State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Melanie A. Kenderdine
Cabinent Secretary

Ben Shelton
Deputy Secretary

Erin Taylor
Deputy Secretary

Albert C.S. Chang
Division Director
Oil Conservation Division

ADMINISTRATIVE NON-STANDARD LOCATION

Stan Wagner
stan.s.wagner@conocophillips.com

Administrative Order NSL – 9138

Marathon Oil Permian, LLC [OGRID 372098]
Chaos WC Federal Com Well No. 700H
API No. 30-015-55632

Reference is made to your application received on October 1st, 2025.

Proposed Location

	Footages	Unit/Lot	Sec.	Twsp	Range	County
Surface	872 FNL & 440 FEL	A	34	22S	28E	Eddy
First Take Point	330 FNL & 330 FEL	A	34	22S	28E	Eddy
Last Take Point	330 FNL & 330 FWL	D	32	22S	28E	Eddy
Terminus	330 FNL & 200 FWL	D	32	22S	28E	Eddy

Proposed Horizontal Units

Description	Acres	Pool	Pool Code
Section 34	1920	Purple Sage; Wolfcamp	98220
Section 33			
Section 32			

You have requested to complete this horizontal well described above in the referenced pool or formation. This well is governed by special rules R-14262, for the Purple Sage; Wolfcamp (Gas) Pool and governs wells to be located at least 330 feet from the unit outer boundary of a spacing unit and no closer than 10 feet to any quarter – quarter section line. The completed intervals of horizontal wells are to be located no closer than 330 feet to the exterior boundary of a standard 320 - acre spacing unit.

Released to Imaging: 1/7/2026 10:36:21 AM

The request to deviate from an orthodox location has met all requirements of 19.15.16.15 (C)(5)(a) NMAC. It is understood that you are seeking this exception in order to create a non-standard location, comprised of First and Last Take Points referenced above within the described Horizontal Spacing Unit.

The request to deviate from an orthodox location has met all requirements of 19.15.16.15 (C)(5)(a) NMAC. It is understood that you are seeking this exception in order to create a non-standard location, comprised of Take Points referenced above, within the described Horizontal Spacing Unit.

This well's completed interval is as close as 265 feet to the northern edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 28, encroachment to the SW/4

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in 19.15.2.7(A)(8) NMAC, in all adjoining units towards which the proposed location encroaches.

The Division understands you are seeking this unorthodox location for anticollision purposes in avoiding an existing vertical well within the wells drill path. Approval will allow for efficient spacing of horizontal wells within the Wolfcamp formation underlying all of Section 34, all of Section 33 and all of Section 32, thereby maximizing recovery of resources and preventing waste.

Your application has been filed under 19.15.16.15(C)(6) NMAC, 19.15.15.13 NMAC and 19.15.4.12 (A)(2) NMAC.

Per 19.15.15.13 (B) NMAC, **Division approves this unorthodox location**.

Reference this NSL order number on the As Drilled C-102 submitted with the Authorization to Transport, to place this well into production.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as the Division deems necessary.

Albert Chang

Albert C.S. Chang
Division Director
AC/lrl

Date: 1/5/2026

Revised March 23, 2017

ID NO. 511095

NSL - 9138

RECEIVED: 10/01/25	REVIEWER:	TYPE:	APP NO:

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & Engineering Bureau –
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: _____ **OGRID Number:** _____
Well Name: _____ **API:** _____
Pool: _____ **Pool Code:** _____

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP(PROJECT AREA) ☐ NSP(PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☐ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☐ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☐ Notification and/or concurrent approval by BLM
F. ☐ Surface owner
G. ☐ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

_____ Date

_____ Print or Type Name

_____ Phone Number

Stan Wagner
_____ Signature

_____ e-mail Address

Stan Wagner
Regulatory Advisor
600 West Illinois Avenue
Midland, TX 79701
phone 432.253.9685
stan.s.wagner@conocophillips.com

ConocoPhillips

October 1, 2025

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: Application for Administrative Approval of Non-Standard Location
Chaos WC Federal Com 700H

Dear Mr. Lowe:

Marathon Oil Permian LLC, a subsidiary of ConocoPhillips Company, requests administrative approval of a non-standard location for the Chaos WC Federal Com 700H, API number 30-015-53642. The 700H well is proposed to be completed in the Purple Sage; Wolfcamp (Gas) pool, Pool Code 98220. This pool has rules specifying the completed interval must be located 330 feet from the exterior boundary of the applicable spacing unit.

Approval of the non-standard completed interval will allow for efficient spacing of horizontal wells and thereby prevent waste.

The proposed completed interval is projected as follows:

Surface Location -	872' FNL & 440' FEL UL A Sec. 34-22S-28E Eddy County, NM
First Take Point -	330' FNL & 330' FEL UL A Sec. 34-22S-28E
Closest Take Point-	265' FNL Anticollision deviation of lateral
Last Point -	330' FNL & 330' FWL UL D Sec. 32-22S-28E
Bottom Hole -	330' FNL & 200' FWL UL D Sec. 32-22S-28E
Proposed Pool-	Purple Sage; Wolfcamp (Gas) (Pool Code 98220)

The well path is projected to be less than 330' from the outer boundary of the NWNW of Section 33.

This will be a horizontal gas completion.

The Horizontal Spacing Unit will be 1920 acres, all of Sec 32, all of Sec 33, all of Sec. 34-22S-28E as shown on the enclosed C-102. The HSU defining well for this spacing unit is 701H, 30-015-53642.

Waiver agreement letter enclosed.

If additional information is needed, please contact me at 432-253-9685 or email at swagner@conocophillips.com.

Sincerely,

Stan Wagner
Regulatory Advisor

ConocoPhillips
COG Operating LLC

Jeffrey S. Stout
Staff Land Negotiator
ConocoPhillips Company – Permian Business Unit
600 W. Illinois Ave.
Midland, TX 79701
Phone 432.688.9120
Jeff.s.stout@conocophillips.com

July 10, 2025

ATTN: Ethan Frasier
MRC Permian Company
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Reference: Non-Standard Location – Chaos Federal Com #700H
S/2 Sections 34, 33, 32, T22S-R28E (the "Lands")
Eddy County, New Mexico

Dear Ethan,

This letter ("Agreement") sets forth the agreement of ConocoPhillips Company ("COPC") and MRC Permian Company ("MRC") regarding COPC's request for a waiver of the non-standard location of the Chaos Federal Com #700H (API: 30-015-55631) (the "Well"). The Well will require steering around an existing vertical well (Harroun Com #2, API: 30-015-32808) for anticollision purposes. As a result of the anticollision well steering, a portion of the Well would be slightly outside of the fifty (50) foot tolerance of 330' FNL of Section 33, T22S-R28E, being approximately 265' FNL as seen on Exhibit "A" attached hereto.

In addressing this request, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, COPC and MRC agree as follows:

1. MRC hereby waives, and agrees to formally waive, any objection to the non-standard location of the Well, to the extent it is substantially similar to the wellbore path shown on Exhibit A; provided, however, COPC will use reasonable good faith efforts to minimize the portion of the wellbore that is closer to the North line of Section 33 than a standard well location and that in no event will (i) the wellbore be closer than 225' FNL of Section 33, and (ii) the portion of the wellbore closer than the 50' foot tolerance exceed 606' of wellbore length.

2. COPC will promptly provide MRC (free of cost) with all information concerning the non-standard location and drilling plan for the Well, including the following to the extent the same is necessary for the purposes of anti-collision of any future wells drilled by COPC or MRC:

    - Directional surveys, and
    - As-drilled plats and final survey.

    MRC shall maintain such well information as confidential and shall not disclose such well information to any third parties without COPC's prior written consent.

3. If any breach of this Agreement by a party occurs or is anticipated to occur, the other party is entitled to immediate relief, whether at law or equity, including without limitation a preliminary injunction.

4. The parties may neither assign any right nor delegate any obligation under this Agreement without the express written consent of the other party to this Agreement, which may be withheld for any reason, including convenience. Any attempted assignment of this Agreement in breach of this provision will be void. The agreement herein shall be binding on COPC and MRC or any subsidiary, and such agreements are not personal in nature.

No amendment to this Agreement is effective unless made in writing and signed by authorized representatives of both parties. This Agreement comprises the complete and exclusive agreement between the parties concerning this Agreement and supersedes all oral and written communications, negotiations, representations, or agreements in relation to that subject matter made or entered into before this Agreement is executed and effective. This Agreement is governed by and interpreted under the laws of New Mexico without regard to its choice of law rules. This Agreement may be executed in any number of counterparts, each of which will be deemed an original of this Letter Agreement, and which together will constitute one and the same instrument.

If you have no objection to the granting of this waiver, please so indicate by signing below and returning a copy of this letter to the attention of the undersigned by email to jeff.s.stout@concophillips.com and send an executed original by USPS mail to the above address.

Sincerely,

Jeffrey S. Stout
Staff Land Negotiator

AGREED TO AND ACCEPTED THIS 21 DAY OF JULY, 2025.

MRC Permian Company

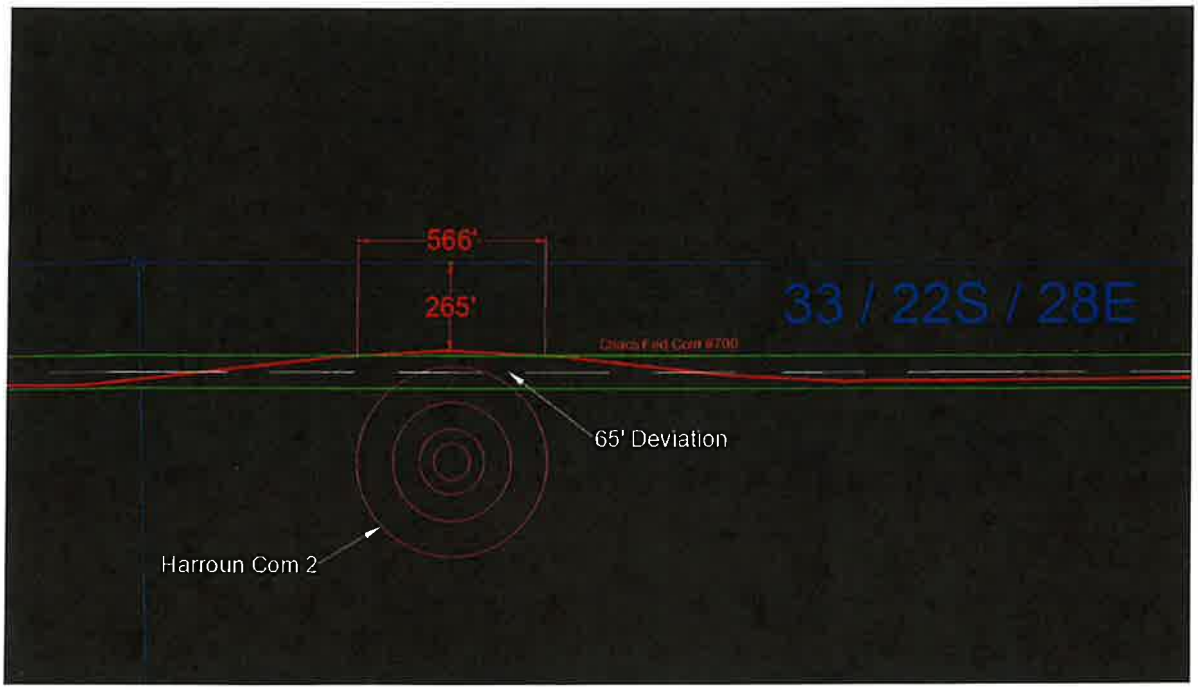
By: _____ KF BF
Name: Jonathan Filbert
Title: Executive Vice President of Land

AGREED TO AND ACCEPTED THIS 21 DAY OF July, 2025.

