

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Name: VALKYRIE BS FED COM	Well Location: T23S / R28E / SEC 11 / NESE / 32.3193071 / -104.0511369	County or Parish/State: EDDY / NM
Well Number: 551H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM32636	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: MARATHON OIL PERMIAN LLC	

Notice of Intent

Sundry ID: 2885705

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 12/08/2025

Time Sundry Submitted: 08:52

Date proposed operation will begin: 12/08/2025

Procedure Description: Marathon Oil Permian LLC requests a change to our approved APD for this well to reflect a change in SHL & BHL. Change SHL FROM: 2350' FSL & 526' FEL Change SHL TO: 2348' FSL & 526' FEL, 11-23S-28E Change BHL FROM: 990' FSL & 100' FEL Change BHL TO: 330' FSL & 50' FEL, SESE 07-23S-29E, Eddy Co., NM. Revised C-102s, directional plans, and drill procedures attached.

NOI Attachments

Procedure Description

VALKYRIE_FED_COM_551H_Signed_C_102_12_3_25_20251209122005.pdf

Valkyrie_Fed_Com_551H_APD_20251208084350.pdf

VALKYRIE_FED_COM_551H_AC_REPORT_20251208084326.pdf

VALKYRIE_FED_COM_551H_PERMIT_PLAN_20251208084326.pdf

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County or Parish/State: EDDY / NM

Well Number: 551H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM32636

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: MARATHON OIL PERMIAN LLC

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STAN WAGNER

Signed on: DEC 09, 2025 12:20 PM

Name: MARATHON OIL PERMIAN LLC

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLAND

State: TX

Phone: (432) 253-9685

Email address: STAN.S.WAGNER@CONOCOPHILLIPS.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 01/27/2026

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NESE / 2350 FSL / 526 FEL / TWSP: 23S / RANGE: 28E / SECTION: 11 / LAT: 32.3193071 / LONG: -104.0511369 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 990 FSL / 100 FWL / TWSP: 23S / RANGE: 28E / SECTION: 12 / LAT: 32.3155812 / LONG: -104.049157 (TVD: 8242 feet, MD: 8482 feet)

PPP: LOT 4 / 990 FSL / 0 FEL / TWSP: 23S / RANGE: 29E / SECTION: 7 / LAT: 32.3155726 / LONG: -104.0320434 (TVD: 8923 feet, MD: 14147 feet)

BHL: SESE / 990 FSL / 100 FEL / TWSP: 23S / RANGE: 28E / SECTION: 7 / LAT: 32.315111 / LONG: -104.0156992 (TVD: 9038 feet, MD: 19200 feet)

CONFIDENTIAL

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: <input type="checkbox"/> Initial Submittal <input checked="" type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-015-	Pool Code 15011	Pool Name Culebra Bluff; Bone Spring, South
Property Code 337450	Property Name VALKYRIE FED COM	
OGRID No. 372098	Operator Name MARATHON OIL PERMIAN LLC	Well Number 551H
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	11	23S	28E		2,348' FSL	526' FEL	32.319316°	-104.051137°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	7	23S	29E		330' FSL	50' FEL	32.313284°	-104.015468°	EDDY

Dedicated Acres 634.72	Infill or Defining Well Infill	Defining Well API 30-015-57022	Overlapping Spacing Unit (Y/N)	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	11	23S	28E		2,348' FSL	526' FEL	32.319316°	-104.051137°	EDDY


First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	12	23S	28E		330' FSL	100' FWL	32.313767°	-104.049180°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	7	23S	29E		330' FSL	100' FEL	32.313288°	-104.015630°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 2,992'
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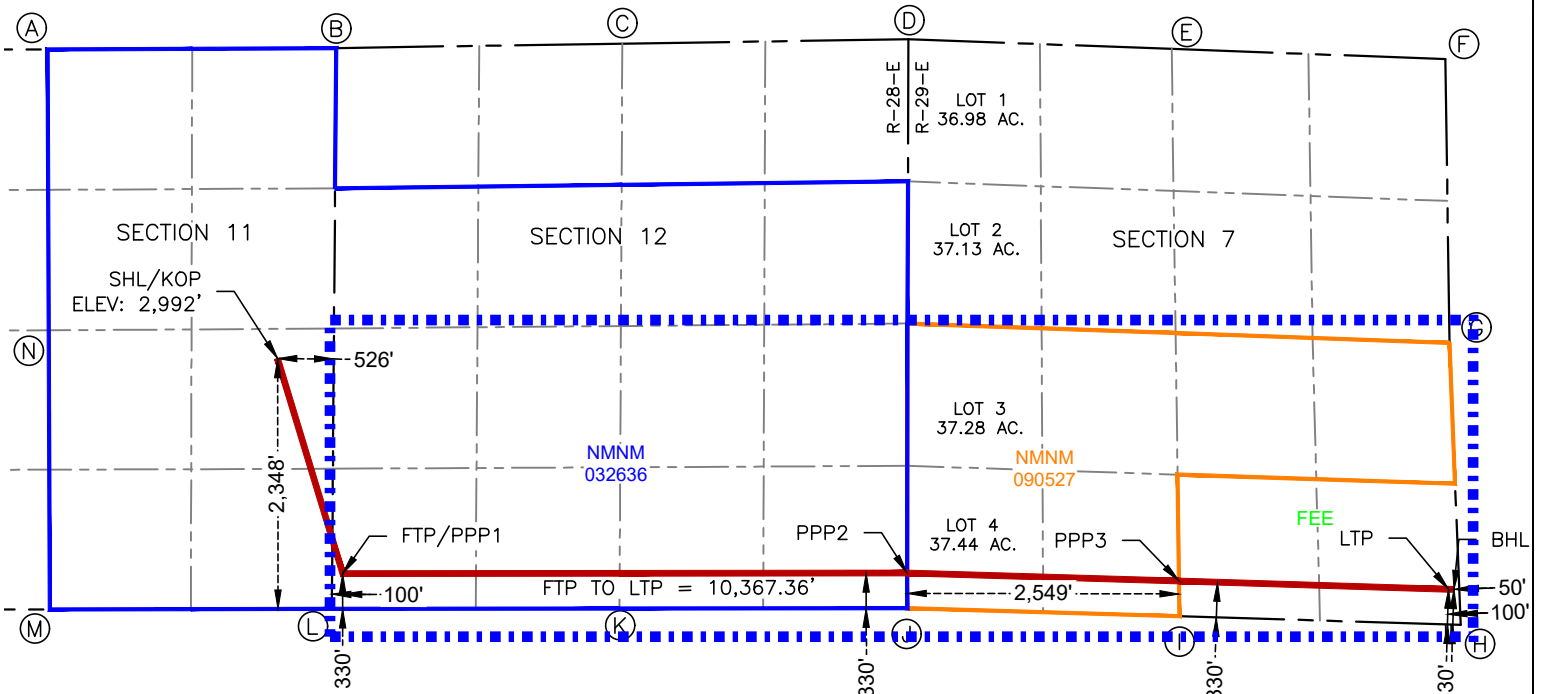
<p>OPERATOR CERTIFICATIONS</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including 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.</p> <p>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.</p>	<p>SURVEYOR CERTIFICATIONS</p> <p>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.</p> <div style="text-align: center;">  <p>Date: 10/29/2025</p> </div>		
Signature <i>Stan Wagner</i>	Date 12/03/25	Signature and Seal of Professional Surveyor	
Printed Name Stan Wagner	Email Address	Certificate Number 12177	Date of Survey 10/29/2025
		Revision Number 0	

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.



VALKYRIE FED COM 551H

SURFACE HOLE LOCATION & KICK-OFF POINT
 2,348' FSL & 526' FEL
 ELEV. = 2,992'
 NAD 83 X = 628,510.52'
 NAD 83 Y = 480,014.23'
 NAD 83 LAT = 32.319316°
 NAD 83 LONG = -104.051137°

FIRST TAKE POINT & PENETRATION POINT 1
 330' FSL & 100' FWL
 NAD 83 X = 629,120.63'
 NAD 83 Y = 477,997.24'
 NAD 83 LAT = 32.313767°
 NAD 83 LONG = -104.049180°

PENETRATION POINT 2
 330' FSL & 0' FEL
 NAD 83 X = 634,410.59'
 NAD 83 Y = 478,004.42'
 NAD 83 LAT = 32.313747°
 NAD 83 LONG = -104.032056°

PENETRATION POINT 3
 330' FSL & 2,549' FWL
 NAD 83 X = 636,959.84'
 NAD 83 Y = 477,928.95'
 NAD 83 LAT = 32.313520°
 NAD 83 LONG = -104.023805°

LAST TAKE POINT
 330' FSL & 100' FEL
 NAD 83 X = 639,485.70'
 NAD 83 Y = 477,852.11'
 NAD 83 LAT = 32.313288°
 NAD 83 LONG = -104.015630°

BOTTOM HOLE LOCATION
 330' FSL & 50' FEL
 NAD 83 X = 639,535.80'
 NAD 83 Y = 477,850.58'
 NAD 83 LAT = 32.313284°
 NAD 83 LONG = -104.015468°

CORNER COORDINATES NEW MEXICO EAST - NAD 83	
POINT	NORTHING/EASTING
A	N:482,913.27' E:626,359.83'
B	N:482,925.02' E:629,059.50'
C	N:482,966.63' E:631,741.28'
D	N:483,007.92' E:634,422.58'
E	N:482,916.72' E:636,890.24'
F	N:482,821.70' E:639,456.31'
G	N:480,162.43' E:639,494.75'
H	N:477,518.50' E:639,598.93'
I	N:477,598.98' E:636,964.45'
J	N:477,674.42' E:634,409.91'
K	N:477,670.11' E:631,715.39'
L	N:477,667.13' E:629,018.02'
M	N:477,662.44' E:626,376.12'
N	N:480,279.05' E:626,368.00'

ConocoPhillips - Valkyrie Fed Com 551H

1. Geologic Formations

TVD of target	8,764' EOL	Pilot hole depth	N/A
MD at TD:	19,680'	Deepest expected fresh water:	90'

Formation	Depth (KB TVD)	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	200	Water	
Top of Salt	412	Salt	
Base of Salt	2418	Salt	
Lamar	2639	Salt Water	
Bell Canyon	2676	Salt Water	
Cherry Canyon	3485	Oil/Gas	
Brushy Canyon	4790	Oil/Gas	
Bone Spring	6234	Oil/Gas	
1st Bone Spring Sand	7318	Oil/Gas	
2nd Bone Spring Sand	8047	Oil/Gas	
3rd Bone Spring Carb	8414	Target Oil/Gas	
		Not Penetrated	
		Not Penetrated	
		Not Penetrated	

2a. Casing Program: Big Hole & WBM

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	270'	13.375"	54.5	J55	BTC	9.15	16.56	57.97	61.77
12.250"	0	2,589	9.625"	40	L80-IC	BTC	2.59	11.90	8.85	9.14
8.75"	0	8,630	5.500"	20	P110-ICY	TXP-BTC	6.36	3.90	4.22	4.22
7.875"	8,630	19,680	5.500"	20	P110-ICY	TXP-BTC	6.36	3.90	4.22	4.22
COP Minimum Safety Factor							1.05	1.15	1.4	1.4

- 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.
- All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
- New casing meeting API standards will be utilized.

ConocoPhillips - Valkyrie Fed Com 551H

2b. Contingency Casing Program: Slim Hole & OBM

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	270	10.750"	45.5	J55	BTC	16.92	21.72	58.20	64.79
9.875"	0	8,200	7.625"	29.7	L80-ICY	BTC	3.62	1.62	2.98	2.63
8.75"	8,200	8,630	7.625"	29.7	P110-ICY	W513	4.49	2.41	4.17	2.50
6.75"	0	8,430	5.500"	20	P110-ICY	TXP-BTC	7.53	3.13	4.32	4.32
6.75"	8,430	19,680	5.500"	20	P110-ICY	W441	6.59	3.13	1.85	1.51
COP Minimum Safety Factor							1.05	1.15	1.4	1.4

- Contingency casing design will be used where water based mud is not deemed applicable.
- If drilling conditions dictate, 9.875" open hole may be taken to section TD.
- 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.
- All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
- New casing meeting API standards will be utilized.
- The 5-1/2" W441 casing will be run back 200' into intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

	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
Capitan Reef	
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?	
SOPA	
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?	
R-111-P	
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?	
High Cave/Karst	
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?	
Critical Cave/Karst	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

12/2/2025

3a. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surface	0	13.5	1.75	9	12	Lead: Class C
	160	14.8	1.34	6.34	8	Tail: Class C
Intermediate	530	12.8	1.8	9.21	12	Lead: Class C
	190	14.8	1.34	6.52	8	Tail: Class C
Production	850	11	2.63	16.17	72	Lead: Class C
	1330	13.2	1.45	7.46	19	Tail: Class H

- Surface and intermediate cement jobs to be performed offline.
- 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% in OH
1st Intermediate	0'	50% in OH
Production	2,089'	20% OH in Lateral

3b. Cementing Program for OBM Design

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surface	110	13.5	1.75	9	12	Lead: Class C
	160	14.8	1.34	6.34	8	Tail: Class C
Intermediate Stage 1	1450	12.8	1.75	9.21	12	Lead: Class C
	120	14.8	1.35	6.6	8	Tail: Class C
Intermediate Stage 2	180	10.5	3.3	22	24	Lead: Class C
	160	14.8	1.35	6.6	8	Tail: Class H
Production	470	12.7	1.68	9.09	72	Lead: Class C
	960	14.5	1.18	5.26	19	Tail: Class H

- Surface and intermediate cement jobs to be performed offline.
- Cement design to be run in the event the deep set intermediate design is used.
- If losses are encountered, a DV tool will be run ~50' into the Lamar to ensure cement to surface.
- Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results.
- Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1st Stage Int	0'	50%
2nd Stage Int (if necessary)	0'	50%
Production	8,130'	20% OH in Lateral

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	
			Pipe Ram	x	5000psi
			Double Ram	x	
			Other*		
8-3/4" (int)	13-5/8"	5M	5M Annular	x	2500psi
			Blind Ram	x	
			Pipe Ram	x	5000psi
			Double Ram	x	
			Other*		
8-3/4" (prod) or 6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	
			Pipe Ram	x	10000 psi
			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 43 CFR part 3170 Subpart 3172.	
	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.	

5a. Mud Program

Depth		Type	Weight (ppg)	Visc.	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf. Shoe	9-5/8" Int 1 shoe	Saturated Brine	9 - 10	28-34	N/C
9-5/8" Int 1 shoe	Lateral TD	WBM	8.6 - 10	28-34	N/C

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

5b. Mud Program

Depth		Type	Weight (ppg)	Visc.	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf. Shoe	7 5/8" Int 1 shoe	Brine Diesel Emulsion	9 - 10	28-34	N/C
7 5/8" Int 1 shoe	Lateral TD	OBM	9.6 - 12	35-45	<20

Mud program to be used in the event 4-string design is run. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

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

6. Logging and Testing Procedures

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

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
N	CBL	Production casing
Y	Mud log	Intermediate shoe to TD
N	PEX	

7a. Drilling Conditions (WBM)

Condition	Specify what type and where?
BH Pressure at deepest TVD	4560 psi at 8764' TVD
Abnormal Temperature	NO 145 Deg. F.

7a. Drilling Conditions (OBM)

Condition	Specify what type and where?
BH Pressure at deepest TVD	5470 psi at 8764' TVD
Abnormal Temperature	NO 145 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?
N	Is casing pre-set?
X	H2S Plan.
X	BOP & Choke Schematics.
X	Directional Plan

DELAWARE BASIN WEST

EDDY COUNTY _DBW_NM_E

VALKYRIE FED COM

_VALKYRIE FED COM 551H

OWB

PWP0

Anticollision Report

23 October, 2025

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.00usft or Max. Ell. Sep. of 500.00usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	10/23/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,680.00	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + SAG + FDIR Corr.

