12,184.0	13,786.1	12,367.0	22.7	21.8	-113.15	-1,306.5	152.6	465.5	418.0	47.52	9.795		
13,700.0	12,184.0	13,886.1	12,367.0	23.3	22.4	-113.15	-1,406.5	153.3	465.5	416.8	48.66	9.566		
13,800.0	12,184.0	13,986.1	12,367.0	23.9	23.0	-113.15	-1,506.5	153.9	465.5	415.7	49.84	9.339		
13,900.0	12,184.0	14,086.1	12,367.0	24.5	23.6	-113.15	-1,606.5	154.6	465.5	414.4	51.07	9.116		
14,000.0	12,184.0	14,186.1	12,367.0	25.2	24.3	-113.15	-1,706.5	155.2	465.5	413.2	52.33	8.896		
14,100.0	12,184.0	14,286.1	12,367.0	25.9	25.0	-113.15	-1,806.5	155.9	465.5	411.9	53.62	8.682		
14,200.0	12,184.0	14,386.1	12,367.0	26.6	25.7	-113.15	-1,906.5	156.5	465.5	410.6	54.95	8.472		
14,300.0	12,184.0	14,486.1	12,367.0	27.3	26.4	-113.15	-2,006.5	157.2	465.5	409.2	56.30	8.268		
14,400.0	12,184.0	14,586.1	12,367.0	28.0	27.2	-113.15	-2,106.5	157.8	465.5	407.8	57.69	8.070		
14,500.0	12,184.0	14,686.1	12,367.0	28.8	27.9	-113.15	-2,206.5	158.5	465.5	406.4	59.10	7.877		
14,600.0	12,184.0	14,786.1	12,367.0	29.5	28.7	-113.15	-2,306.4	159.1	465.5	405.0	60.53	7.691		
14,700.0	12,184.0	14,886.1	12,367.0	30.3	29.5	-113.15	-2,406.4	159.8	465.5	403.5	61.98	7.510		
14,800.0	12,184.0	14,986.1	12,367.0	31.1	30.3	-113.15	-2,506.4	160.4	465.5	402.1	63.46	7.336		
14,900.0	12,184.0	15,086.1	12,367.0	31.9	31.1	-113.15	-2,606.4	161.0	465.5	400.6	64.96	7.167		
15,000.0	12,184.0	15,186.1	12,367.0	32.7	31.9	-113.15	-2,706.4	161.7	465.5	399.1	66.47	7.004		
15,100.0	12,184.0	15,286.1	12,367.0	33.5	32.7	-113.15	-2,806.4	162.3	465.5	397.5	68.00	6.846		
15,200.0	12,184.0	15,386.1	12,367.0	34.3	33.6	-113.15	-2,906.4	163.0	465.5	396.0	69.55	6.694		
15,300.0	12,184.0	15,486.1	12,367.0	35.1	34.4	-113.15	-3,006.4	163.6	465.5	394.4	71.11	6.547		
15,400.0	12,184.0	15,586.1	12,367.0	36.0	35.2	-113.15	-3,106.4	164.3	465.5	392.9	72.68	6.405		
15,500.0	12,184.0	15,686.1	12,367.0	36.8	36.1	-113.15	-3,206.4	164.9	465.5	391.3	74.27	6.268		
15,600.0	12,184.0	15,786.1	12,367.0	37.6	36.9	-113.15	-3,306.4	165.6	465.5	389.7	75.87	6.136		
15,700.0	12,184.0	15,886.1	12,367.0	38.5	37.8	-113.15	-3,406.4	166.2	465.5	388.1	77.48	6.009		
15,800.0	12,184.0	15,986.1	12,367.0	39.4	38.7	-113.15	-3,506.4	166.9	465.5	386.4	79.10	5.886		
15,900.0	12,184.0	16,086.1	12,367.0	40.2	39.5	-113.15	-3,606.4	167.5	465.5	384.8	80.73	5.767		
16,000.0	12,184.0	16,186.1	12,367.0	41.1	40.4	-113.15	-3,706.4	168.2	465.5	383.2	82.37	5.652		
16,100.0	12,184.0	16,286.1	12,367.0	41.9	41.3	-113.15	-3,806.4	168.8	465.5	381.5	84.02	5.541		
16,200.0	12,184.0	16,386.1	12,367.0	42.8	42.2	-113.15	-3,906.4	169.5	465.5	379.9	85.67	5.434		
16,300.0	12,184.0	16,486.1	12,367.0	43.7	43.1	-113.15	-4,006.4	170.1	465.5	378.2	87.34	5.330		
16,400.0	12,184.0	16,586.1	12,367.0	44.6	44.0	-113.15	-4,106.4	170.8	465.6	376.5	89.01	5.230		
16,500.0	12,184.0	16,686.1	12,367.0	45.5	44.9	-113.15	-4,206.4	171.4	465.6	374.9	90.69	5.133		
16,600.0	12,184.0	16,786.1	12,367.0	46.4	45.8	-113.15	-4,306.4	172.1	465.6	373.2	92.38	5.040		
16,700.0	12,184.0	16,886.1	12,367.0	47.2	46.7	-113.15	-4,406.4	172.7	465.6	371.5	94.07	4.949		
16,800.0	12,184.0	16,986.1	12,367.0	48.1	47.6	-113.15	-4,506.4	173.4	465.6	369.8	95.77	4.861		
16,900.0	12,184.0	17,086.1	12,367.0	49.0	48.5	-113.15	-4,606.4	174.0	465.6	368.1	97.47	4.776		
17,000.0	12,184.0	17,186.1	12,367.0	49.9	49.4	-113.15	-4,706.4	174.7	465.6	366.4	99.18	4.694		
17,100.0	12,184.0	17,286.1	12,367.0	50.8	50.3	-113.15	-4,806.4	175.3	465.6	364.7	100.89	4.614		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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)			
17,200.0	12,184.0	17,386.1	12,367.0	51.7	51.2	-113.15	-4,906.4	176.0	465.6	363.0	102.61	4.537	
17,300.0	12,184.0	17,486.1	12,367.0	52.7	52.1	-113.15	-5,006.4	176.6	465.6	361.2	104.33	4.462	
17,400.0	12,184.0	17,586.1	12,367.0	53.6	53.0	-113.15	-5,106.4	177.3	465.6	359.5	106.06	4.390	
17,500.0	12,184.0	17,686.1	12,367.0	54.5	53.9	-113.15	-5,206.4	177.9	465.6	357.8	107.79	4.319	
17,600.0	12,184.0	17,786.1	12,367.0	55.4	54.8	-113.15	-5,306.4	178.6	465.6	356.0	109.53	4.251	
17,700.0	12,184.0	17,886.1	12,367.0	56.3	55.8	-113.15	-5,406.4	179.2	465.6	354.3	111.27	4.184	
17,800.0	12,184.0	17,986.1	12,367.0	57.2	56.7	-113.15	-5,506.4	179.9	465.6	352.6	113.01	4.120	
17,900.0	12,184.0	18,086.1	12,367.0	58.1	57.6	-113.15	-5,606.4	180.5	465.6	350.8	114.75	4.057	
18,000.0	12,184.0	18,186.1	12,367.0	59.0	58.5	-113.14	-5,706.4	181.2	465.6	349.1	116.50	3.996	
18,100.0	12,184.0	18,286.1	12,367.0	60.0	59.5	-113.14	-5,806.4	181.8	465.6	347.3	118.25	3.937	
18,200.0	12,184.0	18,386.1	12,367.0	60.9	60.4	-113.14	-5,906.4	182.4	465.6	345.6	120.01	3.880	
18,300.0	12,184.0	18,486.1	12,367.0	61.8	61.3	-113.14	-6,006.4	183.1	465.6	343.8	121.77	3.824	
18,400.0	12,184.0	18,586.1	12,367.0	62.7	62.2	-113.14	-6,106.4	183.7	465.6	342.1	123.53	3.769	
18,500.0	12,184.0	18,686.1	12,367.0	63.7	63.2	-113.14	-6,206.4	184.4	465.6	340.3	125.29	3.716	
18,600.0	12,184.0	18,786.1	12,367.0	64.6	64.1	-113.14	-6,306.4	185.0	465.6	338.5	127.06	3.664	
18,700.0	12,184.0	18,886.1	12,367.0	65.5	65.0	-113.14	-6,406.4	185.7	465.6	336.8	128.83	3.614	
18,800.0	12,184.0	18,986.1	12,367.0	66.4	66.0	-113.14	-6,506.4	186.3	465.6	335.0	130.60	3.565	
18,900.0	12,184.0	19,086.1	12,367.0	67.4	66.9	-113.14	-6,606.4	187.0	465.6	333.2	132.37	3.517	
19,000.0	12,184.0	19,186.1	12,367.0	68.3	67.8	-113.14	-6,706.4	187.6	465.6	331.5	134.14	3.471	
19,100.0	12,184.0	19,286.1	12,367.0	69.2	68.8	-113.14	-6,806.4	188.3	465.6	329.7	135.92	3.426	
19,200.0	12,184.0	19,386.1	12,367.0	70.2	69.7	-113.14	-6,906.4	188.9	465.6	327.9	137.70	3.381	
19,300.0	12,184.0	19,486.1	12,367.0	71.1	70.6	-113.14	-7,006.4	189.6	465.6	326.1	139.48	3.338	
19,400.0	12,184.0	19,586.1	12,367.0	72.0	71.6	-113.14	-7,106.3	190.2	465.6	324.3	141.26	3.296	
19,403.5	12,184.0	19,589.6	12,367.0	72.1	71.6	-113.14	-7,109.9	190.3	465.6	324.3	141.32	3.295	
19,442.8	12,184.0	19,628.7	12,367.0	72.4	72.0	-113.14	-7,149.0	190.5	465.6	323.6	142.02	3.279 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		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	179.41	-149.7	1.5	149.7	149.2	0.48	312.276		
100.0	100.0	100.0	100.0	1.2	1.2	179.41	-149.7	1.5	149.7	146.9	2.87	52.225		
200.0	200.0	200.0	200.0	1.7	1.7	179.41	-149.7	1.5	149.7	145.9	3.86	38.753		
300.0	300.0	300.0	300.0	2.1	2.1	179.41	-149.7	1.5	149.7	145.1	4.63	32.313		
400.0	400.0	400.0	400.0	2.4	2.4	179.41	-149.7	1.5	149.7	144.4	5.29	28.319		
500.0	500.0	500.0	500.0	2.7	2.7	179.41	-149.7	1.5	149.7	143.9	5.87	25.522		
600.0	600.0	600.0	600.0	3.0	3.0	179.41	-149.7	1.5	149.7	143.3	6.39	23.417		
700.0	700.0	700.0	700.0	3.2	3.2	179.41	-149.7	1.5	149.7	142.8	6.88	21.756		
800.0	800.0	800.0	800.0	3.5	3.5	179.41	-149.7	1.5	149.7	142.4	7.34	20.401		
900.0	900.0	900.0	900.0	3.7	3.7	179.41	-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	179.41	-149.7	1.5	149.7	141.5	8.18	18.298 CC		
1,100.0	1,100.0	1,102.4	1,102.4	4.2	4.2	-135.81	-148.8	3.2	150.1	141.5	8.66	17.333 ES		
1,200.0	1,199.8	1,204.4	1,204.2	4.5	4.5	-139.02	-146.2	7.9	151.7	142.6	9.13	16.621		
1,300.0	1,299.5	1,305.4	1,304.8	4.9	4.8	-144.13	-141.9	15.8	155.3	145.7	9.60	16.173		
1,400.0	1,398.7	1,404.9	1,403.5	5.2	5.1	-150.69	-136.0	26.6	162.3	152.2	10.10	16.064		
1,500.0	1,497.5	1,502.1	1,499.7	5.6	5.2	-157.71	-129.0	39.2	174.2	163.6	10.59	16.454		
1,586.0	1,582.0	1,585.0	1,581.6	5.8	5.3	-163.21	-123.1	50.0	189.1	178.0	11.04	17.125		
1,600.0	1,595.6	1,598.4	1,594.9	5.9	5.4	-164.05	-122.2	51.8	191.8	180.7	11.10	17.284		
1,700.0	1,693.5	1,694.3	1,689.7	6.2	5.5	-169.45	-115.3	64.3	212.7	201.1	11.66	18.252		
1,800.0	1,791.5	1,790.2	1,784.6	6.6	5.7	-173.89	-108.4	76.8	235.2	223.0	12.17	19.321		
1,900.0	1,889.4	1,886.2	1,879.5	6.9	5.9	-177.56	-101.5	89.3	258.7	246.0	12.69	20.381		
2,000.0	1,987.3	1,982.1	1,974.3	7.3	6.0	179.39	-94.7	101.8	283.1	269.9	13.22	21.410		
2,100.0	2,085.2	2,078.0	2,069.2	7.6	6.2	176.81	-87.8	114.4	308.2	294.5	13.76	22.398		
2,200.0	2,183.1	2,174.0	2,164.1	8.0	6.4	174.62	-80.9	126.9	333.8	319.5	14.30	23.338		
2,300.0	2,281.0	2,269.9	2,258.9	8.4	6.5	172.74	-74.0	139.4	359.8	344.9	14.85	24.228		
2,400.0	2,378.9	2,365.8	2,353.8	8.8	6.7	171.11	-67.2	151.9	386.1	370.7	15.40	25.068		
2,500.0	2,476.9	2,461.8	2,448.7	9.2	6.9	169.69	-60.3	164.4	412.6	396.6	15.96	25.858		
2,600.0	2,574.8	2,557.7	2,543.5	9.6	7.1	168.44	-53.4	177.0	439.3	422.8	16.52	26.602		
2,662.6	2,636.1	2,617.7	2,602.9	9.9	7.2	167.73	-49.1	184.8	456.2	439.3	16.84	27.082		
2,700.0	2,672.7	2,653.7	2,638.4	10.0	7.3	167.35	-46.6	189.5	466.2	449.1	17.03	27.365		
2,800.0	2,770.9	2,750.0	2,733.6	10.4	7.4	166.38	-39.7	202.0	491.8	474.2	17.60	27.951		
2,900.0	2,869.5	2,846.6	2,829.2	10.8	7.6	165.46	-32.7	214.7	516.0	497.8	18.15	28.427		
3,000.0	2,968.3	2,943.7	2,925.2	11.2	7.8	164.58	-25.8	227.3	538.6	519.9	18.70	28.806		
3,100.0	3,067.3	3,041.0	3,021.5	11.7	8.0	163.72	-18.8	240.0	559.7	540.5	19.23	29.100		
3,200.0	3,166.6	3,138.7	3,118.0	12.0	8.2	162.88	-11.8	252.8	579.3	559.6	19.76	29.321		
3,300.0	3,266.1	3,236.6	3,214.9	12.4	8.3	162.04	-4.8	265.6	597.5	577.2	20.27	29.478		
3,400.0	3,365.7	3,334.8	3,311.9	12.8	8.5	161.20	2.2	278.4	614.1	593.4	20.76	29.582		
3,500.0	3,465.5	3,433.1	3,409.2	13.2	8.7	160.35	9.3	291.2	629.3	608.0	21.23	29.642		
3,600.0	3,565.4	3,531.7	3,506.6	13.5	8.9	159.49	16.3	304.1	642.9	621.3	21.67	29.668		
3,700.0	3,665.3	3,630.4	3,604.2	13.8	9.1	158.60	23.4	317.0	655.2	633.1	22.08	29.676		
3,800.0	3,765.3	3,729.2	3,701.9	14.1	9.3	157.69	30.5	329.8	666.0	643.5	22.43	29.693		
3,834.7	3,800.0	3,763.5	3,735.9	14.1	9.3	111.49	32.9	334.3	669.4	646.9	22.49	29.761		
3,900.0	3,865.3	3,828.1	3,799.7	14.1	9.5	110.86	37.6	342.8	675.7	653.1	22.57	29.936		
4,000.0	3,965.3	3,926.9	3,897.5	14.2	9.7	109.92	44.7	355.7	685.5	662.7	22.72	30.168		
4,100.0	4,065.3	4,025.8	3,995.3	14.3	9.8	109.00	51.7	368.6	695.4	672.6	22.88	30.399		
4,200.0	4,165.3	4,124.7	4,093.1	14.3	10.0	108.11	58.8	381.5	705.6	682.6	23.04	30.630		
4,300.0	4,265.3	4,223.6	4,190.9	14.4	10.2	107.25	65.9	394.4	715.9	692.7	23.20	30.860		
4,400.0	4,365.3	4,322.5	4,288.6	14.5	10.4	106.41	73.0	407.3	726.4	703.0	23.37	31.089		
4,500.0	4,465.3	4,421.4	4,386.4	14.5	10.6	105.59	80.1	420.2	737.0	713.5	23.54	31.315		
4,600.0	4,565.3	4,520.3	4,484.2	14.6	10.8	104.80	87.2	433.1	747.8	724.1	23.71	31.540		
4,700.0	4,665.3	4,619.1	4,582.0	14.7	11.0	104.03	94.2	446.0	758.7	734.8	23.89	31.762		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,800.0	4,765.3	4,718.0	4,679.8	14.7	11.2	103.28	101.3	458.9	769.8	745.7	24.07	31.981		
4,900.0	4,865.3	4,816.9	4,777.6	14.8	11.4	102.55	108.4	471.8	780.9	756.7	24.25	32.197		
5,000.0	4,965.3	4,915.8	4,875.3	14.9	11.6	101.84	115.5	484.7	792.2	767.8	24.44	32.410		
5,100.0	5,065.3	5,014.7	4,973.1	14.9	11.8	101.15	122.6	497.6	803.7	779.0	24.64	32.620		
5,200.0	5,165.3	5,113.6	5,070.9	15.0	11.9	100.48	129.7	510.5	815.2	790.3	24.83	32.828		
5,300.0	5,265.3	5,215.3	5,171.5	15.1	12.1	99.82	136.9	523.8	826.8	801.7	25.04	33.019		
5,400.0	5,365.3	5,327.2	5,282.3	15.1	12.4	99.17	144.2	537.0	837.4	812.1	25.33	33.060		
5,500.0	5,465.3	5,439.6	5,394.0	15.2	12.6	98.63	150.4	548.4	846.6	821.0	25.59	33.088		
5,600.0	5,565.3	5,552.5	5,506.4	15.3	12.8	98.19	155.6	557.9	854.2	828.4	25.84	33.060		
5,700.0	5,665.3	5,665.8	5,619.4	15.3	13.0	97.84	159.8	565.5	860.4	834.3	26.09	32.978		
5,800.0	5,765.3	5,779.4	5,732.8	15.4	13.2	97.59	162.9	571.1	864.9	838.6	26.33	32.846		
5,900.0	5,865.3	5,893.2	5,846.6	15.5	13.4	97.42	164.9	574.7	867.9	841.3	26.57	32.667		
6,000.0	5,965.3	6,007.2	5,960.5	15.5	13.5	97.35	165.8	576.4	869.2	842.4	26.79	32.452		
6,100.0	6,065.3	6,112.0	6,065.3	15.6	13.6	97.34	165.9	576.5	869.3	842.4	26.92	32.295		
6,200.0	6,165.3	6,212.0	6,165.3	15.7	13.7	97.34	165.9	576.5	869.3	842.3	27.07	32.120		
6,300.0	6,265.3	6,312.0	6,265.3	15.7	13.7	97.34	165.9	576.5	869.3	842.1	27.21	31.945		
6,400.0	6,365.3	6,412.0	6,365.3	15.8	13.8	97.34	165.9	576.5	869.3	842.0	27.36	31.773		
6,500.0	6,465.3	6,512.0	6,465.3	15.9	13.9	97.34	165.9	576.5	869.3	841.8	27.51	31.602		
6,600.0	6,565.3	6,612.0	6,565.3	16.0	13.9	97.34	165.9	576.5	869.3	841.7	27.66	31.433		
6,700.0	6,665.3	6,712.0	6,665.3	16.0	14.0	97.34	165.9	576.5	869.3	841.5	27.80	31.266		
6,800.0	6,765.3	6,812.0	6,765.3	16.1	14.1	97.34	165.9	576.5	869.3	841.4	27.95	31.100		
6,900.0	6,865.3	6,912.0	6,865.3	16.2	14.2	97.34	165.9	576.5	869.3	841.2	28.10	30.936		
7,000.0	6,965.3	7,012.0	6,965.3	16.2	14.2	97.34	165.9	576.5	869.3	841.1	28.25	30.773		
7,100.0	7,065.3	7,112.0	7,065.3	16.3	14.3	97.34	165.9	576.5	869.3	840.9	28.40	30.612		
7,200.0	7,165.3	7,212.0	7,165.3	16.4	14.4	97.34	165.9	576.5	869.3	840.8	28.55	30.452		
7,300.0	7,265.3	7,312.0	7,265.3	16.4	14.4	97.34	165.9	576.5	869.3	840.6	28.70	30.294		
7,400.0	7,365.3	7,412.0	7,365.3	16.5	14.5	97.34	165.9	576.5	869.3	840.5	28.84	30.138		
7,500.0	7,465.3	7,512.0	7,465.3	16.6	14.6	97.34	165.9	576.5	869.3	840.3	28.99	29.983		
7,600.0	7,565.3	7,612.0	7,565.3	16.7	14.7	97.34	165.9	576.5	869.3	840.2	29.14	29.829		
7,700.0	7,665.3	7,712.0	7,665.3	16.7	14.7	97.34	165.9	576.5	869.3	840.0	29.29	29.677		
7,800.0	7,765.3	7,812.0	7,765.3	16.8	14.8	97.34	165.9	576.5	869.3	839.9	29.44	29.526		
7,900.0	7,865.3	7,912.0	7,865.3	16.9	14.9	97.34	165.9	576.5	869.3	839.7	29.59	29.377		
8,000.0	7,965.3	8,012.0	7,965.3	16.9	15.0	97.34	165.9	576.5	869.3	839.6	29.74	29.229		
8,100.0	8,065.3	8,112.0	8,065.3	17.0	15.0	97.34	165.9	576.5	869.3	839.4	29.89	29.082		
8,200.0	8,165.3	8,212.0	8,165.3	17.1	15.1	97.34	165.9	576.5	869.3	839.3	30.04	28.937		
8,300.0	8,265.3	8,312.0	8,265.3	17.1	15.2	97.34	165.9	576.5	869.3	839.1	30.19	28.793		
8,400.0	8,365.3	8,412.0	8,365.3	17.2	15.2	97.34	165.9	576.5	869.3	839.0	30.34	28.650		
8,500.0	8,465.3	8,512.0	8,465.3	17.3	15.3	97.34	165.9	576.5	869.3	838.8	30.49	28.509		
8,600.0	8,565.3	8,612.0	8,565.3	17.4	15.4	97.34	165.9	576.5	869.3	838.7	30.64	28.369		
8,700.0	8,665.3	8,712.0	8,665.3	17.4	15.5	97.34	165.9	576.5	869.3	838.5	30.79	28.230		
8,800.0	8,765.3	8,812.0	8,765.3	17.5	15.5	97.34	165.9	576.5	869.3	838.4	30.94	28.093		
8,900.0	8,865.3	8,912.0	8,865.3	17.6	15.6	97.34	165.9	576.5	869.3	838.2	31.10	27.957		
9,000.0	8,965.3	9,012.0	8,965.3	17.7	15.7	97.34	165.9	576.5	869.3	838.1	31.25	27.822		
9,100.0	9,065.3	9,112.0	9,065.3	17.7	15.8	97.34	165.9	576.5	869.3	837.9	31.40	27.688		
9,200.0	9,165.3	9,212.0	9,165.3	17.8	15.8	97.34	165.9	576.5	869.3	837.8	31.55	27.555		
9,300.0	9,265.3	9,312.0	9,265.3	17.9	15.9	97.34	165.9	576.5	869.3	837.6	31.70	27.424		
9,400.0	9,365.3	9,412.0	9,365.3	17.9	16.0	97.34	165.9	576.5	869.3	837.5	31.85	27.293		
9,500.0	9,465.3	9,512.0	9,465.3	18.0	16.1	97.34	165.9	576.5	869.3	837.3	32.00	27.164		
9,600.0	9,565.3	9,612.0	9,565.3	18.1	16.1	97.34	165.9	576.5	869.3	837.2	32.15	27.036		
9,700.0	9,665.3	9,712.0	9,665.3	18.2	16.2	97.34	165.9	576.5	869.3	837.0	32.31	26.910		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR				Rule Assigned:							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)				
9,800.0	9,765.3	9,812.0	9,765.3	18.2	16.3	97.34	165.9	576.5	869.3	836.9	32.46	26.784		
9,900.0	9,865.3	9,912.0	9,865.3	18.3	16.4	97.34	165.9	576.5	869.3	836.7	32.61	26.659		
10,000.0	9,965.3	10,012.0	9,965.3	18.4	16.4	97.34	165.9	576.5	869.3	836.6	32.76	26.536		
10,100.0	10,065.3	10,112.0	10,065.3	18.4	16.5	97.34	165.9	576.5	869.3	836.4	32.91	26.413		
10,200.0	10,165.3	10,212.0	10,165.3	18.5	16.6	97.34	165.9	576.5	869.3	836.3	33.06	26.292		
10,300.0	10,265.3	10,312.0	10,265.3	18.6	16.7	97.34	165.9	576.5	869.3	836.1	33.22	26.171		
10,400.0	10,365.3	10,412.0	10,365.3	18.7	16.7	97.34	165.9	576.5	869.3	836.0	33.37	26.052		
10,500.0	10,465.3	10,512.0	10,465.3	18.7	16.8	97.34	165.9	576.5	869.3	835.8	33.52	25.933		
10,600.0	10,565.3	10,612.0	10,565.3	18.8	16.9	97.34	165.9	576.5	869.3	835.6	33.67	25.816		
10,700.0	10,665.3	10,712.0	10,665.3	18.9	17.0	97.34	165.9	576.5	869.3	835.5	33.83	25.700		
10,800.0	10,765.3	10,812.0	10,765.3	19.0	17.0	97.34	165.9	576.5	869.3	835.3	33.98	25.584		
10,900.0	10,865.3	10,912.0	10,865.3	19.0	17.1	97.34	165.9	576.5	869.3	835.2	34.13	25.470		
11,000.0	10,965.3	11,012.0	10,965.3	19.1	17.2	97.34	165.9	576.5	869.3	835.0	34.28	25.357		
11,100.0	11,065.3	11,112.0	11,065.3	19.2	17.3	97.34	165.9	576.5	869.3	834.9	34.44	25.244		
11,200.0	11,165.3	11,212.0	11,165.3	19.3	17.3	97.34	165.9	576.5	869.3	834.7	34.59	25.133		
11,300.0	11,265.3	11,312.0	11,265.3	19.3	17.4	97.34	165.9	576.5	869.3	834.6	34.74	25.022		
11,400.0	11,365.3	11,412.0	11,365.3	19.4	17.5	97.34	165.9	576.5	869.3	834.4	34.90	24.912		
11,500.0	11,465.3	11,512.0	11,465.3	19.5	17.6	97.34	165.9	576.5	869.3	834.3	35.05	24.803		
11,600.0	11,565.3	11,612.0	11,565.3	19.5	17.6	97.34	165.9	576.5	869.3	834.1	35.20	24.696		
11,700.0	11,665.3	11,712.0	11,665.3	19.6	17.7	97.34	165.9	576.5	869.3	834.0	35.35	24.590		
11,741.2	11,706.5	11,753.2	11,706.5	19.6	17.7	97.34	165.9	576.5	869.3	833.9	35.39	24.561		
11,750.0	11,715.3	11,760.3	11,713.6	19.6	17.7	-82.29	165.8	576.5	869.3	833.9	35.39	24.562		
11,775.0	11,740.3	11,780.4	11,733.7	19.6	17.7	-82.30	165.1	576.5	869.3	833.9	35.38	24.573		
11,800.0	11,765.2	11,800.0	11,753.2	19.6	17.7	-82.33	163.6	576.6	869.2	833.9	35.35	24.589		
11,825.0	11,789.9	11,820.6	11,773.7	19.5	17.7	-82.39	161.1	576.6	869.1	833.8	35.32	24.606		
11,850.0	11,814.4	11,840.7	11,793.5	19.5	17.7	-82.45	157.9	576.6	869.0	833.7	35.29	24.624		
11,875.0	11,838.6	11,860.9	11,813.3	19.4	17.7	-82.54	153.8	576.6	868.8	833.6	35.26	24.642		
11,900.0	11,862.4	11,881.1	11,832.9	19.3	17.7	-82.64	148.9	576.7	868.6	833.4	35.22	24.661		
11,925.0	11,885.8	11,900.0	11,851.0	19.3	17.6	-82.75	143.5	576.7	868.4	833.2	35.19	24.680		
11,950.0	11,908.7	11,921.7	11,871.5	19.2	17.6	-82.89	136.5	576.7	868.2	833.0	35.15	24.699		
11,975.0	11,931.1	11,942.0	11,890.4	19.2	17.6	-83.04	129.0	576.8	867.9	832.8	35.11	24.719		
12,000.0	11,952.8	11,962.4	11,909.1	19.1	17.6	-83.21	120.8	576.8	867.6	832.5	35.07	24.738		
12,025.0	11,973.9	11,982.9	11,927.4	19.1	17.6	-83.40	111.7	576.9	867.3	832.2	35.03	24.756		
12,050.0	11,994.2	12,003.5	11,945.5	19.0	17.6	-83.60	101.8	577.0	866.9	832.0	34.99	24.774		
12,075.0	12,013.8	12,025.0	11,963.9	19.0	17.6	-83.82	90.6	577.0	866.6	831.6	34.95	24.793		
12,100.0	12,032.5	12,044.9	11,980.4	18.9	17.5	-84.04	79.5	577.1	866.2	831.3	34.92	24.809		
12,125.0	12,050.3	12,065.7	11,997.2	18.9	17.5	-84.28	67.2	577.2	865.9	831.0	34.88	24.824		
12,150.0	12,067.2	12,086.7	12,013.5	18.8	17.5	-84.54	54.1	577.3	865.5	830.6	34.84	24.839		
12,175.0	12,083.0	12,107.8	12,029.4	18.8	17.5	-84.81	40.2	577.4	865.1	830.3	34.81	24.851		
12,200.0	12,097.9	12,129.0	12,044.7	18.8	17.5	-85.09	25.5	577.5	864.7	829.9	34.78	24.862		
12,225.0	12,111.7	12,150.0	12,059.2	18.8	17.5	-85.38	10.3	577.5	864.4	829.6	34.75	24.871		
12,250.0	12,124.3	12,171.8	12,073.5	18.7	17.5	-85.69	-6.1	577.7	864.0	829.3	34.73	24.877		
12,275.0	12,135.9	12,193.4	12,087.0	18.7	17.5	-86.00	-23.1	577.8	863.6	828.9	34.71	24.881		
12,300.0	12,146.2	12,215.3	12,099.7	18.7	17.5	-86.33	-40.8	577.9	863.3	828.6	34.70	24.881		
12,325.0	12,155.3	12,237.3	12,111.8	18.7	17.5	-86.67	-59.2	578.0	863.0	828.3	34.69	24.878		
12,350.0	12,163.2	12,259.4	12,123.1	18.7	17.5	-87.01	-78.3	578.1	862.7	828.0	34.69	24.871		
12,375.0	12,169.9	12,281.8	12,133.6	18.7	17.5	-87.36	-98.0	578.2	862.4	827.7	34.69	24.860		
12,400.0	12,175.3	12,304.4	12,143.2	18.7	17.5	-87.72	-118.5	578.4	862.2	827.5	34.70	24.844		
12,425.0	12,179.4	12,327.2	12,151.9	18.7	17.5	-88.09	-139.5	578.5	862.0	827.2	34.72	24.824		
12,450.0	12,182.2	12,350.0	12,159.6	18.7	17.5	-88.46	-161.0	578.7	861.8	827.0	34.75	24.798		
12,475.0	12,183.7	12,373.6	12,166.5	18.8	17.6	-88.84	-183.5	578.8	861.6	826.8	34.79	24.767		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
12,491.2	12,184.0	12,388.8	12,170.3	18.8	17.6	-89.09	-198.2	578.9	861.6	826.7	34.82	24.744		
12,500.0	12,184.0	12,397.1	12,172.2	18.8	17.6	-89.22	-206.4	578.9	861.5	826.7	34.84	24.731		
12,574.1	12,184.0	12,469.5	12,182.8	18.9	17.6	-89.92	-277.9	579.4	861.5	826.4	35.03	24.591		
12,600.0	12,184.0	12,495.3	12,183.9	18.9	17.7	-90.00	-303.7	579.6	861.5	826.3	35.10	24.541		
12,700.0	12,184.0	12,595.3	12,184.0	19.1	17.8	-90.00	-403.7	580.2	861.5	826.0	35.46	24.295		
12,800.0	12,184.0	12,695.3	12,184.0	19.3	18.0	-90.00	-503.7	580.9	861.4	825.5	35.90	23.993		
12,900.0	12,184.0	12,795.3	12,184.0	19.6	18.2	-90.00	-603.7	581.5	861.4	825.0	36.43	23.644		
13,000.0	12,184.0	12,895.3	12,184.0	19.9	18.4	-90.00	-703.7	582.2	861.4	824.4	37.05	23.254		
13,100.0	12,184.0	12,995.3	12,184.0	20.3	18.7	-90.00	-803.7	582.8	861.4	823.7	37.73	22.830		
13,200.0	12,184.0	13,095.3	12,184.0	20.7	19.0	-90.00	-903.7	583.5	861.4	823.0	38.49	22.378		
13,300.0	12,184.0	13,195.3	12,184.0	21.2	19.3	-90.00	-1,003.7	584.1	861.4	822.1	39.32	21.906		
13,400.0	12,184.0	13,295.3	12,184.0	21.6	19.6	-90.00	-1,103.7	584.7	861.4	821.2	40.22	21.419		
13,500.0	12,184.0	13,395.3	12,184.0	22.2	20.0	-90.00	-1,203.7	585.4	861.4	820.3	41.17	20.923		
13,600.0	12,184.0	13,495.3	12,184.0	22.7	20.4	-90.00	-1,303.7	586.0	861.4	819.3	42.18	20.422		
13,700.0	12,184.0	13,595.3	12,184.0	23.3	20.8	-90.00	-1,403.7	586.7	861.4	818.2	43.24	19.921		
13,800.0	12,184.0	13,695.3	12,184.0	23.9	21.3	-90.00	-1,503.7	587.3	861.4	817.1	44.35	19.422		
13,900.0	12,184.0	13,795.3	12,184.0	24.5	21.8	-90.00	-1,603.7	588.0	861.4	815.9	45.51	18.930		
14,000.0	12,184.0	13,895.3	12,184.0	25.2	22.3	-90.00	-1,703.7	588.6	861.4	814.7	46.70	18.445		
14,100.0	12,184.0	13,995.3	12,184.0	25.9	22.8	-90.00	-1,803.7	589.3	861.4	813.5	47.94	17.970		
14,200.0	12,184.0	14,095.3	12,184.0	26.6	23.3	-90.00	-1,903.7	589.9	861.4	812.2	49.21	17.507		
14,300.0	12,184.0	14,195.3	12,184.0	27.3	23.9	-90.00	-2,003.7	590.6	861.4	810.9	50.51	17.055		
14,400.0	12,184.0	14,295.3	12,184.0	28.0	24.5	-90.00	-2,103.7	591.2	861.4	809.6	51.84	16.617		
14,500.0	12,184.0	14,395.3	12,184.0	28.8	25.1	-90.00	-2,203.7	591.8	861.4	808.2	53.20	16.193		
14,600.0	12,184.0	14,495.3	12,184.0	29.5	25.7	-90.00	-2,303.7	592.5	861.4	806.9	54.58	15.782		
14,700.0	12,184.0	14,595.3	12,184.0	30.3	26.3	-90.00	-2,403.7	593.1	861.4	805.4	55.99	15.385		
14,800.0	12,184.0	14,695.3	12,184.0	31.1	27.0	-90.00	-2,503.7	593.8	861.4	804.0	57.42	15.001		
14,900.0	12,184.0	14,795.3	12,184.0	31.9	27.6	-90.00	-2,603.7	594.4	861.4	802.6	58.88	14.631		
15,000.0	12,184.0	14,895.3	12,184.0	32.7	28.3	-90.00	-2,703.7	595.1	861.4	801.1	60.35	14.275		
15,100.0	12,184.0	14,995.3	12,184.0	33.5	29.0	-90.00	-2,803.7	595.7	861.4	799.6	61.83	13.931		
15,200.0	12,184.0	15,095.3	12,184.0	34.3	29.6	-90.00	-2,903.7	596.4	861.4	798.1	63.34	13.600		
15,300.0	12,184.0	15,195.3	12,184.0	35.1	30.3	-90.00	-3,003.6	597.0	861.4	796.6	64.86	13.282		
15,400.0	12,184.0	15,295.3	12,184.0	36.0	31.0	-90.00	-3,103.6	597.7	861.4	795.0	66.39	12.975		
15,500.0	12,184.0	15,395.3	12,184.0	36.8	31.7	-90.00	-3,203.6	598.3	861.4	793.5	67.94	12.680		
15,600.0	12,184.0	15,495.3	12,184.0	37.6	32.5	-90.00	-3,303.6	599.0	861.4	791.9	69.50	12.395		
15,700.0	12,184.0	15,595.3	12,184.0	38.5	33.2	-90.00	-3,403.6	599.6	861.4	790.4	71.07	12.121		
15,800.0	12,184.0	15,695.3	12,184.0	39.4	33.9	-90.00	-3,503.6	600.2	861.4	788.8	72.65	11.858		
15,900.0	12,184.0	15,795.3	12,184.0	40.2	34.7	-90.00	-3,603.6	600.9	861.4	787.2	74.24	11.603		
16,000.0	12,184.0	15,895.3	12,184.0	41.1	35.4	-90.00	-3,703.6	601.5	861.4	785.6	75.84	11.359		
16,100.0	12,184.0	15,995.3	12,184.0	41.9	36.1	-90.00	-3,803.6	602.2	861.4	784.0	77.45	11.122		
16,200.0	12,184.0	16,095.3	12,184.0	42.8	36.9	-90.00	-3,903.6	602.8	861.4	782.4	79.07	10.895		
16,300.0	12,184.0	16,195.3	12,184.0	43.7	37.7	-90.00	-4,003.6	603.5	861.4	780.7	80.69	10.675		
16,400.0	12,184.0	16,295.3	12,184.0	44.6	38.4	-90.00	-4,103.6	604.1	861.4	779.1	82.32	10.464		
16,500.0	12,184.0	16,395.3	12,184.0	45.5	39.2	-90.00	-4,203.6	604.8	861.4	777.5	83.96	10.259		
16,600.0	12,184.0	16,495.3	12,184.0	46.4	39.9	-90.00	-4,303.6	605.4	861.4	775.8	85.61	10.062		
16,700.0	12,184.0	16,595.3	12,184.0	47.2	40.7	-90.00	-4,403.6	606.1	861.4	774.2	87.26	9.872		
16,800.0	12,184.0	16,695.3	12,184.0	48.1	41.5	-90.00	-4,503.6	606.7	861.4	772.5	88.92	9.688		
16,900.0	12,184.0	16,795.3	12,184.0	49.0	42.3	-90.00	-4,603.6	607.3	861.4	770.8	90.58	9.510		
17,000.0	12,184.0	16,895.3	12,184.0	49.9	43.1	-90.00	-4,703.6	608.0	861.4	769.2	92.25	9.338		
17,100.0	12,184.0	16,995.3	12,184.0	50.8	43.8	-90.00	-4,803.6	608.6	861.4	767.5	93.92	9.171		
17,200.0	12,184.0	17,095.3	12,184.0	51.7	44.6	-90.00	-4,903.6	609.3	861.4	765.8	95.60	9.010		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - _ZIA HILLS UNIT 2532 WC 711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		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)			
17,300.0	12,184.0	17,195.3	12,184.0	52.7	45.4	-90.00	-5,003.6	609.9	861.4	764.1	97.28	8.855	
17,400.0	12,184.0	17,295.3	12,184.0	53.6	46.2	-90.00	-5,103.6	610.6	861.4	762.4	98.97	8.704	
17,500.0	12,184.0	17,409.9	12,184.0	54.5	47.1	-90.00	-5,218.2	610.0	860.2	759.5	100.72	8.541	
17,600.0	12,184.0	17,509.9	12,184.0	55.4	47.9	-90.00	-5,318.2	608.9	858.5	756.1	102.41	8.383	
17,700.0	12,184.0	17,609.9	12,184.0	56.3	48.7	-90.00	-5,418.1	607.9	856.8	752.7	104.11	8.230	
17,800.0	12,184.0	17,709.9	12,184.0	57.2	49.5	-90.00	-5,518.1	606.8	855.1	749.3	105.81	8.082	
17,900.0	12,184.0	17,809.9	12,184.0	58.1	50.3	-90.00	-5,618.1	605.8	853.4	745.9	107.51	7.938	
18,000.0	12,184.0	17,909.8	12,184.0	59.0	51.1	-90.00	-5,718.1	604.7	851.7	742.5	109.21	7.799	
18,100.0	12,184.0	18,009.8	12,184.0	60.0	51.9	-90.00	-5,818.1	603.7	850.0	739.1	110.92	7.663	
18,200.0	12,184.0	18,109.8	12,184.0	60.9	52.7	-90.00	-5,918.0	602.7	848.4	735.7	112.63	7.532	
18,300.0	12,184.0	18,209.8	12,184.0	61.8	53.5	-90.00	-6,018.0	601.6	846.7	732.3	114.35	7.404	
18,400.0	12,184.0	18,309.8	12,184.0	62.7	54.3	-90.00	-6,118.0	600.6	845.0	728.9	116.07	7.280	
18,500.0	12,184.0	18,409.8	12,184.0	63.7	55.2	-90.00	-6,218.0	599.5	843.3	725.5	117.78	7.159	
18,600.0	12,184.0	18,509.8	12,184.0	64.6	56.0	-90.00	-6,318.0	598.5	841.6	722.1	119.51	7.042	
18,700.0	12,184.0	18,609.7	12,184.0	65.5	56.8	-90.00	-6,417.9	597.4	839.9	718.7	121.23	6.928	
18,800.0	12,184.0	18,709.7	12,184.0	66.4	57.6	-90.00	-6,517.9	596.4	838.2	715.2	122.96	6.817	
18,900.0	12,184.0	18,809.7	12,184.0	67.4	58.4	-90.00	-6,617.9	595.3	836.5	711.8	124.68	6.709	
19,000.0	12,184.0	18,909.7	12,184.0	68.3	59.2	-90.00	-6,717.9	594.3	834.8	708.4	126.41	6.604	
19,100.0	12,184.0	19,009.7	12,184.0	69.2	60.0	-90.00	-6,817.9	593.2	833.1	705.0	128.15	6.501	
19,200.0	12,184.0	19,109.7	12,184.0	70.2	60.9	-90.00	-6,917.8	592.2	831.4	701.5	129.88	6.401	
19,300.0	12,184.0	19,209.7	12,184.0	71.1	61.7	-90.00	-7,017.8	591.1	829.7	698.1	131.61	6.304	
19,400.0	12,184.0	19,309.6	12,184.0	72.0	62.5	-90.00	-7,117.8	590.1	828.0	694.7	133.35	6.209	
19,442.8	12,184.0	19,339.0	12,184.0	72.4	62.7	-90.00	-7,147.1	589.8	827.4	693.4	134.04	6.173 SF	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - MELLISSA-FEDERAL #1 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 500-INC ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		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	4.0	4.0	0.0	3.0	116.29	-341.0	690.2	769.9	765.2	4.67	164.942	
100.0	100.0	104.0	104.0	1.2	4.3	116.29	-341.0	690.2	769.9	763.1	6.75	114.073	
200.0	200.0	204.0	204.0	1.7	6.8	116.29	-341.0	690.2	769.9	759.6	10.28	74.862	
300.0	300.0	304.0	304.0	2.1	9.6	116.29	-341.0	690.2	769.9	755.7	14.19	54.252	
400.0	400.0	404.0	404.0	2.4	12.5	116.29	-341.0	690.2	769.9	751.6	18.23	42.241	
500.0	500.0	504.2	504.0	2.7	15.4	116.29	-341.0	690.2	769.9	747.5	22.33	34.482	
600.0	600.0	604.2	604.0	3.0	18.4	116.29	-341.0	690.2	769.9	743.4	26.45	29.108	
700.0	700.0	704.2	704.0	3.2	21.3	116.29	-341.0	690.2	769.9	739.3	30.59	25.168	
745.7	745.7	749.9	749.6	3.4	22.7	116.07	-337.7	690.2	768.4	735.9	32.48	23.655 CC	
800.0	800.0	802.4	802.1	3.5	24.3	116.08	-337.8	690.2	768.5	733.8	34.67	22.168	
900.0	900.0	899.2	898.8	3.7	27.1	116.15	-338.9	690.2	769.0	730.3	38.69	19.874	
1,000.0	1,000.0	1,004.6	1,004.0	3.9	30.3	116.29	-341.0	690.2	769.9	726.8	43.08	17.872	
1,100.0	1,100.0	1,104.5	1,104.0	4.2	33.3	162.20	-341.0	690.2	771.5	724.3	47.26	16.324 ES	
1,200.0	1,199.8	1,204.4	1,203.8	4.5	36.3	162.29	-341.0	690.2	776.5	725.1	51.45	15.093	
1,300.0	1,299.5	1,303.4	1,302.8	4.9	39.2	162.36	-339.9	690.2	784.4	728.8	55.60	14.107	
1,400.0	1,398.7	1,401.4	1,400.8	5.2	42.1	162.57	-340.3	690.2	796.1	736.4	59.72	13.332	
1,500.0	1,497.5	1,502.4	1,501.5	5.6	45.2	162.86	-341.0	690.2	811.4	747.5	63.96	12.687	
1,586.0	1,582.0	1,586.9	1,586.0	5.8	47.7	163.10	-341.0	690.2	826.9	759.4	67.51	12.250	
1,600.0	1,595.6	1,600.5	1,599.6	5.9	48.1	163.16	-341.0	690.2	829.7	761.6	68.08	12.187	
1,700.0	1,693.5	1,698.4	1,697.5	6.2	51.0	163.56	-341.0	690.2	849.2	777.0	72.20	11.762	
1,800.0	1,791.5	1,794.5	1,793.5	6.6	53.9	163.74	-337.8	690.2	867.2	791.0	76.23	11.375	
1,900.0	1,889.4	1,888.3	1,887.3	6.9	56.7	164.14	-338.7	690.2	887.2	807.0	80.18	11.065	
2,000.0	1,987.3	1,982.0	1,980.9	7.3	59.5	164.58	-340.5	690.2	907.7	823.6	84.12	10.790	
2,100.0	2,085.2	2,090.4	2,089.2	7.6	62.8	164.98	-341.0	690.2	927.5	838.8	88.69	10.458	
2,200.0	2,183.1	2,188.3	2,187.1	8.0	65.7	165.29	-341.0	690.2	947.2	854.3	92.82	10.204	
2,300.0	2,281.0	2,285.7	2,284.4	8.4	68.6	165.54	-339.9	690.2	966.3	869.4	96.92	9.970	
2,400.0	2,378.9	2,381.9	2,380.7	8.8	71.5	165.85	-340.2	690.2	986.2	885.2	100.98	9.766 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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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				Rule Assigned:								Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
2,500.0	2,476.9	3,120.0	3,120.0	9.2	0.0	-102.09	-348.3	-654.7	965.2	956.9	8.33	115.821			
2,600.0	2,574.8	3,120.0	3,120.0	9.6	0.0	-102.09	-348.3	-654.7	902.0	893.1	8.90	101.321			
2,662.6	2,636.1	3,120.0	3,120.0	9.9	0.0	-102.09	-348.3	-654.7	865.9	856.6	9.25	93.642			
2,700.0	2,672.7	3,120.0	3,120.0	10.0	0.0	-101.86	-348.3	-654.7	845.8	836.3	9.45	89.530			
2,800.0	2,770.9	3,120.0	3,120.0	10.4	0.0	-101.33	-348.3	-654.7	798.0	787.9	10.06	79.323			
2,900.0	2,869.5	3,120.0	3,120.0	10.8	0.0	-100.92	-348.3	-654.7	760.0	749.4	10.64	71.427			
3,000.0	2,968.3	3,120.0	3,120.0	11.2	0.0	-100.65	-348.3	-654.7	733.5	722.4	11.14	65.830			
3,100.0	3,067.3	3,120.0	3,120.0	11.7	0.0	-100.51	-348.3	-654.7	719.7	708.2	11.52	62.482			
3,152.5	3,119.5	3,120.0	3,120.0	11.9	0.0	-100.50	-348.3	-654.7	717.9	706.2	11.65	61.601 CC			
3,200.0	3,166.6	3,151.6	3,151.6	12.0	0.9	-100.79	-348.3	-654.7	718.7	706.8	11.85	60.640			
3,300.0	3,266.1	3,251.1	3,251.1	12.4	3.9	-101.60	-348.3	-654.7	720.7	707.4	13.28	54.263			
3,400.0	3,365.7	3,350.7	3,350.7	12.8	6.9	-102.27	-348.3	-654.7	722.4	706.7	15.75	45.879			
3,500.0	3,465.5	3,450.5	3,450.5	13.2	9.9	-102.80	-348.3	-654.7	723.9	705.1	18.84	38.430			
3,600.0	3,565.4	3,550.6	3,550.4	13.5	12.9	-103.19	-348.3	-654.7	725.0	702.7	22.29	32.521			
3,700.0	3,665.3	3,650.5	3,650.3	13.8	15.9	-103.45	-348.3	-654.7	725.8	699.8	25.96	27.958			
3,799.4	3,764.8	3,749.9	3,749.7	14.1	18.9	-103.43	-345.1	-654.7	723.3	693.6	29.73	24.329			
3,800.0	3,765.3	3,750.5	3,750.2	14.1	18.9	-103.43	-345.1	-654.7	723.3	693.5	29.75	24.312			
3,834.7	3,800.0	3,783.0	3,782.8	14.1	19.9	-149.32	-345.1	-654.7	723.4	692.4	31.00	23.338			
3,900.0	3,865.3	3,844.5	3,844.2	14.1	21.7	-149.34	-345.5	-654.7	723.7	690.4	33.37	21.687			
4,000.0	3,965.3	3,938.5	3,938.2	14.2	24.6	-149.40	-346.9	-654.7	725.0	687.9	37.08	19.554			
4,100.0	4,065.3	4,050.8	4,050.3	14.3	27.9	-149.45	-348.3	-654.7	726.1	684.6	41.57	17.470			
4,200.0	4,165.3	4,150.8	4,150.3	14.3	30.9	-149.45	-348.3	-654.7	726.1	680.5	45.59	15.926			
4,299.4	4,264.7	4,250.2	4,249.7	14.4	33.9	-149.41	-347.3	-654.7	725.2	675.6	49.62	14.614			
4,300.0	4,265.3	4,250.8	4,250.3	14.4	33.9	-149.41	-347.3	-654.7	725.2	675.5	49.65	14.607			
4,400.0	4,365.3	4,348.7	4,348.2	14.5	36.9	-149.42	-347.4	-654.7	725.3	671.7	53.64	13.523			
4,500.0	4,465.3	4,446.6	4,446.0	14.5	39.8	-149.44	-347.9	-654.7	725.8	668.1	57.64	12.591			
4,600.0	4,565.3	4,551.1	4,550.3	14.6	42.9	-149.45	-348.3	-654.7	726.1	664.2	61.93	11.724			
4,700.0	4,665.3	4,651.1	4,650.3	14.7	45.9	-149.45	-348.3	-654.7	726.1	660.1	66.05	10.994 ES			
4,800.0	4,765.3	4,675.0	4,674.1	14.7	46.6	-149.45	-348.3	-654.7	730.1	663.4	66.68	10.949 SF			
4,900.0	4,865.3	4,675.0	4,674.1	14.8	46.6	-149.45	-348.3	-654.7	747.2	682.0	65.21	11.458			
5,000.0	4,965.3	4,675.0	4,674.1	14.9	46.6	-149.45	-348.3	-654.7	776.9	714.1	62.82	12.366			
5,100.0	5,065.3	4,675.0	4,674.1	14.9	46.6	-149.45	-348.3	-654.7	817.8	758.0	59.82	13.671			
5,200.0	5,165.3	4,675.0	4,674.1	15.0	46.6	-149.45	-348.3	-654.7	868.4	811.9	56.52	15.364			
5,300.0	5,265.3	4,675.0	4,674.1	15.1	46.6	-149.45	-348.3	-654.7	927.0	873.8	53.16	17.439			
5,400.0	5,365.3	4,675.0	4,674.1	15.1	46.6	-149.45	-348.3	-654.7	992.3	942.4	49.91	19.882			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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)	Reference (usft)	Semi 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	-118.02	-348.3	-654.7	741.6	736.9	4.66	159.006		
100.0	100.0	95.0	95.0	1.2	4.1	-118.02	-348.3	-654.7	741.6	735.1	6.49	114.205		
200.0	200.0	195.0	195.0	1.7	6.6	-118.02	-348.3	-654.7	741.6	731.6	9.96	74.475		
300.0	300.0	295.0	295.0	2.1	9.3	-118.02	-348.3	-654.7	741.6	727.8	13.84	53.576		
400.0	400.0	395.0	395.0	2.4	12.2	-118.02	-348.3	-654.7	741.6	723.7	17.87	41.506		
500.0	500.0	495.0	495.0	2.7	15.2	-118.02	-348.3	-654.7	741.6	719.6	21.95	33.780		