ConocoPhillips Company

By: _____
Name: Ryan D. Owen
Title: Attorney-in-Fact

EXHIBIT "A"



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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015-55632	98220	Purple Sage; Wolfcamp (Gas)	
Property Code	Property Name		Well Number
	CHAOS WC FEDERAL COM		700H
OGRID No.	Operator Name		Ground Level Elevation
372098	MARATHON OIL PERMIAN LLC		3,071'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal		Mineral Owner: ☑ State ☑ Fee ☐ Tribal ☑ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	34	22S	28E		872' FNL	440' FEL	32.354076°	-104.068335°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	32	22S	28E		330' FNL	200' FWL	32.355399°	-104.117171°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1920	Infill	30-015-53642		Com
Order Numbers. R-22673-A			Well setbacks are under Common Ownership: ☒Yes ☐No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	35	22S	28E		327' FNL	147' FWL	32.355579°	-104.066482°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	34	22S	28E		330' FNL	330' FEL	32.355567°	-104.068027°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	32	22S	28E		330' FNL	330' FWL	32.355404°	-104.116750°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARK MURRAY NEW MEXICO 12177 REGISTERED PROFESSIONAL SURVEYOR

Date: 7/23/2025

Signature	Date	Signature and Seal of Professional Surveyor
Stan Wagner	7/31/25	
Printed Name: Stan Wagner	Certificate Number: 12177	Date of Survey: 7/23/2025
Email Address		

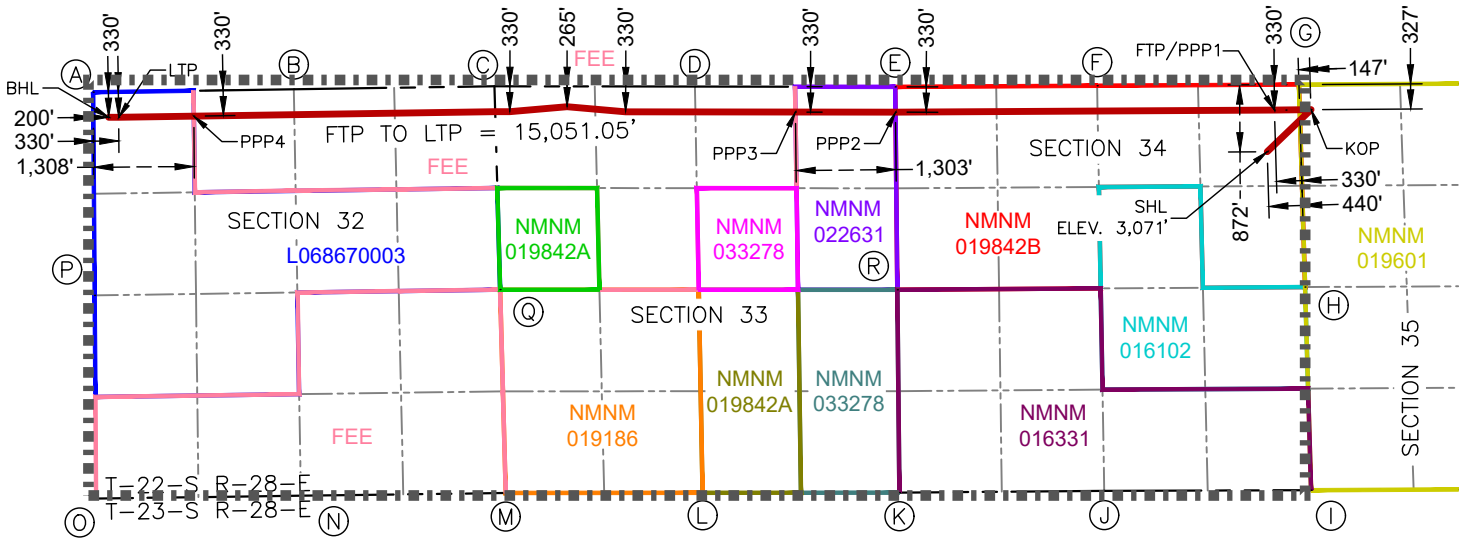
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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

CHAOS WC FEDERAL COM #700H

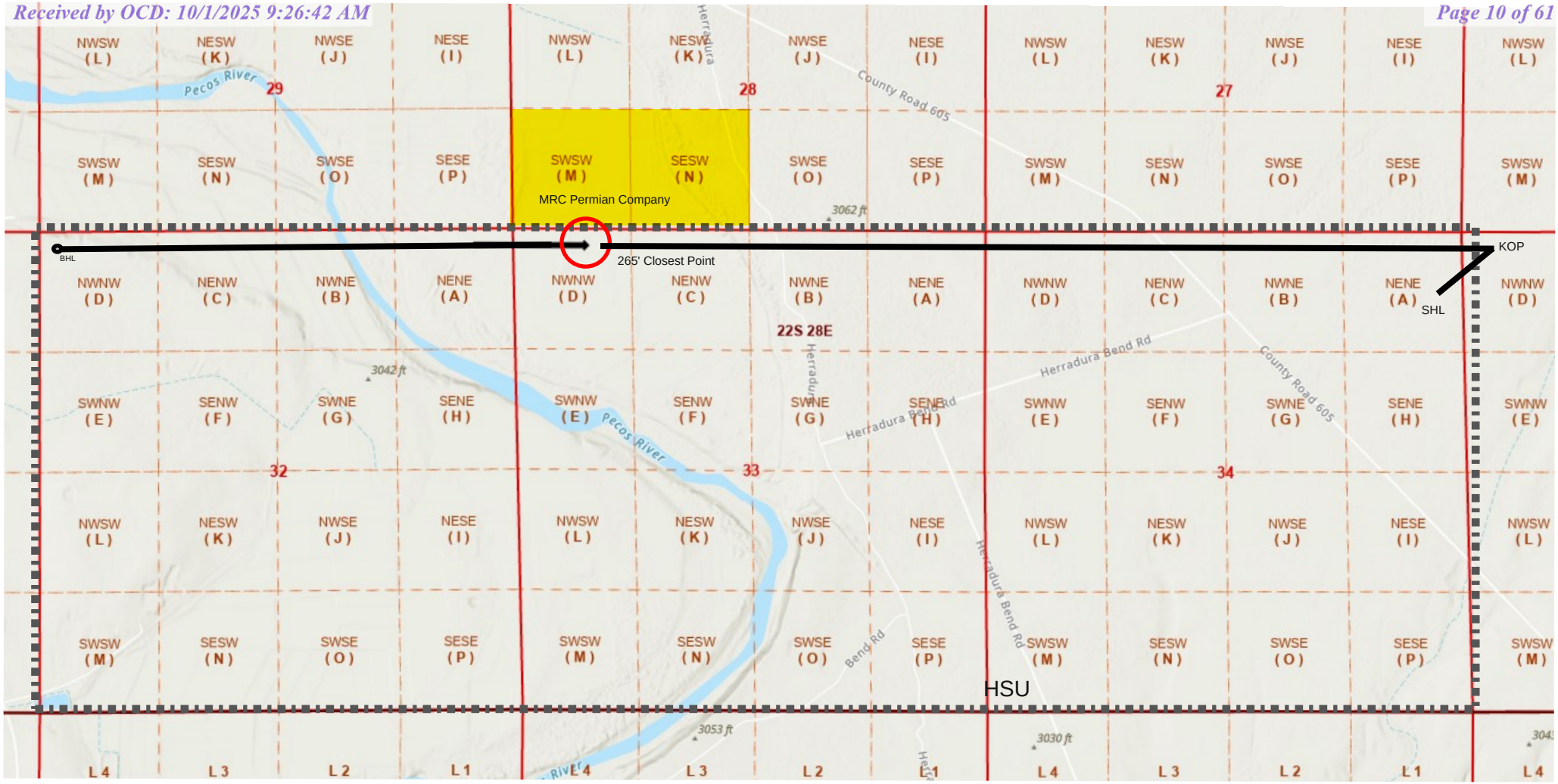


SURFACE HOLE LOCATION 872' FNL & 440' FEL ELEV.=3,071'	KICK-OFF POINT 327' FNL & 147' FWL	FIRST TAKE POINT & PENETRATION POINT 1 330' FNL & 330' FEL	PENETRATION POINT 2 330' FNL & 0' FEL
NAD 83 X = 623,166.66' NAD 83 Y = 492,645.88' NAD 83 LAT = 32.354076° NAD 83 LONG = -104.068335°	NAD 83 X = 623,737.39' NAD 83 Y = 493,194.12' NAD 83 LAT = 32.355579° NAD 83 LONG = -104.066482°	NAD 83 X = 623,260.35' NAD 83 Y = 493,188.42' NAD 83 LAT = 32.355567° NAD 83 LONG = -104.068027°	NAD 83 X = 618,328.44' NAD 83 Y = 493,160.55' NAD 83 LAT = 32.355522° NAD 83 LONG = -104.083999°

PENETRATION POINT 3 330' FNL & 1,303' FEL	PENETRATION POINT 4 330' FNL & 1,308' FWL	LAST TAKE POINT 330' FNL & 330' FWL	BOTTOM HOLE LOCATION 330' FNL & 200' FWL
NAD 83 X = 617,025.53' NAD 83 Y = 493,162.35' NAD 83 LAT = 32.355536° NAD 83 LONG = -104.088219°	NAD 83 X = 609,193.29' NAD 83 Y = 493,109.87' NAD 83 LAT = 32.355438° NAD 83 LONG = -104.113584°	NAD 83 X = 608,215.42' NAD 83 Y = 493,095.44' NAD 83 LAT = 32.355404° NAD 83 LONG = -104.116750°	NAD 83 X = 608,085.43' NAD 83 Y = 493,093.53' NAD 83 LAT = 32.355399° NAD 83 LONG = -104.117171°

CORNER COORDINATES
NEW MEXICO EAST - NAD 83

A	IRON PIPE W/BRASS CAP N:493,420.58' E:607,883.07'	F	IRON ROD W/BRASS CAP N:493,505.38' E:620,952.79'	K	IRON PIPE W/BRASS CAP N:488,208.65' E:618,378.75'	P	IRON PIPE W/BRASS CAP N:490,776.23' E:607,902.12'
B	CALCULATED CORNER N:493,459.10' E:610,495.39'	G	IRON PIPE W/BRASS CAP N:493,520.23' E:623,580.49'	L	IRON PIPE W/BRASS CAP N:488,206.12' E:615,816.14'	Q	IRON PIPE W/BRASS CAP N:490,850.60' E:613,180.62'
C	IRON ROD N:493,497.62' E:613,107.71'	H	IRON PIPE W/BRASS CAP N:490,884.16' E:623,659.98'	M	IRON PIPE W/BRASS CAP N:488,203.58' E:613,253.53'	R	IRON PIPE W/BRASS CAP N:490,849.59' E:618,351.92'
D	IRON ROD W/BRASS CAP N:493,494.08' E:615,716.40'	I	IRON PIPE W/BRASS CAP N:488,240.10' E:623,738.32'	N	CALCULATED CORNER N:488,167.73' E:610,587.35'		
E	IRON PIPE W/BRASS CAP N:493,490.53' E:618,325.09'	J	PIPELINE ROW N:488,231.32' E:621,045.95'	O	IRON PIPE W/BRASS CAP N:488,131.88' E:607,921.17'		



Offset Affected Party Map

Received by OCD: 10/1/2025 9:26:42 AM

Well Name: CHAOS WC FEDERAL COM

Well Location: T22S / R28E / SEC 34 / NENE / 32.3540755 / -104.0683341

County or Parish/State: EDDY / NM

Well Number: 803H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM19842B

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001555632

Operator: MARATHON OIL PERMIAN LLC

Notice of Intent

Sundry ID: 2866302

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 08/04/2025

Time Sundry Submitted: 09:08

Date proposed operation will begin: 08/01/2025

Procedure Description: Marathon Oil Permian LLC requests a change to our approved APD for this well to reflect a change in BHL. Change FROM: 1649’ FNL & 330’ FWL, 32-22S-28E Change TO: 330’ FNL & 200’ FWL, NWNW 32-22S-28E, Eddy Co., NM. Additionally, Marathon requests permission for an offline bradenhead contingency, a break testing variance, and the ability to batch drill the Chaos WC Federal Com project. Revised C-102s, directional plans, and drill procedures attached.

NOI Attachments

Procedure Description

Project_TVDs_20250826132836.pdf

TXP__BTC_5.500_0.415_P110_CY_02202022_20250826132704.pdf

10.75_45.5__J_55_BTC_Spec._Sheet_20250826132704.pdf

COP_BOP_Break_Testing_Documentation_6_07_23_20250826132704.pdf

Wedge_441__5.500_0.415_P110_CY_02202022_20250826132704.pdf

Recommended_COP_Bradenhead_Procedure_20250826132704.pdf

Wedge_513__7.625_0.375_P110_ICY_02202022_20250826132704.pdf

API_BTC_7.625_0.375_L80_ICY_01052024_20250826132703.pdf

CHAOS_FEDERAL_COM_700H_signed_7_31_25_20250826132629.pdf

Released to Imaging: 1/7/2026 10:36:21 AM

Well Name: CHAOS WC FEDERAL COM

Well Location: T22S / R28E / SEC 34 / NENE / 32.3540755 / -104.0683341

County or Parish/State: EDDY / NM

Well Number: 803H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM19842B

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001555632

Operator: MARATHON OIL PERMIAN LLC

CHAOS_FEDERAL_COM_700H_PWP1_PERMIT_PLOT_20250826132629.pdf

CHAOS_WC_FEDERAL_COM_700H_drilling_procedure_8_4_25_20250826132629.pdf

CHAOS_FEDERAL_COM_700H_PWP1_AC_RPT_20250826132629.pdf

Conditions of Approval

Additional

SEC34_T22S_R28E_CHAOS_FED_COM_Lea__CONOCOPHILLIPS_COMPANY_45930_JS_20250930102933.pdf

SEC34_T22S_R28E_CHAOS_FED_COM_Lea__CONOCOPHILLIPS_COMPANY_45930_JS_B_20250930102933.pdf

CHAOS_FED_COM_700H_COAs_20250930102932.pdf

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: AUG 26, 2025 01:28 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: 09/30/2025

Signature: Chris Walls

Released to Imaging: 1/7/2026 10:36:21 AM

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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ 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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ 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 perfonned 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 detennined 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 OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

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Additional Information

Location of Well

0. SHL: NENE / 872 FNL / 440 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.3540755 / LONG: -104.0683341 (TVD: 0 feet, MD: 0 feet)

PPP: SENE / 1650 FNL / 330 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.3519383 / LONG: -104.0679091 (TVD: 9717 feet, MD: 9791 feet)