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						
VALKYRIE FED COM						
_VALKYRIE FED COM 501H - OWB - PWP0	1,000.00	1,000.00	30.00	22.02	3.760	CC
VALKYRIE FED COM 501H - OWB - PWP0	19,680.00	19,714.89	236.75	-5.25	0.978	STOP Drilling, ES, SF
_VALKYRIE FED COM 502H - OWB - PWP0	1,000.00	1,000.00	120.00	112.02	15.039	CC, ES
_VALKYRIE FED COM 502H - OWB - PWP0	1,200.00	1,199.84	126.76	117.81	14.168	SF
_VALKYRIE FED COM 552H - OWB - PWP0	1,000.00	1,000.00	89.99	82.02	11.279	CC, ES
_VALKYRIE FED COM 552H - OWB - PWP0	1,100.00	1,099.98	91.68	83.20	10.809	SF
ASTRODOG FEE 08 114H - OWB - AWP						Out of range
ASTRODOG FEE 0809 124H - OWB - AWP	19,680.00	8,937.00	692.48	599.31	7.432	CC, ES, SF
ASTRODOG FEE 0809 133H - OWB - AWP						Out of range
ASTRODOG FEE 0809 213H - OWB - AWP						Out of range
ASTRODOG FEE 0809 214H - OWB - AWP	19,680.00	9,282.38	448.40	375.47	6.149	CC, ES, SF
ASTRODOG FEE 0809 224H - OWB - AWP	15,737.79	9,158.28	575.24	455.56	4.807	CC, ES, SF
ASTRODOG FEE 0809 234H - OWB - AWP	19,680.00	9,297.35	212.50	72.01	1.513	Caution - Monitor Closely, CC, ES, SF
H F 7 FEDERAL COM 001 - OWB - AWP						Out of range
VALKYRIE 12 WXY FEDERAL COM 011H - OWB - AWP	9,350.00	8,953.54	660.12	611.56	13.594	SF
VALKYRIE 12 WXY FEDERAL COM 011H - OWB - AWP	9,480.53	8,979.68	644.27	598.03	13.931	ES
VALKYRIE 12 WXY FEDERAL COM 011H - OWB - AWP	9,497.04	8,980.76	644.06	598.15	14.027	CC