600.0	600.0	595.2	595.0	3.0	18.1	-118.02	-348.3	-654.7	741.6	715.5	26.08	28.433		
700.0	700.0	695.2	695.0	3.2	21.1	-118.02	-348.3	-654.7	741.6	711.4	30.22	24.540		
754.6	754.6	749.9	749.6	3.4	22.7	-117.79	-345.1	-654.7	740.1	707.6	32.49	22.781		
800.0	800.0	793.7	793.4	3.5	24.0	-117.80	-345.2	-654.7	740.1	705.8	34.31	21.573		
900.0	900.0	890.4	890.0	3.7	26.9	-117.86	-346.1	-654.7	740.6	702.2	38.33	19.322		
1,000.0	1,000.0	987.1	986.7	3.9	29.8	-117.99	-348.0	-654.7	741.5	699.1	42.35	17.507		
1,100.0	1,100.0	1,095.5	1,095.0	4.2	33.0	-72.27	-348.3	-654.7	741.1	694.2	46.87	15.810		
1,200.0	1,199.8	1,195.4	1,194.8	4.5	36.0	-72.69	-348.3	-654.7	739.5	688.4	51.04	14.488		
1,300.0	1,299.5	1,294.5	1,293.9	4.9	38.9	-73.31	-347.3	-654.7	736.4	681.2	55.18	13.347		
1,400.0	1,398.7	1,392.5	1,391.9	5.2	41.9	-74.29	-347.6	-654.7	733.2	673.9	59.27	12.370		
1,500.0	1,497.5	1,489.9	1,489.3	5.6	44.8	-75.56	-348.3	-654.7	729.4	666.0	63.34	11.515		
1,586.0	1,582.0	1,577.9	1,577.0	5.8	47.4	-76.90	-348.3	-654.7	725.5	658.5	67.01	10.827		
1,600.0	1,595.6	1,591.5	1,590.6	5.9	47.8	-77.11	-348.3	-654.7	724.9	657.3	67.58	10.726		
1,700.0	1,693.5	1,689.4	1,688.5	6.2	50.8	-78.66	-348.3	-654.7	720.5	648.8	71.68	10.051		
1,800.0	1,791.5	1,785.8	1,784.8	6.6	53.7	-79.99	-345.1	-654.7	714.8	639.1	75.71	9.441		
1,900.0	1,889.4	1,879.6	1,878.6	6.9	56.5	-81.55	-346.0	-654.7	712.0	632.4	79.63	8.941		
2,000.0	1,987.3	1,973.2	1,972.1	7.3	59.3	-83.17	-347.7	-654.7	710.4	626.9	83.55	8.504		
2,100.0	2,085.2	2,081.4	2,080.2	7.6	62.5	-84.98	-348.3	-654.7	708.7	620.6	88.08	8.046		
2,200.0	2,183.1	2,179.3	2,178.1	8.0	65.4	-86.58	-348.3	-654.7	707.2	615.0	92.18	7.671		
2,300.0	2,281.0	2,276.8	2,275.6	8.4	68.4	-88.13	-347.3	-654.7	705.5	609.2	96.26	7.329		
2,374.2	2,353.7	2,348.2	2,347.0	8.7	70.5	-89.31	-347.4	-654.7	705.2	606.0	99.25	7.106 CC		
2,400.0	2,378.9	2,373.0	2,371.8	8.8	71.3	-89.73	-347.5	-654.7	705.3	605.0	100.29	7.032		
2,500.0	2,476.9	2,469.2	2,467.9	9.2	74.1	-91.34	-348.1	-654.7	705.9	601.6	104.32	6.767		
2,600.0	2,574.8	2,571.3	2,569.8	9.6	77.2	-93.04	-348.3	-654.7	706.9	598.3	108.60	6.509		
2,662.6	2,636.1	2,632.6	2,631.1	9.9	79.0	-94.04	-348.3	-654.7	707.7	596.5	111.16	6.366		
2,700.0	2,672.7	2,669.3	2,667.7	10.0	80.1	-94.64	-348.3	-654.7	708.3	595.6	112.70	6.285		
2,782.5	2,753.7	2,750.2	2,748.6	10.4	82.6	-95.73	-345.1	-654.7	707.1	591.1	116.09	6.091		
2,800.0	2,770.9	2,766.5	2,764.9	10.4	83.0	-95.97	-345.1	-654.7	707.5	590.7	116.78	6.059		
2,900.0	2,869.5	2,859.6	2,857.9	10.8	85.8	-97.30	-345.7	-654.7	710.0	589.4	120.68	5.884		
3,000.0	2,968.3	2,952.9	2,951.1	11.2	88.6	-98.55	-347.2	-654.7	713.5	588.9	124.57	5.728		
3,100.0	3,067.3	3,064.2	3,062.3	11.7	92.0	-99.83	-348.3	-654.7	716.5	587.3	129.26	5.544		
3,200.0	3,166.6	3,163.5	3,161.6	12.0	95.0	-100.79	-348.3	-654.7	718.7	585.3	133.42	5.387		
3,300.0	3,266.1	3,262.7	3,260.8	12.4	97.9	-101.55	-347.3	-654.7	719.8	582.2	137.58	5.232		
3,400.0	3,365.7	3,360.3	3,358.4	12.8	100.9	-102.22	-347.5	-654.7	721.7	580.0	141.66	5.094		
3,500.0	3,465.5	3,457.9	3,456.0	13.2	103.8	-102.77	-348.0	-654.7	723.6	577.9	145.75	4.965		
3,600.0	3,565.4	3,562.6	3,560.4	13.5	106.9	-103.19	-348.3	-654.7	725.0	574.9	150.14	4.829		
3,700.0	3,665.3	3,662.5	3,660.3	13.8	109.9	-103.45	-348.3	-654.7	725.8	571.4	154.32	4.703		
3,787.3	3,752.6	3,749.8	3,747.5	14.0	112.5	-103.43	-345.1	-654.7	723.3	565.3	157.97	4.578		
3,800.0	3,765.3	3,761.8	3,759.5	14.1	112.9	-103.43	-345.1	-654.7	723.3	564.8	158.47	4.564		
3,834.7	3,800.0	3,794.4	3,792.1	14.1	113.9	-149.33	-345.2	-654.7	723.4	563.6	159.83	4.526		
3,900.0	3,865.3	3,855.8	3,853.4	14.1	115.7	-149.35	-345.7	-654.7	723.8	561.5	162.39	4.457		
4,000.0	3,965.3	3,949.9	3,947.5	14.2	118.5	-149.41	-347.2	-654.7	725.2	558.9	166.31	4.361		
4,100.0	4,065.3	4,062.9	4,060.3	14.3	121.9	-149.45	-348.3	-654.7	726.1	555.1	171.06	4.245		
4,200.0	4,165.3	4,162.9	4,160.3	14.3	124.9	-149.45	-348.3	-654.7	726.1	550.9	175.24	4.143		
4,287.0	4,252.3	4,249.8	4,247.3	14.4	127.5	-149.41	-347.3	-654.7	725.2	546.3	178.88	4.054		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - WILDER-FEDERAL 9-X - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 500-INC ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
4,300.0	4,265.3	4,262.6	4,260.0	14.4	127.9	-149.41	-347.3	-654.7	725.2	545.8	179.42	4.042	
4,400.0	4,365.3	4,360.5	4,357.9	14.5	130.8	-149.42	-347.5	-654.7	725.4	541.9	183.51	3.953	
4,500.0	4,465.3	4,458.4	4,455.8	14.5	133.8	-149.44	-348.0	-654.7	725.8	538.2	187.60	3.869	
4,600.0	4,565.3	4,563.2	4,560.3	14.6	136.9	-149.45	-348.3	-654.7	726.1	534.1	191.99	3.782	
4,700.0	4,665.3	4,663.2	4,660.3	14.7	139.9	-149.45	-348.3	-654.7	726.1	529.9	196.17	3.701 ES, SF	
4,800.0	4,765.3	4,696.0	4,693.0	14.7	140.9	-149.45	-348.3	-654.7	729.2	532.5	196.71	3.707	
4,900.0	4,865.3	4,696.0	4,693.0	14.8	140.9	-149.45	-348.3	-654.7	745.1	552.6	192.55	3.870	
5,000.0	4,965.3	4,696.0	4,693.0	14.9	140.9	-149.45	-348.3	-654.7	773.8	588.3	185.49	4.171	
5,100.0	5,065.3	4,696.0	4,693.0	14.9	140.9	-149.45	-348.3	-654.7	813.7	637.3	176.47	4.611	
5,200.0	5,165.3	4,696.0	4,693.0	15.0	140.9	-149.45	-348.3	-654.7	863.5	697.1	166.42	5.189	
5,300.0	5,265.3	4,696.0	4,693.0	15.1	140.9	-149.45	-348.3	-654.7	921.5	765.4	156.09	5.903	
5,400.0	5,365.3	4,696.0	4,693.0	15.1	140.9	-149.45	-348.3	-654.7	986.2	840.2	146.00	6.755	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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: Reference		205-r.5 MWD		Offset		Semi Major Axis		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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	25.2	25.2	0.0	3.0	-85.75	69.6	-935.3	937.9	933.2	4.68	200.401		
100.0	100.0	122.0	122.0	1.2	3.3	-85.76	69.3	-935.6	938.1	932.8	5.32	176.187		
200.0	200.0	219.2	219.2	1.7	3.7	-85.80	68.7	-936.2	938.7	932.5	6.22	150.846		
300.0	300.0	319.3	319.3	2.1	4.3	-85.85	68.0	-937.0	939.5	932.3	7.11	132.090		
400.0	400.0	419.9	419.9	2.4	4.8	-85.89	67.3	-937.7	940.2	932.2	8.00	117.479		
500.0	500.0	522.0	522.0	2.7	5.3	-85.94	66.6	-938.3	940.7	931.9	8.77	107.304		
600.0	600.0	621.8	621.8	3.0	5.8	-85.98	66.0	-938.7	941.1	931.6	9.48	99.239		
700.0	700.0	718.5	718.5	3.2	6.2	-86.03	65.2	-939.4	941.7	931.6	10.12	93.019		
800.0	800.0	812.4	812.4	3.5	6.5	-86.10	64.1	-940.4	942.7	932.1	10.61	88.864		
900.0	900.0	908.7	908.7	3.7	6.8	-86.16	63.2	-942.3	944.5	933.5	11.08	85.274		
1,000.0	1,000.0	1,012.5	1,012.4	3.9	7.2	-86.22	62.5	-944.0	946.2	934.4	11.76	80.460		
1,100.0	1,100.0	1,280.4	1,279.4	4.2	29.5	-40.51	63.4	-928.5	941.9	922.9	18.92	49.780		
1,200.0	1,199.8	1,361.0	1,359.2	4.5	26.9	-40.81	64.9	-917.0	923.7	905.3	18.34	50.362		
1,300.0	1,299.5	1,463.4	1,460.4	4.9	27.0	-41.26	67.1	-901.9	902.6	883.9	18.65	48.401		
1,400.0	1,398.7	1,579.2	1,574.6	5.2	27.1	-41.93	70.6	-883.2	877.6	858.5	19.01	46.152		
1,500.0	1,497.5	1,695.0	1,688.4	5.6	27.2	-42.81	75.2	-861.8	848.0	828.5	19.41	43.691		
1,586.0	1,582.0	1,794.2	1,785.3	5.8	27.3	-43.80	79.7	-841.2	818.6	798.9	19.74	41.470		
1,600.0	1,595.6	1,810.0	1,800.7	5.9	27.3	-43.90	80.4	-837.7	813.6	793.8	19.79	41.119		
1,700.0	1,693.5	1,943.8	1,930.0	6.2	27.4	-44.75	87.8	-804.2	774.4	754.4	20.04	38.651		
1,800.0	1,791.5	2,039.4	2,021.6	6.6	27.5	-45.35	94.0	-777.6	732.8	712.6	20.23	36.219		
1,900.0	1,889.4	2,127.9	2,106.4	6.9	27.5	-45.99	99.5	-752.9	691.3	670.8	20.47	33.778		
2,000.0	1,987.3	2,215.6	2,190.6	7.3	27.6	-46.72	104.9	-728.7	650.1	629.4	20.72	31.371		
2,100.0	2,085.2	2,298.2	2,270.1	7.6	27.7	-47.62	108.6	-706.8	610.0	589.0	21.01	29.039		
2,200.0	2,183.1	2,388.0	2,356.8	8.0	27.8	-48.88	111.3	-683.5	570.7	549.5	21.27	26.827		
2,300.0	2,281.0	2,472.9	2,438.9	8.4	27.8	-50.22	113.8	-662.0	532.4	510.8	21.59	24.663		
2,400.0	2,378.9	2,564.0	2,527.1	8.8	27.9	-51.85	116.7	-639.7	495.1	473.2	21.92	22.590		
2,500.0	2,476.9	2,656.4	2,616.7	9.2	28.0	-53.76	119.7	-617.0	458.1	435.9	22.29	20.558		
2,600.0	2,574.8	2,746.4	2,703.9	9.6	28.1	-55.96	122.3	-594.9	421.8	399.1	22.72	18.561		
2,662.6	2,636.1	2,802.8	2,758.5	9.9	28.2	-57.57	123.7	-581.3	399.6	376.6	23.03	17.353		
2,700.0	2,672.7	2,836.6	2,791.4	10.0	28.2	-58.50	124.4	-573.1	386.6	363.4	23.22	16.648		
2,800.0	2,770.9	2,925.0	2,877.3	10.4	28.3	-61.09	126.2	-552.3	353.7	329.8	23.88	14.808		
2,900.0	2,869.5	3,020.3	2,970.0	10.8	28.4	-64.12	128.5	-530.6	323.1	298.5	24.65	13.107		
3,000.0	2,968.3	3,114.9	3,061.9	11.2	28.5	-67.57	130.5	-508.0	293.5	267.9	25.61	11.461		
3,100.0	3,067.3	3,207.3	3,151.6	11.7	28.7	-71.42	132.1	-486.0	266.1	239.3	26.81	9.927		
3,200.0	3,166.6	3,304.5	3,246.1	12.0	28.8	-75.94	133.9	-463.2	240.9	212.6	28.22	8.534		
3,300.0	3,266.1	3,401.1	3,339.6	12.4	28.9	-81.04	136.4	-439.3	216.5	186.6	29.94	7.231		
3,400.0	3,365.7	3,495.6	3,431.2	12.8	29.1	-86.69	139.1	-415.9	194.3	162.3	31.98	6.075		
3,500.0	3,465.5	3,590.5	3,523.2	13.2	29.2	-93.01	141.8	-393.1	174.9	140.7	34.28	5.103		
3,600.0	3,565.4	3,687.8	3,617.7	13.5	29.4	-100.36	144.6	-369.7	158.2	121.3	36.83	4.294		
3,700.0	3,665.3	3,784.0	3,710.7	13.8	29.5	-108.99	147.2	-345.3	143.7	104.0	39.64	3.625		
3,800.0	3,765.3	3,880.0	3,803.6	14.1	29.7	-118.55	149.5	-321.1	132.9	90.6	42.30	3.140		
3,834.7	3,800.0	3,913.5	3,836.0	14.1	29.8	-167.88	150.3	-312.8	130.0	86.9	43.11	3.015		
3,900.0	3,865.3	3,976.6	3,897.2	14.1	29.9	-174.58	151.8	-297.5	125.9	81.5	44.40	2.837 Normal Operations		
3,990.4	3,955.7	4,063.6	3,981.7	14.2	30.0	176.02	153.5	-277.1	123.8	78.2	45.62	2.714 Normal Operations, CC		
4,000.0	3,965.3	4,072.8	3,990.7	14.2	30.0	175.03	153.6	-274.9	123.8	78.1	45.70	2.709 Normal Operations, ES, SF		
4,100.0	4,065.3	4,169.6	4,085.0	14.3	30.2	165.03	154.8	-253.0	126.7	80.6	46.11	2.747 Normal Operations		
4,200.0	4,165.3	4,267.1	4,179.8	14.3	30.4	155.45	156.1	-230.4	133.5	87.7	45.77	2.916 Normal Operations		
4,300.0	4,265.3	4,362.8	4,272.3	14.4	30.6	146.15	158.2	-205.9	144.4	99.6	44.78	3.224		
4,400.0	4,365.3	4,458.4	4,364.4	14.5	30.8	138.10	160.0	-180.6	159.5	116.0	43.55	3.663		
4,500.0	4,465.3	4,556.2	4,459.1	14.5	31.0	131.78	160.9	-155.7	177.2	134.6	42.56	4.163		
4,600.0	4,565.3	4,654.5	4,554.3	14.6	31.2	126.82	161.7	-131.6	196.0	154.1	41.81	4.686		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,700.0	4,665.3	4,755.8	4,653.0	14.7	31.4	122.96	162.2	-108.7	214.3	172.9	41.42	5.175		
4,800.0	4,765.3	4,854.5	4,749.5	14.7	31.6	120.02	162.7	-8.8	232.3	191.1	41.14	5.646		
4,900.0	4,865.3	4,953.9	4,846.6	14.8	31.7	117.44	163.5	-67.0	250.3	209.4	40.97	6.111		
5,000.0	4,965.3	5,046.1	4,936.5	14.9	31.9	114.94	165.8	-46.5	269.3	228.6	40.74	6.611		
5,100.0	5,065.3	5,141.7	5,029.1	14.9	32.1	112.27	169.5	-23.3	290.3	249.7	40.58	7.153		
5,200.0	5,165.3	5,241.4	5,125.7	15.0	32.4	109.76	174.0	1.0	311.6	271.0	40.57	7.681		
5,300.0	5,265.3	5,343.0	5,224.4	15.1	32.6	107.55	178.9	24.5	332.1	291.4	40.67	8.166		
5,400.0	5,365.3	5,431.0	5,309.9	15.1	32.8	105.80	183.5	45.0	353.1	312.4	40.69	8.677		
5,500.0	5,465.3	5,526.0	5,401.7	15.2	33.0	104.03	188.3	69.1	376.5	335.6	40.88	9.210		
5,600.0	5,565.3	5,616.4	5,488.6	15.3	33.2	102.52	192.8	93.6	401.8	360.8	41.07	9.783		
5,700.0	5,665.3	5,720.2	5,588.6	15.3	33.5	101.01	197.9	120.9	426.7	385.2	41.48	10.286		
5,800.0	5,765.3	5,826.0	5,691.1	15.4	33.8	99.71	203.1	146.4	449.6	407.6	41.94	10.719		
5,900.0	5,865.3	5,917.1	5,779.4	15.5	34.0	98.68	207.7	168.2	472.6	430.3	42.29	11.176		
6,000.0	5,965.3	6,008.9	5,868.2	15.5	34.2	97.74	212.2	191.4	496.9	454.2	42.67	11.645		
6,100.0	6,065.3	6,107.8	5,963.7	15.6	34.5	96.75	217.6	216.4	521.4	478.3	43.14	12.085		
6,200.0	6,165.3	6,200.1	6,052.9	15.7	34.8	96.03	221.5	239.9	546.3	502.7	43.59	12.532		
6,300.0	6,265.3	6,294.6	6,144.1	15.7	35.0	95.42	224.8	264.5	571.9	527.8	44.10	12.970		
6,400.0	6,365.3	6,393.8	6,239.7	15.8	35.3	94.79	228.8	290.3	597.5	552.8	44.65	13.380		
6,500.0	6,465.3	6,490.6	6,333.2	15.9	35.6	94.16	233.3	315.1	622.8	577.6	45.19	13.781		
6,600.0	6,565.3	6,586.4	6,425.7	16.0	35.9	93.73	236.2	339.9	648.4	602.7	45.75	14.173		
6,700.0	6,665.3	6,690.0	6,526.0	16.0	36.2	93.34	239.0	366.0	673.4	627.0	46.38	14.517		
6,800.0	6,765.3	6,794.5	6,627.2	16.1	36.5	92.96	242.0	391.5	697.6	650.6	47.02	14.836		
6,900.0	6,865.3	6,889.9	6,720.0	16.2	36.7	92.62	245.1	413.7	720.7	673.1	47.59	15.145		
7,000.0	6,965.3	6,975.1	6,802.5	16.2	37.0	92.37	247.2	434.9	745.5	697.4	48.09	15.502		
7,100.0	7,065.3	7,079.9	6,903.8	16.3	37.3	92.08	249.9	461.5	770.8	722.0	48.76	15.810		
7,200.0	7,165.3	7,174.7	6,995.9	16.4	37.5	91.83	252.4	484.1	794.5	745.2	49.35	16.099		
7,300.0	7,265.3	7,262.0	7,080.2	16.4	37.8	91.65	254.2	506.5	820.1	770.3	49.89	16.438		
7,400.0	7,365.3	7,354.3	7,169.4	16.5	38.1	91.46	256.2	530.2	845.7	795.2	50.48	16.753		
7,500.0	7,465.3	7,453.8	7,265.1	16.6	38.4	91.25	258.6	557.0	872.7	821.5	51.14	17.063		
7,600.0	7,565.3	7,569.3	7,377.2	16.7	38.8	91.02	261.6	585.1	896.9	844.9	51.93	17.270		
7,700.0	7,665.3	7,660.6	7,465.8	16.7	39.1	90.84	263.9	607.0	920.8	868.3	52.53	17.530		
7,800.0	7,765.3	7,747.6	7,549.8	16.8	39.3	90.67	266.2	629.4	946.4	893.3	53.08	17.831		
7,900.0	7,865.3	7,883.9	7,682.1	16.9	39.7	90.46	269.4	661.9	970.4	916.4	53.98	17.977		
8,000.0	7,965.3	7,958.6	7,754.7	16.9	40.0	90.34	271.3	678.9	993.2	938.7	54.46	18.236		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 402H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 205-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	32.7	32.7	0.0	3.0	-87.75	36.7	-935.0	935.7	931.0	4.69	199.604	
100.0	100.0	132.0	132.0	1.2	3.3	-87.75	36.7	-935.1	935.8	930.4	5.34	175.382	
200.0	200.0	229.8	229.8	1.7	3.7	-87.75	36.7	-935.2	935.9	929.7	6.20	151.062	
300.0	300.0	323.9	323.9	2.1	4.2	-87.74	37.0	-935.8	936.6	929.5	7.06	132.582	
400.0	400.0	418.2	418.2	2.4	4.8	-87.70	37.6	-937.0	937.9	930.0	7.93	118.197	
500.0	500.0	513.5	513.5	2.7	5.2	-87.68	38.1	-938.7	939.7	931.0	8.69	108.178	
600.0	600.0	611.6	611.5	3.0	5.7	-87.67	38.3	-941.0	942.0	932.6	9.43	99.850	
700.0	700.0	716.8	716.7	3.2	6.1	-87.69	38.1	-943.1	944.0	933.9	10.15	92.963	
800.0	800.0	820.4	820.3	3.5	6.4	-87.75	37.1	-944.7	945.5	934.8	10.69	88.458	
900.0	900.0	946.9	946.8	3.7	6.9	-87.80	36.3	-945.2	946.0	934.8	11.18	84.578	
1,000.0	1,000.0	1,078.5	1,078.3	3.9	7.2	-87.66	38.4	-941.0	942.9	931.4	11.48	82.127	
1,100.0	1,100.0	1,246.4	1,245.5	4.2	7.3	-41.70	43.2	-926.5	933.0	921.1	11.88	78.503	
1,200.0	1,199.8	1,355.6	1,353.7	4.5	7.4	-41.89	46.8	-912.4	916.3	904.2	12.16	75.379	
1,300.0	1,299.5	1,445.0	1,442.3	4.9	7.5	-42.28	49.7	-900.5	896.8	884.4	12.46	71.994	
1,400.0	1,398.7	1,539.0	1,535.5	5.2	7.6	-42.80	53.5	-888.9	875.7	862.9	12.79	68.487	
1,500.0	1,497.5	1,629.6	1,625.4	5.6	7.8	-43.59	56.1	-878.6	853.1	839.9	13.14	64.934	
1,586.0	1,582.0	1,713.4	1,708.7	5.8	7.9	-44.63	56.5	-869.2	831.8	818.3	13.43	61.928	
1,600.0	1,595.6	1,726.9	1,722.2	5.9	7.9	-44.76	56.6	-867.7	828.2	814.7	13.47	61.488	
1,700.0	1,693.5	1,829.0	1,823.5	6.2	8.0	-45.74	57.8	-855.7	802.1	788.3	13.87	57.824	
1,800.0	1,791.5	1,927.9	1,921.6	6.6	8.1	-46.62	60.8	-843.6	775.7	761.4	14.27	54.367	
1,900.0	1,889.4	2,025.0	2,017.9	6.9	8.2	-47.45	65.0	-831.4	749.2	734.5	14.69	51.010	
2,000.0	1,987.3	2,121.0	2,113.0	7.3	8.4	-48.32	69.3	-819.3	722.7	707.6	15.13	47.777	
2,100.0	2,085.2	2,217.4	2,208.5	7.6	8.6	-49.24	73.8	-807.1	696.3	680.7	15.58	44.682	
2,200.0	2,183.1	2,313.3	2,303.5	8.0	8.8	-50.23	78.3	-795.0	670.2	654.1	16.06	41.738	
2,300.0	2,281.0	2,414.2	2,403.4	8.4	9.1	-51.45	82.0	-781.6	643.7	627.2	16.54	38.911	
2,400.0	2,378.9	2,511.9	2,500.1	8.8	9.4	-52.79	85.1	-768.1	617.0	600.0	17.04	36.211	
2,500.0	2,476.9	2,610.0	2,597.2	9.2	9.7	-54.25	88.4	-754.2	590.3	572.8	17.54	33.649	
2,600.0	2,574.8	2,704.0	2,690.1	9.6	10.0	-55.78	91.5	-740.4	563.6	545.5	18.05	31.219	
2,662.6	2,636.1	2,757.5	2,743.2	9.9	10.1	-56.77	92.7	-732.9	547.6	529.3	18.35	29.847	
2,700.0	2,672.7	2,789.8	2,775.2	10.0	10.2	-57.33	93.1	-728.7	538.5	520.0	18.51	29.092	
2,800.0	2,770.9	2,877.2	2,861.8	10.4	10.5	-58.84	94.1	-718.1	516.4	497.4	18.99	27.187	
2,900.0	2,869.5	2,966.3	2,950.5	10.8	10.8	-60.32	95.3	-708.9	497.2	477.8	19.46	25.545	
3,000.0	2,968.3	3,061.9	3,045.7	11.2	11.1	-61.83	96.8	-699.9	480.2	460.3	19.92	24.102	
3,100.0	3,067.3	3,158.9	3,142.2	11.7	11.4	-63.31	98.1	-691.2	464.9	444.5	20.38	22.814	
3,200.0	3,166.6	3,264.8	3,247.6	12.0	11.7	-64.74	100.6	-680.9	449.7	428.8	20.84	21.576	
3,300.0	3,266.1	3,365.9	3,348.1	12.4	12.1	-65.92	103.9	-670.2	434.3	413.0	21.31	20.378	
3,400.0	3,365.7	3,463.9	3,445.4	12.8	12.4	-66.97	107.0	-659.6	419.7	397.9	21.78	19.266	
3,500.0	3,465.5	3,564.3	3,545.3	13.2	12.7	-67.88	110.3	-648.8	406.0	383.7	22.25	18.242	
3,600.0	3,565.4	3,666.6	3,646.8	13.5	13.1	-68.65	113.9	-636.9	392.0	369.3	22.73	17.243	
3,700.0	3,665.3	3,763.7	3,743.2	13.8	13.4	-69.21	117.4	-625.4	378.6	355.4	23.22	16.306	
3,800.0	3,765.3	3,864.0	3,842.8	14.1	13.8	-69.57	120.9	-614.1	366.4	342.7	23.71	15.454	
3,834.7	3,800.0	3,900.0	3,878.5	14.1	13.9	-115.58	121.9	-609.7	362.1	338.2	23.86	15.176	
3,900.0	3,865.3	3,967.2	3,945.1	14.1	14.2	-115.93	123.7	-600.9	353.7	329.5	24.15	14.646	
4,000.0	3,965.3	4,066.7	4,043.6	14.2	14.6	-116.64	125.8	-587.1	340.3	315.7	24.61	13.829	
4,100.0	4,065.3	4,163.3	4,139.2	14.3	14.9	-117.46	127.3	-573.8	327.3	302.3	25.06	13.063	
4,200.0	4,165.3	4,261.3	4,236.4	14.3	15.3	-118.39	128.3	-560.8	315.1	289.6	25.49	12.359	
4,300.0	4,265.3	4,358.7	4,332.9	14.4	15.7	-119.52	128.5	-547.8	303.3	277.4	25.91	11.708	
4,400.0	4,365.3	4,460.0	4,433.3	14.5	16.0	-120.74	129.0	-534.6	291.7	265.4	26.32	11.084	
4,500.0	4,465.3	4,559.4	4,531.9	14.5	16.4	-121.68	131.2	-522.0	279.7	252.9	26.76	10.452	
4,600.0	4,565.3	4,657.0	4,628.8	14.6	16.8	-122.52	133.7	-510.4	268.3	241.1	27.21	9.861	
4,700.0	4,665.3	4,760.8	4,731.7	14.7	17.2	-123.46	136.9	-497.7	256.4	228.7	27.68	9.261	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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		
4,800.0	4,765.3	4,861.8	4,831.7	14.7	17.6	-124.51	140.7	-483.9	242.9	214.8	28.14	8.633		
4,900.0	4,865.3	4,961.1	4,929.9	14.8	18.0	-125.63	144.8	-470.1	229.1	200.5	28.59	8.016		
5,000.0	4,965.3	5,060.4	5,028.2	14.9	18.4	-126.78	149.4	-456.4	215.3	186.2	29.04	7.413		
5,100.0	5,065.3	5,158.3	5,125.1	14.9	18.8	-128.03	153.9	-443.1	201.7	172.2	29.47	6.843		
5,200.0	5,165.3	5,256.2	5,222.0	15.0	19.2	-129.78	157.2	-429.6	188.8	158.9	29.85	6.325		
5,300.0	5,265.3	5,355.5	5,320.3	15.1	19.6	-131.91	160.2	-415.8	176.3	146.1	30.18	5.841		
5,400.0	5,365.3	5,454.5	5,418.4	15.1	20.0	-134.24	163.5	-402.2	163.9	133.4	30.48	5.376		
5,500.0	5,465.3	5,552.3	5,515.2	15.2	20.4	-136.57	167.3	-389.5	152.0	121.3	30.77	4.942		
5,600.0	5,565.3	5,649.1	5,611.4	15.3	20.8	-139.03	170.2	-378.4	142.0	111.0	30.99	4.583		
5,700.0	5,665.3	5,748.1	5,709.8	15.3	21.2	-141.65	172.9	-368.0	133.3	102.1	31.18	4.274		
5,800.0	5,765.3	5,847.8	5,808.9	15.4	21.5	-144.41	176.0	-358.0	124.7	93.3	31.35	3.978		
5,900.0	5,865.3	5,947.4	5,908.0	15.5	21.9	-147.39	179.3	-348.1	116.3	84.9	31.47	3.696		
6,000.0	5,965.3	6,047.4	6,007.4	15.5	22.3	-150.80	183.0	-338.2	108.0	76.5	31.54	3.424		
6,100.0	6,065.3	6,147.0	6,106.2	15.6	22.7	-155.70	186.3	-326.6	99.8	68.4	31.44	3.175		
6,200.0	6,165.3	6,246.2	6,204.7	15.7	23.1	-161.68	189.5	-314.6	92.4	61.2	31.22	2.959 Normal Operations		
6,300.0	6,265.3	6,345.6	6,303.3	15.7	23.5	-168.39	192.8	-302.9	86.1	55.1	31.00	2.776 Normal Operations		
6,400.0	6,365.3	6,444.9	6,401.9	15.8	23.9	-175.66	196.4	-291.8	80.9	50.1	30.86	2.622 Normal Operations		
6,500.0	6,465.3	6,544.4	6,500.8	15.9	24.3	-176.62	200.1	-281.1	77.1	46.2	30.91	2.495 Caution - Monitor Closely		
6,600.0	6,565.3	6,644.0	6,599.7	16.0	24.7	-168.47	204.0	-270.8	74.6	43.3	31.26	2.385 Caution - Monitor Closely		
6,670.9	6,636.2	6,713.9	6,669.2	16.0	25.0	-162.49	206.6	-263.4	73.8	42.1	31.71	2.328 Caution - Monitor Closely, CC		
6,700.0	6,665.3	6,742.5	6,697.6	16.0	25.1	-159.86	207.6	-260.2	74.0	42.0	31.97	2.314 Caution - Monitor Closely, ES		
6,800.0	6,765.3	6,841.4	6,795.8	16.1	25.5	-150.78	210.6	-248.5	76.1	43.0	33.13	2.297 Caution - Monitor Closely, SF		
6,900.0	6,865.3	6,941.1	6,894.8	16.2	25.9	-142.68	213.5	-237.3	79.9	45.4	34.51	2.315 Caution - Monitor Closely		
7,000.0	6,965.3	7,039.0	6,992.1	16.2	26.3	-135.79	215.7	-226.0	85.8	49.9	35.90	2.390 Caution - Monitor Closely		
7,100.0	7,065.3	7,138.4	7,090.8	16.3	26.7	-130.01	217.0	-214.2	93.6	56.3	37.24	2.512 Normal Operations		
7,200.0	7,165.3	7,238.4	7,190.1	16.4	27.1	-125.27	218.5	-202.9	101.7	63.2	38.45	2.644 Normal Operations		
7,300.0	7,265.3	7,338.8	7,290.0	16.4	27.5	-121.48	220.0	-192.5	109.5	70.0	39.51	2.772 Normal Operations		
7,400.0	7,365.3	7,438.0	7,388.7	16.5	27.8	-118.32	221.6	-182.9	117.1	76.7	40.46	2.895 Normal Operations		
7,500.0	7,465.3	7,535.6	7,485.6	16.6	28.2	-115.24	223.3	-171.8	126.5	85.1	41.41	3.056		
7,600.0	7,565.3	7,634.8	7,584.1	16.7	28.6	-112.58	224.8	-160.1	136.7	94.4	42.31	3.231		
7,700.0	7,665.3	7,734.4	7,682.9	16.7	29.0	-110.03	226.8	-148.1	147.3	104.1	43.19	3.409		
7,800.0	7,765.3	7,834.8	7,782.6	16.8	29.4	-107.83	229.0	-136.5	157.5	113.4	44.02	3.577		
7,900.0	7,865.3	7,932.3	7,879.5	16.9	29.8	-105.96	231.2	-125.4	167.7	122.9	44.78	3.745		
8,000.0	7,965.3	8,030.5	7,976.8	16.9	30.2	-104.10	233.6	-112.7	179.6	134.1	45.55	3.944		
8,100.0	8,065.3	8,131.1	8,076.6	17.0	30.7	-102.40	236.2	-100.0	191.3	145.0	46.31	4.132		
8,200.0	8,165.3	8,231.9	8,176.6	17.1	31.1	-100.91	238.9	-88.1	202.4	155.3	47.03	4.303		
8,300.0	8,265.3	8,332.7	8,276.8	17.1	31.5	-99.67	241.4	-76.9	212.8	165.1	47.71	4.460		
8,400.0	8,365.3	8,430.4	8,373.9	17.2	31.9	-98.62	243.7	-66.3	223.2	174.9	48.35	4.616		
8,500.0	8,465.3	8,530.0	8,472.8	17.3	32.3	-97.47	246.7	-54.8	234.2	185.2	49.02	4.778		
8,600.0	8,565.3	8,632.2	8,574.3	17.4	32.7	-96.26	250.4	-43.7	244.6	194.9	49.69	4.923		
8,700.0	8,665.3	8,729.6	8,671.1	17.4	33.1	-95.18	254.1	-33.2	254.9	204.6	50.32	5.066		
8,800.0	8,765.3	8,834.0	8,774.9	17.5	33.5	-94.08	258.3	-22.8	264.6	213.6	50.96	5.191		
8,900.0	8,865.3	8,936.1	8,876.5	17.6	33.9	-93.36	261.1	-13.9	273.1	221.6	51.54	5.299		
9,000.0	8,965.3	9,039.1	8,979.2	17.7	34.3	-92.78	263.4	-6.4	280.2	228.1	52.09	5.379		
9,100.0	9,065.3	9,137.8	9,077.6	17.7	34.6	-92.31	265.4	0.7	287.3	234.7	52.63	5.458		
9,200.0	9,165.3	9,238.4	9,177.9	17.8	35.0	-91.96	267.0	7.9	294.5	241.3	53.16	5.539		
9,300.0	9,265.3	9,336.8	9,276.1	17.9	35.4	-91.60	268.6	14.7	301.3	247.6	53.70	5.611		
9,400.0	9,365.3	9,432.9	9,371.9	17.9	35.7	-91.20	270.5	22.5	309.4	255.1	54.24	5.704		
9,500.0	9,465.3	9,534.3	9,472.9	18.0	36.1	-90.80	272.6	31.2	317.9	263.1	54.80	5.801		
9,600.0	9,565.3	9,645.1	9,583.5	18.1	36.5	-90.60	273.6	38.5	324.5	269.2	55.31	5.867		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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		
9,700.0	9,665.3	9,760.6	9,699.0	18.2	36.7	90.65	273.3	41.1	326.8	271.3	55.47	5.891		
9,725.1	9,690.4	9,785.1	9,723.4	18.2	36.7	90.68	273.1	41.1	326.7	271.2	55.49	5.888		
9,800.0	9,765.3	9,858.5	9,796.8	18.2	36.7	90.81	272.4	41.2	326.9	271.3	55.57	5.883		
9,900.0	9,865.3	9,958.9	9,897.2	18.3	36.7	91.07	270.9	41.6	327.3	271.6	55.68	5.878		
10,000.0	9,965.3	10,054.4	9,992.5	18.4	36.7	91.95	265.8	42.2	328.1	272.3	55.74	5.885		
10,100.0	10,065.3	10,150.9	10,087.1	18.4	36.6	95.16	247.3	43.4	330.6	275.1	55.54	5.953		
10,200.0	10,165.3	10,237.1	10,169.4	18.5	36.6	99.48	221.8	44.8	336.3	281.1	55.17	6.095		
10,300.0	10,265.3	10,319.8	10,246.0	18.6	36.6	104.49	190.8	47.7	348.3	293.7	54.55	6.385		
10,400.0	10,365.3	10,393.7	10,312.1	18.7	36.5	109.49	157.9	50.8	367.2	313.5	53.68	6.840		
10,500.0	10,465.3	10,461.0	10,368.6	18.7	36.5	114.60	121.4	54.1	395.6	343.0	52.53	7.530		
10,600.0	10,565.3	10,525.0	10,418.9	18.8	36.5	119.67	82.1	56.4	432.6	381.4	51.24	8.443		
10,700.0	10,665.3	10,576.5	10,457.1	18.9	36.6	123.69	47.6	58.4	478.7	428.6	50.08	9.558		
10,800.0	10,765.3	10,631.1	10,495.1	19.0	36.6	127.83	8.4	60.2	532.7	483.6	49.04	10.861		
10,900.0	10,865.3	10,680.9	10,527.8	19.0	36.6	131.50	-29.2	60.4	592.3	544.1	48.22	12.284		
11,000.0	10,965.3	10,721.1	10,552.7	19.1	36.7	134.28	-60.6	60.5	657.6	609.9	47.67	13.794		
11,100.0	11,065.3	10,751.0	10,570.6	19.2	36.7	136.22	-84.6	60.9	727.6	680.2	47.37	15.358		
11,200.0	11,165.3	10,782.8	10,588.7	19.3	36.8	138.15	-110.8	61.6	801.6	754.4	47.22	16.978		
11,300.0	11,265.3	10,798.0	10,596.8	19.3	36.8	139.04	-123.6	62.1	879.5	832.2	47.24	18.617		
11,400.0	11,365.3	10,828.1	10,612.1	19.4	36.8	140.73	-149.5	63.0	960.0	912.7	47.28	20.304		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2532 PROJECT - ZIA HILLS 25E FEDERAL COM 403H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 205-r.5 MWD+IFR1+MS, 4863-r.5 MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	24.5	24.5	0.0	3.0	-89.78	3.6	-934.8	934.8	930.1	4.68	199.776		
100.0	100.0	118.6	118.6	1.2	3.2	-89.76	3.9	-935.2	935.3	930.0	5.31	176.194		
200.0	200.0	213.2	213.2	1.7	3.7	-89.71	4.8	-936.3	936.4	930.2	6.19	151.274		
300.0	300.0	311.9	311.8	2.1	4.2	-89.63	6.0	-937.7	937.8	930.7	7.07	132.565		
400.0	400.0	410.7	410.7	2.4	4.8	-89.54	7.5	-939.2	939.4	931.4	7.98	117.680		
500.0	500.0	510.6	510.5	2.7	5.3	-89.46	8.9	-940.8	941.0	932.3	8.75	107.574		
600.0	600.0	610.3	610.2	3.0	5.8	-89.40	9.9	-942.5	942.7	933.2	9.49	99.284		
700.0	700.0	709.7	709.6	3.2	6.2	-89.34	10.8	-944.2	944.4	934.2	10.18	92.798		
800.0	800.0	807.9	807.8	3.5	6.6	-89.30	11.6	-945.9	946.2	935.4	10.74	88.128		
900.0	900.0	905.3	905.1	3.7	6.7	-89.26	12.2	-948.0	948.3	937.2	11.10	85.423		
1,000.0	1,000.0	1,006.2	1,006.0	3.9	6.9	-89.21	13.1	-950.2	950.5	939.0	11.47	82.850		
1,100.0	1,100.0	1,108.3	1,108.1	4.2	7.1	-43.35	13.8	-952.1	951.1	939.3	11.87	80.098		
1,200.0	1,199.8	1,221.4	1,221.2	4.5	7.4	-43.62	14.1	-953.9	948.9	936.5	12.42	76.380		
1,300.0	1,299.5	1,329.4	1,329.1	4.9	7.5	-44.28	11.2	-953.7	942.4	929.6	12.81	73.563		
1,400.0	1,398.7	1,424.6	1,424.3	5.2	7.6	-45.08	8.3	-953.4	933.5	920.4	13.09	71.304		
1,500.0	1,497.5	1,521.6	1,521.2	5.6	7.7	-46.08	5.6	-953.5	922.6	909.2	13.39	68.901		
1,586.0	1,582.0	1,613.5	1,613.1	5.8	7.7	-47.16	3.5	-953.4	911.3	897.7	13.61	66.957		
1,600.0	1,595.6	1,628.7	1,628.3	5.9	7.7	-47.32	3.4	-953.3	909.3	895.7	13.63	66.689		
1,700.0	1,693.5	1,726.0	1,725.6	6.2	7.8	-48.29	3.0	-952.6	894.8	880.9	13.89	64.425		
1,800.0	1,791.5	1,825.2	1,824.8	6.6	7.8	-49.29	2.8	-951.8	880.5	866.3	14.11	62.409		
1,900.0	1,889.4	1,921.5	1,921.1	6.9	7.8	-50.28	2.9	-951.1	866.4	852.1	14.34	60.407		
2,000.0	1,987.3	2,018.9	2,018.5	7.3	7.9	-51.29	3.2	-950.5	852.8	838.2	14.59	58.444		
2,100.0	2,085.2	2,113.2	2,112.8	7.6	7.9	-52.32	3.2	-950.1	839.6	824.8	14.86	56.517		
2,200.0	2,183.1	2,208.0	2,207.6	8.0	8.0	-53.39	3.1	-950.1	827.2	812.1	15.16	54.578		
2,300.0	2,281.0	2,305.6	2,305.2	8.4	8.1	-54.54	2.8	-950.3	815.3	799.8	15.47	52.696		
2,400.0	2,378.9	2,404.6	2,404.2	8.8	8.2	-55.72	2.7	-950.4	803.7	787.9	15.78	50.934		
2,500.0	2,476.9	2,502.1	2,501.7	9.2	8.3	-56.91	2.8	-950.5	792.4	776.3	16.09	49.259		
2,600.0	2,574.8	2,601.5	2,601.1	9.6	8.4	-58.16	2.7	-950.6	781.4	765.0	16.38	47.712		
2,662.6	2,636.1	2,664.8	2,664.5	9.9	8.4	-58.97	2.7	-950.5	774.5	758.0	16.51	46.905		
2,700.0	2,672.7	2,704.5	2,704.1	10.0	8.4	-59.45	2.7	-950.3	770.5	753.9	16.57	46.485		
2,800.0	2,770.9	2,809.7	2,809.3	10.4	8.5	-60.67	2.8	-949.0	759.7	742.9	16.79	45.254		
2,900.0	2,869.5	2,911.2	2,910.8	10.8	8.5	-61.79	2.6	-946.9	749.5	732.5	17.00	44.093		
3,000.0	2,968.3	3,010.5	3,010.1	11.2	8.6	-62.81	2.6	-944.7	740.1	722.9	17.21	43.004		
3,100.0	3,067.3	3,110.1	3,109.6	11.7	8.6	-63.75	2.5	-942.4	731.8	714.4	17.43	41.994		
3,200.0	3,166.6	3,214.9	3,214.4	12.0	8.7	-64.64	2.5	-939.6	724.0	706.4	17.64	41.055		
3,300.0	3,266.1	3,304.4	3,303.8	12.4	8.7	-65.33	2.3	-937.0	717.1	699.2	17.87	40.139		
3,400.0	3,365.7	3,396.9	3,396.3	12.8	8.8	-65.94	1.6	-935.8	712.6	694.6	18.09	39.391		
3,500.0	3,465.5	3,496.6	3,496.1	13.2	8.9	-66.44	1.5	-935.1	709.4	691.0	18.31	38.734		
3,600.0	3,565.4	3,597.2	3,596.7	13.5	9.0	-66.78	1.8	-934.5	706.7	688.1	18.54	38.123		
3,700.0	3,665.3	3,695.2	3,694.7	13.8	9.1	-66.96	2.4	-934.0	704.8	686.0	18.76	37.561		
3,800.0	3,765.3	3,790.8	3,790.3	14.1	9.1	-67.03	2.9	-934.0	704.0	685.0	18.98	37.095		
3,806.5	3,771.8	3,797.0	3,796.4	14.1	9.1	-67.03	2.9	-934.1	704.0	685.0	18.99	37.078		
3,834.7	3,800.0	3,825.0	3,824.4	14.1	9.1	-112.90	3.0	-934.2	704.0	685.0	19.02	37.009		
3,900.0	3,865.3	3,890.8	3,890.2	14.1	9.2	-112.88	3.2	-934.4	704.2	685.1	19.11	36.853		
4,000.0	3,965.3	3,996.3	3,995.7	14.2	9.3	-112.90	3.0	-934.1	704.0	684.7	19.28	36.519		
4,100.0	4,065.3	4,098.4	4,097.9	14.3	9.4	-112.96	2.7	-933.1	703.2	683.7	19.45	36.158		
4,200.0	4,165.3	4,201.9	4,201.3	14.3	9.5	-113.05	2.1	-931.6	702.0	682.4	19.62	35.782		
4,300.0	4,265.3	4,306.6	4,306.0	14.4	9.6	-113.22	1.0	-929.0	700.2	680.4	19.79	35.386		
4,400.0	4,365.3	4,402.5	4,401.8	14.5	9.7	-113.46	-0.9	-926.0	698.1	678.2	19.95	34.989		
4,464.3	4,429.6	4,456.3	4,455.6	14.5	9.7	-113.57	-2.0	-925.1	697.6	677.6	20.07	34.768		
4,500.0	4,465.3	4,488.6	4,487.9	14.5	9.7	-113.62	-2.5	-925.0	697.8	677.6	20.12	34.675		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,600.0	4,565.3	4,584.3	4,583.6	14.6	9.8	-113.73	-4.1	-925.2	698.7	678.4	20.26	34.489		
4,700.0	4,665.3	4,685.7	4,685.0	14.7	9.8	-113.85	-5.9	-925.5	699.6	679.2	20.37	34.343		
4,800.0	4,765.3	4,785.0	4,784.2	14.7	9.9	-113.97	-7.6	-925.8	700.6	680.1	20.53	34.130		
4,900.0	4,865.3	4,884.6	4,883.8	14.8	10.0	-114.06	-9.0	-926.3	701.6	681.0	20.68	33.928		
5,000.0	4,965.3	4,987.7	4,986.9	14.9	10.1	-114.12	-10.2	-926.9	702.6	681.7	20.87	33.662		
5,100.0	5,065.3	5,106.7	5,105.9	14.9	10.2	-113.94	-7.9	-927.4	702.2	681.1	21.13	33.241		
5,200.0	5,165.3	5,219.6	5,218.6	15.0	10.3	-113.51	-1.6	-926.0	698.9	677.6	21.31	32.792		
5,300.0	5,265.3	5,316.7	5,315.5	15.1	10.4	-113.06	5.0	-924.8	695.1	673.6	21.50	32.322		
5,400.0	5,365.3	5,413.7	5,412.2	15.1	10.5	-112.52	12.2	-924.5	691.8	670.1	21.71	31.872		
5,500.0	5,465.3	5,510.3	5,508.5	15.2	10.5	-111.94	19.6	-924.6	689.1	667.2	21.91	31.444		
5,600.0	5,565.3	5,609.5	5,607.5	15.3	10.6	-111.36	26.9	-925.0	686.7	664.6	22.12	31.043		
5,700.0	5,665.3	5,709.8	5,707.5	15.3	10.7	-110.79	34.2	-925.2	684.3	662.0	22.33	30.651		
5,800.0	5,765.3	5,808.0	5,805.4	15.4	10.8	-110.22	41.3	-925.6	682.2	659.6	22.54	30.271		
5,900.0	5,865.3	5,907.9	5,905.1	15.5	10.9	-109.63	48.5	-926.2	680.2	657.4	22.75	29.904		
6,000.0	5,965.3	6,008.3	6,005.2	15.5	11.1	-109.03	55.9	-926.6	678.2	655.2	22.96	29.539		
6,100.0	6,065.3	6,108.5	6,105.1	15.6	11.2	-108.40	63.6	-927.1	676.1	652.9	23.17	29.178		
6,200.0	6,165.3	6,207.6	6,203.9	15.7	11.4	-107.77	71.3	-927.4	674.1	650.7	23.39	28.819		
6,300.0	6,265.3	6,302.4	6,298.5	15.7	11.6	-107.27	77.3	-928.0	672.7	649.1	23.60	28.507		
6,400.0	6,365.3	6,401.5	6,397.5	15.8	11.8	-106.80	82.9	-928.6	671.7	647.9	23.80	28.224		
6,500.0	6,465.3	6,499.9	6,495.7	15.9	12.0	-106.32	88.5	-929.5	670.9	646.9	24.00	27.957		
6,600.0	6,565.3	6,599.7	6,595.3	16.0	12.2	-105.82	94.3	-930.5	670.3	646.1	24.20	27.700		
6,700.0	6,665.3	6,700.7	6,696.2	16.0	12.4	-105.35	99.7	-931.4	669.7	645.3	24.40	27.449		
6,800.0	6,765.3	6,802.4	6,797.7	16.1	12.6	-104.88	105.2	-932.0	668.8	644.2	24.59	27.194		
6,900.0	6,865.3	6,901.3	6,896.4	16.2	12.8	-104.43	110.6	-932.4	667.9	643.1	24.79	26.938		
7,000.0	6,965.3	7,000.2	6,995.2	16.2	13.1	-103.99	115.7	-933.1	667.3	642.3	24.99	26.701		
7,100.0	7,065.3	7,100.0	7,094.9	16.3	13.3	-103.56	120.7	-933.8	666.7	641.5	25.18	26.473		
7,200.0	7,165.3	7,200.9	7,195.6	16.4	13.5	-103.15	125.4	-934.3	666.1	640.8	25.38	26.251		
7,300.0	7,265.3	7,306.1	7,300.7	16.4	13.8	-102.70	130.7	-934.5	665.2	639.6	25.57	26.013		
7,400.0	7,365.3	7,410.8	7,405.2	16.5	14.0	-102.16	137.3	-934.0	663.4	637.6	25.78	25.736		
7,500.0	7,465.3	7,509.1	7,503.3	16.6	14.3	-101.67	143.3	-933.3	661.4	635.5	25.98	25.456		
7,600.0	7,565.3	7,608.5	7,602.6	16.7	14.5	-101.22	148.7	-932.6	659.6	633.4	26.19	25.191		
7,700.0	7,665.3	7,702.8	7,696.8	16.7	14.8	-100.74	154.3	-932.5	658.4	632.0	26.39	24.949		
7,800.0	7,765.3	7,804.5	7,798.2	16.8	15.0	-100.15	161.1	-932.8	657.4	630.8	26.60	24.716		
7,900.0	7,865.3	7,903.3	7,896.8	16.9	15.3	-99.59	167.6	-933.0	656.5	629.7	26.81	24.489		
8,000.0	7,965.3	8,002.7	7,996.0	16.9	15.6	-99.08	173.5	-933.1	655.7	628.7	27.01	24.274		
8,100.0	8,065.3	8,101.8	8,094.9	17.0	15.9	-98.60	179.1	-933.4	655.1	627.9	27.21	24.075		
8,200.0	8,165.3	8,202.2	8,195.2	17.1	16.1	-98.15	184.3	-933.6	654.5	627.1	27.41	23.880		
8,300.0	8,265.3	8,302.6	8,295.4	17.1	16.4	-97.61	190.4	-933.8	653.9	626.3	27.61	23.683		
8,400.0	8,365.3	8,401.3	8,393.9	17.2	16.7	-97.09	196.4	-934.0	653.3	625.5	27.82	23.486		
8,500.0	8,465.3	8,503.1	8,495.6	17.3	17.0	-96.58	202.2	-934.3	653.0	625.0	28.02	23.305		
8,600.0	8,565.3	8,607.0	8,599.2	17.4	17.3	-96.01	208.8	-934.0	652.0	623.8	28.23	23.098		
8,700.0	8,665.3	8,705.2	8,697.3	17.4	17.6	-95.51	214.5	-933.5	650.8	622.4	28.43	22.892		
8,800.0	8,765.3	8,803.8	8,795.7	17.5	17.9	-95.01	220.2	-933.2	650.1	621.4	28.63	22.702		
8,896.9	8,862.2	8,896.4	8,888.2	17.6	18.1	-94.47	226.3	-933.4	649.7	620.9	28.84	22.529		
8,900.0	8,865.3	8,899.4	8,891.1	17.6	18.1	-94.46	226.5	-933.4	649.7	620.9	28.84	22.524		
9,000.0	8,965.3	8,997.1	8,988.6	17.7	18.4	-93.99	231.8	-934.0	650.0	620.9	29.05	22.377		
9,100.0	9,065.3	9,096.1	9,087.6	17.7	18.7	-93.51	237.2	-934.9	650.5	621.2	29.25	22.240		
9,200.0	9,165.3	9,193.9	9,185.2	17.8	19.0	-92.95	243.5	-936.0	651.2	621.7	29.46	22.105		
9,300.0	9,265.3	9,295.9	9,286.9	17.9	19.3	-92.38	250.0	-937.1	652.0	622.4	29.67	21.974		
9,400.0	9,365.3	9,397.1	9,388.0	17.9	19.6	-91.93	255.0	-937.9	652.6	622.7	29.87	21.846		