PPP: SWNW / 1681 FNL / 1297 FWL / TWSP: 22S / RANGE: 28E / SECTION: 33 / LAT: 32.3518464 / LONG: -104.0965657 (TVD: 10290 feet, MD: 18250 feet)

PPP: SWNE / 1650 FNL / 1324 FEL / TWSP: 22S / RANGE: 28E / SECTION: 34 / LAT: 32.3519283 / LONG: -104.0711282 (TVD: 10290 feet, MD: 10700 feet)

PPP: SENE / 1652 FNL / 0 FEL / TWSP: 22S / RANGE: 28E / SECTION: 33 / LAT: 32.3518875 / LONG: -104.0840054 (TVD: 10290 feet, MD: 14200 feet)

PPP: SWNE / 1662 FNL / 1291 FEL / TWSP: 22S / RANGE: 28E / SECTION: 33 / LAT: 32.3515739 / LONG: -104.0881859 (TVD: 10290 feet, MD: 15600 feet)

BHL: SWNW / 1649 FNL / 330 FWL / TWSP: 22S / RANGE: 28E / SECTION: 32 / LAT: 32.3235179 / LONG: -104.1167283 (TVD: 10290 feet, MD: 25474 feet)

CONFIDENTIAL

SEC34-T22S-R28E_CHAOS FED COM_Lea__CONOCOPHILLIPS COMPANY_45930_JS

CHAOS FED COM

10 3/4	surface csg in a	14 3/4	inch hole.			Design Factors			Surface			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50	J 55	BTC	47.64	13.85	0.75	330	24	1.29	26.71	15,015
"B"			BTC				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500		Tail Cmt	does not	circ to sfc.		Totals:	330				15,015

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
14 3/4	0.5563	410	615	184	235	8.80	2770	3M	1.50

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK. Alt burst ok,

7 5/8	casing inside the	10 3/4				Design Factors			Int 1			
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	L 80	BTC	2.49	1.23	1.01	7,500	1	1.48	2.13	222,750
"B"	29.70	P 110	W-513	10.85	1.11	1.39	1,750	2	2.03	1.93	51,975
	w/8.4#/g mud, 30min Sfc Csg Test psig: 1,650						Totals:	9,250				274,725
	The cement volume(s) are intended to achieve a top of				0	ft from surface or a		330				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
9 7/8	0.2148	960	2681	1989	35	10.00	4659	5M	0.69
D V Tool(s):							sum of sx	Σ CuFt	Σ%excess
t by stage % :		#VALUE!	#VALUE!				960	2681	35

Class 'H' tail cmt yld > 1.20 MASP is within 10% of 5000psig, need exrta equip?

Keep Casing Full,

Tail cmt

5 1/2	casing inside the	7 5/8				Design Factors			Prod 1			
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	23.00	P 110	BTC	3.25	2.29	1.82	9,050	2	2.65	3.34	208,150
"B"	23.00	P 110	W-441	6.62	1.92	2.14	16,365	2	3.12	3.12	376,395
	w/8.4#/g mud, 30min Sfc Csg Test psig: 1,991						Totals:	25,415				584,545
	The cement volume(s) are intended to achieve a top of				9050	ft from surface or a		200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 3/4	0.0835	1800	2492	1369	82	13.50			0.35

Class 'C' tail cmt yld > 1.35

Clearance ok must tie back 500ft

#N/A

0		5 1/2				Design Factors			<Choose Casing>			
Segment	#/ft	Grade	Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"			0.00				0				0
"B"			0.00				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	0				0
	Cmt vol calc below includes this csg, TOC intended			#N/A		ft from surface or a		#N/A				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A				

#N/A Capitan Reef est top XXXX.

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SEC34-T22S-R28E_CHAOS FED COM_Lea__CONOCOPHILLIPS COMPANY_45930_JS B

CHAOS FED COM

13 3/8	surface csg in a	17 1/2	inch hole.		Design Factors			Surface				
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	54.50	J 55	BTC	47.44	7.49	0.57	330	19	0.99	14.44	17,985
"B"			BTC				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500		Tail Cmt	does not	circ to sfc.		Totals:	330				17,985

Comparison of Proposed to Minimum Required Cement Volumes

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	450	685	229	199	8.80	2770	3M	1.56

Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK. Alt Burst OK

9 5/8	casing inside the	13 3/8			Design Factors			Int 1				
Segment	#/ft	Grade	Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.00	L 80	BTC	8.84	2.3	1.2	2,590	1	2.08	3.98	103,600
"B"							0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500						Totals:	2,590				103,600
	The cement volume(s) are intended to achieve a top of			0	ft from surface or a			330				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
12 1/4	0.3132	690	1052	827	27	10.00	2770	3M	0.81
D V Tool(s):							sum of sx	Σ CuFt	Σ%excess
t by stage % :		#VALUE!	#VALUE!				690	1052	27

Class 'H' tail cmt yld > 1.20

7 5/8	Liner w/top @	2390			Design Factors			Liner				
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	29.70	P 110	W-513	2.77	1.11	1.39	6,860	2	2.03	1.93	203,742
"B"			0.00				0				0
	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,035						Totals:	6,860				203,742
	The cement volume(s) are intended to achieve a top of			2390	ft from surface or a			200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
8 3/4	0.1005	290	782	691	13	10.00	4659	5M	0.56

Class 'C' tail cmt yld > 1.35 MASP is within 10% of 5000psig, need exrta equip?

Keep Casing Full, Does not meet CFO's 25% excess on cement

Tail cmt

5 1/2	casing inside the	7 5/8			Design Factors			Prod 1				
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	23.00	P 110	BTC	3.25	2.29	1.82	9,050	2	2.65	3.34	208,150
"B"	23.00	P 110	W-441	6.62	1.92	2.14	16,365	2	3.12	3.12	376,395
	w/8.4#/g mud, 30min Sfc Csg Test psig: 1,991						Totals:	25,415				584,545
	The cement volume(s) are intended to achieve a top of			9050	ft from surface or a			200				overlap.

Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
6 3/4	0.0835	1730	2388	1369	74	13.50			0.43

Class 'H' tail cmt yld > 1.20 Capitan Reef est top XXXX. MASP is within 10% of 5000psig, need exrta equip?

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	CHAOS FED COM 700H
LOCATION:	Section 34, T.22 S., R.28 E., NMP
COUNTY:	Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **330 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
-

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Contingency Squeeze:

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

Contingency Casing Design:

4. The **13-3/8** inch surface casing shall be set at approximately **330 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    h. If cement falls back, remedial cementing will be done prior to drilling out that string.

5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

    - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

    ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

6. **Keep casing full during run for collapse safety factor**. The minimum required fill of cement behind the **7-5/8** inch intermediate liner is:

    - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
      Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Contingency Squeeze:

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8"

casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

7. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
    - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

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

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

Offline Cementing:
Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

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

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

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

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational

at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.

iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.

If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 9/30/2025

WELL	LOCATION	TVD	TMD
Chaos WC Federal Com 700H	SHL: 872’ FNL & 440’ FEL UL A 34-22S-28E	9669 ft.	25207 ft.
	BHL: 330’ FNL & 200’ FWL UL E 32-22S-38E		
Chaos WC Federal Com 701H	SHL: 890’ FNL & 497’ FEL UL A 34-22S-28E	9679 ft.	25419 ft.
	BHL: 2640’ FNL & 200’ FWL UL E 32-22S-38E		
Chaos WC Federal Com 702H	SHL: 881’ FNL & 468’ FEL UL A 34-22S-28E	9674 ft.	25248 ft.
	BHL: 1485’ FNL & 200’ FWL UL E 32-22S-38E		
Chaos WC Federal Com 703H	SHL: 1497’ FSL & 727’ FEL UL I 34-22S-28E	9680 ft.	25415 ft.
	BHL: 330’ FSL & 200’ FWL UL M 32-22S-38E		
Chaos WC Federal Com 704H	SHL: 1518’ FSL & 747’ FEL UL I 34-22S-28E	9674 ft.	25306 ft.
	BHL: 1494’ FSL & 200’ FWL UL L 32-22S-38E		

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TXP® BTC

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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.200 in.	**Tension Efficiency**	100 %	**Minimum**	12,980 ft-lb
Coupling Length	9.450 in.	**Joint Yield Strength**	729 x1000 lb	**Optimum**	14,420 ft-lb
Connection ID	4.658 in.	**Internal Pressure Capacity**	14,530 psi	**Maximum**	15,860 ft-lb
Make-up Loss	4.204 in.	**Compression Efficiency**	100 %		
Threads per inch	5	**Compression Strength**	729 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	92 °/100 ft	**Operating Torque**	24,200 ft-lb
		External Pressure Capacity	14,540 psi	**Yield Torque**	26,900 ft-lb

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 / 0.304 / 0.361 / 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the lastest performance data, always visit our website: www.tenaris.com

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API BTC

Coupling	Pipe Body
Grade: **J55 (Casing)**	Grade: **J55 (Casing)**
Body: **Bright Green**	1st Band: **Bright Green**
1st Band: **White**	2nd Band: **-**
2nd Band: **-**	3rd Band: **-**
3rd Band: **-**	4th Band: **-**

Outside Diameter	10.750 in.	**Wall Thickness**	0.400 in.	**Grade**	J55 (Casing)
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	10.750 in.	**Drift**	9.794 in.	**SMYS**	55,000 psi
Wall Thickness	0.400 in.	**Plain End Weight**	44.26 lb/ft	**Min UTS**	75,000 psi
Nominal Weight	45.500 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	715 x1000 lb
Nominal ID	9.950 in.			**Min. Internal Yield Pressure**	3580 psi
				Collapse Pressure	2090 psi
				Max. Allowed Bending	23 °/100 ft

Connection Data

Geometry		Performance	
Thread per In	5	**Joint Strength**	796 x1000 lb
Connection OD	11.750 in.	**Coupling Face Load**	628 x1000 lb
Hand Tight Stand Off	1 in.	**Internal Pressure Capacity**	3580 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.

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BOPE Break Testing Variance

Initial and 21 Day Testing of 10K BOP's:

Component	High Test Pressure	Low Test Pressure	Duration
Annular Preventer	5,000 psig	250 psig	10 min
Rams	5,000 psig	250 psig	10 min
Manifold	5,000 psig	250 psig	10 min
Wellhead	1,500 psig	-	10 min
Upper / Lower / Kelly Valves	5,000 psig	250 psig	10 min
TIW safety valves / Dart	5,000 psig	250 psig	10 min
Standpipe and mud line to pumps	5,000 psig	250 psig	10 min
Surface Casing (with 8.4 ppg fluid)	1,500 psig	-	30 min

*Equipment satisfies 10M BOPE but break test variance applies to 5M system

COG Production LLC formally requests variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow break/shell testing of blowout preventor (BOP) and blowout prevention equipment (BOPE) during batch drilling operations of the intermediate hole section. This variance only applies to 5M BOPE or less formation.

Initial testing of the BOP will be conducted, verifying all components of BOP, BOPE, and choke manifold meet the minimum and maximum anticipated surface pressure (MASP) in accordance with API RP 53 and Onshore Order No. 2, reference table above. Once initial test pressures are achieved, shell testing of the BOP and choke manifold would be conducted within the time limit from initial test to the congruent 21-day test. A complete pressure test of the BOPE components will be completed no later than 21 days following the completion of the initial pressure test or latest complete BOP pressure test date succeeding the initial test, per API RP 53 (6.5.3.4.1 (d)).

BOP and BOPE Testing

- Minimum of Class 3 stack arrangement with one set of blind/blind shear rams and pipe rams shall be installed for a 5K pressure rated system per API RP 53 (6.1.2.9)
    - Classification - COP minimum of Class 3 arrangement apply for all Delaware Basin area wells.
    - Arrangement - Annular preventer, upper pipe rams, blind rams, mud cross, lower pipe rams
- Complete BOP and BOPE test performed at initial installation on well pad.
    - Initial test performed on well with deepest planned intermediate hole section (allowable 200' TVD variance between intermediate hole sections)
    - Annular preventer tested to 100 percent of MASP, or 70 percent of rated working pressure (RWP), whichever is greater.
    - Notify BLM 4 Hrs. prior to testing
- Complete BOP and BOPE test every 21 days in accordance with API RP 53 (6.5.3.4.1 (d)).
- BOP/BOPE shell test (inclusive of manifold shell test) performed during batch drilling operations during rig transition between wells (within the 21-day time limit per API RP 53).
- Function test BOP elements per API RP 53 (6.5.3.1).
    - Required on (1) initial installation of stack, (2) every 7 days, (3) after repair/replacement of any control components
    - Alternate between drillers panel and remote panel

Securing the Wellhead

- Prior to moving rig off check for flow
    - Ensure floats are holding, casing is full of kill mud and backside is static.
- Secure the well with sleeve/plug with BPV
- Disconnect BOP from the wellhead and walk with the rig to another well on the pad.
    - Utilizing BOP wrangler/cradle, maintaining control and upright position of the BOP during movement
- Once BOP is separated from wellhead the Temporary Abandonment (TA) cap will be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- Test TA cap to 5,000 psi for 10 min.