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 501H - OWB - PWP0													Offset Site Error: 0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-20.51	28.10	-10.51	30.00				
100.00	100.00	100.00	100.00	0.77	0.77	-20.51	28.10	-10.51	30.00	27.98	2.02	14.834	
200.00	200.00	200.00	200.00	1.44	1.44	-20.51	28.10	-10.51	30.00	26.66	3.34	8.975	
300.00	300.00	300.00	300.00	1.88	1.88	-20.51	28.10	-10.51	30.00	25.77	4.23	7.098	
400.00	400.00	400.00	400.00	2.25	2.25	-20.51	28.10	-10.51	30.00	25.06	4.94	6.069	
500.00	500.00	500.00	500.00	2.56	2.56	-20.51	28.10	-10.51	30.00	24.44	5.56	5.392	
600.00	600.00	600.00	600.00	2.84	2.84	-20.51	28.10	-10.51	30.00	23.88	6.12	4.901	
700.00	700.00	700.00	700.00	3.10	3.10	-20.51	28.10	-10.51	30.00	23.37	6.63	4.523	
800.00	800.00	800.00	800.00	3.34	3.34	-20.51	28.10	-10.51	30.00	22.89	7.11	4.221	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 501H - OWB - PWP0														Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR										Rule Assigned:				Offset Well Error:	0.00 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset 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)					
900.00	900.00	900.00	900.00	3.57	3.57	-20.51	28.10	-10.51	30.00	22.45	7.55	3.971			
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	-20.51	28.10	-10.51	30.00	22.02	7.98	3.760	CC		
1,100.00	1,099.98	1,099.98	1,099.98	4.10	3.99	166.23	28.10	-10.51	31.69	23.21	8.48	3.736			
1,200.00	1,199.84	1,199.84	1,199.84	4.38	4.19	168.15	28.10	-10.51	36.80	27.85	8.95	4.111			
1,300.00	1,299.45	1,299.45	1,299.45	4.65	4.38	170.38	28.10	-10.51	45.36	35.96	9.40	4.823			
1,400.00	1,398.70	1,398.70	1,398.70	4.91	4.56	172.38	28.10	-10.51	57.42	47.57	9.85	5.832			
1,500.00	1,497.47	1,497.47	1,497.47	5.16	4.73	173.98	28.10	-10.51	72.95	62.68	10.27	7.101			
1,600.00	1,595.62	1,598.70	1,598.68	5.41	4.99	175.02	26.40	-10.51	90.33	79.57	10.77	8.390			
1,700.00	1,693.06	1,700.64	1,700.47	5.66	5.22	175.53	21.08	-10.51	107.72	96.50	11.23	9.596			
1,800.00	1,789.64	1,803.25	1,802.69	5.90	5.29	175.74	12.07	-10.45	125.08	113.56	11.53	10.852			
1,900.00	1,885.27	1,906.56	1,905.20	6.13	5.52	175.90	-0.67	-10.01	142.34	130.37	11.97	11.888			
1,934.33	1,917.85	1,942.19	1,940.44	6.17	5.59	175.95	-5.92	-9.76	148.24	136.17	12.07	12.279			
2,000.00	1,980.06	2,010.68	2,007.98	6.25	5.75	176.03	-17.22	-9.14	158.73	146.46	12.28	12.930			
2,100.00	2,074.79	2,115.90	2,111.18	6.41	5.98	176.08	-37.69	-7.80	171.72	159.08	12.64	13.590			
2,200.00	2,169.52	2,221.99	2,214.39	6.58	6.21	176.06	-62.14	-6.01	181.05	168.05	13.00	13.931			
2,300.00	2,264.25	2,328.67	2,317.20	6.75	6.45	175.97	-90.53	-3.75	186.67	173.31	13.36	13.968			
2,400.00	2,358.98	2,433.75	2,417.39	6.93	6.67	175.82	-122.06	-1.10	188.72	174.98	13.74	13.735			
2,500.00	2,453.70	2,533.74	2,512.43	7.11	6.81	175.67	-153.03	1.53	189.77	175.69	14.09	13.471			
2,600.00	2,548.43	2,633.73	2,607.47	7.30	6.96	175.51	-184.00	4.17	190.83	176.38	14.45	13.206			
2,700.00	2,643.16	2,733.73	2,702.51	7.49	7.11	175.36	-214.97	6.80	191.89	177.07	14.82	12.946			
2,800.00	2,737.89	2,833.72	2,797.55	7.68	7.27	175.21	-245.93	9.44	192.95	177.75	15.20	12.693			
2,900.00	2,832.62	2,933.71	2,892.59	7.87	7.44	175.06	-276.90	12.08	194.01	178.42	15.59	12.447			
3,000.00	2,927.35	3,033.71	2,987.63	8.07	7.61	174.92	-307.87	14.71	195.07	179.09	15.98	12.207			
3,100.00	3,022.08	3,133.70	3,082.67	8.27	7.78	174.77	-338.83	17.35	196.14	179.76	16.38	11.975			
3,200.00	3,116.80	3,233.69	3,177.71	8.47	7.95	174.63	-369.80	19.98	197.20	180.42	16.78	11.750			
3,300.00	3,211.53	3,333.69	3,272.75	8.68	8.13	174.48	-400.77	22.62	198.27	181.07	17.19	11.531			
3,400.00	3,306.26	3,433.68	3,367.80	8.89	8.32	174.34	-431.74	25.25	199.33	181.72	17.61	11.320			
3,500.00	3,400.99	3,533.67	3,462.84	9.10	8.50	174.20	-462.70	27.89	200.40	182.37	18.03	11.116			
3,600.00	3,495.72	3,633.67	3,557.88	9.31	8.69	174.07	-493.67	30.53	201.47	183.02	18.45	10.919			
3,700.00	3,590.45	3,733.66	3,652.92	9.53	8.88	173.93	-524.64	33.16	202.54	183.66	18.88	10.728			
3,800.00	3,685.18	3,833.65	3,747.96	9.76	9.08	173.80	-555.61	35.80	203.61	184.30	19.31	10.544			
3,900.00	3,779.90	3,933.64	3,843.00	10.02	9.27	173.66	-586.57	38.43	204.69	184.94	19.75	10.366			
4,000.00	3,874.63	4,033.64	3,938.04	10.29	9.47	173.53	-617.54	41.07	205.76	185.58	20.18	10.195			
4,100.00	3,969.36	4,133.63	4,033.08	10.56	9.67	173.40	-648.51	43.70	206.83	186.21	20.62	10.028			
4,200.00	4,064.09	4,233.62	4,128.12	10.83	9.88	173.27	-679.48	46.34	207.91	186.84	21.07	9.868			
4,300.00	4,158.82	4,333.62	4,223.16	11.10	10.08	173.14	-710.44	48.98	208.99	187.47	21.52	9.713			
4,400.00	4,253.55	4,433.61	4,318.20	11.37	10.29	173.02	-741.41	51.61	210.07	188.10	21.96	9.564			
4,500.00	4,348.28	4,533.60	4,413.24	11.64	10.52	172.89	-772.38	54.25	211.15	188.73	22.42	9.419			
4,600.00	4,443.00	4,633.60	4,508.28	11.92	10.77	172.77	-803.34	56.88	212.23	189.36	22.87	9.280			
4,700.00	4,537.73	4,733.59	4,603.32	12.19	11.02	172.65	-834.31	59.52	213.31	189.98	23.33	9.145			
4,800.00	4,632.46	4,833.58	4,698.36	12.47	11.27	172.52	-865.28	62.15	214.39	190.60	23.78	9.014			
4,900.00	4,727.19	4,933.58	4,793.40	12.74	11.53	172.40	-896.25	64.79	215.47	191.23	24.24	8.888			
5,000.00	4,821.92	5,033.57	4,888.44	13.02	11.78	172.28	-927.21	67.43	216.56	191.85	24.71	8.765			
5,100.00	4,916.65	5,133.56	4,983.48	13.29	12.04	172.17	-958.18	70.06	217.64	192.47	25.17	8.647			
5,200.00	5,011.38	5,233.55	5,078.52	13.57	12.30	172.05	-989.15	72.70	218.73	193.09	25.63	8.533			
5,300.00	5,106.10	5,333.55	5,173.57	13.85	12.56	171.93	-1,020.12	75.33	219.81	193.71	26.10	8.422			
5,400.00	5,200.83	5,433.54	5,268.61	14.13	12.82	171.82	-1,051.08	77.97	220.90	194.33	26.57	8.314			
5,500.00	5,295.56	5,533.53	5,363.65	14.41	13.08	171.71	-1,082.05	80.60	221.99	194.95	27.04	8.210			
5,600.00	5,390.29	5,633.53	5,458.69	14.69	13.34	171.59	-1,113.02	83.24	223.08	195.57	27.51	8.110			
5,700.00	5,485.02	5,733.52	5,553.73	14.96	13.61	171.48	-1,143.99	85.88	224.17	196.19	27.98	8.012			
5,800.00	5,579.75	5,833.51	5,648.77	15.24	13.87	171.37	-1,174.95	88.51	225.26	196.81	28.45	7.917			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 501H - OWB - PWP0														Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 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)					
5,900.00	5,674.47	5,933.51	5,743.81	15.53	14.13	171.26	-1,205.92	91.15	226.35	197.42	28.93	7.825			
6,000.00	5,769.20	6,033.50	5,838.85	15.81	14.40	171.16	-1,236.89	93.78	227.44	198.04	29.40	7.736			
6,100.00	5,863.93	6,133.49	5,933.89	16.09	14.66	171.05	-1,267.85	96.42	228.54	198.66	29.88	7.649			
6,200.00	5,958.66	6,233.49	6,028.93	16.37	14.93	170.94	-1,298.82	99.05	229.63	199.28	30.36	7.565			
6,300.00	6,053.39	6,333.48	6,123.97	16.65	15.20	170.84	-1,329.79	101.69	230.73	199.89	30.83	7.483			
6,400.00	6,148.12	6,433.47	6,219.01	16.93	15.47	170.74	-1,360.76	104.33	231.82	200.51	31.31	7.403			
6,500.00	6,242.85	6,533.47	6,314.05	17.21	15.73	170.63	-1,391.72	106.96	232.92	201.13	31.79	7.326			
6,600.00	6,337.57	6,633.46	6,409.09	17.50	16.00	170.53	-1,422.69	109.60	234.02	201.74	32.27	7.251			
6,700.00	6,432.30	6,733.45	6,504.13	17.78	16.27	170.43	-1,453.66	112.23	235.12	202.36	32.76	7.178			
6,800.00	6,527.03	6,833.44	6,599.17	18.06	16.53	170.33	-1,484.63	114.87	236.21	202.98	33.23	7.108			
6,839.33	6,564.29	6,872.06	6,635.89	18.16	16.63	170.29	-1,496.56	115.88	236.67	203.27	33.40	7.086			
6,900.00	6,621.86	6,930.35	6,691.44	18.32	16.77	170.24	-1,514.16	117.38	237.51	203.84	33.67	7.054			
7,000.00	6,717.19	7,026.42	6,783.37	18.59	17.02	170.17	-1,541.94	119.75	238.83	204.70	34.14	6.997			
7,100.00	6,813.03	7,122.47	6,875.74	18.85	17.26	170.10	-1,568.17	121.98	240.08	205.49	34.59	6.941			
7,200.00	6,909.36	7,218.50	6,968.52	19.10	17.48	170.04	-1,592.85	124.08	241.25	206.23	35.03	6.888			
7,300.00	7,006.13	7,314.52	7,061.69	19.33	17.70	169.98	-1,615.98	126.05	242.36	206.91	35.45	6.837			
7,400.00	7,103.34	7,410.52	7,155.22	19.56	17.90	169.92	-1,637.54	127.88	243.38	207.52	35.86	6.787			
7,500.00	7,200.94	7,506.51	7,249.08	19.77	18.10	169.87	-1,657.54	129.59	244.34	208.08	36.25	6.740			
7,600.00	7,298.90	7,602.48	7,343.26	19.97	18.28	169.82	-1,675.96	131.15	245.21	208.58	36.63	6.694			
7,700.00	7,397.20	7,700.00	7,439.25	20.16	18.46	169.78	-1,693.07	132.61	246.02	209.01	37.02	6.647			
7,800.00	7,495.80	7,794.40	7,532.44	20.33	18.62	169.74	-1,708.07	133.89	246.75	209.40	37.34	6.607			
7,900.00	7,594.68	7,890.34	7,627.39	20.50	18.77	169.71	-1,721.76	135.05	247.40	209.72	37.67	6.567			
8,000.00	7,693.81	7,986.27	7,722.55	20.65	18.91	169.68	-1,733.85	136.08	247.98	209.99	37.99	6.528			
8,100.00	7,793.15	8,082.19	7,817.89	20.79	19.04	169.65	-1,744.36	136.98	248.48	210.19	38.28	6.490			
8,200.00	7,892.67	8,178.11	7,913.39	20.92	19.16	169.63	-1,753.27	137.73	248.90	210.34	38.56	6.455			
8,300.00	7,992.35	8,274.03	8,009.02	21.04	19.27	169.62	-1,760.59	138.36	249.25	210.43	38.82	6.421			
8,400.00	8,092.15	8,369.93	8,104.75	21.14	19.37	169.60	-1,766.32	138.84	249.53	210.47	39.06	6.389			
8,500.00	8,192.05	8,465.84	8,200.57	21.23	19.46	169.59	-1,770.44	139.20	249.72	210.45	39.27	6.359			
8,600.00	8,292.01	8,561.74	8,296.44	21.32	19.54	169.59	-1,772.97	139.41	249.84	210.39	39.45	6.333			
8,699.98	8,391.99	8,657.63	8,392.32	21.36	19.58	169.58	-1,773.89	139.49	249.89	210.37	39.52	6.323			
8,707.99	8,400.00	8,665.31	8,400.00	21.37	19.58	-16.37	-1,773.90	139.49	249.89	210.36	39.52	6.322			
8,730.53	8,422.54	8,687.85	8,422.54	21.36	19.58	-16.37	-1,773.90	139.49	249.89	210.37	39.52	6.323			
8,750.00	8,442.00	8,710.66	8,445.34	21.36	19.58	-106.27	-1,773.90	140.03	249.87	210.28	39.59	6.311			
8,775.00	8,466.94	8,739.95	8,474.53	21.37	19.60	-106.21	-1,773.90	142.33	249.79	210.10	39.69	6.294			
8,800.00	8,491.76	8,769.20	8,503.50	21.39	19.61	-106.09	-1,773.89	146.40	249.65	209.87	39.78	6.276			
8,825.00	8,516.39	8,798.40	8,532.11	21.40	19.63	-105.93	-1,773.88	152.23	249.44	209.59	39.85	6.259			
8,850.00	8,540.76	8,827.53	8,560.24	21.41	19.65	-105.71	-1,773.87	159.78	249.18	209.26	39.92	6.242			
8,875.00	8,564.81	8,856.58	8,587.78	21.43	19.67	-105.45	-1,773.86	168.99	248.87	208.89	39.98	6.224			
8,900.00	8,588.47	8,885.53	8,614.62	21.45	19.68	-105.14	-1,773.84	179.83	248.51	208.47	40.03	6.207			
8,925.00	8,611.67	8,914.35	8,640.64	21.46	19.70	-104.78	-1,773.83	192.22	248.10	208.02	40.08	6.190			
8,950.00	8,634.36	8,943.05	8,665.76	21.48	19.72	-104.38	-1,773.81	206.08	247.65	207.54	40.12	6.174			
8,975.00	8,656.46	8,971.60	8,689.88	21.50	19.74	-103.93	-1,773.79	221.35	247.17	207.02	40.15	6.157			
9,000.00	8,677.93	9,000.00	8,712.92	21.52	19.76	-103.44	-1,773.76	237.94	246.66	206.49	40.18	6.139			
9,025.00	8,698.69	9,028.22	8,734.81	21.54	19.79	-102.91	-1,773.74	255.76	246.13	205.93	40.21	6.122			
9,050.00	8,718.70	9,056.27	8,755.48	21.55	19.81	-102.34	-1,773.71	274.72	245.59	205.36	40.23	6.104			
9,075.00	8,737.89	9,084.13	8,774.87	21.57	19.83	-101.73	-1,773.68	294.72	245.04	204.78	40.26	6.086			
9,100.00	8,756.22	9,111.80	8,792.94	21.59	19.85	-101.09	-1,773.65	315.66	244.48	204.20	40.29	6.068			
9,125.00	8,773.64	9,139.27	8,809.65	21.62	19.88	-100.42	-1,773.62	337.46	243.94	203.62	40.32	6.050			
9,150.00	8,790.09	9,166.54	8,824.97	21.64	19.91	-99.72	-1,773.59	360.01	243.40	203.05	40.35	6.032			
9,175.00	8,805.54	9,193.60	8,838.88	21.66	19.94	-98.98	-1,773.56	383.22	242.89	202.50	40.39	6.014			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 501H - OWB - PWP0														Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 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)					
9,200.00	8,819.93	9,220.44	8,851.36	21.69	19.97	-98.23	-1,773.53	406.98	242.40	201.97	40.43	5.996			
9,225.00	8,833.24	9,247.08	8,862.40	21.71	20.01	-97.45	-1,773.49	431.22	241.94	201.47	40.47	5.978			
9,250.00	8,845.42	9,273.50	8,872.00	21.74	20.06	-96.65	-1,773.46	455.83	241.51	201.00	40.51	5.962			
9,275.00	8,856.45	9,299.71	8,880.16	21.77	20.10	-95.83	-1,773.42	480.74	241.13	200.58	40.55	5.946			
9,300.00	8,866.28	9,325.71	8,886.90	21.80	20.16	-95.00	-1,773.39	505.84	240.79	200.19	40.60	5.931			
9,325.00	8,874.90	9,351.50	8,892.22	21.84	20.21	-94.16	-1,773.35	531.07	240.50	199.86	40.64	5.918			
9,350.00	8,882.27	9,377.08	8,896.14	21.88	20.28	-93.30	-1,773.32	556.35	240.27	199.58	40.68	5.906			
9,375.00	8,888.39	9,402.46	8,898.69	21.92	20.35	-92.44	-1,773.28	581.60	240.08	199.36	40.72	5.895			
9,400.00	8,893.23	9,427.64	8,899.90	21.96	20.42	-91.58	-1,773.25	606.74	239.95	199.19	40.76	5.887			
9,425.00	8,896.78	9,452.53	8,900.01	22.01	20.50	-90.77	-1,773.21	631.63	239.88	199.08	40.80	5.879			
9,450.00	8,899.03	9,477.42	8,900.01	22.07	20.58	-90.23	-1,773.18	656.53	239.86	198.98	40.88	5.868			
9,475.00	8,899.97	9,502.40	8,900.01	22.13	20.66	-90.01	-1,773.14	681.51	239.86	198.86	41.00	5.851			
9,478.69	8,900.00	9,506.09	8,900.01	22.14	20.68	-90.00	-1,773.14	685.19	239.86	198.84	41.02	5.847			
9,480.53	8,900.01	9,507.94	8,900.01	22.14	20.68	-90.00	-1,773.14	687.04	239.86	198.83	41.03	5.846			
9,500.00	8,900.01	9,527.40	8,900.01	22.19	20.76	-90.00	-1,773.11	706.51	239.86	198.70	41.16	5.828			
9,600.00	8,900.01	9,627.40	8,900.01	22.50	21.16	-90.00	-1,772.97	806.50	239.86	197.99	41.87	5.729			
9,700.00	8,900.01	9,727.40	8,900.01	22.87	21.61	-90.00	-1,772.83	906.50	239.86	197.18	42.68	5.620			
9,800.00	8,900.01	9,827.40	8,900.01	23.29	22.11	-90.00	-1,772.69	1,006.50	239.86	196.26	43.60	5.502			
9,900.00	8,900.01	9,927.40	8,900.01	23.77	22.66	-90.00	-1,772.55	1,106.50	239.86	195.26	44.60	5.378			
10,000.00	8,900.01	10,027.40	8,900.01	24.29	23.24	-90.00	-1,772.41	1,206.50	239.86	194.16	45.69	5.249			
10,100.00	8,900.01	10,127.40	8,900.01	24.85	23.86	-90.00	-1,772.27	1,306.50	239.86	192.99	46.87	5.118			
10,200.00	8,900.01	10,227.40	8,900.01	25.45	24.51	-90.00	-1,772.13	1,406.50	239.86	191.74	48.12	4.985			
10,300.00	8,900.01	10,327.40	8,900.01	26.09	25.20	-90.00	-1,771.99	1,506.50	239.86	190.43	49.43	4.852			
10,400.00	8,900.01	10,427.40	8,900.01	26.75	25.91	-90.00	-1,771.85	1,606.50	239.86	189.05	50.81	4.721			
10,405.81	8,900.01	10,433.21	8,900.01	26.79	25.95	-90.00	-1,771.84	1,612.31	239.86	188.96	50.89	4.713			
10,500.00	8,900.01	10,527.40	8,900.01	27.45	26.65	-90.00	-1,771.71	1,706.50	239.86	187.61	52.25	4.591			
10,600.00	8,900.01	10,627.40	8,900.01	28.17	27.42	-90.00	-1,771.57	1,806.50	239.86	186.12	53.74	4.463			
10,700.00	8,900.01	10,727.40	8,900.01	28.91	28.21	-90.00	-1,771.43	1,906.50	239.86	184.58	55.28	4.339			
10,771.66	8,900.01	10,799.06	8,900.01	29.47	28.78	-90.00	-1,771.33	1,978.16	239.86	183.44	56.41	4.252			
10,800.00	8,900.01	10,827.40	8,900.01	29.68	29.02	-90.00	-1,771.29	2,006.50	239.86	182.99	56.87	4.218			
10,900.00	8,900.01	10,927.40	8,900.01	30.48	29.85	-90.00	-1,771.15	2,106.50	239.86	181.36	58.49	4.101			
11,000.00	8,900.01	11,027.40	8,900.01	31.29	30.69	-90.00	-1,771.01	2,206.50	239.86	179.70	60.16	3.987			
11,100.00	8,900.01	11,127.40	8,900.01	32.12	31.56	-90.00	-1,770.87	2,306.50	239.86	178.00	61.86	3.877			
11,188.34	8,900.01	11,215.74	8,900.01	32.87	32.34	-90.00	-1,770.75	2,394.85	239.86	176.47	63.39	3.784			
11,200.00	8,900.01	11,227.40	8,900.01	32.96	32.44	-90.00	-1,770.73	2,406.50	239.86	176.27	63.59	3.772			
11,300.00	8,900.01	11,327.40	8,900.01	33.83	33.33	-90.00	-1,770.60	2,506.50	239.86	174.50	65.36	3.670			
11,400.00	8,900.01	11,427.40	8,900.01	34.70	34.24	-90.00	-1,770.46	2,606.50	239.86	172.71	67.14	3.572			
11,500.00	8,900.01	11,527.40	8,900.01	35.60	35.16	-90.00	-1,770.32	2,706.50	239.86	170.90	68.96	3.478			
11,600.00	8,900.01	11,627.40	8,900.01	36.50	36.09	-90.00	-1,770.18	2,806.50	239.86	169.06	70.80	3.388			
11,700.00	8,900.01	11,727.40	8,900.01	37.41	37.04	-90.00	-1,770.04	2,906.50	239.86	167.20	72.65	3.301			
11,800.00	8,900.01	11,827.40	8,900.01	38.34	37.99	-90.00	-1,769.90	3,006.50	239.86	165.32	74.53	3.218			
11,900.00	8,900.01	11,927.40	8,900.01	39.28	38.95	-90.00	-1,769.76	3,106.50	239.86	163.43	76.43	3.138			
12,000.00	8,900.01	12,027.40	8,900.01	40.22	39.92	-90.00	-1,769.62	3,206.50	239.86	161.51	78.34	3.062			
12,100.00	8,900.01	12,127.40	8,900.01	41.18	40.89	-90.00	-1,769.48	3,306.50	239.86	159.58	80.27	2.988 Normal Operations			
12,200.00	8,900.01	12,227.40	8,900.01	42.14	41.88	-90.00	-1,769.34	3,406.50	239.86	157.64	82.22	2.917 Normal Operations			
12,300.00	8,900.01	12,327.40	8,900.01	43.11	42.87	-90.00	-1,769.20	3,506.50	239.86	155.68	84.18	2.849 Normal Operations			
12,348.53	8,900.01	12,375.93	8,900.01	43.59	43.35	-90.00	-1,769.13	3,555.04	239.86	154.73	85.13	2.818 Normal Operations			
12,400.00	8,900.01	12,427.40	8,900.01	44.09	43.87	-90.00	-1,769.06	3,606.50	239.86	153.71	86.15	2.784 Normal Operations			
12,500.00	8,900.01	12,527.40	8,900.01	45.07	44.87	-90.00	-1,768.92	3,706.50	239.86	151.73	88.13	2.722 Normal Operations			
12,600.00	8,900.01	12,627.40	8,900.01	46.06	45.88	-90.00	-1,768.78	3,806.50	239.86	149.74	90.12	2.661 Normal Operations			
12,684.52	8,900.01	12,711.92	8,900.01	46.91	46.73	-90.00	-1,768.66	3,891.03	239.86	148.04	91.81	2.612 Normal Operations			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 501H - OWB - PWP0													Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Distance		No-Go	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
12,700.00	8,900.01	12,727.40	8,900.01	47.06	46.89	-90.00	-1,768.64	3,906.50	239.86	147.73	92.13	2.604	Normal Operations	
12,800.00	8,900.01	12,827.40	8,900.01	48.06	47.91	-90.00	-1,768.50	4,006.50	239.86	145.72	94.14	2.548	Normal Operations	
12,900.00	8,900.01	12,927.40	8,900.01	49.07	48.93	-90.00	-1,768.36	4,106.50	239.86	143.70	96.16	2.494	Caution - Monitor Closely	
13,000.00	8,900.01	13,027.40	8,900.01	50.08	49.96	-90.00	-1,768.22	4,206.50	239.86	141.67	98.19	2.443	Caution - Monitor Closely	
13,100.00	8,900.01	13,127.40	8,900.01	51.10	50.99	-90.00	-1,768.08	4,306.50	239.86	139.63	100.23	2.393	Caution - Monitor Closely	
13,200.00	8,900.01	13,227.40	8,900.01	52.12	52.03	-90.00	-1,767.94	4,406.50	239.86	137.58	102.28	2.345	Caution - Monitor Closely	
13,300.00	8,900.01	13,327.40	8,900.01	53.15	53.07	-90.00	-1,767.80	4,506.50	239.86	135.53	104.33	2.299	Caution - Monitor Closely	
13,400.00	8,900.01	13,427.40	8,900.01	54.18	54.11	-90.00	-1,767.66	4,606.50	239.86	133.47	106.39	2.255	Caution - Monitor Closely	
13,500.00	8,900.01	13,527.40	8,900.01	55.21	55.15	-90.00	-1,767.52	4,706.50	239.86	131.40	108.46	2.212	Caution - Monitor Closely	
13,600.00	8,900.01	13,627.40	8,900.01	56.25	56.20	-90.00	-1,767.38	4,806.50	239.86	129.33	110.53	2.170	Caution - Monitor Closely	
13,685.13	8,900.01	13,712.53	8,900.01	57.13	57.10	-90.00	-1,767.26	4,891.63	239.86	127.56	112.30	2.136	Caution - Monitor Closely	
13,700.00	8,900.01	13,727.40	8,900.01	57.29	57.25	-90.00	-1,767.24	4,906.50	239.86	127.25	112.61	2.130	Caution - Monitor Closely	
13,800.00	8,900.01	13,827.40	8,900.01	58.33	58.31	-90.00	-1,767.10	5,006.50	239.86	125.17	114.69	2.091	Caution - Monitor Closely	
13,900.00	8,900.01	13,927.40	8,900.01	59.37	59.36	-90.00	-1,766.96	5,106.50	239.86	123.08	116.78	2.054	Caution - Monitor Closely	
14,000.00	8,900.01	14,027.40	8,900.01	60.42	60.42	-90.00	-1,766.83	5,206.50	239.86	120.99	118.87	2.018	Caution - Monitor Closely	
14,100.00	8,900.01	14,127.40	8,900.01	61.47	61.48	-90.00	-1,766.69	5,306.50	239.86	118.89	120.97	1.983	Caution - Monitor Closely	
14,200.00	8,900.01	14,227.40	8,900.01	62.53	62.55	-90.00	-1,766.55	5,406.50	239.86	116.79	123.07	1.949	Caution - Monitor Closely	
14,300.00	8,900.01	14,327.40	8,900.01	63.58	63.61	-90.00	-1,766.41	5,506.50	239.86	114.69	125.17	1.916	Caution - Monitor Closely	
14,400.00	8,900.01	14,427.40	8,900.01	64.64	64.68	-90.00	-1,766.27	5,606.50	239.86	112.58	127.28	1.884	Caution - Monitor Closely	
14,463.16	8,900.01	14,490.56	8,900.01	65.31	65.36	-90.00	-1,766.18	5,669.66	239.86	111.24	128.62	1.865	Caution - Monitor Closely	
14,500.00	8,900.01	14,527.40	8,900.01	65.70	65.75	-90.00	-1,766.13	5,706.50	239.86	110.46	129.39	1.854	Caution - Monitor Closely	
14,600.00	8,900.01	14,633.29	8,900.01	66.76	66.88	-90.00	-1,766.85	5,812.38	239.06	107.20	131.86	1.813	Caution - Monitor Closely	
14,630.53	8,900.01	14,665.44	8,900.01	67.09	67.23	-90.00	-1,767.74	5,844.52	238.17	105.57	132.59	1.796	Caution - Monitor Closely	
14,700.00	8,900.01	14,734.89	8,900.01	67.83	67.97	-90.00	-1,769.83	5,913.94	236.83	102.76	134.07	1.766	Caution - Monitor Closely	
14,720.53	8,900.01	14,755.42	8,900.01	68.05	68.19	-90.00	-1,770.44	5,934.46	236.75	102.25	134.50	1.760	Caution - Monitor Closely	
14,800.00	8,900.01	14,834.89	8,900.01	68.90	69.05	-90.00	-1,772.83	6,013.89	236.75	100.56	136.19	1.738	Caution - Monitor Closely	
14,900.00	8,900.01	14,934.89	8,900.01	69.97	70.13	-90.00	-1,775.83	6,113.85	236.75	98.43	138.32	1.712	Caution - Monitor Closely	
15,000.00	8,900.01	15,034.89	8,900.01	71.05	71.21	-90.00	-1,778.83	6,213.80	236.75	96.30	140.45	1.686	Caution - Monitor Closely	
15,100.00	8,900.01	15,134.89	8,900.01	72.12	72.30	-90.00	-1,781.83	6,313.76	236.75	94.17	142.59	1.660	Caution - Monitor Closely	
15,200.00	8,900.01	15,234.89	8,900.01	73.20	73.38	-90.00	-1,784.84	6,413.71	236.75	92.03	144.72	1.636	Caution - Monitor Closely	
15,300.00	8,900.01	15,334.89	8,900.01	74.28	74.47	-90.00	-1,787.84	6,513.67	236.75	89.89	146.86	1.612	Caution - Monitor Closely	
15,400.00	8,900.01	15,434.89	8,900.01	75.36	75.55	-90.00	-1,790.84	6,613.62	236.75	87.75	149.01	1.589	Caution - Monitor Closely	
15,500.00	8,900.01	15,534.89	8,900.01	76.44	76.64	-90.00	-1,793.84	6,713.58	236.75	85.60	151.15	1.566	Caution - Monitor Closely	
15,600.00	8,900.01	15,634.89	8,900.01	77.52	77.73	-90.00	-1,796.84	6,813.53	236.75	83.46	153.30	1.544	Caution - Monitor Closely	
15,700.00	8,900.01	15,734.89	8,900.01	78.61	78.82	-90.00	-1,799.84	6,913.49	236.75	81.31	155.45	1.523	Caution - Monitor Closely	
15,800.00	8,900.01	15,834.89	8,900.01	79.69	79.91	-90.00	-1,802.84	7,013.44	236.75	79.16	157.60	1.502	Caution - Monitor Closely	
15,900.00	8,900.01	15,934.89	8,900.01	80.78	81.00	-90.00	-1,805.85	7,113.40	236.75	77.01	159.75	1.482	Take Immediate Action	
16,000.00	8,900.01	16,034.89	8,900.01	81.87	82.09	-90.00	-1,808.85	7,213.35	236.75	74.85	161.90	1.462	Take Immediate Action	
16,100.00	8,900.01	16,134.89	8,900.01	82.95	83.19	-90.00	-1,811.85	7,313.31	236.75	72.70	164.06	1.443	Take Immediate Action	
16,112.30	8,900.01	16,147.19	8,900.01	83.09	83.32	-90.00	-1,812.22	7,325.60	236.75	72.43	164.32	1.441	Take Immediate Action	