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,500.0	9,465.3	9,494.8	9,485.7	18.0	19.9	-91.62	258.5	-938.7	653.3	623.3	30.06	21.733	
9,600.0	9,565.3	9,594.3	9,585.1	18.1	20.2	-91.35	261.5	-939.6	654.1	623.9	30.24	21.629	
9,700.0	9,665.3	9,689.7	9,680.4	18.2	20.4	-91.15	263.9	-940.9	655.5	625.1	30.42	21.546	
9,800.0	9,765.3	9,788.3	9,779.0	18.2	20.5	-91.10	264.4	-942.7	657.3	626.7	30.58	21.495	
9,900.0	9,865.3	9,899.8	9,890.5	18.3	20.5	-91.23	262.9	-944.4	659.0	628.0	30.96	21.283	
10,000.0	9,965.3	10,065.0	10,053.2	18.4	20.2	-93.35	238.9	-935.6	654.0	622.8	31.18	20.973	
10,100.0	10,065.3	10,143.0	10,126.8	18.4	20.0	-95.53	214.9	-926.7	645.0	614.0	31.04	20.777	
10,164.7	10,130.0	10,175.8	10,157.1	18.5	19.9	-96.64	202.7	-924.1	642.8	611.7	31.06	20.693 CC, ES	
10,200.0	10,165.3	10,190.0	10,170.2	18.5	19.8	-97.13	197.2	-923.7	643.3	612.2	31.11	20.682 SF	
10,300.0	10,265.3	10,237.0	10,213.5	18.6	19.6	-98.73	178.9	-924.4	650.9	619.6	31.27	20.814	
10,400.0	10,365.3	10,341.6	10,307.2	18.7	19.3	-102.64	132.8	-928.6	664.2	633.1	31.12	21.343	
10,500.0	10,465.3	10,445.3	10,394.8	18.7	19.0	-107.34	77.5	-924.6	676.3	645.2	31.07	21.769	
10,600.0	10,565.3	10,495.5	10,433.7	18.8	18.8	-109.97	46.0	-921.5	694.7	663.2	31.46	22.080	
10,700.0	10,665.3	10,543.6	10,468.4	18.9	18.7	-112.63	12.9	-919.1	721.6	689.6	32.05	22.518	
10,800.0	10,765.3	10,589.8	10,499.9	19.0	18.6	-115.27	-20.9	-916.8	756.3	723.5	32.78	23.072	
10,900.0	10,865.3	10,628.5	10,524.5	19.0	18.5	-117.52	-50.7	-914.7	798.6	764.9	33.67	23.717	
11,000.0	10,965.3	10,662.0	10,544.5	19.1	18.4	-119.47	-77.6	-913.0	847.9	813.3	34.65	24.473	
11,100.0	11,065.3	10,683.3	10,556.5	19.2	18.4	-120.70	-95.0	-912.3	903.9	868.2	35.74	25.295	
11,200.0	11,165.3	10,709.0	10,570.3	19.3	18.4	-122.16	-116.8	-912.0	966.0	929.2	36.74	26.294	