COG Production LLC believes that the combination of drilling fluid inside the casing, abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Break Testing

- Skid rig over the next well on pad and center over wellhead, N/U BOP with the use of the BOP quick connect.
- Shell test the BOP and choke manifold to 5,000 psig and 250 psig. Hold each test for 10 minutes.
    - In accordance with API RP 53 (6.5.3.4.1(b)) BOP shell test will satisfy pressure test of quick connect seals
    - Notify BLM 4 hours prior to testing
- RWP of BOP quick connect is 10K (Certificate of Conformance attached)

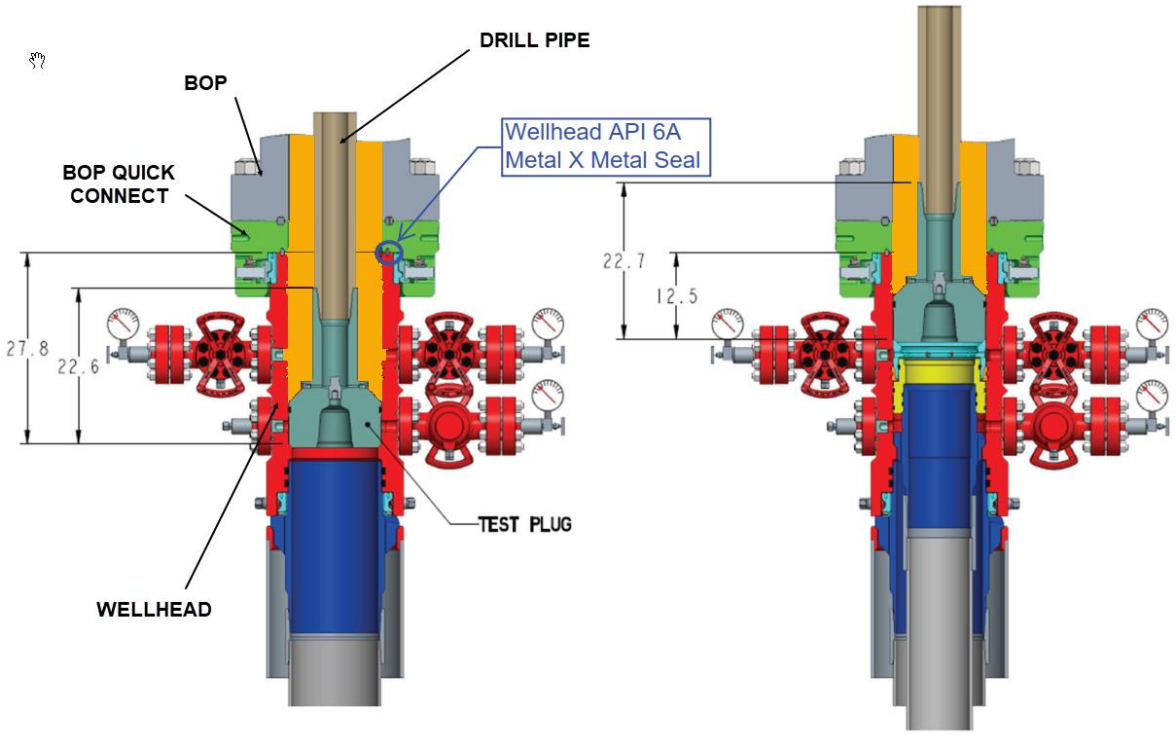

Figure 1: Test plug installed (The orange sections above indicate the areas exposed to the pressure test)

Example Well Control Plan Content

A. Well Control Component Table

This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nippled up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2” 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating.

General Procedure

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut in.
5. Notify tool pusher/company representative.
6. Read and record the following:
    a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
    b. Pit gain
    c. Time
    d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.

Tenaris

TenarisHydril Wedge 441®

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

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

Pipe Body Data

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

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.900 in.	**Tension Efficiency**	90.80 %	**Minimum**	15,000 ft-lb
Coupling Length	8.714 in.	**Joint Yield Strength**	662 x1000 lb	**Optimum**	16,000 ft-lb
Connection ID	4.670 in.	**Internal Pressure Capacity**	14,530 psi	**Maximum**	19,200 ft-lb
Make-up Loss	3.780 in.	**Compression Efficiency**	90.80 %		
Threads per inch	3.40	**Compression Strength**	662 x1000 lb	**Operation Limit Torques**	
Connection OD Option	Regular	**Max. Allowable Bending**	79 °/100 ft	**Operating Torque**	33,000 ft-lb
		External Pressure Capacity	14,540 psi	**Yield Torque**	39,000 ft-lb
		Coupling Face Load	172,000 lb	**Buck-On**	
				Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

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

For the lastest performance data, always visit our website: www.tenaris.com

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Offline Bradenhead Cementing Procedure

1. Run casing as per normal operations.
    a. Float equipment is equipped with two back pressure valves rated to a minimum of 5,000 psi.
2. Land intermediate casing on mandrel hanger through BOP.
    a. If casing is unable to be landed with a mandrel hanger, then the **casing will be cemented online**.
    b. If time from landing mandrel hanger to skidding/walking rig off well exceeds 8 hours, BLM will be notified.
3. Break circulation and confirm no restrictions.
    a. Ensure no blockage of float equipment and appropriate annular returns.
4. Perform flow check to confirm well is static.
5. Install pack-off.
    a. If utilizing a fluted/ported mandrel hanger, ensure well is static on the annulus and inside the casing by ensuring pipe is full of drilling fluid, remove landing joint, and install annular packoff through BOP. Pressure test to 5,000 psi for 10 min (or as per wellhead company recommendation).
    b. If utilizing a solid mandrel hanger, ensure well is static on the annulus and inside the casing by ensuring pipe is full of drilling fluid. Pressure test seals to 5,000 psi for 10 min (or as per wellhead company recommendation). Remove landing joint through BOP.
6. After confirmation of both annular barriers and the two casing barriers, install offline cement plug and pressure test to 5,000 psi for 10 min (or as per wellhead company recommendation).
    a. Follow Stream-Flo running procedure for setting and testing the offline cement plug.
7. Notify the BLM with intent to proceed with nipple down and offline cementing. Minimum 4 hrs notice.
8. With the well secured and BLM notified, nipple down BOP and secure on BOP handler.
    a. **Note, if any of the barriers fail to test, the BOP stack will not be nippled down until after the cement job has concluded and tail cement has reached 500 psi**
9. Skid/Walk rig off current well.
10. Install TA cap with seal sleeve and test to 5,000 psi.
11. Rig up return lines to take returns from wellhead to pits via offline cement choke manifold.
    a. Test all connections and lines from wellhead to choke manifold to 5,000 psi high for 10 min.
    b. If either test fails, perform corrections and retest before proceeding.
    c. Return line schematics can be seen in Figure 2.
12. Confirm well is static before removing TA Plug.
    a. Cementing operations will not proceed until well is under control. (If well is not static, notify BLM and proceed to kill)
    b. Casing outlet valves will provide access to both the casing ID and annulus. Rig or third-party pump truck will kill well prior to cementing, if needed.
    c. Well control plan can be seen in Section B, Well Control Procedures.
    d. If need be, rig can be moved back over well and BOP nippled back up for any further remediation.
13. Remove TA Plug/BPV from the casing.
14. Install offline cement tool.
    a. Current offline cement tool schematics can be seen in Figure 1 (Streamflo)
15. Rig up cement head and cementing lines.
    a. Pressure test cement lines against cement head to 80% of casing burst for 10 min.
16. Break circulation on well to confirm no restrictions.
    a. If gas is present on circulation, well will be shut in and returns rerouted through gas buster.
    b. Max anticipated time before circulating with cement truck is 6 hrs.
17. Circulate 1.5 times casing capacity.
    a. Pump a minimum of 375 bbls brine water ahead of spacer to ensure all drilling fluid is circulated out of the annulus.
    b. If have no returns, pump a minimum of 1 x Bottoms Up of brine from shoe to top of brushy canyon.
    c. Pump 25 bbls spacer followed by 620 sacks of 15.6 ppg cement designed to reach the top of the Brushy Canyon.
    d. Catch wet and dry samples of slurry.
    e. Drop wiper plug

Offline Bradenhead Cementing Procedure

f. Displace with Brine. Do not over displace.
g. Bump plug at 500 psi over FCP and hold for 5 minutes.
h. Bleed back to cement truck to check floats.

18. Confirm well is static and floats are holding after cement job.
    a. If floats are leaking:
        i. Shut-in well and WOC (Wait on Cement) until tail slurry reaches 500 psi compressive strength and the casing is static prior to removing cement head.
        ii. In case of a float failure, run a retrievable bridge plug at 1000 ft above KOP, test same
    b. If there is flow on the backside:
        i. Shut in well and WOC until tail slurry reaches 500 psi compressive strength. Ensure that the casing is static prior to removing cement head.
19. At plug bump, pressure test casing to FIT or 1,500 psi, whichever is greater.
    a. If plug does not bump, shut down and WOC 8 hrs or 500 psi compressive strength, whichever is greater before testing casing.
20. Remove cement head and install BPV.
21. Install TA cap. Pressure test to 5,000 psi for 10 min.
22. WOC for 4 hours from plug down time.
    a. While WOC, rig up lines to pump down both bottom SOVs on 10-3/4" x 7-5/8" annulus. Also, can rig up lines from SOV to just below top of cellar while drilling ahead to expedite rig-up later.
23. After 4 hours from plug down, establish injection rate and displace the annulus with 5 bbls fresh water.
    a. Max pressure is 1500 psi based on 10-3/4" surface casing pressure test.
24. Pump bradenhead squeeze utilizing 1000 sacks of 14.8 ppg thixotropic cement.
    a. Max pressure is 1500 psi
25. After pumping 14.8 ppg thixotropic slurry, pump 50 sacks of 14.8 ppg top out slurry to flush valves of thixotropic cement.
26. Shut in outlet valves as soon as pumps are confirmed off and WOC 4 hours.
27. Rig up to pump down 1 x SOV and take returns through other SOV into cellar.
28. Top out with 400 sacks of 14.8 ppg top out slurry. If more cement is necessary, note in report and notify BLM.
    a. Ensure 1 x empty vac truck with sugar on site prior to starting top out
    b. Slowly pump cement (< 1 bpm) into the inlet SOV with valve open and increase rate up to max of 2 bpm until first air bubble is caught and cement starts coming out SOV. Drop rate to ½ - 1 bpm and pump until solid stream of cement observed at surface. Can drop rate at each air bubble as needed.
    c. Once solid stream of cement observed at surface, shut down and wait 5 minutes.
    d. Come back online at ½ bpm and ensure solid stream of cement.
29. Pump 2-5 bbls fresh water as needed to ensure all cement flushed out of wellhead valves.
    a. Note in report maximum number of bbls utilized
30. Shut down and close SOVs.

Tenaris

Wedge 513®

Coupling	Pipe Body
Grade: **P110-ICY**	Grade: **P110-ICY**
Body: **White**	1st Band: **White**
1st Band: **Pale Green**	2nd Band: **Pale Green**
2nd Band: **-**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **-**
	5th Band: **-**
	6th Band: **-**

Outside Diameter	7.625 in.	**Wall Thickness**	0.375 in.	**Grade**	P110-ICY
Min. Wall Thickness	90.00 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	**Wall Thickness**	0.375 in.	**Body Yield Strength**	1068 x1000 lb
Nominal Weight	29.70 lb/ft	**Plain End Weight**	29.06 lb/ft	**Min. Internal Yield Pressure**	11,070 psi
Drift	6.750 in.	**OD Tolerance**	API	**SMYS**	125,000 psi
Nominal ID	6.875 in.			**Collapse Pressure**	7360 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	**Tension Efficiency**	60 %	**Minimum**	9000 ft-lb
Connection ID	6.800 in.	**Joint Yield Strength**	641 x1000 lb	**Optimum**	10,800 ft-lb
Make-up Loss	4.420 in.	**Internal Pressure Capacity**	11,070 psi	**Maximum**	15,800 ft-lb
Threads per inch	3.29	**Compression Efficiency**	75.20 %		
Connection OD Option	Regular	**Compression Strength**	803 x1000 lb	**Operation Limit Torques**	
		Max. Allowable Bending	45 °/100 ft	**Operating Torque**	53,000 ft-lb
		External Pressure Capacity	7360 psi	**Yield Torque**	79,000 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 523® - 7.625 in. - 0.375 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For the lastest performance data, always visit our website: www.tenaris.com

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Tenaris

API BTC

Coupling	Pipe Body
Grade: **L80-ICY**	Grade: **L80-ICY**
Body: **Red**	1st Band: **Red**
1st Band: **Brown**	2nd Band: **Brown**
2nd Band: **Pale Green**	3rd Band: **Pale Green**
3rd Band: **-**	4th Band: **Pale Green**

Outside Diameter	7.625 in.	**Wall Thickness**	0.375 in.	**Grade**	L80-ICY
Min. Wall Thickness	87.50 %	**Pipe Body Drift**	API Standard	**Type**	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	**Drift**	6.750 in.	**SMYS**	85,000 psi
Wall Thickness	0.375 in.	**Plain End Weight**	29.06 lb/ft	**Min UTS**	95,000 psi
Nominal Weight	29.700 lb/ft	**OD Tolerance**	API	**Body Yield Strength**	726 x1000 lb
Nominal ID	6.875 in.			**Min. Internal Yield Pressure**	7320 psi
				Collapse Pressure	5900 psi
				Max. Allowed Bending	51 °/100 ft