16,200.00	8,900.01	16,234.89	8,900.01	84.04	84.28	-90.00	-1,814.85	7,413.26	236.75	70.54	166.22	1.424	Take Immediate Action	
16,300.00	8,900.01	16,334.89	8,900.01	85.13	85.38	-90.00	-1,817.85	7,513.22	236.75	68.38	168.37	1.406	Take Immediate Action	
16,400.00	8,900.01	16,434.89	8,900.01	86.22	86.47	-90.00	-1,820.85	7,613.17	236.75	66.22	170.54	1.388	Take Immediate Action	
16,500.00	8,900.01	16,534.89	8,900.01	87.32	87.57	-90.00	-1,823.86	7,713.13	236.75	64.06	172.70	1.371	Take Immediate Action	
16,600.00	8,900.01	16,634.89	8,900.01	88.41	88.67	-90.00	-1,826.86	7,813.08	236.75	61.89	174.86	1.354	Take Immediate Action	
16,700.00	8,900.01	16,734.89	8,900.01	89.50	89.76	-90.00	-1,829.86	7,913.04	236.75	59.73	177.03	1.337	Take Immediate Action	
16,800.00	8,900.01	16,834.89	8,900.01	90.60	90.86	-90.00	-1,832.86	8,012.99	236.75	57.56	179.19	1.321	Take Immediate Action	
16,900.00	8,900.01	16,934.89	8,900.01	91.69	91.96	-90.00	-1,835.86	8,112.95	236.75	55.39	181.36	1.305	Take Immediate Action	
17,000.00	8,900.01	17,034.89	8,900.01	92.79	93.06	-90.00	-1,838.86	8,212.90	236.75	53.22	183.53	1.290	Take Immediate Action	
17,008.32	8,900.01	17,043.20	8,900.01	92.88	93.15	-90.00	-1,839.11	8,221.21	236.75	53.04	183.71	1.289	Take Immediate Action	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 501H - OWB - PWP0														Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 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)					
17,100.00	8,900.01	17,134.89	8,900.01	93.88	94.16	-90.00	-1,841.86	8,312.86	236.75	51.05	185.70	1.275	Take Immediate Action		
17,200.00	8,900.01	17,234.89	8,900.01	94.98	95.26	-90.00	-1,844.87	8,412.81	236.75	48.88	187.87	1.260	Take Immediate Action		
17,291.87	8,900.01	17,326.76	8,900.01	95.99	96.27	-90.00	-1,847.62	8,504.64	236.75	46.89	189.87	1.247	Take Immediate Action		
17,300.00	8,900.01	17,334.89	8,900.01	96.08	96.36	-90.00	-1,847.87	8,512.77	236.75	46.71	190.04	1.246	Take Immediate Action		
17,400.00	8,900.01	17,434.89	8,900.01	97.18	97.47	-90.00	-1,850.87	8,612.72	236.75	44.54	192.22	1.232	Take Immediate Action		
17,405.00	8,900.01	17,439.89	8,900.01	97.23	97.52	-90.00	-1,851.02	8,617.72	236.75	44.43	192.33	1.231	Take Immediate Action		
17,500.00	8,900.01	17,534.89	8,900.01	98.28	98.57	-90.00	-1,853.87	8,712.68	236.75	42.36	194.39	1.218	Take Immediate Action		
17,600.00	8,900.01	17,634.89	8,900.01	99.38	99.67	-90.00	-1,856.87	8,812.63	236.75	40.19	196.57	1.204	Take Immediate Action		
17,618.13	8,900.01	17,653.02	8,900.01	99.58	99.87	-90.00	-1,857.42	8,830.76	236.75	39.79	196.96	1.202	Take Immediate Action		
17,700.00	8,900.01	17,734.89	8,900.01	100.48	100.77	-90.00	-1,859.87	8,912.59	236.75	38.01	198.74	1.191	Take Immediate Action		
17,800.00	8,900.01	17,834.89	8,900.01	101.58	101.88	-90.00	-1,862.87	9,012.54	236.75	35.83	200.92	1.178	Take Immediate Action		
17,900.00	8,900.01	17,934.89	8,900.01	102.68	102.98	-90.00	-1,865.88	9,112.50	236.75	33.65	203.10	1.166	Take Immediate Action		
17,987.92	8,900.01	18,022.80	8,900.01	103.65	103.95	-90.00	-1,868.52	9,200.37	236.75	31.74	205.02	1.155	Take Immediate Action		
18,000.00	8,900.01	18,034.89	8,900.01	103.78	104.09	-90.00	-1,868.88	9,212.45	236.75	31.47	205.28	1.153	Take Immediate Action		
18,100.00	8,900.01	18,134.89	8,900.01	104.88	105.19	-90.00	-1,871.88	9,312.41	236.75	29.29	207.46	1.141	Take Immediate Action		
18,188.91	8,900.01	18,223.79	8,900.01	105.86	106.18	-90.00	-1,874.55	9,401.27	236.75	27.36	209.40	1.131	Take Immediate Action		
18,200.00	8,900.01	18,234.89	8,900.01	105.98	106.30	-90.00	-1,874.88	9,412.36	236.75	27.11	209.64	1.129	Take Immediate Action		
18,300.00	8,900.01	18,334.89	8,900.01	107.09	107.41	-90.00	-1,877.88	9,512.32	236.75	24.93	211.82	1.118	Take Immediate Action		
18,305.00	8,900.01	18,339.89	8,900.01	107.14	107.46	-90.00	-1,878.03	9,517.31	236.75	24.82	211.93	1.117	Take Immediate Action		
18,400.00	8,900.01	18,434.89	8,900.01	108.19	108.51	-90.00	-1,880.88	9,612.27	236.75	22.75	214.00	1.106	Take Immediate Action		
18,500.00	8,900.01	18,534.89	8,900.01	109.29	109.62	-90.00	-1,883.89	9,712.23	236.75	20.57	216.19	1.095	Take Immediate Action		
18,600.00	8,900.01	18,634.89	8,900.01	110.40	110.73	-90.00	-1,886.89	9,812.18	236.75	18.38	218.37	1.084	Take Immediate Action		
18,614.16	8,900.01	18,649.05	8,900.01	110.56	110.88	-90.00	-1,887.31	9,826.34	236.75	18.07	218.68	1.083	Take Immediate Action		
18,700.00	8,900.01	18,734.89	8,900.01	111.50	111.83	-90.00	-1,889.89	9,912.14	236.75	16.20	220.56	1.073	Take Immediate Action		
18,800.00	8,900.01	18,834.89	8,900.01	112.61	112.94	-90.00	-1,892.89	10,012.09	236.75	14.01	222.74	1.063	Take Immediate Action		
18,831.88	8,900.01	18,866.77	8,900.01	112.96	113.30	-90.00	-1,893.85	10,043.95	236.75	13.31	223.44	1.060	Take Immediate Action		
18,900.00	8,900.01	18,934.89	8,900.01	113.71	114.05	-90.00	-1,895.89	10,112.05	236.75	11.83	224.93	1.053	Take Immediate Action		
19,000.00	8,900.01	19,034.89	8,900.01	114.82	115.16	-90.00	-1,898.89	10,212.00	236.75	9.64	227.11	1.042	Take Immediate Action		
19,100.00	8,900.01	19,134.89	8,900.01	115.93	116.27	-90.00	-1,901.89	10,311.96	236.75	7.45	229.30	1.032	Take Immediate Action		
19,200.00	8,900.01	19,234.89	8,900.01	117.03	117.38	-90.00	-1,904.90	10,411.91	236.75	5.26	231.49	1.023	Take Immediate Action		
19,300.00	8,900.01	19,334.89	8,900.01	118.14	118.49	-90.00	-1,907.90	10,511.87	236.75	3.08	233.68	1.013	Take Immediate Action		
19,400.00	8,900.01	19,434.89	8,900.01	119.25	119.60	-90.00	-1,910.90	10,611.82	236.75	0.89	235.87	1.004	Take Immediate Action		
19,500.00	8,900.01	19,534.89	8,900.01	120.36	120.71	-90.00	-1,913.90	10,711.78	236.75	-1.30	238.06	0.995	STOP Drilling		
19,600.00	8,900.01	19,634.89	8,900.01	121.46	121.82	-90.00	-1,916.90	10,811.73	236.75	-3.49	240.25	0.985	STOP Drilling		
19,680.00	8,900.01	19,714.89	8,900.01	122.35	122.70	-90.00	-1,919.30	10,891.69	236.75	-5.25	242.00	0.978	STOP Drilling, ES, SF		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 502H - OWB - PWP0													Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR											Rule Assigned:		Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.51	112.39	-42.04	120.00				
100.00	100.00	100.00	100.00	0.77	0.77	0.77	-20.51	112.39	-42.04	120.00	117.97	2.02	59.331	
200.00	200.00	200.00	200.00	1.44	1.44	1.44	-20.51	112.39	-42.04	120.00	116.65	3.34	35.897	
300.00	300.00	300.00	300.00	1.88	1.88	1.88	-20.51	112.39	-42.04	120.00	115.77	4.23	28.390	
400.00	400.00	400.00	400.00	2.25	2.25	2.25	-20.51	112.39	-42.04	120.00	115.05	4.94	24.275	
500.00	500.00	500.00	500.00	2.56	2.56	2.56	-20.51	112.39	-42.04	120.00	114.43	5.56	21.565	
600.00	600.00	600.00	600.00	2.84	2.84	2.84	-20.51	112.39	-42.04	120.00	113.87	6.12	19.602	
700.00	700.00	700.00	700.00	3.10	3.10	3.10	-20.51	112.39	-42.04	120.00	113.36	6.63	18.092	
800.00	800.00	800.00	800.00	3.34	3.34	3.34	-20.51	112.39	-42.04	120.00	112.89	7.11	16.882	
900.00	900.00	900.00	900.00	3.57	3.57	3.57	-20.51	112.39	-42.04	120.00	112.44	7.55	15.883	
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	3.79	-20.51	112.39	-42.04	120.00	112.02	7.98	15.039 CC, ES	
1,100.00	1,099.98	1,099.98	1,099.98	4.10	3.99	165.64		112.39	-42.04	121.69	113.20	8.48	14.347	
1,200.00	1,199.84	1,199.84	1,199.84	4.38	4.19	166.20		112.39	-42.04	126.76	117.81	8.95	14.168 SF	
1,300.00	1,299.45	1,299.45	1,299.45	4.65	4.38	167.05		112.39	-42.04	135.24	125.85	9.40	14.392	
1,400.00	1,398.70	1,398.70	1,398.70	4.91	4.56	168.06		112.39	-42.04	147.15	137.31	9.83	14.963	
1,500.00	1,497.47	1,497.47	1,497.47	5.16	4.73	169.14		112.39	-42.04	162.49	152.23	10.26	15.836	
1,600.00	1,595.62	1,595.62	1,595.62	5.41	4.90	170.21		112.39	-42.04	181.27	170.60	10.68	16.977	
1,700.00	1,693.06	1,693.06	1,693.06	5.66	5.06	171.22		112.39	-42.04	203.49	192.40	11.08	18.357	
1,800.00	1,789.64	1,789.64	1,789.64	5.90	5.22	172.13		112.39	-42.04	229.11	217.63	11.48	19.950	
1,900.00	1,885.27	1,885.27	1,885.27	6.13	5.38	172.95		112.39	-42.04	258.12	246.25	11.88	21.734	
1,934.33	1,917.85	1,917.85	1,917.85	6.17	5.43	173.20		112.39	-42.04	268.86	256.90	11.96	22.476	
2,000.00	1,980.06	1,980.06	1,980.06	6.25	5.52	173.70		112.39	-42.04	289.77	277.64	12.13	23.881	
2,100.00	2,074.79	2,081.34	2,081.33	6.41	5.73	174.51		111.73	-41.09	320.89	308.42	12.48	25.718	
2,200.00	2,169.52	2,185.62	2,185.49	6.58	5.95	175.63		108.97	-37.10	349.67	336.85	12.82	27.273	
2,300.00	2,264.25	2,288.01	2,287.54	6.75	6.03	176.95		104.26	-30.28	376.23	363.16	13.07	28.784	
2,400.00	2,358.98	2,384.22	2,383.37	6.93	6.14	178.12		99.35	-23.18	402.38	389.02	13.36	30.126	
2,500.00	2,453.70	2,480.44	2,479.20	7.11	6.25	179.14		94.45	-16.09	428.66	415.01	13.66	31.390	
2,600.00	2,548.43	2,576.66	2,575.03	7.30	6.37	-179.96		89.54	-9.00	455.06	441.10	13.96	32.597	
2,700.00	2,643.16	2,672.87	2,670.86	7.49	6.50	-179.15		84.64	-1.90	481.55	467.29	14.27	33.750	
2,800.00	2,737.89	2,769.09	2,766.69	7.68	6.62	-178.43		79.73	5.19	508.13	493.55	14.58	34.851	
2,900.00	2,832.62	2,865.31	2,862.51	7.87	6.75	-177.78		74.82	12.29	534.77	519.87	14.90	35.901	
3,000.00	2,927.35	2,961.52	2,958.34	8.07	6.87	-177.19		69.92	19.38	561.46	546.25	15.21	36.903	
3,100.00	3,022.08	3,057.74	3,054.17	8.27	7.00	-176.65		65.01	26.48	588.21	572.68	15.54	37.859	
3,200.00	3,116.80	3,153.96	3,150.00	8.47	7.13	-176.17		60.11	33.57	615.01	599.14	15.86	38.771	
3,300.00	3,211.53	3,250.18	3,245.83	8.68	7.27	-175.72		55.20	40.67	641.84	625.65	16.19	39.642	
3,400.00	3,306.26	3,346.39	3,341.66	8.89	7.40	-175.31		50.30	47.76	668.70	652.18	16.52	40.474	
3,500.00	3,400.99	3,442.61	3,437.49	9.10	7.54	-174.92		45.39	54.85	695.59	678.74	16.86	41.269	
3,600.00	3,495.72	3,538.83	3,533.32	9.31	7.67	-174.57		40.49	61.95	722.51	705.32	17.19	42.029	
3,700.00	3,590.45	3,635.04	3,629.15	9.53	7.81	-174.25		35.58	69.04	749.46	731.93	17.53	42.755	
3,800.00	3,685.18	3,731.26	3,724.98	9.76	7.95	-173.94		30.68	76.14	776.42	758.55	17.87	43.450	
3,900.00	3,779.90	3,827.48	3,820.81	10.02	8.09	-173.66		25.77	83.23	803.41	785.20	18.21	44.116	
4,000.00	3,874.63	3,923.69	3,916.64	10.29	8.23	-173.39		20.86	90.33	830.41	811.85	18.56	44.753	
4,100.00	3,969.36	4,019.91	4,012.47	10.56	8.38	-173.14		15.96	97.42	857.42	838.52	18.90	45.363	
4,200.00	4,064.09	4,116.13	4,108.30	10.83	8.52	-172.91		11.05	104.51	884.46	865.21	19.25	45.948	
4,300.00	4,158.82	4,212.34	4,204.13	11.10	8.67	-172.69		6.15	111.61	911.50	891.90	19.60	46.509	
4,400.00	4,253.55	4,308.56	4,299.96	11.37	8.81	-172.48		1.24	118.70	938.55	918.60	19.95	47.047	
4,500.00	4,348.28	4,404.78	4,395.78	11.64	8.96	-172.29		-3.66	125.80	965.62	945.32	20.30	47.564	
4,600.00	4,443.00	4,500.99	4,491.61	11.92	9.11	-172.10		-8.57	132.89	992.69	972.04	20.66	48.060	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 552H - OWB - PWP0														Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.00 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)					
0.00	0.00	0.00	0.00	0.00	0.00	-20.51	84.29	-31.53	89.99						
100.00	100.00	100.00	100.00	0.77	0.77	-20.51	84.29	-31.53	89.99	87.97	2.02	44.497			
200.00	200.00	200.00	200.00	1.44	1.44	-20.51	84.29	-31.53	89.99	86.65	3.34	26.922			
300.00	300.00	300.00	300.00	1.88	1.88	-20.51	84.29	-31.53	89.99	85.77	4.23	21.292			
400.00	400.00	400.00	400.00	2.25	2.25	-20.51	84.29	-31.53	89.99	85.05	4.94	18.206			
500.00	500.00	500.00	500.00	2.56	2.56	-20.51	84.29	-31.53	89.99	84.43	5.56	16.174			
600.00	600.00	600.00	600.00	2.84	2.84	-20.51	84.29	-31.53	89.99	83.87	6.12	14.701			
700.00	700.00	700.00	700.00	3.10	3.10	-20.51	84.29	-31.53	89.99	83.36	6.63	13.569			
800.00	800.00	800.00	800.00	3.34	3.34	-20.51	84.29	-31.53	89.99	82.89	7.11	12.661			
900.00	900.00	900.00	900.00	3.57	3.57	-20.51	84.29	-31.53	89.99	82.44	7.55	11.912			
1,000.00	1,000.00	1,000.00	1,000.00	3.79	3.79	-20.51	84.29	-31.53	89.99	82.02	7.98	11.279	CC, ES		
1,100.00	1,099.98	1,099.98	1,099.98	4.10	3.99	165.71	84.29	-31.53	91.68	83.20	8.48	10.809	SF		
1,200.00	1,199.84	1,199.84	1,199.84	4.38	4.19	166.45	84.29	-31.53	96.76	87.82	8.95	10.815			
1,300.00	1,299.45	1,299.45	1,299.45	4.65	4.38	167.52	84.29	-31.53	105.26	95.86	9.40	11.200			
1,400.00	1,398.70	1,398.70	1,398.70	4.91	4.56	168.76	84.29	-31.53	117.19	107.35	9.84	11.914			
1,500.00	1,497.47	1,497.47	1,497.47	5.16	4.73	170.03	84.29	-31.53	132.57	122.31	10.26	12.917			
1,600.00	1,595.62	1,595.62	1,595.62	5.41	4.90	171.22	84.29	-31.53	151.41	140.73	10.68	14.176			
1,700.00	1,693.06	1,693.06	1,693.06	5.66	5.06	172.29	84.29	-31.53	173.68	162.59	11.09	15.663			
1,800.00	1,789.64	1,789.64	1,789.64	5.90	5.22	173.22	84.29	-31.53	199.37	187.88	11.49	17.355			
1,900.00	1,885.27	1,885.27	1,885.27	6.13	5.38	174.03	84.29	-31.53	228.44	216.56	11.88	19.230			
1,934.33	1,917.85	1,917.85	1,917.85	6.17	5.43	174.27	84.29	-31.53	239.19	227.23	11.96	19.991			
2,000.00	1,980.06	1,980.06	1,980.06	6.25	5.52	174.74	84.29	-31.53	260.15	248.01	12.14	21.434			
2,100.00	2,074.79	2,082.98	2,082.96	6.41	5.73	175.42	83.20	-31.03	291.03	278.52	12.51	23.264			
2,200.00	2,169.52	2,190.09	2,189.95	6.58	5.95	176.16	78.55	-28.92	318.59	305.70	12.88	24.726			
2,300.00	2,264.25	2,299.23	2,298.68	6.75	6.16	176.97	70.08	-25.07	342.67	329.41	13.25	25.854			
2,400.00	2,358.98	2,410.13	2,408.73	6.93	6.37	177.86	57.61	-19.40	363.20	349.57	13.62	26.662			
2,500.00	2,453.70	2,522.51	2,519.62	7.11	6.55	178.85	41.03	-11.87	380.13	366.17	13.96	27.228			
2,600.00	2,548.43	2,624.20	2,619.49	7.30	6.63	179.78	23.59	-3.94	394.62	380.39	14.23	27.737			
2,700.00	2,643.16	2,722.97	2,716.47	7.49	6.75	-179.37	6.57	3.80	409.12	394.57	14.55	28.121			
2,800.00	2,737.89	2,821.74	2,813.45	7.68	6.87	-178.58	-10.45	11.54	423.70	408.83	14.88	28.481			
2,900.00	2,832.62	2,920.50	2,910.43	7.87	7.00	-177.84	-27.47	19.27	438.36	423.15	15.21	28.818			
3,000.00	2,927.35	3,019.27	3,007.42	8.07	7.13	-177.15	-44.49	27.01	453.08	437.53	15.55	29.134			
3,100.00	3,022.08	3,118.04	3,104.40	8.27	7.27	-176.51	-61.51	34.75	467.87	451.97	15.90	29.430			
3,200.00	3,116.80	3,216.81	3,201.38	8.47	7.41	-175.90	-78.53	42.49	482.71	466.46	16.25	29.707			
3,300.00	3,211.53	3,315.57	3,298.36	8.68	7.55	-175.33	-95.55	50.22	497.60	480.99	16.60	29.967			
3,400.00	3,306.26	3,414.34	3,395.34	8.89	7.69	-174.79	-112.57	57.96	512.53	495.57	16.97	30.210			
3,500.00	3,400.99	3,513.11	3,492.32	9.10	7.84	-174.29	-129.59	65.70	527.51	510.18	17.33	30.438			
3,600.00	3,495.72	3,611.88	3,589.31	9.31	7.99	-173.81	-146.61	73.43	542.52	524.82	17.70	30.652			
3,700.00	3,590.45	3,710.64	3,686.29	9.53	8.14	-173.36	-163.63	81.17	557.57	539.50	18.07	30.852			
3,800.00	3,685.18	3,809.41	3,783.27	9.76	8.30	-172.93	-180.65	88.91	572.65	554.20	18.45	31.040			
3,900.00	3,779.90	3,908.18	3,880.25	10.02	8.46	-172.52	-197.67	96.65	587.77	568.94	18.83	31.217			
4,000.00	3,874.63	4,006.95	3,977.23	10.29	8.62	-172.13	-214.69	104.38	602.90	583.69	19.21	31.382			
4,100.00	3,969.36	4,105.71	4,074.22	10.56	8.78	-171.77	-231.71	112.12	618.07	598.47	19.60	31.538			
4,200.00	4,064.09	4,204.48	4,171.20	10.83	8.94	-171.42	-248.73	119.86	633.26	613.27	19.99	31.685			
4,300.00	4,158.82	4,303.25	4,268.18	11.10	9.11	-171.08	-265.75	127.59	648.47	628.09	20.38	31.823			
4,400.00	4,253.55	4,402.02	4,365.16	11.37	9.28	-170.76	-282.77	135.33	663.70	642.93	20.77	31.953			
4,500.00	4,348.28	4,500.78	4,462.14	11.64	9.45	-170.46	-299.79	143.07	678.95	657.78	21.17	32.076			
4,600.00	4,443.00	4,599.55	4,559.12	11.92	9.62	-170.17	-316.81	150.81	694.22	672.65	21.57	32.191			
4,700.00	4,537.73	4,698.32	4,656.11	12.19	9.79	-169.89	-333.83	158.54	709.50	687.54	21.97	32.300			
4,800.00	4,632.46	4,797.09	4,753.09	12.47	9.96	-169.62	-350.85	166.28	724.80	702.43	22.37	32.403			
4,900.00	4,727.19	4,895.85	4,850.07	12.74	10.14	-169.37	-367.87	174.02	740.12	717.35	22.77	32.500			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY _DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - _VALKYRIE FED COM 552H - OWB - PWP0													Offset Site Error:	0.00 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
5,000.00	4,821.92	4,991.29	4,943.79	13.02	10.28	-169.13	-384.25	181.46	755.52	732.38	23.14	32.650		
5,100.00	4,916.65	5,079.61	5,030.72	13.29	10.43	-168.96	-398.46	187.92	771.96	748.44	23.51	32.829		
5,200.00	5,011.38	5,167.54	5,117.49	13.57	10.58	-168.85	-411.40	193.80	789.73	765.84	23.89	33.060		
5,300.00	5,106.10	5,255.05	5,204.06	13.85	10.74	-168.79	-423.07	199.11	808.81	784.56	24.26	33.346		
5,400.00	5,200.83	5,342.10	5,290.36	14.13	10.89	-168.78	-433.48	203.84	829.20	804.58	24.62	33.683		
5,500.00	5,295.56	5,428.66	5,376.33	14.41	11.03	-168.81	-442.65	208.01	850.88	825.91	24.97	34.071		
5,600.00	5,390.29	5,514.69	5,461.91	14.69	11.18	-168.88	-450.59	211.62	873.84	848.52	25.32	34.506		
5,700.00	5,485.02	5,600.00	5,546.90	14.96	11.32	-168.99	-457.30	214.67	898.07	872.41	25.67	34.988		
5,800.00	5,579.75	5,685.02	5,631.70	15.24	11.45	-169.14	-462.85	217.20	923.57	897.56	26.01	35.514		
5,900.00	5,674.47	5,769.25	5,715.80	15.53	11.58	-169.31	-467.22	219.18	950.32	923.98	26.34	36.085		
6,000.00	5,769.20	5,852.84	5,799.31	15.81	11.70	-169.51	-470.44	220.64	978.32	951.66	26.66	36.699		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - ASTRODOG FEE 0809 124H - OWB - AWP												Offset Site Error:	0.00 usft
Survey Program: 109-r.5 MWD+IFR1												Offset Well Error:	0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
19,300.00	8,900.01	8,810.33	8,360.16	118.14	41.07	-28.10	-1,878.69	11,255.59	962.22	879.18	83.04	11.588	
19,400.00	8,900.01	8,843.00	8,382.74	119.25	41.27	-28.32	-1,888.87	11,276.88	886.73	801.38	85.35	10.389	
19,500.00	8,900.01	8,843.00	8,382.74	120.36	41.27	-28.32	-1,888.87	11,276.88	814.54	725.51	89.03	9.149	
19,600.00	8,900.01	8,895.95	8,416.79	121.46	41.50	-28.64	-1,904.81	11,314.16	744.98	653.78	91.20	8.169	
19,680.00	8,900.01	8,937.00	8,441.48	122.35	41.68	-28.92	-1,916.30	11,344.87	692.48	599.31	93.17	7.432 CC, ES, SF	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY _DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - ASTRODOG FEE 0809 214H - OWB - AWP													Offset Site Error:	0.00 usft	
Survey Program: 173-r.5 MWD+IFR1													Offset Well Error:	0.00 usft	
Reference													Rule Assigned:		
Offset				Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor			
19,200.00	8,900.01	9,254.53	8,855.14	117.03	42.20	-65.39	-2,071.14	11,323.47	922.45	857.86	64.59	14.281			
19,300.00	8,900.01	9,260.49	8,861.07	118.14	42.22	-68.23	-2,071.61	11,323.79	823.20	757.83	65.37	12.593			
19,400.00	8,900.01	9,266.37	8,866.92	119.25	42.24	-71.17	-2,072.06	11,324.11	724.10	657.69	66.42	10.902			
19,500.00	8,900.01	9,272.16	8,872.69	120.36	42.27	-74.21	-2,072.50	11,324.42	625.24	557.34	67.90	9.208			
19,600.00	8,900.01	9,277.87	8,878.37	121.46	42.29	-77.33	-2,072.93	11,324.73	526.76	456.60	70.15	7.509			
19,680.00	8,900.01	9,282.38	8,882.87	122.35	42.31	-79.86	-2,073.27	11,324.96	448.40	375.47	72.93	6.149	CC, ES, SF		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - ASTRODOG FEE 0809 224H - OWB - AWP													Offset Site Error:	0.00 usft
Survey Program: 213-r.5 MWD+IFR1													Offset Well Error:	0.00 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)				
15,000.00	8,900.01	9,174.73	8,909.16	71.05	37.22	-90.91	-1,462.48	6,961.06	935.40	856.70	78.70	11.886		
15,100.00	8,900.01	9,172.43	8,906.86	72.12	37.22	-90.68	-1,462.51	6,961.11	858.76	775.10	83.67	10.264		
15,200.00	8,900.01	9,170.16	8,904.59	73.20	37.23	-90.46	-1,462.54	6,961.16	787.38	697.97	89.42	8.806		
15,300.00	8,900.01	9,167.90	8,902.33	74.28	37.23	-90.23	-1,462.57	6,961.21	722.82	626.94	95.87	7.539		
15,400.00	8,900.01	9,165.67	8,900.10	75.36	37.24	-90.01	-1,462.59	6,961.26	667.04	564.27	102.77	6.491		
15,500.00	8,900.01	9,163.46	8,897.89	76.44	37.24	-89.79	-1,462.62	6,961.31	622.42	512.89	109.53	5.683		
15,600.00	8,900.01	9,161.27	8,895.70	77.52	37.25	-89.57	-1,462.65	6,961.35	591.50	476.22	115.28	5.131		
15,700.00	8,900.01	9,159.10	8,893.53	78.61	37.25	-89.35	-1,462.68	6,961.40	576.48	457.50	118.98	4.845		
15,737.79	8,900.01	9,158.28	8,892.71	79.02	37.25	-89.27	-1,462.69	6,961.41	575.24	455.56	119.67	4.807	CC, ES, SF	
15,800.00	8,900.01	9,156.95	8,891.38	79.69	37.25	-89.14	-1,462.71	6,961.44	578.59	458.68	119.91	4.825		
15,900.00	8,900.01	9,154.82	8,889.25	80.78	37.26	-88.93	-1,462.74	6,961.49	597.66	479.63	118.03	5.063		
16,000.00	8,900.01	9,153.00	8,887.43	81.87	37.26	-88.75	-1,462.76	6,961.52	632.16	518.14	114.02	5.544		
16,100.00	8,900.01	9,150.67	8,885.11	82.95	37.27	-88.52	-1,462.79	6,961.57	679.73	570.94	108.80	6.248		
16,200.00	8,900.01	9,148.65	8,883.09	84.04	37.27	-88.32	-1,462.82	6,961.61	737.86	634.66	103.20	7.150		
16,300.00	8,900.01	9,146.65	8,881.08	85.13	37.28	-88.12	-1,462.85	6,961.65	804.26	706.48	97.79	8.224		
16,400.00	8,900.01	9,144.66	8,879.09	86.22	37.28	-87.92	-1,462.87	6,961.69	877.06	784.22	92.83	9.448		
16,500.00	8,900.01	9,142.68	8,877.12	87.32	37.29	-87.72	-1,462.90	6,961.73	954.78	866.34	88.44	10.795		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY _DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - ASTRODOG FEE 0809 234H - OWB - AWP													Offset Site Error:	0.00 usft			
Survey Program: 113-r.5 MWD+IFR1													Offset Well Error:	0.00 usft			
Reference													Rule Assigned:				
Offset				Semi Major Axis		Highside		Offset Wellbore Centre		Distance		No-Go		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor					
18,900.00	8,900.01	9,300.63	8,906.22	113.71	39.31	-92.27	-2,003.63	11,032.67	936.66	874.48	62.19	15.062					
19,000.00	8,900.01	9,300.22	8,905.81	114.82	39.31	-92.12	-2,003.63	11,032.67	838.24	774.16	64.08	13.081					
19,100.00	8,900.01	9,299.80	8,905.40	115.93	39.31	-91.97	-2,003.62	11,032.67	740.24	673.63	66.61	11.112					
19,200.00	8,900.01	9,299.38	8,904.98	117.03	39.31	-91.82	-2,003.61	11,032.68	642.86	572.74	70.12	9.168					
19,300.00	8,900.01	9,298.96	8,904.56	118.14	39.31	-91.66	-2,003.61	11,032.68	546.43	471.25	75.17	7.269					
19,400.00	8,900.01	9,298.54	8,904.14	119.25	39.31	-91.51	-2,003.60	11,032.68	451.54	368.73	82.81	5.453					
19,500.00	8,900.01	9,298.12	8,903.71	120.36	39.31	-91.36	-2,003.60	11,032.68	359.45	264.46	94.98	3.784					
19,600.00	8,900.01	9,297.69	8,903.29	121.46	39.30	-91.20	-2,003.59	11,032.68	272.96	157.69	115.27	2.368	Caution - Monitor Closely				
19,680.00	8,900.01	9,297.35	8,902.95	122.35	39.30	-91.07	-2,003.58	11,032.69	212.50	72.01	140.49	1.513	Caution - Monitor Closely, CC, ES, SF				