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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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	25.2	25.2	0.0	3.0	-91.80	-29.4	-934.5	935.0	930.3	4.68	199.805	
100.0	100.0	121.9	121.9	1.2	3.3	-91.76	-28.7	-934.8	935.3	930.0	5.32	175.901	
200.0	200.0	218.3	218.3	1.7	3.7	-91.66	-27.1	-935.5	935.9	929.7	6.20	150.951	
300.0	300.0	312.7	312.6	2.1	4.2	-91.52	-24.9	-936.6	937.0	930.0	7.05	132.893	
400.0	400.0	407.1	407.0	2.4	4.8	-91.36	-22.3	-938.3	938.7	930.8	7.92	118.466	
500.0	500.0	502.0	501.8	2.7	5.3	-91.18	-19.3	-940.5	941.0	932.4	8.65	108.787	
600.0	600.0	597.3	597.0	3.0	5.7	-90.98	-16.1	-943.3	943.9	934.5	9.37	100.709	
700.0	700.0	694.7	694.4	3.2	6.2	-90.80	-13.2	-946.5	947.1	937.0	10.04	94.348	
800.0	800.0	796.0	795.5	3.5	6.6	-90.66	-10.9	-950.0	950.5	939.9	10.64	89.342	
900.0	900.0	906.0	905.5	3.7	6.8	-90.60	-9.9	-952.8	953.1	942.0	11.03	86.417	
1,000.0	1,000.0	1,001.0	1,000.5	3.9	7.0	-90.62	-10.3	-954.7	955.1	943.7	11.42	83.626	
1,100.0	1,100.0	1,077.3	1,076.7	4.2	7.1	-44.77	-10.6	-957.8	957.9	946.1	11.80	81.171	
1,200.0	1,199.8	1,167.5	1,166.8	4.5	7.3	-44.95	-10.7	-962.9	959.9	947.7	12.20	78.710	
1,300.0	1,299.5	1,272.5	1,271.6	4.9	7.5	-45.33	-10.7	-969.1	959.5	946.9	12.65	75.864	
1,400.0	1,398.7	1,371.9	1,370.9	5.2	7.8	-45.86	-10.3	-974.7	956.6	943.5	13.10	73.034	
1,500.0	1,497.5	1,470.4	1,469.2	5.6	8.0	-46.56	-9.9	-980.2	951.3	937.8	13.56	70.168	
1,586.0	1,582.0	1,549.8	1,548.4	5.8	8.2	-47.25	-9.1	-985.0	945.4	931.5	13.92	67.934	
1,600.0	1,595.6	1,564.3	1,562.9	5.9	8.2	-47.37	-8.9	-986.0	944.3	930.4	13.97	67.598	
1,700.0	1,693.5	1,656.1	1,654.5	6.2	8.5	-48.17	-8.5	-991.6	936.7	922.2	14.47	64.732	
1,800.0	1,791.5	1,728.0	1,726.1	6.6	8.8	-48.76	-7.6	-998.0	931.8	916.8	14.95	62.314	
1,896.7	1,886.1	1,791.1	1,788.7	6.9	9.0	-49.22	-6.0	-1,005.6	930.2	914.9	15.37	60.527 CC	
1,900.0	1,889.4	1,793.4	1,791.0	6.9	9.1	-49.24	-6.0	-1,006.0	930.2	914.9	15.38	60.469	
2,000.0	1,987.3	1,879.1	1,875.7	7.3	9.4	-49.82	-3.3	-1,018.7	931.5	915.6	15.87	58.683	
2,100.0	2,085.2	1,976.8	1,972.2	7.6	9.7	-50.48	-0.3	-1,033.6	933.4	917.0	16.40	56.907	
2,200.0	2,183.1	2,072.5	2,066.7	8.0	10.0	-51.11	2.8	-1,048.5	935.6	918.6	16.93	55.257	
2,300.0	2,281.0	2,165.6	2,158.5	8.4	10.3	-51.70	6.1	-1,063.6	938.5	921.0	17.46	53.757	
2,400.0	2,378.9	2,292.6	2,283.8	8.8	10.8	-52.37	12.8	-1,083.6	941.0	922.9	18.19	51.737	
2,500.0	2,476.9	2,414.1	2,404.2	9.2	11.2	-53.11	18.1	-1,098.5	940.0	921.2	18.85	49.882	
2,600.0	2,574.8	2,510.2	2,499.6	9.6	11.6	-53.73	21.9	-1,109.5	938.6	919.2	19.36	48.474	
2,662.6	2,636.1	2,570.9	2,559.8	9.9	11.8	-54.12	24.4	-1,116.6	937.8	918.2	19.67	47.686	
2,700.0	2,672.7	2,611.1	2,599.7	10.0	11.9	-54.36	26.1	-1,121.3	937.5	917.6	19.86	47.208	
2,800.0	2,770.9	2,719.6	2,707.5	10.4	12.3	-54.95	30.9	-1,133.3	936.6	916.2	20.42	45.867	
2,900.0	2,869.5	2,831.3	2,818.5	10.8	12.7	-55.49	35.7	-1,144.5	935.8	914.9	20.98	44.613	
2,964.0	2,932.7	2,892.3	2,879.2	11.1	12.9	-55.75	38.3	-1,150.0	935.3	914.0	21.30	43.923 ES	
3,000.0	2,968.3	2,922.1	2,908.8	11.2	13.0	-55.88	39.3	-1,152.9	935.5	914.1	21.46	43.594	
3,100.0	3,067.3	3,012.8	2,999.0	11.7	13.4	-56.25	41.9	-1,162.6	937.7	915.7	21.95	42.715	
3,200.0	3,166.6	3,115.6	3,101.1	12.0	13.7	-56.59	44.7	-1,173.8	941.1	918.6	22.50	41.831	
3,300.0	3,266.1	3,225.7	3,210.6	12.4	14.1	-56.88	47.3	-1,184.8	944.8	921.7	23.07	40.959	
3,400.0	3,365.7	3,315.8	3,300.3	12.8	14.5	-57.07	49.3	-1,193.5	949.2	925.6	23.56	40.283	
3,500.0	3,465.5	3,408.8	3,392.6	13.2	14.8	-57.17	51.6	-1,203.7	955.6	931.6	24.09	39.677	
3,600.0	3,565.4	3,516.7	3,499.9	13.5	15.2	-57.12	55.2	-1,215.7	963.0	938.4	24.68	39.027	
3,700.0	3,665.3	3,590.5	3,573.1	13.8	15.5	-57.06	57.8	-1,224.3	972.0	946.9	25.16	38.638	
3,800.0	3,765.3	3,670.6	3,652.3	14.1	15.8	-56.93	60.1	-1,235.8	984.5	958.9	25.66	38.373	
3,834.7	3,800.0	3,700.1	3,681.5	14.1	15.9	-102.75	60.9	-1,240.3	989.5	963.6	25.81	38.329	
3,900.0	3,865.3	3,764.1	3,744.6	14.1	16.2	-102.52	62.7	-1,250.4	999.1	972.9	26.16	38.196 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 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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		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	25.2	25.2	0.0	3.0	-91.80	-29.4	-934.5	935.0	930.3	4.68	199.805	
100.0	100.0	121.9	121.9	1.2	3.3	-91.76	-28.7	-934.8	935.3	930.0	5.32	175.901	
200.0	200.0	218.3	218.3	1.7	3.7	-91.66	-27.1	-935.5	935.9	929.7	6.20	150.951	
300.0	300.0	312.7	312.6	2.1	4.2	-91.52	-24.9	-936.6	937.0	930.0	7.05	132.893	
400.0	400.0	407.1	407.0	2.4	4.8	-91.36	-22.3	-938.3	938.7	930.8	7.92	118.466	
500.0	500.0	502.0	501.8	2.7	5.3	-91.18	-19.3	-940.5	941.0	932.4	8.65	108.787	
600.0	600.0	597.3	597.0	3.0	5.7	-90.98	-16.1	-943.3	943.9	934.5	9.37	100.709	
700.0	700.0	694.7	694.4	3.2	6.2	-90.80	-13.2	-946.5	947.1	937.0	10.04	94.348	
800.0	800.0	796.0	795.5	3.5	6.6	-90.66	-10.9	-950.0	950.5	939.9	10.64	89.342	
900.0	900.0	906.0	905.5	3.7	6.8	-90.60	-9.9	-952.8	953.1	942.0	11.03	86.417	
1,000.0	1,000.0	1,001.0	1,000.5	3.9	7.0	-90.62	-10.3	-954.7	955.1	943.7	11.42	83.626	
1,100.0	1,100.0	1,077.3	1,076.7	4.2	7.1	-44.77	-10.6	-957.8	957.9	946.1	11.80	81.171	
1,200.0	1,199.8	1,167.5	1,166.8	4.5	7.3	-44.95	-10.7	-962.9	959.9	947.7	12.20	78.710	
1,300.0	1,299.5	1,272.5	1,271.6	4.9	7.5	-45.33	-10.7	-969.1	959.5	946.9	12.65	75.864	
1,400.0	1,398.7	1,371.9	1,370.9	5.2	7.8	-45.86	-10.3	-974.7	956.6	943.5	13.10	73.034	
1,500.0	1,497.5	1,470.4	1,469.2	5.6	8.0	-46.56	-9.9	-980.2	951.3	937.8	13.56	70.168	
1,586.0	1,582.0	1,549.8	1,548.4	5.8	8.2	-47.25	-9.1	-985.0	945.4	931.5	13.92	67.934	
1,600.0	1,595.6	1,564.3	1,562.9	5.9	8.2	-47.37	-8.9	-986.0	944.3	930.4	13.97	67.598	
1,700.0	1,693.5	1,656.1	1,654.5	6.2	8.5	-48.17	-8.5	-991.6	936.7	922.2	14.47	64.732	
1,800.0	1,791.5	1,728.0	1,726.1	6.6	8.8	-48.76	-7.6	-998.0	931.8	916.8	14.95	62.314	
1,896.7	1,886.1	1,791.1	1,788.7	6.9	9.0	-49.22	-6.0	-1,005.6	930.2	914.9	15.37	60.527 CC	
1,900.0	1,889.4	1,793.4	1,791.0	6.9	9.1	-49.24	-6.0	-1,006.0	930.2	914.9	15.38	60.469	
2,000.0	1,987.3	1,879.1	1,875.7	7.3	9.4	-49.82	-3.3	-1,018.7	931.5	915.6	15.87	58.683	
2,100.0	2,085.2	1,976.8	1,972.2	7.6	9.7	-50.48	-0.3	-1,033.6	933.4	917.0	16.40	56.907	
2,200.0	2,183.1	2,072.5	2,066.7	8.0	10.0	-51.11	2.8	-1,048.5	935.6	918.6	16.93	55.257	
2,300.0	2,281.0	2,165.6	2,158.5	8.4	10.3	-51.70	6.1	-1,063.6	938.5	921.0	17.46	53.757	
2,400.0	2,378.9	2,292.6	2,283.8	8.8	10.8	-52.37	12.8	-1,083.6	941.0	922.9	18.19	51.737	
2,500.0	2,476.9	2,414.1	2,404.2	9.2	11.2	-53.11	18.1	-1,098.5	940.0	921.2	18.85	49.882	
2,600.0	2,574.8	2,510.2	2,499.6	9.6	11.6	-53.73	21.9	-1,109.5	938.6	919.2	19.36	48.474	
2,662.6	2,636.1	2,570.9	2,559.8	9.9	11.8	-54.12	24.4	-1,116.6	937.8	918.2	19.67	47.686	
2,700.0	2,672.7	2,611.1	2,599.7	10.0	11.9	-54.36	26.1	-1,121.3	937.5	917.6	19.86	47.208	
2,800.0	2,770.9	2,719.6	2,707.5	10.4	12.3	-54.95	30.9	-1,133.3	936.6	916.2	20.42	45.867	
2,900.0	2,869.5	2,831.3	2,818.5	10.8	12.7	-55.49	35.7	-1,144.5	935.8	914.9	20.98	44.613	
2,964.0	2,932.7	2,892.3	2,879.2	11.1	12.9	-55.75	38.3	-1,150.0	935.3	914.0	21.30	43.923 ES	
3,000.0	2,968.3	2,922.1	2,908.8	11.2	13.0	-55.88	39.3	-1,152.9	935.5	914.1	21.46	43.594	
3,100.0	3,067.3	3,012.8	2,999.0	11.7	13.4	-56.25	41.9	-1,162.6	937.7	915.7	21.95	42.715	
3,200.0	3,166.6	3,115.6	3,101.1	12.0	13.7	-56.59	44.7	-1,173.8	941.1	918.6	22.50	41.831	
3,300.0	3,266.1	3,225.7	3,210.6	12.4	14.1	-56.88	47.3	-1,184.8	944.8	921.7	23.07	40.959	
3,400.0	3,365.7	3,315.8	3,300.3	12.8	14.5	-57.07	49.3	-1,193.5	949.2	925.6	23.56	40.283	
3,500.0	3,465.5	3,408.8	3,392.6	13.2	14.8	-57.17	51.6	-1,203.7	955.6	931.6	24.09	39.677	
3,600.0	3,565.4	3,516.7	3,499.9	13.5	15.2	-57.12	55.2	-1,215.7	963.0	938.4	24.68	39.027	
3,700.0	3,665.3	3,590.5	3,573.1	13.8	15.5	-57.06	57.8	-1,224.3	972.0	946.9	25.16	38.638	
3,800.0	3,765.3	3,670.6	3,652.3	14.1	15.8	-56.93	60.1	-1,235.8	984.5	958.9	25.66	38.373	
3,834.7	3,800.0	3,700.1	3,681.5	14.1	15.9	-102.75	60.9	-1,240.3	989.5	963.6	25.81	38.329	
3,900.0	3,865.3	3,764.1	3,744.6	14.1	16.2	-102.52	62.7	-1,250.4	999.1	972.9	26.16	38.196 SF	