Connection Data

Geometry		Performance	
Thread per In	5	**Joint Strength**	733 x1000 lb
Connection OD	8.500 in.	**Coupling Face Load**	597 x1000 lb
Hand Tight Stand Off	1 in.	**Internal Pressure Capacity**	7320 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015-55632	98220	Purple Sage; Wolfcamp (Gas)	
Property Code	Property Name		Well Number
	CHAOS WC FEDERAL COM		700H
OGRID No.	Operator Name		Ground Level Elevation
372098	MARATHON OIL PERMIAN LLC		3,071'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal		Mineral Owner: ☑ State ☑ Fee ☐ Tribal ☑ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	34	22S	28E		872' FNL	440' FEL	32.354076°	-104.068335°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	32	22S	28E		330' FNL	200' FWL	32.355399°	-104.117171°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1920	Infill	30-015-53642		Com
Order Numbers. R-22673-A			Well setbacks are under Common Ownership: ☒Yes ☐No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	35	22S	28E		327' FNL	147' FWL	32.355579°	-104.066482°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	34	22S	28E		330' FNL	330' FEL	32.355567°	-104.068027°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	32	22S	28E		330' FNL	330' FWL	32.355404°	-104.116750°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date: 7/23/2025

Signature	Date	Signature and Seal of Professional Surveyor
Stan Wagner	7/31/25	
Printed Name: Stan Wagner	Certificate Number: 12177	Date of Survey: 7/23/2025
Email Address		

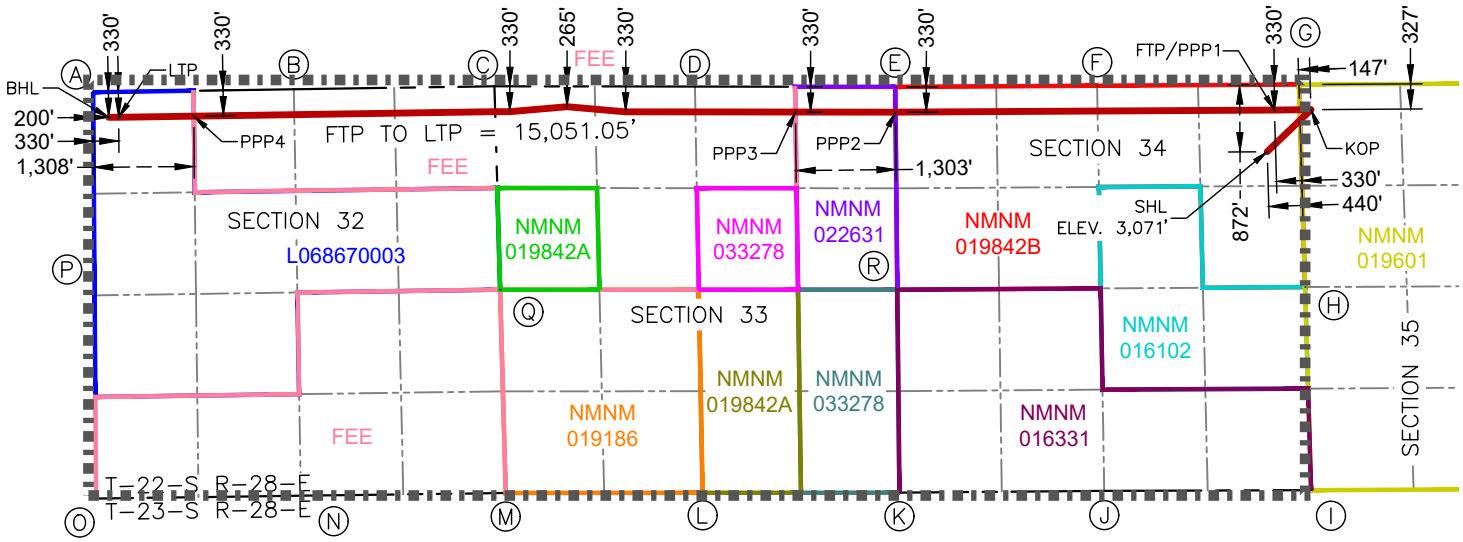
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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

CHAOS FEDERAL COM #700H



SURFACE HOLE LOCATION 872' FNL & 440' FEL ELEV.=3,071'	KICK-OFF POINT 327' FNL & 147' FWL	FIRST TAKE POINT & PENETRATION POINT 1 330' FNL & 330' FEL	PENETRATION POINT 2 330' FNL & 0' FEL
NAD 83 X = 623,166.66' NAD 83 Y = 492,645.88' NAD 83 LAT = 32.354076° NAD 83 LONG = -104.068335°	NAD 83 X = 623,737.39' NAD 83 Y = 493,194.12' NAD 83 LAT = 32.355579° NAD 83 LONG = -104.066482°	NAD 83 X = 623,260.35' NAD 83 Y = 493,188.42' NAD 83 LAT = 32.355567° NAD 83 LONG = -104.068027°	NAD 83 X = 618,328.44' NAD 83 Y = 493,160.55' NAD 83 LAT = 32.355522° NAD 83 LONG = -104.083999°

PENETRATION POINT 3 330' FNL & 1,303' FEL	PENETRATION POINT 4 330' FNL & 1,308' FWL	LAST TAKE POINT 330' FNL & 330' FWL	BOTTOM HOLE LOCATION 330' FNL & 200' FWL
NAD 83 X = 617,025.53' NAD 83 Y = 493,162.35' NAD 83 LAT = 32.355536° NAD 83 LONG = -104.088219°	NAD 83 X = 609,193.29' NAD 83 Y = 493,109.87' NAD 83 LAT = 32.355438° NAD 83 LONG = -104.113584°	NAD 83 X = 608,215.42' NAD 83 Y = 493,095.44' NAD 83 LAT = 32.355404° NAD 83 LONG = -104.116750°	NAD 83 X = 608,085.43' NAD 83 Y = 493,093.53' NAD 83 LAT = 32.355399° NAD 83 LONG = -104.117171°

CORNER COORDINATES
NEW MEXICO EAST - NAD 83

A	IRON PIPE W/BRASS CAP N:493,420.58' E:607,883.07'	F	IRON ROD W/BRASS CAP N:493,505.38' E:620,952.79'	K	IRON PIPE W/BRASS CAP N:488,208.65' E:618,378.75'	P	IRON PIPE W/BRASS CAP N:490,776.23' E:607,902.12'
B	CALCULATED CORNER N:493,459.10' E:610,495.39'	G	IRON PIPE W/BRASS CAP N:493,520.23' E:623,580.49'	L	IRON PIPE W/BRASS CAP N:488,206.12' E:615,816.14'	Q	IRON PIPE W/BRASS CAP N:490,850.60' E:613,180.62'
C	IRON ROD N:493,497.62' E:613,107.71'	H	IRON PIPE W/BRASS CAP N:490,884.16' E:623,659.98'	M	IRON PIPE W/BRASS CAP N:488,203.58' E:613,253.53'	R	IRON PIPE W/BRASS CAP N:490,849.59' E:618,351.92'
D	IRON ROD W/BRASS CAP N:493,494.08' E:615,716.40'	I	IRON PIPE W/BRASS CAP N:488,240.10' E:623,738.32'	N	CALCULATED CORNER N:488,167.73' E:610,587.35'		
E	IRON PIPE W/BRASS CAP N:493,490.53' E:618,325.09'	J	PIPELINE ROW N:488,231.32' E:621,045.95'	O	IRON PIPE W/BRASS CAP N:488,131.88' E:607,921.17'		

Received by OCD: 10/1/2025 9:26:42 AM

Project: ATLAS PROSPECT_NME
Site: CHAOS FEDERAL COM PROJECT
Well: CHAOS FEDERAL COM 700H
Wellbore: OWB
Design: PWP1
GL: 3071.0
RKB=23ft @ 3094.0usft

ConocoPhillips

WELL DETAILS: CHAOS FEDERAL COM 700H

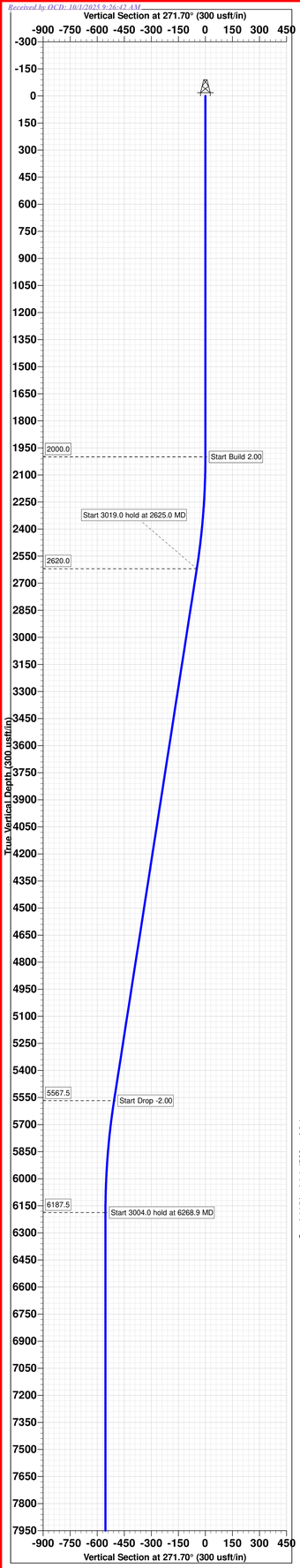
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	492586.10	581984.37	32° 21' 14.239 N	104° 4' 4.219 W

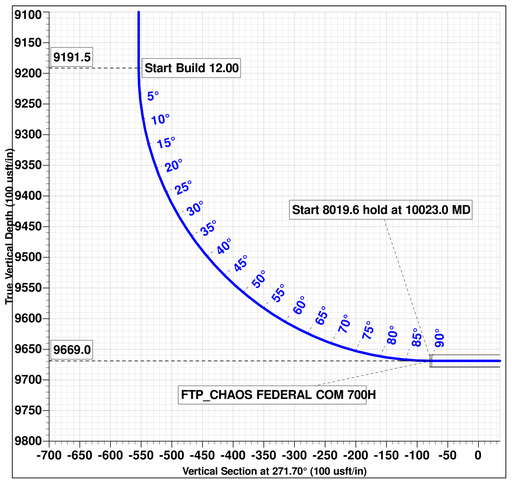
DESIGN TARGET DETAILS

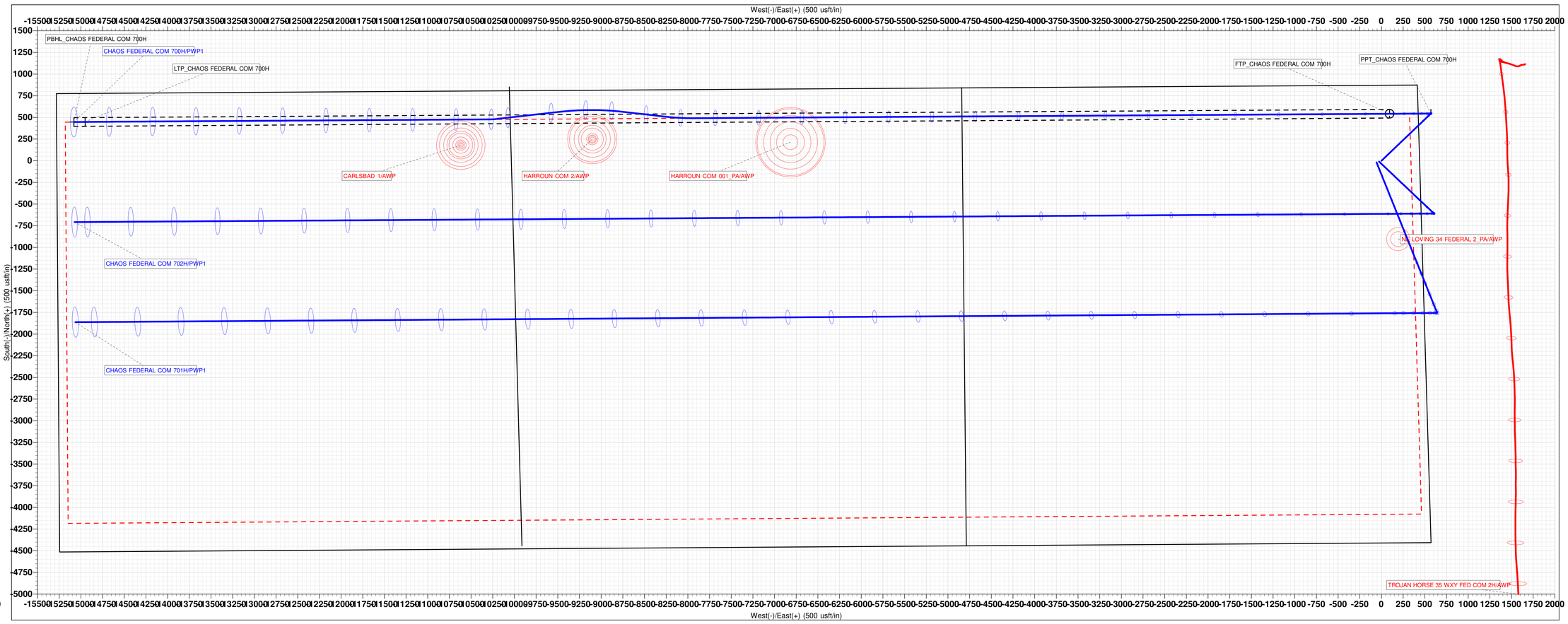
Name	TVD	+N/-S	+E/-W	Northing	Easting
PPT_CHAOS FEDERAL COM 700H	32.0	545.2	570.8	493131.31	582555.20
FTP_CHAOS FEDERAL COM 700H	9669.0	542.5	93.7	493128.63	582078.07
LTP_CHAOS FEDERAL COM 700H	9669.0	449.7	-14951.0	493035.83	567033.34
PBHL_CHAOS FEDERAL COM 700H	9669.0	447.8	-15081.0	493033.92	566903.35