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - VALKYRIE 12 WXY FEDERAL COM 011H - OWB - AWP														Offset Site Error:	0.00 usft
Survey Program: 237-r.5 MWD+IFR1														Offset Well Error:	0.00 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)					
4,300.00	4,158.82	4,296.31	4,257.13	11.10	15.21	-78.01	-1,051.36	1,071.61	993.29	970.49	22.80	43.566			
4,400.00	4,253.55	4,393.62	4,353.39	11.37	15.59	-79.22	-1,060.36	1,060.55	976.11	952.67	23.44	41.644			
4,500.00	4,348.28	4,493.71	4,452.36	11.64	15.99	-80.51	-1,069.73	1,048.90	959.14	935.03	24.11	39.787			
4,600.00	4,443.00	4,594.18	4,551.62	11.92	16.38	-81.84	-1,079.30	1,036.74	942.21	917.41	24.80	37.995			
4,700.00	4,537.73	4,693.99	4,650.19	12.19	16.78	-83.20	-1,088.92	1,024.25	925.37	899.85	25.52	36.267			
4,800.00	4,632.46	4,788.00	4,742.95	12.47	17.17	-84.50	-1,098.31	1,012.24	908.80	882.56	26.24	34.630			
4,900.00	4,727.19	4,876.62	4,830.45	12.74	17.53	-85.76	-1,107.22	1,001.40	893.29	866.32	26.98	33.114			
5,000.00	4,821.92	4,963.89	4,916.79	13.02	17.88	-87.08	-1,115.47	991.69	879.40	851.68	27.72	31.723			
5,100.00	4,916.65	5,055.10	5,007.15	13.29	18.24	-88.52	-1,123.56	982.29	866.94	838.45	28.49	30.429			
5,200.00	5,011.38	5,148.22	5,099.43	13.57	18.61	-90.02	-1,131.92	973.13	855.58	826.31	29.27	29.227			
5,300.00	5,106.10	5,244.80	5,195.14	13.85	19.00	-91.59	-1,141.04	963.88	845.10	815.02	30.08	28.100			
5,400.00	5,200.83	5,345.80	5,295.13	14.13	19.42	-93.22	-1,151.33	954.02	835.03	804.13	30.90	27.026			
5,500.00	5,295.56	5,439.84	5,388.22	14.41	19.80	-94.78	-1,160.83	944.64	825.43	793.71	31.72	26.022			
5,600.00	5,390.29	5,547.55	5,494.88	14.69	20.24	-96.68	-1,170.60	933.30	816.20	783.58	32.62	25.022			
5,700.00	5,485.02	5,639.00	5,585.44	14.96	20.61	-98.37	-1,178.46	923.32	807.47	773.97	33.49	24.108			
5,800.00	5,579.75	5,731.68	5,677.28	15.24	20.99	-100.11	-1,186.28	913.62	800.04	765.66	34.37	23.274			
5,900.00	5,674.47	5,844.06	5,788.49	15.53	21.45	-102.28	-1,195.90	900.61	792.39	757.04	35.35	22.418			
6,000.00	5,769.20	5,937.32	5,880.69	15.81	21.84	-104.10	-1,204.16	889.24	785.00	748.75	36.26	21.651			
6,100.00	5,863.93	6,031.60	5,973.91	16.09	22.23	-105.97	-1,212.58	878.01	778.78	741.61	37.17	20.954			
6,200.00	5,958.66	6,125.90	6,067.21	16.37	22.62	-107.84	-1,221.01	867.22	773.91	735.84	38.07	20.329			
6,300.00	6,053.39	6,237.84	6,177.73	16.65	23.10	-110.07	-1,231.91	853.18	768.63	729.59	39.04	19.688			
6,400.00	6,148.12	6,330.98	6,269.57	16.93	23.50	-111.92	-1,241.60	841.10	763.68	723.75	39.93	19.126			
6,500.00	6,242.85	6,417.59	6,355.10	17.21	23.86	-113.67	-1,250.21	830.54	760.55	719.77	40.77	18.654			
6,579.29	6,317.96	6,484.14	6,420.96	17.44	24.14	-115.03	-1,256.11	823.04	759.75	718.34	41.41	18.347			
6,600.00	6,337.57	6,501.38	6,438.05	17.50	24.21	-115.39	-1,257.52	821.19	759.80	718.23	41.57	18.277			
6,700.00	6,432.30	6,586.00	6,522.01	17.78	24.56	-117.16	-1,263.96	812.85	761.68	719.35	42.33	17.992			
6,800.00	6,527.03	6,673.34	6,608.81	18.06	24.90	-118.96	-1,270.06	805.26	765.84	722.77	43.07	17.783			
6,839.33	6,564.29	6,714.76	6,649.97	18.16	25.07	-119.79	-1,273.02	801.85	767.85	724.48	43.38	17.701			
6,900.00	6,621.86	6,784.17	6,718.89	18.32	25.35	-121.13	-1,278.96	796.08	770.56	726.66	43.89	17.556			
7,000.00	6,717.19	6,908.24	6,841.49	18.59	25.91	-123.28	-1,292.94	783.22	771.48	726.67	44.81	17.217			
7,100.00	6,813.03	6,993.50	6,925.69	18.85	26.28	-124.69	-1,302.52	773.87	771.90	726.41	45.49	16.969			
7,200.00	6,909.36	7,074.37	7,005.84	19.10	26.63	-125.98	-1,310.06	766.22	774.19	728.09	46.10	16.794			
7,300.00	7,006.13	7,180.40	7,110.95	19.33	27.07	-127.64	-1,318.81	755.44	776.27	729.46	46.81	16.583			
7,400.00	7,103.34	7,280.44	7,210.03	19.56	27.48	-129.19	-1,326.55	743.94	777.22	729.76	47.47	16.374			
7,500.00	7,200.94	7,376.56	7,305.21	19.77	27.87	-130.59	-1,333.87	732.70	777.55	729.48	48.07	16.176			
7,600.00	7,298.90	7,467.25	7,395.08	19.97	28.24	-131.84	-1,340.28	722.35	777.81	729.20	48.61	16.002			
7,700.00	7,397.20	7,554.22	7,481.41	20.16	28.59	-132.93	-1,345.82	713.46	778.61	729.52	49.09	15.862			
7,800.00	7,495.80	7,641.92	7,568.63	20.33	28.93	-133.90	-1,350.82	705.78	780.01	730.47	49.54	15.746			
7,900.00	7,594.68	7,730.85	7,657.20	20.50	29.27	-134.78	-1,355.28	699.05	781.76	731.80	49.96	15.647			
8,000.00	7,693.81	7,818.00	7,744.11	20.65	29.58	-135.53	-1,358.85	693.71	784.07	733.72	50.35	15.573			
8,100.00	7,793.15	7,900.70	7,826.68	20.79	29.85	-136.16	-1,361.14	689.70	787.10	736.46	50.63	15.545			
8,200.00	7,892.67	7,981.44	7,907.36	20.92	30.08	-136.69	-1,362.22	687.00	791.06	740.22	50.84	15.561			
8,300.00	7,992.35	8,069.04	7,994.96	21.04	30.20	-137.11	-1,362.52	686.06	795.96	745.01	50.95	15.623			
8,400.00	8,092.15	8,166.27	8,092.18	21.14	30.20	-137.43	-1,362.54	686.04	800.51	749.50	51.01	15.692			
8,500.00	8,192.05	8,267.84	8,193.76	21.23	30.26	-137.66	-1,362.71	686.12	803.75	752.56	51.18	15.703			
8,600.00	8,292.01	8,370.87	8,296.78	21.32	30.42	-137.80	-1,363.13	686.01	805.40	753.92	51.48	15.645			
8,699.98	8,391.99	8,471.59	8,397.50	21.36	30.60	-137.83	-1,363.84	685.86	805.49	753.73	51.76	15.563			
8,707.99	8,400.00	8,479.63	8,405.54	21.37	30.61	36.22	-1,363.91	685.86	805.44	753.66	51.78	15.555			
8,730.53	8,422.54	8,500.86	8,426.77	21.36	30.63	36.23	-1,364.09	685.89	805.30	753.51	51.79	15.548			
8,750.00	8,442.00	8,519.17	8,445.08	21.36	30.64	-53.73	-1,364.25	685.95	804.98	753.17	51.80	15.539			
8,775.00	8,466.94	8,542.65	8,468.55	21.37	30.66	-53.91	-1,364.43	686.10	803.92	752.10	51.81	15.516			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: VALKYRIE FED COM - VALKYRIE 12 WXY FEDERAL COM 011H - OWB - AWP														Offset Site Error:	0.00 usft
Survey Program: 237-r.5 MWD+IFR1														Offset Well Error:	0.00 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)					
8,800.00	8,491.76	8,566.03	8,491.94	21.39	30.67	-54.22	-1,364.61	686.30	802.13	750.32	51.81	15.481			
8,825.00	8,516.39	8,589.95	8,515.86	21.40	30.67	-54.68	-1,364.80	686.57	799.64	747.84	51.80	15.437			
8,850.00	8,540.76	8,614.02	8,539.92	21.41	30.67	-55.30	-1,364.98	686.86	796.42	744.64	51.77	15.383			
8,875.00	8,564.81	8,637.79	8,563.69	21.43	30.66	-56.05	-1,365.18	687.19	792.50	740.76	51.74	15.316			
8,900.00	8,588.47	8,661.21	8,587.10	21.45	30.65	-56.96	-1,365.37	687.53	787.91	736.21	51.71	15.238			
8,925.00	8,611.67	8,683.43	8,609.32	21.46	30.64	-57.98	-1,365.57	687.91	782.70	731.05	51.65	15.153			
8,950.00	8,634.36	8,704.87	8,630.75	21.48	30.62	-59.14	-1,365.78	688.37	776.94	725.35	51.59	15.060			
8,975.00	8,656.46	8,725.88	8,651.75	21.50	30.61	-60.42	-1,366.00	688.92	770.66	719.14	51.52	14.959			
9,000.00	8,677.93	8,746.42	8,672.28	21.52	30.59	-61.82	-1,366.24	689.56	763.91	712.47	51.44	14.851			
9,025.00	8,698.69	8,762.00	8,687.85	21.54	30.58	-63.17	-1,366.44	690.10	756.77	705.46	51.31	14.748			
9,050.00	8,718.70	8,784.65	8,710.49	21.55	30.55	-64.92	-1,366.73	691.01	749.27	698.04	51.23	14.626			
9,075.00	8,737.89	8,802.55	8,728.36	21.57	30.53	-66.60	-1,366.96	691.84	741.52	690.41	51.10	14.510			
9,100.00	8,756.22	8,819.85	8,745.64	21.59	30.51	-68.37	-1,367.17	692.72	733.57	682.60	50.97	14.393			
9,125.00	8,773.64	8,836.53	8,762.29	21.62	30.49	-70.19	-1,367.38	693.66	725.49	674.68	50.82	14.277			
9,150.00	8,790.09	8,852.52	8,778.25	21.64	30.46	-72.07	-1,367.58	694.63	717.36	666.71	50.65	14.163			
9,175.00	8,805.54	8,868.53	8,794.22	21.66	30.44	-74.02	-1,367.77	695.66	709.25	658.78	50.47	14.052			
9,200.00	8,819.93	8,883.88	8,809.55	21.69	30.42	-75.99	-1,367.95	696.65	701.23	650.95	50.27	13.948			
9,225.00	8,833.24	8,898.23	8,823.87	21.71	30.39	-77.93	-1,368.11	697.58	693.38	643.33	50.05	13.852			
9,250.00	8,845.42	8,911.53	8,837.13	21.74	30.37	-79.82	-1,368.25	698.45	685.81	636.00	49.81	13.768			
9,275.00	8,856.45	8,923.74	8,849.32	21.77	30.35	-81.62	-1,368.38	699.25	678.60	629.06	49.54	13.698			
9,300.00	8,866.28	8,934.83	8,860.38	21.80	30.33	-83.32	-1,368.49	699.97	671.86	622.62	49.24	13.644			
9,325.00	8,874.90	8,944.76	8,870.29	21.84	30.32	-84.88	-1,368.59	700.62	665.67	616.76	48.91	13.609			
9,350.00	8,882.27	8,953.54	8,879.05	21.88	30.30	-86.28	-1,368.68	701.19	660.12	611.56	48.56	13.594 SF			
9,375.00	8,888.39	8,961.23	8,886.73	21.92	30.29	-87.52	-1,368.75	701.70	655.29	607.11	48.17	13.603			
9,400.00	8,893.23	8,967.67	8,893.15	21.96	30.28	-88.56	-1,368.81	702.12	651.24	603.49	47.76	13.636			
9,425.00	8,896.78	8,972.83	8,898.30	22.01	30.27	-89.40	-1,368.86	702.46	648.06	600.74	47.32	13.696			
9,450.00	8,899.03	8,976.70	8,902.16	22.07	30.26	-90.01	-1,368.90	702.71	645.78	598.93	46.85	13.784			
9,475.00	8,899.97	8,979.28	8,904.74	22.13	30.26	-90.40	-1,368.92	702.88	644.44	598.08	46.36	13.901			
9,480.53	8,900.01	8,979.68	8,905.13	22.14	30.26	-90.46	-1,368.93	702.91	644.27	598.03	46.25	13.931 ES			
9,497.04	8,900.01	8,980.76	8,906.21	22.18	30.26	-90.55	-1,368.94	702.98	644.06	598.15	45.91	14.027 CC			
9,500.00	8,900.01	8,980.95	8,906.40	22.19	30.26	-90.57	-1,368.94	702.99	644.07	598.22	45.85	14.046			
9,600.00	8,900.01	8,987.51	8,912.94	22.50	30.25	-91.15	-1,369.00	703.42	652.21	608.43	43.78	14.899			
9,700.00	8,900.01	8,994.06	8,919.48	22.87	30.24	-91.73	-1,369.06	703.85	675.16	633.35	41.80	16.152			
9,800.00	8,900.01	9,000.62	8,926.02	23.29	30.22	-92.31	-1,369.13	704.28	711.48	671.33	40.15	17.719			
9,900.00	8,900.01	9,007.17	8,932.56	23.77	30.21	-92.90	-1,369.19	704.71	759.27	720.33	38.94	19.498			
10,000.00	8,900.01	9,013.73	8,939.11	24.29	30.20	-93.48	-1,369.25	705.14	816.52	778.36	38.16	21.399			
10,100.00	8,900.01	9,020.28	8,945.65	24.85	30.19	-94.06	-1,369.31	705.57	881.37	843.65	37.72	23.364			
10,200.00	8,900.01	9,026.84	8,952.19	25.45	30.18	-94.64	-1,369.37	706.00	952.29	914.73	37.55	25.360			
10,300.00	8,900.01	10,357.25	9,683.30	26.09	31.43	-141.95	-1,398.66	1,549.29	995.67	942.41	53.26	18.695			
10,400.00	8,900.01	10,438.18	9,687.21	26.75	32.17	-142.53	-1,408.23	1,629.54	992.16	938.09	54.07	18.349			
10,463.03	8,900.01	10,478.11	9,690.37	27.19	32.56	-142.87	-1,413.23	1,669.03	991.34	937.02	54.32	18.249			
10,500.00	8,900.01	10,509.00	9,693.43	27.45	32.87	-143.14	-1,416.64	1,699.58	991.73	937.11	54.62	18.158			
10,600.00	8,900.01	10,556.96	9,699.03	28.17	33.40	-143.52	-1,420.78	1,747.03	995.43	940.77	54.67	18.209			