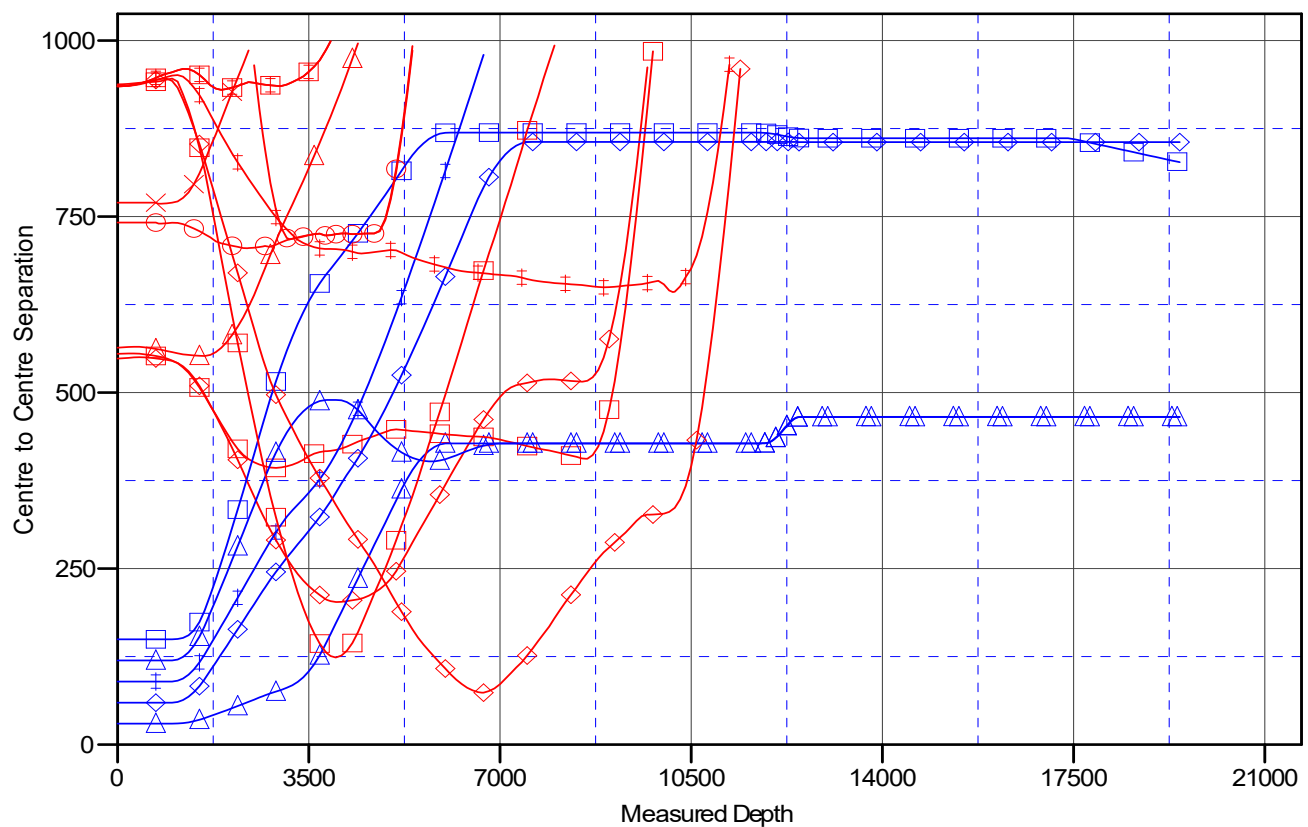
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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 709H - 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	_ZIA HILLS UNIT 2532 WC 710H, OWB, PWP0 V0	ZIA HILLS 25E FEDERAL COM020H, OWB, AWP V0
SD WE 24 FEDERAL P24 7H, OWB, AWP V0	_ZIA HILLS UNIT 2532 WC 711H, OWB, PWP0 V0	ZIA HILLS 25E FEDERAL COM030H, OWB, AWP V0
SD WE 24 FEDERAL P24 9H, OWB, AWP V0	MELLISSA-FEDERAL #1 (P&A), OWB, AWP V0	ZIA HILLS 25E FEDERAL COM040H, OWB, AWP V0
_ZIA HILLS UNIT 2532 WC 709H, OWB, PWP0 V0	WILDER-FEDERAL #15 (P&A), OWB, AWP V0	ZIA HILLS 25E FEDERAL COM040H, ST01, ST01 AWP V0
_ZIA HILLS UNIT 2532 WC 709H, OWB, PWP0 V0	WILDER-FEDERAL 9X, OWB, AWP V0	
_ZIA HILLS UNIT 2532 WC 709H, OWB, PWP0 V0	ZIA HILLS 25E FEDERAL COM040H, OWB, AWP V0	