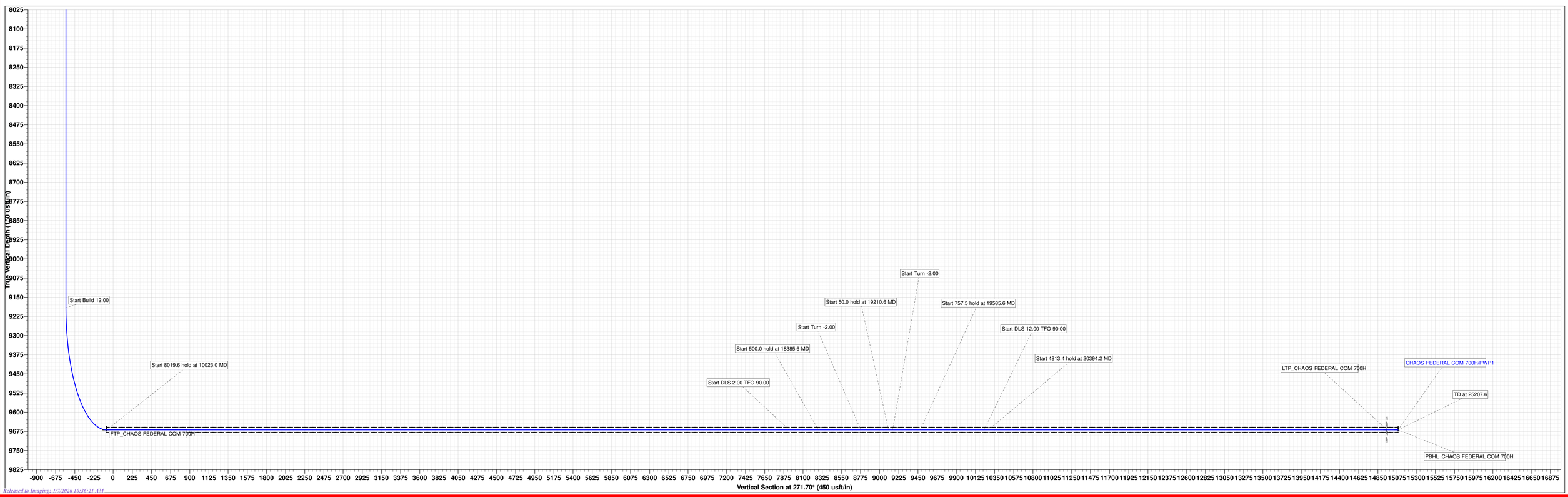
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0
2625.0	12.50	46.29	2620.0	46.9	49.1	2.00	46.29	-47.7
5644.0	12.50	46.29	5567.5	498.4	521.4	0.00	0.00	-506.4
6268.9	0.00	0.00	6187.5	545.3	570.5	2.00	180.00	-554.1
9273.0	0.00	0.00	9191.5	545.3	570.5	0.00	0.00	-554.1
10023.0	90.00	269.64	9669.0	542.3	93.1	12.00	269.64	-76.9
18042.6	90.00	269.64	9669.0	491.9	-7926.4	0.00	0.00	7937.5
18385.6	90.00	276.50	9669.0	510.3	-8268.7	2.00	90.00	8280.2
18885.6	90.00	276.50	9669.0	566.9	-8765.5	0.00	0.00	8778.4
19210.6	90.00	270.00	9669.0	585.3	-9089.8	2.00	-90.00	9103.1
19260.6	90.00	270.00	9669.0	585.3	-9139.8	0.00	0.00	9153.1
19585.6	90.00	263.50	9669.0	566.9	-9464.1	2.00	-90.00	9476.7
20343.1	90.00	263.50	9669.0	481.1	-10216.7	0.00	0.00	10226.5
20394.2	90.00	269.64	9669.0	478.1	-10267.8	12.00	90.00	10277.4
25207.6	90.00	269.64	9669.0	447.8	-15081.0	0.00	0.00	15087.7









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ConocoPhillips Company - CHAOS FEDERAL COM 700H

1. Geologic Formations

TVD of target	9,669' EOL	Pilot hole depth	NA
MD at TD:	25,208'	Deepest expected fresh water:	0'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	177	Water	
Top of Salt	524	Salt	
Base of Salt	2454	Salt	
Lamar	2691	Salt Water	
Bell Canyon	2728	Salt Water	
Cherry Canyon	3567	Oil/Gas	
Brushy Canyon	4778	Oil/Gas	
Bone Spring	6211	Oil/Gas	
1st Bone Spring Sand	7250	Oil/Gas	
2nd Bone Spring Sand	8004	Oil/Gas	
3rd Bone Spring Sand	9230	Oil/Gas	
Wolfcamp	9539	Target	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	380	10.75"	45.5	J55	BTC	12.02	1.14	41.35	46.04
9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.26	3.26	3.29
8.750"	7500	9170	7.625"	29.7	P110-ICY	W513	1.54	1.90	3.92	2.35
6.75"	0	8970	5.5"	23	P110-CY	BTC	2.31	2.69	3.53	3.53
6.75"	8970	25,208	5.5"	23	P110-CY	W441	2.14	2.50	3.28	2.98
					BLM Minimum Safety Factor		1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	380	13.375"	54.5	J55	BTC	6.50	2.50	41.19	43.89
12.25"	0	2600	9.625"	40	L80-IC	BTC	2.86	1.60	8.81	9.11
8.75"	2400	9170	7.625"	29.7	P110-ICY	W513	1.54	1.90	3.92	2.35
6.75"	0	8970	5.5"	23	P110-CY	BTC	2.31	2.69	3.53	3.53
6.75"	8970	25,208	5.5"	23	P110-CY	W441	2.14	2.50	3.28	2.98
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

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

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

ConocoPhillips Company - CHAOS FEDERAL COM 700H

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

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	190	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter. Stage 1	700	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	570	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1220	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results
Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0’	50%
1st Intermediate	0’	50%
Production	8,670'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	230	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Int. #1	300	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl2
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl2
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	500	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1220	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

Casing String	TOC	% Excess
Surface	0’	50%
1st Intermediate	0’	50%
2nd Intermediate	2,400'	20%
Production	8,920'	20% OH in Lateral (KOP to EOL)

If conditions dictate, an offline bradenhead cement job will be performed to ensure cement to surface. A CBL will be ran Offline to verify TOC after 2nd Stage Bradenhead.

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ConocoPhillips Company - CHAOS FEDERAL COM 700H

4. Pressure Control Equipment

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

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

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

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

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

ConocoPhillips Company - CHAOS FEDERAL COM 700H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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

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

5b. Contingency Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

6. Logging and Testing Procedures

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

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6790 psi at 9669' TVD
Abnormal Temperature	NO 155 Deg. F.

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

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

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

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

DELAWARE BASIN WEST

ATLAS PROSPECT_NME
CHAOS FEDERAL COM PROJECT
CHAOS FEDERAL COM 700H

OWB
PWP1

Anticollision Report

29 July, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference PWP1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	**Error Model:**	ISCWSA
Depth Range:	0.0 to 25,207.9usft	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 **Sigma**	**Casing Method:**	Added to Error Values

Survey Tool Program **Date** 7/29/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	2,000.0	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + SAG + FDIR Corr.
2,000.0	9,273.0	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + SAG + FDIR Corr.
9,273.0	25,207.6	PWP1 (OWB)	r.5 MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + SAG + FDIR Corr.

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
CHAOS FED COM						
TROJAN HORSE 35 WXY FED COM 2H - OWB - AWP	9,377.2	9,794.4	897.3	857.2	22.367	CC, ES, SF
CHAOS FEDERAL COM PROJECT						
CARLSBAD 1 - OWB - AWP	20,746.4	9,620.0	294.7	-49.1	0.857	STOP Drilling, CC, ES, SF
CHAOS FEDERAL COM 701H - OWB - PWP1	1,354.0	1,353.0	59.2	51.0	7.217	CC
CHAOS FEDERAL COM 701H - OWB - PWP1	1,400.0	1,399.0	59.3	50.9	7.063	ES
CHAOS FEDERAL COM 701H - OWB - PWP1	1,500.0	1,498.3	60.3	51.5	6.849	SF
CHAOS FEDERAL COM 702H - OWB - PWP1	2,000.0	2,000.0	29.2	17.7	2.545	Normal Operations, CC, ES
CHAOS FEDERAL COM 702H - OWB - PWP1	2,100.0	2,100.4	30.0	18.2	2.536	Normal Operations, SF
HARROUN COM 001_PA - OWB - AWP	16,933.9	9,667.2	284.3	-151.5	0.652	STOP Drilling, CC, ES, SF
HARROUN COM 2 - OWB - AWP	19,222.7	9,631.8	335.7	-0.9	0.997	STOP Drilling, CC, ES, SF
NE LOVING 34 FEDERAL 2_PA - OWB - AWP	1,767.0	1,749.8	920.9	831.4	10.293	CC
NE LOVING 34 FEDERAL 2_PA - OWB - AWP	2,300.0	2,281.7	931.3	819.3	8.315	ES
NE LOVING 34 FEDERAL 2_PA - OWB - AWP	2,900.0	2,860.8	994.3	857.8	7.288	SF

Offset Design: CHAOS FED COM - TROJAN HORSE 35 WXY FED COM 2H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 140-r.5 MWD **Rule Assigned:** **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,100.0	9,018.6	9,664.9	9,460.6	15.3	24.5	72.24	814.5	1,410.7	978.4	938.8	39.63	24.690	
9,200.0	9,118.6	9,723.4	9,481.2	15.3	24.6	75.77	760.0	1,417.0	938.4	898.5	39.98	23.470	
9,273.0	9,191.5	9,757.8	9,493.1	15.4	24.8	77.86	728.0	1,420.0	913.7	873.7	40.03	22.827	
9,275.0	9,193.6	9,758.5	9,493.4	15.4	24.8	168.28	727.3	1,420.1	913.1	873.1	40.03	22.810	
9,300.0	9,218.5	9,767.6	9,496.5	15.4	24.8	169.00	718.9	1,420.8	906.4	866.3	40.06	22.623	
9,325.0	9,243.4	9,776.4	9,499.6	15.4	24.8	169.65	710.6	1,421.6	901.5	861.4	40.09	22.489	
9,350.0	9,268.2	9,785.1	9,502.6	15.4	24.9	170.24	702.4	1,422.3	898.5	858.4	40.10	22.404	
9,375.0	9,292.8	9,793.6	9,505.6	15.4	24.9	170.78	694.5	1,423.0	897.4	857.2	40.12	22.368	
9,377.2	9,295.0	9,794.4	9,505.8	15.4	24.9	170.82	693.8	1,423.1	897.3	857.2	40.12	22.367	CC, ES, SF
9,400.0	9,317.1	9,801.9	9,508.4	15.4	24.9	171.26	686.8	1,423.7	898.1	858.0	40.13	22.381	
9,425.0	9,341.0	9,809.9	9,511.1	15.4	25.0	171.70	679.3	1,424.4	900.8	860.7	40.14	22.444	
9,450.0	9,364.5	9,817.6	9,513.8	15.4	25.0	172.10	672.1	1,425.0	905.4	865.3	40.15	22.554	

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 CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: CHAOS FED COM - TROJAN HORSE 35 WXY FED COM 2H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 140-r.5 MWD