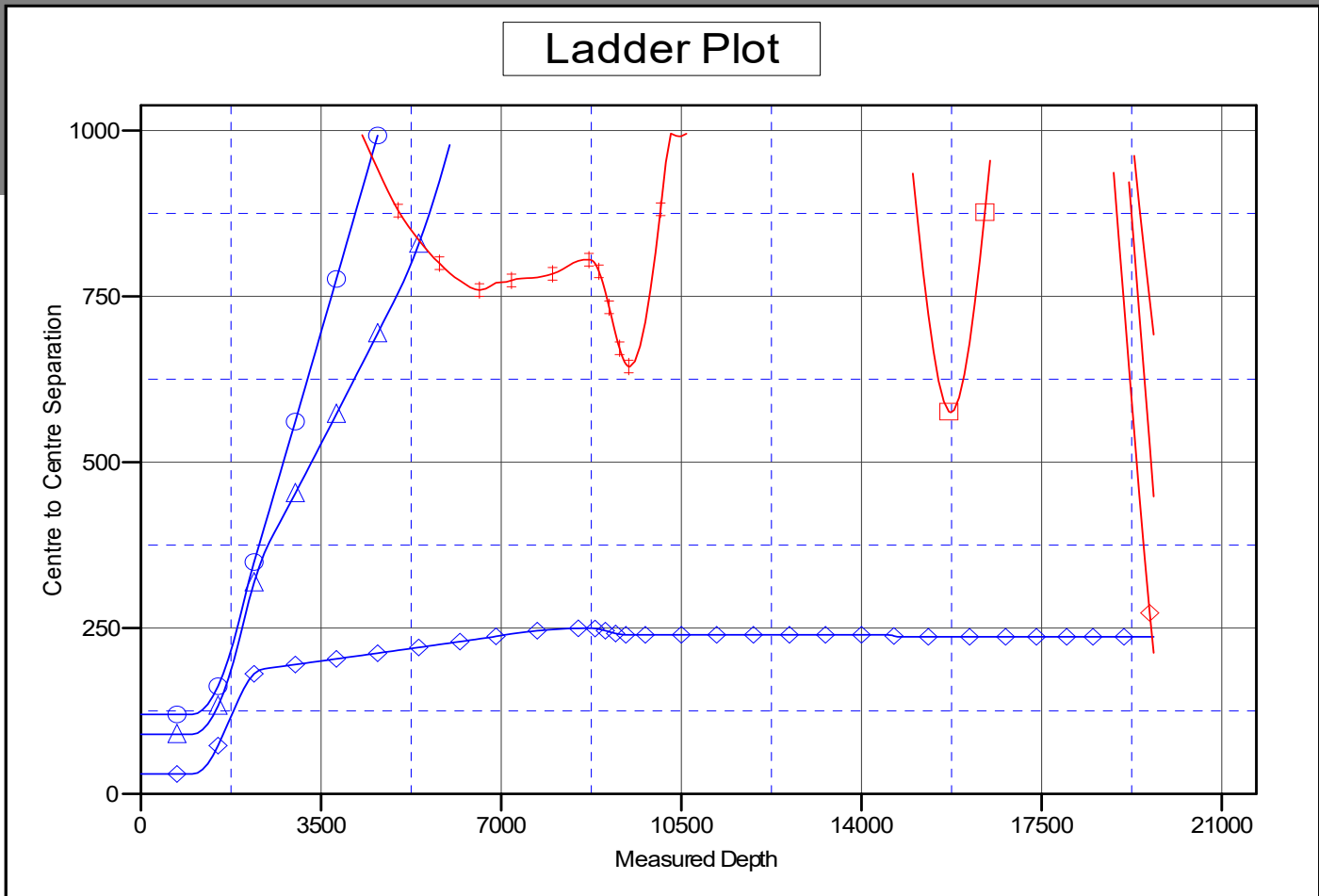
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY_DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3023.00usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _VALKYRIE FED COM 551H - Slot SLOT 5
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.15°