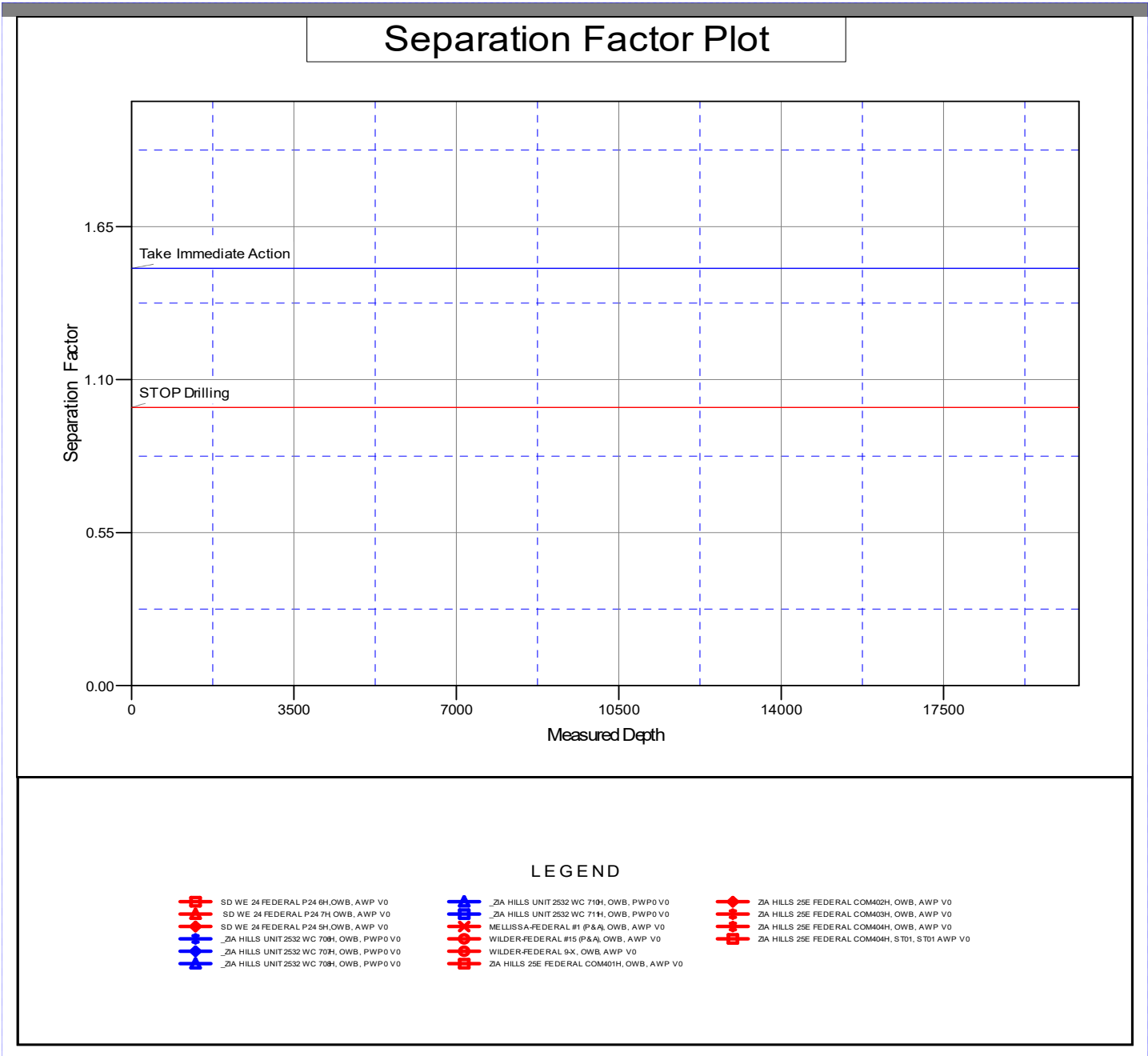
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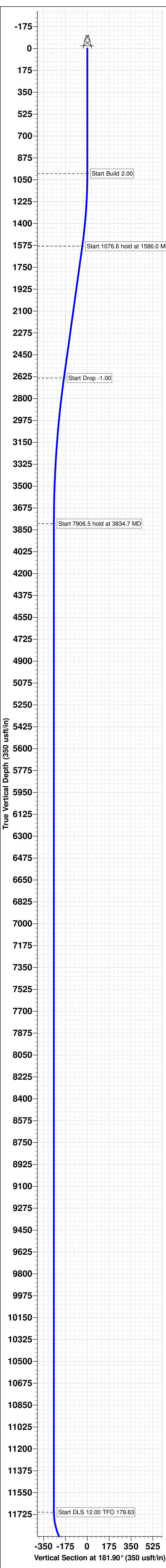
ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UNIT 2532 WC 709
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 709H	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