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,475.0	9,387.6	9,825.0	9,516.3	15.4	25.0	172.45	665.2	1,425.7	911.9	871.7	40.15	22.711	
9,500.0	9,410.1	9,832.1	9,518.8	15.4	25.1	172.77	658.5	1,426.3	920.1	880.0	40.16	22.913	
9,525.0	9,432.0	9,839.1	9,521.1	15.4	25.1	173.06	652.0	1,426.8	930.2	890.0	40.17	23.157	
9,550.0	9,453.3	9,846.8	9,523.8	15.5	25.1	173.38	644.8	1,427.5	941.8	901.6	40.20	23.431	
9,575.0	9,473.8	9,854.3	9,526.4	15.5	25.2	173.68	637.7	1,428.1	955.1	914.8	40.23	23.743	
9,600.0	9,493.6	9,861.6	9,528.9	15.5	25.2	173.96	631.0	1,428.6	969.8	929.5	40.26	24.090	
9,625.0	9,512.5	9,868.5	9,531.3	15.5	25.2	174.21	624.4	1,429.2	985.9	945.6	40.29	24.470	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: CHAOS FEDERAL COM PROJECT - CARLSBAD 1 - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 140-r.5 INC-ONLY **Rule Assigned:** **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
19,900.0	9,669.0	9,619.8	9,617.8	115.2	212.2	-89.73	181.2	-10,618.1	911.5	606.7	304.86	2.990	Normal Operations
20,000.0	9,669.0	9,619.9	9,617.9	116.3	212.2	-89.74	181.2	-10,618.1	815.9	509.9	306.02	2.666	Normal Operations
20,100.0	9,669.0	9,619.9	9,617.9	117.4	212.2	-89.75	181.2	-10,618.1	721.5	413.9	307.58	2.346	Caution - Monitor Closely
20,200.0	9,669.0	9,619.9	9,617.9	118.5	212.2	-89.76	181.2	-10,618.1	628.8	319.0	309.74	2.030	Caution - Monitor Closely
20,300.0	9,669.0	9,620.0	9,618.0	119.6	212.2	-89.77	181.2	-10,618.1	538.7	225.9	312.84	1.722	Caution - Monitor Closely
20,343.1	9,669.0	9,620.0	9,618.0	120.1	212.2	-89.77	181.2	-10,618.1	501.1	186.5	314.59	1.593	Caution - Monitor Closely
20,350.0	9,669.0	9,620.0	9,618.0	120.2	212.2	-89.78	181.2	-10,618.1	495.1	180.2	314.91	1.572	Caution - Monitor Closely
20,375.0	9,669.0	9,620.0	9,618.0	120.4	212.2	-89.79	181.2	-10,618.1	474.4	158.2	316.18	1.500	Caution - Monitor Closely
20,394.2	9,669.0	9,620.0	9,618.0	120.7	212.2	-89.80	181.2	-10,618.1	459.2	141.9	317.31	1.447	Take Immediate Action
20,400.0	9,669.0	9,620.0	9,618.0	120.7	212.2	-89.80	181.2	-10,618.1	454.8	137.1	317.68	1.432	Take Immediate Action
20,500.0	9,669.0	9,620.0	9,618.0	121.8	212.2	-89.80	181.2	-10,618.1	384.1	58.8	325.31	1.181	Take Immediate Action
20,600.0	9,669.0	9,620.0	9,618.0	122.9	212.2	-89.81	181.2	-10,618.1	329.0	-5.8	334.82	0.983	STOP Drilling
20,700.0	9,669.0	9,620.0	9,618.0	124.1	212.2	-89.81	181.2	-10,618.1	298.3	-44.3	342.55	0.871	STOP Drilling
20,746.4	9,669.0	9,620.0	9,618.0	124.6	212.2	-89.81	181.2	-10,618.1	294.7	-49.1	343.75	0.857	STOP Drilling, CC, ES, SF
20,800.0	9,669.0	9,620.0	9,618.0	125.2	212.2	-89.81	181.2	-10,618.1	299.5	-43.1	342.61	0.874	STOP Drilling
20,900.0	9,669.0	9,620.0	9,618.0	126.3	212.2	-89.81	181.2	-10,618.1	332.3	-2.8	335.12	0.992	STOP Drilling
21,000.0	9,669.0	9,620.0	9,618.0	127.4	212.2	-89.81	181.2	-10,618.1	388.7	62.8	325.95	1.193	Take Immediate Action
21,100.0	9,669.0	9,620.0	9,618.0	128.5	212.2	-89.81	181.2	-10,618.1	460.3	141.7	318.57	1.445	Take Immediate Action
21,200.0	9,669.0	9,620.0	9,618.0	129.6	212.2	-89.81	181.2	-10,618.1	540.9	227.5	313.36	1.726	Caution - Monitor Closely
21,300.0	9,669.0	9,620.0	9,618.0	130.8	212.2	-89.81	181.2	-10,618.1	627.1	317.3	309.80	2.024	Caution - Monitor Closely
21,400.0	9,669.0	9,620.0	9,618.0	131.9	212.2	-89.81	181.2	-10,618.1	716.9	409.6	307.34	2.333	Caution - Monitor Closely
21,500.0	9,669.0	9,620.0	9,618.0	133.0	212.2	-89.81	181.2	-10,618.1	809.1	503.5	305.60	2.648	Normal Operations
21,600.0	9,669.0	9,620.0	9,618.0	134.1	212.2	-89.81	181.2	-10,618.1	903.0	598.7	304.34	2.967	Normal Operations
21,700.0	9,669.0	9,620.0	9,618.0	135.2	212.2	-89.81	181.2	-10,618.1	998.1	694.6	303.42	3.289	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: CHAOS FEDERAL COM PROJECT - CHAOS FEDERAL COM 701H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+SAG+FDIR, 9439-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-107.97	-18.3	-56.5	59.4				
100.0	100.0	99.0	99.0	0.9	0.6	-107.97	-18.3	-56.5	59.4	57.4	1.97	30.198	
200.0	200.0	199.0	199.0	1.5	1.1	-107.97	-18.3	-56.5	59.4	56.3	3.04	19.534	
300.0	300.0	299.0	299.0	1.9	1.4	-107.97	-18.3	-56.5	59.4	55.6	3.79	15.682	
400.0	400.0	399.0	399.0	2.3	1.7	-107.97	-18.3	-56.5	59.4	55.0	4.40	13.504	
500.0	500.0	499.0	499.0	2.6	1.9	-107.97	-18.3	-56.5	59.4	54.4	4.93	12.049	
600.0	600.0	599.0	599.0	2.9	2.1	-107.97	-18.3	-56.5	59.4	54.0	5.40	10.986	
700.0	700.0	699.0	699.0	3.1	2.3	-107.97	-18.3	-56.5	59.4	53.5	5.84	10.163	
800.0	800.0	799.0	799.0	3.4	2.5	-107.97	-18.3	-56.5	59.4	53.1	6.25	9.501	
900.0	900.0	899.0	899.0	3.6	2.7	-107.97	-18.3	-56.5	59.4	52.7	6.63	8.953	
1,000.0	1,000.0	999.0	999.0	3.8	2.9	-107.97	-18.3	-56.5	59.4	52.4	6.99	8.489	
1,100.0	1,100.0	1,099.0	1,099.0	4.0	3.1	-107.97	-18.3	-56.5	59.4	52.0	7.34	8.089	
1,200.0	1,200.0	1,199.0	1,199.0	4.2	3.2	-107.97	-18.3	-56.5	59.4	51.7	7.67	7.740	
1,300.0	1,300.0	1,299.1	1,299.1	4.4	3.5	-109.63	-19.9	-55.8	59.3	51.3	7.99	7.419	
1,354.0	1,354.0	1,353.0	1,353.0	4.5	3.7	-111.92	-22.1	-54.9	59.2	51.0	8.21	7.217 CC	
1,400.0	1,400.0	1,399.0	1,398.8	4.6	3.8	-114.65	-24.7	-53.9	59.3	50.9	8.40	7.063 ES	
1,500.0	1,500.0	1,498.3	1,497.8	4.8	4.1	-122.85	-32.7	-50.7	60.3	51.5	8.81	6.849 SF	
1,600.0	1,600.0	1,597.0	1,595.7	4.9	4.4	-133.46	-43.8	-46.2	63.8	54.5	9.25	6.890	
1,700.0	1,700.0	1,694.7	1,692.3	5.1	4.7	-144.96	-57.9	-40.6	71.0	61.2	9.73	7.292	
1,800.0	1,800.0	1,791.3	1,787.1	5.3	5.0	-155.68	-74.7	-33.8	82.9	72.6	10.22	8.110	
1,900.0	1,900.0	1,886.5	1,880.0	5.4	5.3	-164.64	-94.3	-25.9	99.6	88.9	10.68	9.329	
2,000.0	2,000.0	1,981.4	1,971.8	5.6	5.4	-171.69	-116.4	-17.0	120.8	109.8	11.00	10.978	
2,100.0	2,100.0	2,077.8	2,064.9	5.8	5.6	136.99	-139.6	-7.7	145.1	133.7	11.39	12.739	
2,200.0	2,199.8	2,173.7	2,157.6	6.0	5.7	134.11	-162.6	1.6	172.5	160.7	11.75	14.672	
2,300.0	2,299.5	2,269.1	2,249.7	6.2	5.9	132.61	-185.5	10.8	202.3	190.2	12.11	16.712	
2,400.0	2,398.7	2,363.8	2,341.2	6.4	6.1	132.00	-208.2	20.0	234.4	222.0	12.45	18.828	
2,500.0	2,497.5	2,457.7	2,431.9	6.6	6.3	131.96	-230.8	29.0	268.7	256.0	12.80	21.004	
2,600.0	2,595.6	2,550.7	2,521.7	6.8	6.5	132.28	-253.1	38.0	305.3	292.2	13.14	23.233	
2,625.0	2,620.0	2,573.7	2,544.0	6.9	6.5	132.40	-258.6	40.2	314.8	301.6	13.20	23.838	
2,700.0	2,693.3	2,642.9	2,610.8	6.9	6.6	133.17	-275.3	46.9	343.5	330.1	13.42	25.592	
2,800.0	2,790.9	2,735.2	2,699.9	7.1	6.8	134.02	-297.4	55.8	381.8	368.1	13.74	27.790	
2,900.0	2,888.5	2,827.4	2,789.0	7.2	7.0	134.71	-319.5	64.7	420.2	406.2	14.06	29.883	
3,000.0	2,986.2	2,919.6	2,878.0	7.4	7.2	135.28	-341.7	73.7	458.7	444.3	14.39	31.876	
3,100.0	3,083.8	3,011.8	2,967.1	7.5	7.4	135.77	-363.8	82.6	497.2	482.4	14.72	33.773	
3,200.0	3,181.4	3,104.1	3,056.2	7.7	7.6	136.19	-386.0	91.5	535.7	520.6	15.06	35.579	
3,300.0	3,279.1	3,196.3	3,145.3	7.8	7.8	136.55	-408.1	100.4	574.2	558.8	15.39	37.298	
3,400.0	3,376.7	3,288.5	3,234.4	8.0	8.0	136.86	-430.3	109.3	612.7	597.0	15.74	38.936	
3,500.0	3,474.3	3,380.7	3,323.4	8.1	8.1	137.14	-452.4	118.2	651.3	635.2	16.08	40.496	
3,600.0	3,571.9	3,473.0	3,412.5	8.3	8.3	137.39	-474.6	127.1	689.9	673.4	16.43	41.983	
3,700.0	3,669.6	3,565.2	3,501.6	8.5	8.5	137.61	-496.7	136.0	728.4	711.7	16.78	43.401	
3,800.0	3,767.2	3,657.4	3,590.7	8.6	8.7	137.81	-518.8	144.9	767.0	749.9	17.14	44.754	
3,900.0	3,864.8	3,749.6	3,679.8	8.8	8.9	137.99	-541.0	153.9	805.6	788.1	17.50	46.045	
4,000.0	3,962.5	3,841.9	3,768.9	9.0	9.1	138.15	-563.1	162.8	844.2	826.4	17.86	47.279	
4,100.0	4,060.1	3,934.1	3,857.9	9.2	9.3	138.30	-585.3	171.7	882.8	864.6	18.22	48.457	
4,200.0	4,157.7	4,026.3	3,947.0	9.3	9.5	138.44	-607.4	180.6	921.4	902.9	18.58	49.584	
4,300.0	4,255.4	4,118.5	4,036.1	9.5	9.7	138.57	-629.6	189.5	960.1	941.1	18.95	50.661	
4,400.0	4,353.0	4,210.7	4,125.2	9.7	9.9	138.68	-651.7	198.4	998.7	979.4	19.32	51.692	