LEGEND

- _VALKYRIE FED COM 552H, OWB, PWP0 V0
▲ _VALKYRIE FED COM 551H, OWB, PWP0 V0
◆ ASTRODOG FEE 0809 234H, OWB, AWP V0
- ▲ _VALKYRIE FED COM 552H, OWB, PWP0 V0
■ ASTRODOG FEE 0809 124H, OWB, AWP V0
◆ ASTRODOG FEE 0809 214H, OWB, AWP V0
- ASTRODOG FEE 0809 224H, OWB, AWP V0
◆ VALKYRIE 12 WXY FEDERALCOM 011H, OWB, AWP V0

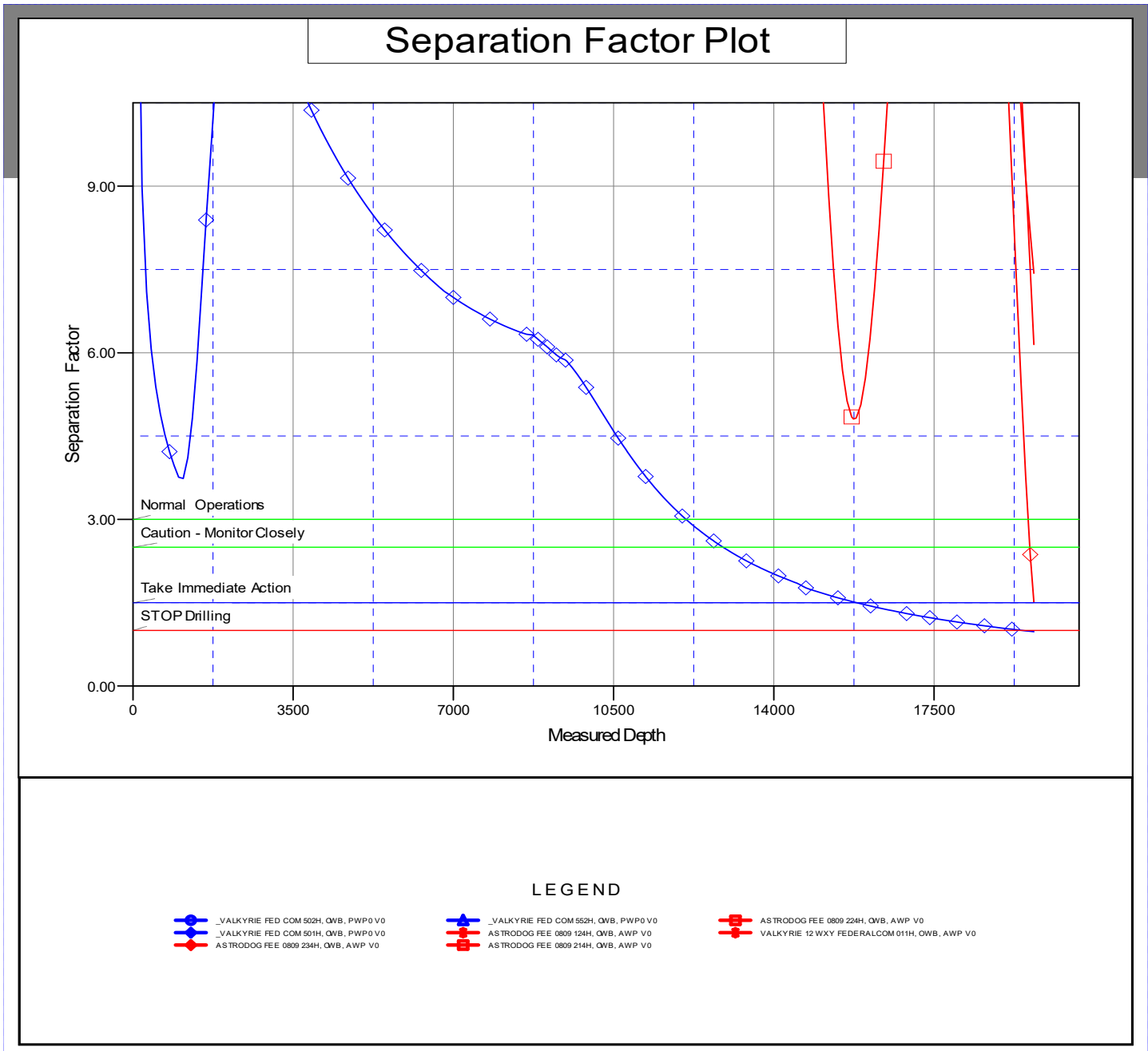
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Project:	EDDY COUNTY _DBW_NM_E	TVD Reference:	RKB @ 3023.00usft
Reference Site:	VALKYRIE FED COM	MD Reference:	RKB @ 3023.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3023.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _VALKYRIE FED COM 551H - Slot SLOT 5
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.15°



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

DELAWARE BASIN WEST

EDDY COUNTY _DBW_NM_E

VALKYRIE FED COM

_VALKYRIE FED COM 551H - Slot SLOT 5

OWB

Plan: PWP0

Standard Planning Report

23 October, 2025

ConocoPhillips Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB @ 3023.00usft
Project:	EDDY COUNTY_DBW_NM_E	MD Reference:	RKB @ 3023.00usft
Site:	VALKYRIE FED COM	North Reference:	Grid
Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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

Site	VALKYRIE FED COM				
Site Position:	Northing:	478,911.28 usft	Latitude:	32° 18' 58.612 N	
From:	Map	Easting:	593,415.17 usft	Longitude:	104° 1' 51.409 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	_VALKYRIE FED COM 551H - Slot SLOT 5					
Well Position	+N/-S	0.00 usft	Northing:	479,951.44 usft	Latitude:	32° 19' 9.070 N
	+E/-W	0.00 usft	Easting:	587,327.97 usft	Longitude:	104° 3' 2.312 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,991.00 usft
Grid Convergence:		0.15 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2025	10/3/2025	(°) 6.60	(°) 59.91	(nT) 47,152.61508358