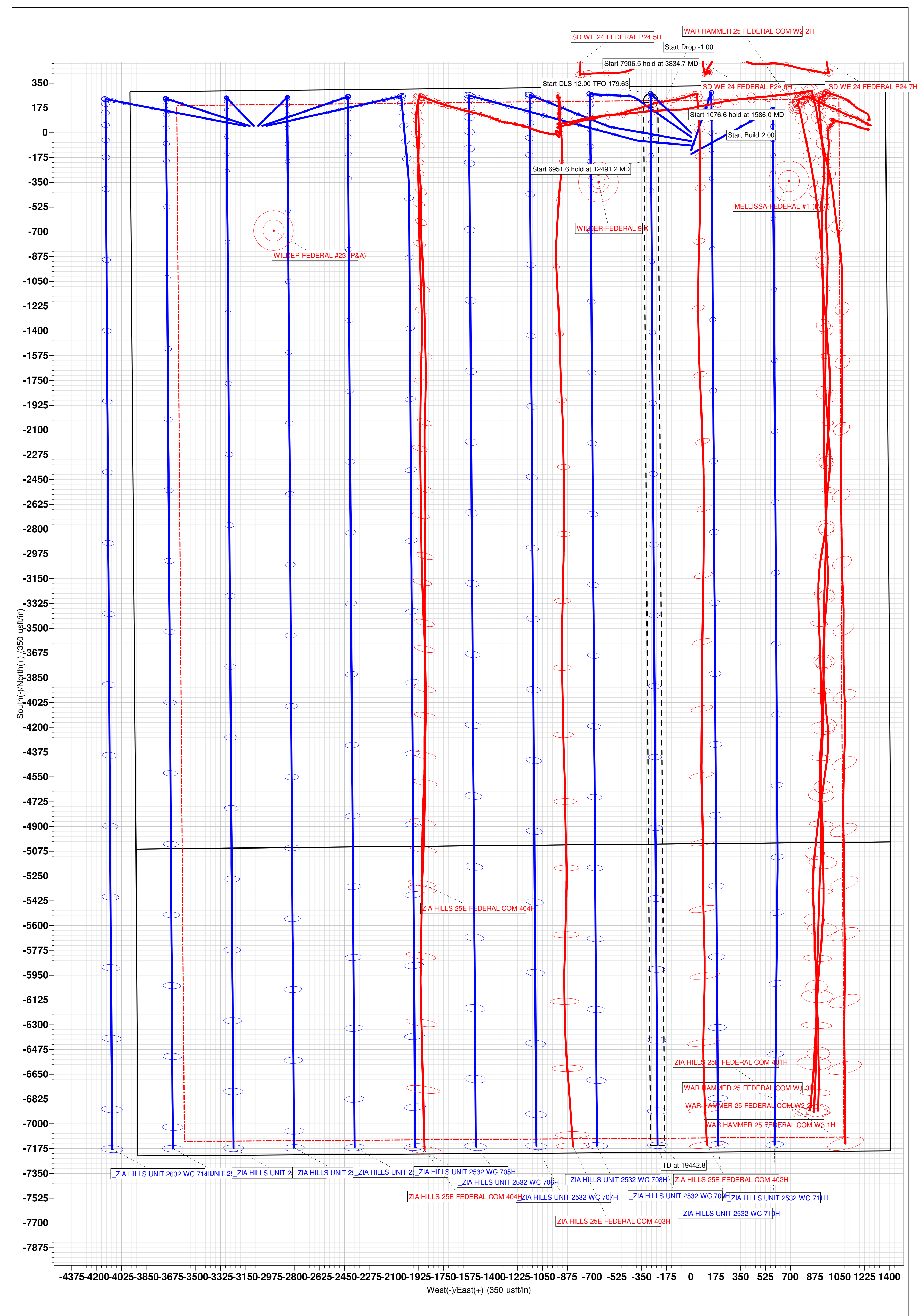
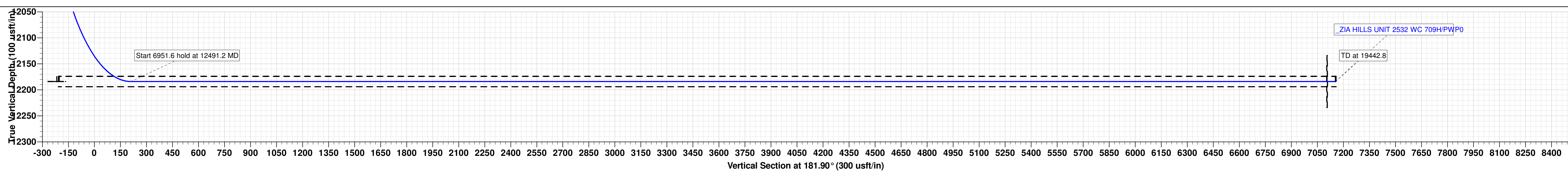
Reference Depths are relative to WELL @ 3135.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ZIA HILLS UNIT 2532 WC 709H - Slot ZIA HILLS UN
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°





SECTION DETAILS									
	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeat
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0
	1596.0	11.72	314.12	1592.0	41.6	-42.9	2.00	314.12	-40.1
	2662.6	11.72	314.12	2636.1	193.8	-199.9	0.00	0.00	-187.1
	3834.7	0.00	0.00	3800.0	277.0	-285.6	1.00	180.00	-267.4
	11741.2	0.00	0.00	11706.5	277.0	-285.6	0.00	0.00	-267.4
	12491.2	90.00	179.63	12184.0	-200.5	-282.6	12.00	179.63	209.7
	19442.8	90.00	179.63	12184.0	-7152.0	-237.6	0.00	0.00	7155.9



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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 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

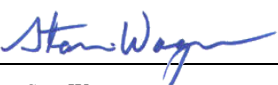
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

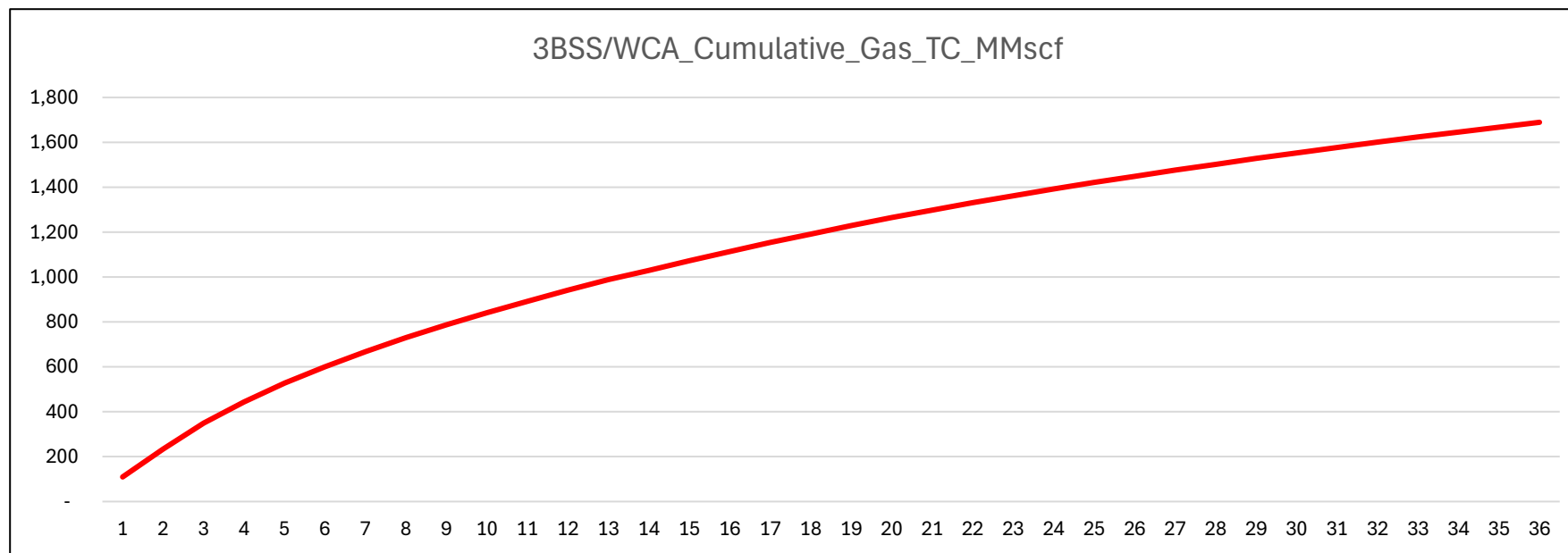
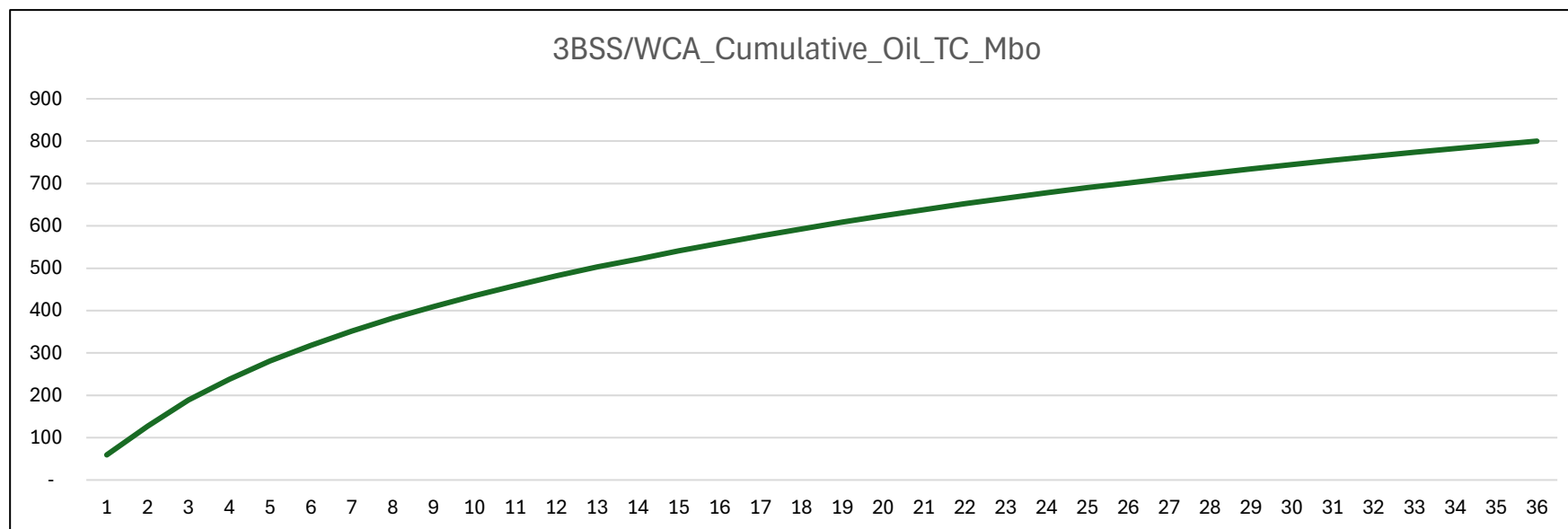
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize 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 709H
LOCATION:	Section 25, T.26 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

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

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

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

Contingency Casing Design:

4. The **13-3/8** inch surface casing shall be set at approximately **750 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

- hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
6. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
7. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below

the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

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

BOPE Break Testing Variance

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

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

Casing Clearance:

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

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

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

A. CASING

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

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

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 4/8/2025

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 464033

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 464033
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	5/16/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	5/16/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	8/6/2025
matthew.gomez	Prior to production of this well a change to the well name/number is required to comply with the OCD well naming convention.	8/6/2025
matthew.gomez	Out of compliance with Rule 19.15.5.9 Inactive Well List. Well cannot be produced until the operator is back in compliance.	8/6/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	8/6/2025
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	8/6/2025
matthew.gomez	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.	8/6/2025
matthew.gomez	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.	8/6/2025
matthew.gomez	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/6/2025