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	101.20

Plan Survey Tool Program	Date	10/23/2025		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.00	19,680.00 PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	
			OWSG MWD + IFR1 + SAG +	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB @ 3023.00usft
Project:	EDDY COUNTY_DBW_NM_E	MD Reference:	RKB @ 3023.00usft
Site:	VALKYRIE FED COM	North Reference:	Grid
Well:	_VALKYRIE FED COM 551H	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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,934.33	18.69	174.05	1,917.85	-150.20	15.66	2.00	2.00	0.00	174.05	
6,839.33	18.69	174.05	6,564.29	-1,713.25	178.59	0.00	0.00	0.00	0.00	
8,707.99	0.00	0.01	8,400.00	-2,013.66	209.91	1.00	-1.00	0.00	180.00	
8,730.53	0.00	0.01	8,422.54	-2,013.66	209.91	0.00	0.00	0.00	0.01	
9,480.53	90.00	89.92	8,900.01	-2,012.99	687.37	12.00	12.00	0.00	89.92	
14,630.53	90.00	89.92	8,900.01	-2,005.80	5,837.37	0.00	0.00	0.00	0.00	
14,720.53	90.00	91.72	8,900.01	-2,007.09	5,927.36	2.00	0.00	2.00	90.00	
19,680.00	90.00	91.72	8,900.01	-2,155.95	10,884.59	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB @ 3023.00usft
Project:	EDDY COUNTY_DBW_NM_E	MD Reference:	RKB @ 3023.00usft
Site:	VALKYRIE FED COM	North Reference:	Grid
Well:	_VALKYRIE FED COM 551H	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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	2.00	174.05	1,099.98	-1.74	0.18	0.51	2.00	2.00	0.00	
1,200.00	4.00	174.05	1,199.84	-6.94	0.72	2.06	2.00	2.00	0.00	
1,300.00	6.00	174.05	1,299.45	-15.61	1.63	4.63	2.00	2.00	0.00	
1,400.00	8.00	174.05	1,398.70	-27.73	2.89	8.22	2.00	2.00	0.00	
1,500.00	10.00	174.05	1,497.47	-43.29	4.51	12.84	2.00	2.00	0.00	
1,600.00	12.00	174.05	1,595.62	-62.27	6.49	18.47	2.00	2.00	0.00	
1,700.00	14.00	174.05	1,693.06	-84.64	8.82	25.10	2.00	2.00	0.00	
1,800.00	16.00	174.05	1,789.64	-110.38	11.51	32.73	2.00	2.00	0.00	
1,900.00	18.00	174.05	1,885.27	-139.46	14.54	41.36	2.00	2.00	0.00	
1,934.33	18.69	174.05	1,917.85	-150.20	15.66	44.54	2.00	2.00	0.00	
2,000.00	18.69	174.05	1,980.06	-171.13	17.84	50.75	0.00	0.00	0.00	
2,100.00	18.69	174.05	2,074.79	-203.00	21.16	60.20	0.00	0.00	0.00	
2,200.00	18.69	174.05	2,169.52	-234.86	24.48	69.65	0.00	0.00	0.00	
2,300.00	18.69	174.05	2,264.25	-266.73	27.80	79.10	0.00	0.00	0.00	
2,400.00	18.69	174.05	2,358.98	-298.60	31.13	88.55	0.00	0.00	0.00	
2,500.00	18.69	174.05	2,453.70	-330.46	34.45	98.00	0.00	0.00	0.00	
2,600.00	18.69	174.05	2,548.43	-362.33	37.77	107.45	0.00	0.00	0.00	
2,700.00	18.69	174.05	2,643.16	-394.19	41.09	116.90	0.00	0.00	0.00	
2,800.00	18.69	174.05	2,737.89	-426.06	44.41	126.35	0.00	0.00	0.00	
2,900.00	18.69	174.05	2,832.62	-457.93	47.74	135.80	0.00	0.00	0.00	
3,000.00	18.69	174.05	2,927.35	-489.79	51.06	145.25	0.00	0.00	0.00	
3,100.00	18.69	174.05	3,022.08	-521.66	54.38	154.70	0.00	0.00	0.00	
3,200.00	18.69	174.05	3,116.80	-553.53	57.70	164.15	0.00	0.00	0.00	
3,300.00	18.69	174.05	3,211.53	-585.39	61.02	173.60	0.00	0.00	0.00	
3,400.00	18.69	174.05	3,306.26	-617.26	64.35	183.05	0.00	0.00	0.00	
3,500.00	18.69	174.05	3,400.99	-649.13	67.67	192.50	0.00	0.00	0.00	
3,600.00	18.69	174.05	3,495.72	-680.99	70.99	201.95	0.00	0.00	0.00	
3,700.00	18.69	174.05	3,590.45	-712.86	74.31	211.40	0.00	0.00	0.00	
3,800.00	18.69	174.05	3,685.18	-744.73	77.63	220.85	0.00	0.00	0.00	
3,900.00	18.69	174.05	3,779.90	-776.59	80.95	230.30	0.00	0.00	0.00	
4,000.00	18.69	174.05	3,874.63	-808.46	84.28	239.75	0.00	0.00	0.00	
4,100.00	18.69	174.05	3,969.36	-840.33	87.60	249.20	0.00	0.00	0.00	
4,200.00	18.69	174.05	4,064.09	-872.19	90.92	258.65	0.00	0.00	0.00	
4,300.00	18.69	174.05	4,158.82	-904.06	94.24	268.10	0.00	0.00	0.00	
4,400.00	18.69	174.05	4,253.55	-935.92	97.56	277.55	0.00	0.00	0.00	
4,500.00	18.69	174.05	4,348.28	-967.79	100.89	287.00	0.00	0.00	0.00	
4,600.00	18.69	174.05	4,443.00	-999.66	104.21	296.45	0.00	0.00	0.00	
4,700.00	18.69	174.05	4,537.73	-1,031.52	107.53	305.90	0.00	0.00	0.00	
4,800.00	18.69	174.05	4,632.46	-1,063.39	110.85	315.35	0.00	0.00	0.00	
4,900.00	18.69	174.05	4,727.19	-1,095.26	114.17	324.80	0.00	0.00	0.00	
5,000.00	18.69	174.05	4,821.92	-1,127.12	117.49	334.25	0.00	0.00	0.00	
5,100.00	18.69	174.05	4,916.65	-1,158.99	120.82	343.70	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB @ 3023.00usft
Project:	EDDY COUNTY_DBW_NM_E	MD Reference:	RKB @ 3023.00usft
Site:	VALKYRIE FED COM	North Reference:	Grid
Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.00	18.69	174.05	5,011.38	-1,190.86	124.14	353.15	0.00	0.00	0.00	
5,300.00	18.69	174.05	5,106.10	-1,222.72	127.46	362.60	0.00	0.00	0.00	
5,400.00	18.69	174.05	5,200.83	-1,254.59	130.78	372.06	0.00	0.00	0.00	
5,500.00	18.69	174.05	5,295.56	-1,286.46	134.10	381.51	0.00	0.00	0.00	
5,600.00	18.69	174.05	5,390.29	-1,318.32	137.43	390.96	0.00	0.00	0.00	
5,700.00	18.69	174.05	5,485.02	-1,350.19	140.75	400.41	0.00	0.00	0.00	
5,800.00	18.69	174.05	5,579.75	-1,382.06	144.07	409.86	0.00	0.00	0.00	
5,900.00	18.69	174.05	5,674.47	-1,413.92	147.39	419.31	0.00	0.00	0.00	
6,000.00	18.69	174.05	5,769.20	-1,445.79	150.71	428.76	0.00	0.00	0.00	
6,100.00	18.69	174.05	5,863.93	-1,477.65	154.04	438.21	0.00	0.00	0.00	
6,200.00	18.69	174.05	5,958.66	-1,509.52	157.36	447.66	0.00	0.00	0.00	
6,300.00	18.69	174.05	6,053.39	-1,541.39	160.68	457.11	0.00	0.00	0.00	
6,400.00	18.69	174.05	6,148.12	-1,573.25	164.00	466.56	0.00	0.00	0.00	
6,500.00	18.69	174.05	6,242.85	-1,605.12	167.32	476.01	0.00	0.00	0.00	
6,600.00	18.69	174.05	6,337.57	-1,636.99	170.64	485.46	0.00	0.00	0.00	
6,700.00	18.69	174.05	6,432.30	-1,668.85	173.97	494.91	0.00	0.00	0.00	
6,800.00	18.69	174.05	6,527.03	-1,700.72	177.29	504.36	0.00	0.00	0.00	
6,839.33	18.69	174.05	6,564.29	-1,713.25	178.59	508.07	0.00	0.00	0.00	
6,900.00	18.08	174.05	6,621.86	-1,732.28	180.58	513.72	1.00	-1.00	0.00	
7,000.00	17.08	174.05	6,717.19	-1,762.32	183.71	522.63	1.00	-1.00	0.00	
7,100.00	16.08	174.05	6,813.03	-1,790.71	186.67	531.04	1.00	-1.00	0.00	
7,200.00	15.08	174.05	6,909.36	-1,817.42	189.45	538.96	1.00	-1.00	0.00	
7,300.00	14.08	174.05	7,006.13	-1,842.46	192.06	546.39	1.00	-1.00	0.00	
7,400.00	13.08	174.05	7,103.34	-1,865.81	194.50	553.32	1.00	-1.00	0.00	
7,500.00	12.08	174.05	7,200.94	-1,887.47	196.76	559.74	1.00	-1.00	0.00	
7,600.00	11.08	174.05	7,298.90	-1,907.44	198.84	565.66	1.00	-1.00	0.00	
7,700.00	10.08	174.05	7,397.20	-1,925.70	200.74	571.08	1.00	-1.00	0.00	
7,800.00	9.08	174.05	7,495.80	-1,942.25	202.47	575.98	1.00	-1.00	0.00	
7,900.00	8.08	174.05	7,594.68	-1,957.09	204.01	580.38	1.00	-1.00	0.00	
8,000.00	7.08	174.05	7,693.81	-1,970.21	205.38	584.28	1.00	-1.00	0.00	
8,100.00	6.08	174.05	7,793.15	-1,981.61	206.57	587.66	1.00	-1.00	0.00	
8,200.00	5.08	174.05	7,892.67	-1,991.28	207.58	590.52	1.00	-1.00	0.00	
8,300.00	4.08	174.05	7,992.35	-1,999.22	208.40	592.88	1.00	-1.00	0.00	
8,400.00	3.08	174.05	8,092.15	-2,005.43	209.05	594.72	1.00	-1.00	0.00	
8,500.00	2.08	174.05	8,192.05	-2,009.91	209.52	596.05	1.00	-1.00	0.00	
8,600.00	1.08	174.05	8,292.01	-2,012.65	209.80	596.86	1.00	-1.00	0.00	
8,700.00	0.08	174.05	8,392.01	-2,013.65	209.91	597.16	1.00	-1.00	0.00	
8,707.99	0.00	0.01	8,400.00	-2,013.66	209.91	597.16	1.00	-1.00	0.00	
8,730.53	0.00	0.01	8,422.54	-2,013.66	209.91	597.16	0.00	0.00	0.00	
8,800.00	8.34	89.92	8,491.76	-2,013.65	214.95	602.11	12.00	12.00	0.00	
8,900.00	20.34	89.92	8,588.47	-2,013.62	239.67	626.35	12.00	12.00	0.00	
9,000.00	32.34	89.92	8,677.93	-2,013.56	283.95	669.77	12.00	12.00	0.00	
9,100.00	44.34	89.92	8,756.22	-2,013.47	345.87	730.49	12.00	12.00	0.00	
9,200.00	56.34	89.92	8,819.93	-2,013.36	422.70	805.84	12.00	12.00	0.00	
9,300.00	68.34	89.92	8,866.28	-2,013.24	511.11	892.54	12.00	12.00	0.00	
9,400.00	80.34	89.92	8,893.23	-2,013.11	607.22	986.79	12.00	12.00	0.00	
9,480.53	90.00	89.92	8,900.01	-2,012.99	687.37	1,065.40	12.00	12.00	0.00	
9,500.00	90.00	89.92	8,900.01	-2,012.97	706.84	1,084.49	0.00	0.00	0.00	
9,600.00	90.00	89.92	8,900.01	-2,012.83	806.84	1,182.55	0.00	0.00	0.00	
9,700.00	90.00	89.92	8,900.01	-2,012.69	906.84	1,280.62	0.00	0.00	0.00	
9,800.00	90.00	89.92	8,900.01	-2,012.55	1,006.84	1,378.69	0.00	0.00	0.00	
9,900.00	90.00	89.92	8,900.01	-2,012.41	1,106.84	1,476.75	0.00	0.00	0.00	
10,000.00	90.00	89.92	8,900.01	-2,012.27	1,206.84	1,574.82	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB @ 3023.00usft
Project:	EDDY COUNTY_DBW_NM_E	MD Reference:	RKB @ 3023.00usft
Site:	VALKYRIE FED COM	North Reference:	Grid
Well:	_VALKYRIE FED COM 551H	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)	
10,100.00	90.00	89.92	8,900.01	-2,012.13	1,306.84	1,672.89	0.00	0.00	0.00	
10,200.00	90.00	89.92	8,900.01	-2,011.99	1,406.84	1,770.96	0.00	0.00	0.00	
10,300.00	90.00	89.92	8,900.01	-2,011.85	1,506.84	1,869.02	0.00	0.00	0.00	
10,400.00	90.00	89.92	8,900.01	-2,011.71	1,606.84	1,967.09	0.00	0.00	0.00	
10,500.00	90.00	89.92	8,900.01	-2,011.57	1,706.84	2,065.16	0.00	0.00	0.00	
10,600.00	90.00	89.92	8,900.01	-2,011.43	1,806.84	2,163.22	0.00	0.00	0.00	
10,700.00	90.00	89.92	8,900.01	-2,011.29	1,906.84	2,261.29	0.00	0.00	0.00	
10,800.00	90.00	89.92	8,900.01	-2,011.15	2,006.84	2,359.36	0.00	0.00	0.00	
10,900.00	90.00	89.92	8,900.01	-2,011.01	2,106.84	2,457.42	0.00	0.00	0.00	
11,000.00	90.00	89.92	8,900.01	-2,010.87	2,206.84	2,555.49	0.00	0.00	0.00	
11,100.00	90.00	89.92	8,900.01	-2,010.73	2,306.84	2,653.56	0.00	0.00	0.00	
11,200.00	90.00	89.92	8,900.01	-2,010.59	2,406.84	2,751.63	0.00	0.00	0.00	
11,300.00	90.00	89.92	8,900.01	-2,010.45	2,506.84	2,849.69	0.00	0.00	0.00	
11,400.00	90.00	89.92	8,900.01	-2,010.31	2,606.84	2,947.76	0.00	0.00	0.00	
11,500.00	90.00	89.92	8,900.01	-2,010.17	2,706.84	3,045.83	0.00	0.00	0.00	
11,600.00	90.00	89.92	8,900.01	-2,010.03	2,806.84	3,143.89	0.00	0.00	0.00	
11,700.00	90.00	89.92	8,900.01	-2,009.89	2,906.84	3,241.96	0.00	0.00	0.00	
11,800.00	90.00	89.92	8,900.01	-2,009.75	3,006.84	3,340.03	0.00	0.00	0.00	
11,900.00	90.00	89.92	8,900.01	-2,009.62	3,106.84	3,438.09	0.00	0.00	0.00	
12,000.00	90.00	89.92	8,900.01	-2,009.48	3,206.84	3,536.16	0.00	0.00	0.00	
12,100.00	90.00	89.92	8,900.01	-2,009.34	3,306.84	3,634.23	0.00	0.00	0.00	
12,200.00	90.00	89.92	8,900.01	-2,009.20	3,406.84	3,732.30	0.00	0.00	0.00	
12,300.00	90.00	89.92	8,900.01	-2,009.06	3,506.84	3,830.36	0.00	0.00	0.00	
12,400.00	90.00	89.92	8,900.01	-2,008.92	3,606.84	3,928.43	0.00	0.00	0.00	
12,500.00	90.00	89.92	8,900.01	-2,008.78	3,706.84	4,026.50	0.00	0.00	0.00	
12,600.00	90.00	89.92	8,900.01	-2,008.64	3,806.84	4,124.56	0.00	0.00	0.00	
12,700.00	90.00	89.92	8,900.01	-2,008.50	3,906.84	4,222.63	0.00	0.00	0.00	
12,800.00	90.00	89.92	8,900.01	-2,008.36	4,006.84	4,320.70	0.00	0.00	0.00	
12,900.00	90.00	89.92	8,900.01	-2,008.22	4,106.84	4,418.76	0.00	0.00	0.00	
13,000.00	90.00	89.92	8,900.01	-2,008.08	4,206.84	4,516.83	0.00	0.00	0.00	
13,100.00	90.00	89.92	8,900.01	-2,007.94	4,306.84	4,614.90	0.00	0.00	0.00	
13,200.00	90.00	89.92	8,900.01	-2,007.80	4,406.84	4,712.97	0.00	0.00	0.00	
13,300.00	90.00	89.92	8,900.01	-2,007.66	4,506.84	4,811.03	0.00	0.00	0.00	
13,400.00	90.00	89.92	8,900.01	-2,007.52	4,606.84	4,909.10	0.00	0.00	0.00	
13,500.00	90.00	89.92	8,900.01	-2,007.38	4,706.84	5,007.17	0.00	0.00	0.00	
13,600.00	90.00	89.92	8,900.01	-2,007.24	4,806.84	5,105.23	0.00	0.00	0.00	
13,700.00	90.00	89.92	8,900.01	-2,007.10	4,906.84	5,203.30	0.00	0.00	0.00	
13,800.00	90.00	89.92	8,900.01	-2,006.96	5,006.84	5,301.37	0.00	0.00	0.00	
13,900.00	90.00	89.92	8,900.01	-2,006.82	5,106.84	5,399.43	0.00	0.00	0.00	
14,000.00	90.00	89.92	8,900.01	-2,006.68	5,206.84	5,497.50	0.00	0.00	0.00	
14,100.00	90.00	89.92	8,900.01	-2,006.54	5,306.84	5,595.57	0.00	0.00	0.00	
14,200.00	90.00	89.92	8,900.01	-2,006.40	5,406.84	5,693.64	0.00	0.00	0.00	
14,300.00	90.00	89.92	8,900.01	-2,006.26	5,506.84	5,791.70	0.00	0.00	0.00	
14,400.00	90.00	89.92	8,900.01	-2,006.12	5,606.84	5,889.77	0.00	0.00	0.00	
14,500.00	90.00	89.92	8,900.01	-2,005.98	5,706.84	5,987.84	0.00	0.00	0.00	
14,600.00	90.00	89.92	8,900.01	-2,005.85	5,806.84	6,085.90	0.00	0.00	0.00	
14,630.53	90.00	89.92	8,900.01	-2,005.80	5,837.37	6,115.85	0.00	0.00	0.00	
14,700.00	90.00	91.31	8,900.01	-2,006.55	5,906.83	6,184.13	2.00	0.00	2.00	
14,720.53	90.00	91.72	8,900.01	-2,007.09	5,927.36	6,204.37	2.00	0.00	2.00	
14,800.00	90.00	91.72	8,900.01	-2,009.48	6,006.79	6,282.75	0.00	0.00	0.00	
14,900.00	90.00	91.72	8,900.01	-2,012.48	6,106.74	6,381.38	0.00	0.00	0.00	
15,000.00	90.00	91.72	8,900.01	-2,015.48	6,206.70	6,480.02	0.00	0.00	0.00	
15,100.00	90.00	91.72	8,900.01	-2,018.48	6,306.65	6,578.65	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB @ 3023.00usft
Project:	EDDY COUNTY_DBW_NM_E	MD Reference:	RKB @ 3023.00usft
Site:	VALKYRIE FED COM	North Reference:	Grid
Well:	_VALKYRIE FED COM 551H	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)	
15,200.00	90.00	91.72	8,900.01	-2,021.48	6,406.61	6,677.28	0.00	0.00	0.00	
15,300.00	90.00	91.72	8,900.01	-2,024.48	6,506.56	6,775.92	0.00	0.00	0.00	
15,400.00	90.00	91.72	8,900.01	-2,027.48	6,606.52	6,874.55	0.00	0.00	0.00	
15,500.00	90.00	91.72	8,900.01	-2,030.49	6,706.47	6,973.18	0.00	0.00	0.00	
15,600.00	90.00	91.72	8,900.01	-2,033.49	6,806.43	7,071.82	0.00	0.00	0.00	
15,700.00	90.00	91.72	8,900.01	-2,036.49	6,906.38	7,170.45	0.00	0.00	0.00	
15,800.00	90.00	91.72	8,900.01	-2,039.49	7,006.34	7,269.08	0.00	0.00	0.00	
15,900.00	90.00	91.72	8,900.01	-2,042.49	7,106.29	7,367.72	0.00	0.00	0.00	
16,000.00	90.00	91.72	8,900.01	-2,045.49	7,206.25	7,466.35	0.00	0.00	0.00	
16,100.00	90.00	91.72	8,900.01	-2,048.50	7,306.20	7,564.98	0.00	0.00	0.00	
16,200.00	90.00	91.72	8,900.01	-2,051.50	7,406.16	7,663.62	0.00	0.00	0.00	
16,300.00	90.00	91.72	8,900.01	-2,054.50	7,506.11	7,762.25	0.00	0.00	0.00	
16,400.00	90.00	91.72	8,900.01	-2,057.50	7,606.07	7,860.88	0.00	0.00	0.00	
16,500.00	90.00	91.72	8,900.01	-2,060.50	7,706.02	7,959.52	0.00	0.00	0.00	
16,600.00	90.00	91.72	8,900.01	-2,063.50	7,805.98	8,058.15	0.00	0.00	0.00	
16,700.00	90.00	91.72	8,900.01	-2,066.50	7,905.93	8,156.78	0.00	0.00	0.00	
16,800.00	90.00	91.72	8,900.01	-2,069.51	8,005.89	8,255.41	0.00	0.00	0.00	
16,900.00	90.00	91.72	8,900.01	-2,072.51	8,105.84	8,354.05	0.00	0.00	0.00	
17,000.00	90.00	91.72	8,900.01	-2,075.51	8,205.80	8,452.68	0.00	0.00	0.00	
17,100.00	90.00	91.72	8,900.01	-2,078.51	8,305.75	8,551.31	0.00	0.00	0.00	
17,200.00	90.00	91.72	8,900.01	-2,081.51	8,405.71	8,649.95	0.00	0.00	0.00	
17,300.00	90.00	91.72	8,900.01	-2,084.51	8,505.66	8,748.58	0.00	0.00	0.00	
17,400.00	90.00	91.72	8,900.01	-2,087.52	8,605.61	8,847.21	0.00	0.00	0.00	
17,500.00	90.00	91.72	8,900.01	-2,090.52	8,705.57	8,945.85	0.00	0.00	0.00	
17,600.00	90.00	91.72	8,900.01	-2,093.52	8,805.52	9,044.48	0.00	0.00	0.00	
17,700.00	90.00	91.72	8,900.01	-2,096.52	8,905.48	9,143.11	0.00	0.00	0.00	
17,800.00	90.00	91.72	8,900.01	-2,099.52	9,005.43	9,241.75	0.00	0.00	0.00	
17,900.00	90.00	91.72	8,900.01	-2,102.52	9,105.39	9,340.38	0.00	0.00	0.00	
18,000.00	90.00	91.72	8,900.01	-2,105.52	9,205.34	9,439.01	0.00	0.00	0.00	
18,100.00	90.00	91.72	8,900.01	-2,108.53	9,305.30	9,537.65	0.00	0.00	0.00	
18,200.00	90.00	91.72	8,900.01	-2,111.53	9,405.25	9,636.28	0.00	0.00	0.00	
18,300.00	90.00	91.72	8,900.01	-2,114.53	9,505.21	9,734.91	0.00	0.00	0.00	
18,400.00	90.00	91.72	8,900.01	-2,117.53	9,605.16	9,833.55	0.00	0.00	0.00	
18,500.00	90.00	91.72	8,900.01	-2,120.53	9,705.12	9,932.18	0.00	0.00	0.00	
18,600.00	90.00	91.72	8,900.01	-2,123.53	9,805.07	10,030.81	0.00	0.00	0.00	
18,700.00	90.00	91.72	8,900.01	-2,126.53	9,905.03	10,129.45	0.00	0.00	0.00	
18,800.00	90.00	91.72	8,900.01	-2,129.54	10,004.98	10,228.08	0.00	0.00	0.00	
18,900.00	90.00	91.72	8,900.01	-2,132.54	10,104.94	10,326.71	0.00	0.00	0.00	
19,000.00	90.00	91.72	8,900.01	-2,135.54	10,204.89	10,425.35	0.00	0.00	0.00	
19,100.00	90.00	91.72	8,900.01	-2,138.54	10,304.85	10,523.98	0.00	0.00	0.00	
19,200.00	90.00	91.72	8,900.01	-2,141.54	10,404.80	10,622.61	0.00	0.00	0.00	
19,300.00	90.00	91.72	8,900.01	-2,144.54	10,504.76	10,721.25	0.00	0.00	0.00	
19,400.00	90.00	91.72	8,900.01	-2,147.55	10,604.71	10,819.88	0.00	0.00	0.00	
19,500.00	90.00	91.72	8,900.01	-2,150.55	10,704.67	10,918.51	0.00	0.00	0.00	
19,600.00	90.00	91.72	8,900.01	-2,153.55	10,804.62	11,017.15	0.00	0.00	0.00	
19,680.00	90.00	91.72	8,900.01	-2,155.95	10,884.59	11,096.05	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALKYRIE FED COM 551H - Slot SLOT 5
Company:	DELAWARE BASIN WEST	TVD Reference:	RKB @ 3023.00usft
Project:	EDDY COUNTY_DBW_NM_E	MD Reference:	RKB @ 3023.00usft
Site:	VALKYRIE FED COM	North Reference:	Grid
Well:	_VALKYRIE FED COM 551H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
- Shape										
FTP_VALKYRIE FED C - plan misses target center by 6.28usft at 9403.25usft MD (8893.76 TVD, -2013.10 N, 610.43 E) - Circle (radius 50.00)	0.00	0.00	8,900.00	-2,013.66	609.91	477,937.78	587,937.88	32° 18' 49.127 N	104° 2' 55.267 W	
PBHL_VALKYRIE FED C - plan misses target center by 140.42usft at 19680.00usft MD (8900.00 TVD, -2155.95 N, 10884.59 E) - Rectangle (sides W100.00 H5,127.00 D20.00)	0.00	271.72	8,900.00	-2,160.47	11,024.93	477,790.97	598,352.90	32° 18' 47.384 N	104° 0' 53.908 W	
POI1_VALKYRIE FED C - plan misses target center by 0.16usft at 14693.07usft MD (8900.00 TVD, -2006.40 N, 5899.90 E) - Rectangle (sides W100.00 H5,290.00 D20.00)	0.00	269.92	8,900.00	-2,006.56	5,899.90	477,944.88	593,227.87	32° 18' 49.054 N	104° 1' 53.623 W	
LTP_VALKYRIE FED C - plan misses target center by 90.29usft at 19680.00usft MD (8900.00 TVD, -2155.95 N, 10884.59 E) - Circle (radius 50.00)	90.00	91.72	8,900.00	-2,158.94	10,974.83	477,792.50	598,302.80	32° 18' 47.400 N	104° 0' 54.492 W	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
19,680.01	8,900.01	5-1/2" Production Casing	5-1/2	6-3/4	

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 547618

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 547618
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	3/17/2026