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 CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: CHAOS FEDERAL COM PROJECT - CHAOS FEDERAL COM 702H - OWB - PWP1 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1+SAG+FDIR, 9297-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-108.26	-9.1	-27.7	29.2				
100.0	100.0	100.0	100.0	0.9	0.9	-108.26	-9.1	-27.7	29.2	27.0	2.22	13.141	
200.0	200.0	200.0	200.0	1.5	1.5	-108.26	-9.1	-27.7	29.2	25.8	3.44	8.485	
300.0	300.0	300.0	300.0	1.9	1.9	-108.26	-9.1	-27.7	29.2	24.9	4.30	6.798	
400.0	400.0	400.0	400.0	2.3	2.3	-108.26	-9.1	-27.7	29.2	24.2	5.00	5.845	
500.0	500.0	500.0	500.0	2.6	2.6	-108.26	-9.1	-27.7	29.2	23.6	5.61	5.208	
600.0	600.0	600.0	600.0	2.9	2.9	-108.26	-9.1	-27.7	29.2	23.1	6.16	4.743	
700.0	700.0	700.0	700.0	3.1	3.1	-108.26	-9.1	-27.7	29.2	22.5	6.66	4.383	
800.0	800.0	800.0	800.0	3.4	3.4	-108.26	-9.1	-27.7	29.2	22.1	7.14	4.093	
900.0	900.0	900.0	900.0	3.6	3.6	-108.26	-9.1	-27.7	29.2	21.6	7.58	3.854	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-108.26	-9.1	-27.7	29.2	21.2	8.00	3.651	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-108.26	-9.1	-27.7	29.2	20.8	8.40	3.476	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-108.26	-9.1	-27.7	29.2	20.4	8.79	3.324	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-108.26	-9.1	-27.7	29.2	20.1	9.16	3.189	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-108.26	-9.1	-27.7	29.2	19.7	9.52	3.069	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-108.26	-9.1	-27.7	29.2	19.3	9.87	2.961	Normal Operations
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-108.26	-9.1	-27.7	29.2	19.0	10.20	2.862	Normal Operations
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-108.26	-9.1	-27.7	29.2	18.7	10.53	2.773	Normal Operations
1,800.0	1,800.0	1,800.0	1,800.0	5.3	5.3	-108.26	-9.1	-27.7	29.2	18.4	10.86	2.691	Normal Operations
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-108.26	-9.1	-27.7	29.2	18.0	11.17	2.615	Normal Operations
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-108.26	-9.1	-27.7	29.2	17.7	11.48	2.545	Normal Operations, CC, ES
2,100.0	2,100.0	2,100.4	2,100.4	5.8	5.8	-158.94	-10.4	-26.5	30.0	18.2	11.85	2.536	Normal Operations, SF
2,200.0	2,199.8	2,200.5	2,200.3	6.0	6.0	-170.44	-14.0	-22.6	33.5	21.3	12.18	2.747	Normal Operations
2,300.0	2,299.5	2,299.9	2,299.3	6.2	6.2	175.67	-19.9	-16.3	41.4	28.9	12.51	3.309	
2,400.0	2,398.7	2,398.3	2,397.0	6.4	6.4	163.89	-28.1	-7.7	55.0	42.2	12.83	4.286	
2,500.0	2,497.5	2,495.3	2,492.8	6.6	6.6	155.45	-38.5	3.3	74.3	61.1	13.14	5.655	
2,600.0	2,595.6	2,590.7	2,586.5	6.8	6.8	149.68	-50.8	16.3	98.9	85.4	13.43	7.360	
2,625.0	2,620.0	2,614.2	2,609.5	6.9	6.9	148.54	-54.2	19.9	105.8	92.3	13.48	7.849	
2,700.0	2,693.3	2,684.4	2,677.9	6.9	7.0	145.66	-65.1	31.4	127.6	114.0	13.64	9.355	
2,800.0	2,790.9	2,779.0	2,769.7	7.1	7.2	142.51	-80.8	48.0	157.9	144.0	13.89	11.368	
2,900.0	2,888.5	2,874.0	2,861.9	7.2	7.3	140.35	-96.6	64.7	188.5	174.4	14.15	13.323	
3,000.0	2,986.2	2,969.0	2,954.0	7.4	7.4	138.79	-112.3	81.4	219.3	204.9	14.42	15.212	
3,100.0	3,083.8	3,064.0	3,046.2	7.5	7.6	137.62	-128.1	98.1	250.2	235.5	14.69	17.030	
3,200.0	3,181.4	3,159.0	3,138.4	7.7	7.7	136.70	-143.9	114.8	281.2	266.2	14.98	18.778	
3,300.0	3,279.1	3,254.0	3,230.6	7.8	7.8	135.97	-159.7	131.5	312.3	297.0	15.26	20.457	
3,400.0	3,376.7	3,349.0	3,322.7	8.0	8.0	135.37	-175.5	148.2	343.3	327.8	15.56	22.068	
3,500.0	3,474.3	3,443.9	3,414.9	8.1	8.1	134.86	-191.3	164.9	374.4	358.6	15.86	23.613	
3,600.0	3,571.9	3,538.9	3,507.1	8.3	8.3	134.44	-207.1	181.6	405.6	389.4	16.16	25.095	
3,700.0	3,669.6	3,633.9	3,599.2	8.5	8.5	134.08	-222.9	198.3	436.7	420.2	16.47	26.517	
3,800.0	3,767.2	3,728.9	3,691.4	8.6	8.6	133.76	-238.7	215.0	467.9	451.1	16.78	27.880	
3,900.0	3,864.8	3,823.9	3,783.6	8.8	8.8	133.48	-254.5	231.7	499.0	481.9	17.10	29.186	
4,000.0	3,962.5	3,918.9	3,875.7	9.0	8.9	133.24	-270.3	248.4	530.2	512.8	17.42	30.440	
4,100.0	4,060.1	4,013.9	3,967.9	9.2	9.1	133.02	-286.1	265.1	561.4	543.7	17.74	31.642	
4,200.0	4,157.7	4,108.9	4,060.1	9.3	9.3	132.83	-301.9	281.8	592.6	574.5	18.07	32.795	
4,300.0	4,255.4	4,203.9	4,152.2	9.5	9.5	132.65	-317.7	298.5	623.8	605.4	18.40	33.902	
4,400.0	4,353.0	4,298.9	4,244.4	9.7	9.6	132.50	-333.5	315.2	655.0	636.3	18.73	34.964	
4,500.0	4,450.6	4,393.9	4,336.6	9.9	9.8	132.35	-349.3	331.9	686.2	667.1	19.07	35.984	
4,600.0	4,548.2	4,488.9	4,428.8	10.1	10.0	132.22	-365.1	348.6	717.4	698.0	19.41	36.963	
4,700.0	4,645.9	4,583.9	4,520.9	10.2	10.2	132.10	-380.9	365.3	748.6	728.9	19.75	37.905	
4,800.0	4,743.5	4,678.8	4,613.1	10.4	10.3	131.99	-396.7	382.0	779.9	759.8	20.09	38.809	
4,900.0	4,841.1	4,773.8	4,705.3	10.6	10.5	131.89	-412.5	398.7	811.1	790.6	20.44	39.679	

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 CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: CHAOS FEDERAL COM PROJECT - CHAOS FEDERAL COM 702H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR, 2000-r.5 MWD+IFR1+SAG+FDIR, 9297-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,938.8	4,868.8	4,797.4	10.8	10.7	131.79	-428.2	415.4	842.3	821.5	20.79	40.515	
5,100.0	5,036.4	4,963.8	4,889.6	11.0	10.9	131.71	-444.0	432.1	873.5	852.4	21.14	41.320	
5,200.0	5,134.0	5,058.8	4,981.8	11.2	11.1	131.63	-459.8	448.8	904.7	883.2	21.49	42.095	
5,300.0	5,231.7	5,153.8	5,073.9	11.4	11.3	131.55	-475.6	465.5	936.0	914.1	21.85	42.841	
5,400.0	5,329.3	5,248.8	5,166.1	11.6	11.4	131.48	-491.4	482.2	967.2	945.0	22.20	43.559	
5,500.0	5,426.9	5,343.8	5,258.3	11.8	11.6	131.41	-507.2	498.9	998.4	975.9	22.56	44.251	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: CHAOS FEDERAL COM PROJECT - HARROUN COM 001_PA - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 500-r.5 INC-ONLY

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
16,000.0	9,669.0	9,667.2	9,661.0	72.0	301.0	-90.00	214.6	-6,815.6	975.9	553.6	422.31	2.311	Caution - Monitor Closely
16,100.0	9,669.0	9,667.2	9,661.0	73.1	301.0	-90.00	214.6	-6,815.6	880.8	458.2	422.59	2.084	Caution - Monitor Closely
16,200.0	9,669.0	9,667.2	9,661.0	74.2	301.0	-90.00	214.6	-6,815.6	786.8	363.8	422.97	1.860	Caution - Monitor Closely
16,300.0	9,669.0	9,667.2	9,661.0	75.3	301.0	-90.00	214.6	-6,815.6	694.5	271.0	423.51	1.640	Caution - Monitor Closely
16,400.0	9,669.0	9,667.2	9,661.0	76.4	301.0	-90.00	214.6	-6,815.6	604.6	180.3	424.28	1.425	Take Immediate Action
16,500.0	9,669.0	9,667.2	9,661.0	77.5	301.0	-90.00	214.6	-6,815.6	518.5	93.1	425.43	1.219	Take Immediate Action
16,600.0	9,669.0	9,667.2	9,661.0	78.6	301.0	-90.00	214.6	-6,815.6	438.3	11.1	427.17	1.026	Take Immediate Action
16,700.0	9,669.0	9,667.2	9,661.0	79.7	301.0	-90.00	214.6	-6,815.6	368.0	-61.8	429.74	0.856	STOP Drilling
16,800.0	9,669.0	9,667.2	9,661.0	80.9	301.0	-90.00	214.6	-6,815.6	314.1	-118.9	433.00	0.725	STOP Drilling
16,900.0	9,669.0	9,667.2	9,661.0	82.0	301.0	-90.00	214.6	-6,815.6	286.3	-149.3	435.53	0.657	STOP Drilling
16,933.9	9,669.0	9,667.2	9,661.0	82.3	301.0	-90.00	214.6	-6,815.6	284.3	-151.5	435.79	0.652	STOP Drilling, CC, ES, SF
17,000.0	9,669.0	9,667.2	9,661.0	83.1	301.0	-90.00	214.6	-6,815.6	291.9	-143.2	435.17	0.671	STOP Drilling
17,100.0	9,669.0	9,667.2	9,661.0	84.2	301.0	-90.00	214.6	-6,815.6	329.4	-103.0	432.38	0.762	STOP Drilling
17,200.0	9,669.0	9,667.2	9,661.0	85.3	301.0	-90.00	214.6	-6,815.6	389.6	-39.8	429.36	0.907	STOP Drilling
17,300.0	9,669.0	9,667.2	9,661.0	86.4	301.0	-90.00	214.6	-6,815.6	463.8	36.7	427.09	1.086	Take Immediate Action
17,400.0	9,669.0	9,667.2	9,661.0	87.5	301.0	-90.00	214.6	-6,815.6	546.2	120.7	425.56	1.284	Take Immediate Action
17,500.0	9,669.0	9,667.2	9,661.0	88.6	301.0	-90.00	214.6	-6,815.6	633.7	209.2	424.53	1.493	Take Immediate Action
17,600.0	9,669.0	9,667.2	9,661.0	89.7	301.0	-90.00	214.6	-6,815.6	724.5	300.7	423.83	1.709	Caution - Monitor Closely
17,700.0	9,669.0	9,667.2	9,661.0	90.8	301.0	-90.00	214.6	-6,815.6	817.4	394.1	423.34	1.931	Caution - Monitor Closely
17,800.0	9,669.0	9,667.2	9,661.0	91.9	301.0	-90.00	214.6	-6,815.6	911.8	488.9	422.99	2.156	Caution - Monitor Closely

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: CHAOS FEDERAL COM PROJECT - HARROUN COM 2 - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 142-r.5 INC-ONLY

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
18,300.0	9,669.0	9,631.8	9,630.0	97.5	215.5	-90.00	249.6	-9,101.9	952.4	647.6	304.87	3.124	
18,385.6	9,669.0	9,631.8	9,630.0	98.4	215.5	-90.00	249.6	-9,101.9	873.1	567.5	305.53	2.858	Normal Operations
18,400.0	9,669.0	9,631.8	9,630.0	98.6	215.5	-90.00	249.6	-9,101.9	859.9	554.2	305.66	2.813	Normal Operations
18,500.0	9,669.0	9,631.8	9,630.0	99.7	215.5	-90.00	249.6	-9,101.9	769.8	463.0	306.81	2.509	Normal Operations
18,600.0	9,669.0	9,631.8	9,630.0	100.8	215.5	-90.00	249.6	-9,101.9	682.5	374.1	308.46	2.213	Caution - Monitor Closely
18,700.0	9,669.0	9,631.8	9,630.0	101.9	215.5	-90.00	249.6	-9,101.9	599.2	288.3	310.87	1.928	Caution - Monitor Closely
18,800.0	9,669.0	9,631.8	9,630.0	103.0	215.5	-90.00	249.6	-9,101.9	521.8	207.4	314.40	1.660	Caution - Monitor Closely
18,885.6	9,669.0	9,631.8	9,630.0	104.0	215.5	-90.00	249.6	-9,101.9	462.5	143.9	318.59	1.452	Take Immediate Action
18,900.0	9,669.0	9,631.8	9,630.0	104.1	215.5	-90.00	249.6	-9,101.9	453.2	133.8	319.41	1.419	Take Immediate Action
19,000.0	9,669.0	9,631.8	9,630.0	105.3	215.5	-90.00	249.6	-9,101.9	396.3	70.5	325.81	1.216	Take Immediate Action
19,100.0	9,669.0	9,631.8	9,630.0	106.4	215.5	-90.00	249.6	-9,101.9	355.4	23.0	332.40	1.069	Take Immediate Action
19,200.0	9,669.0	9,631.8	9,630.0	107.5	215.5	-90.00	249.6	-9,101.9	336.4	0.0	336.37	1.000	Take Immediate Action
19,210.6	9,669.0	9,631.8	9,630.0	107.6	215.5	-90.00	249.6	-9,101.9	335.9	-0.6	336.50	0.998	STOP Drilling
19,222.7	9,669.0	9,631.8	9,630.0	107.7	215.5	-90.00	249.6	-9,101.9	335.7	-0.9	336.58	0.997	STOP Drilling, CC, ES, SF
19,260.6	9,669.0	9,631.8	9,630.0	108.2	215.5	-90.00	249.6	-9,101.9	337.8	1.5	336.29	1.004	Take Immediate Action
19,300.0	9,669.0	9,631.8	9,630.0	108.6	215.5	-90.00	249.6	-9,101.9	344.2	9.0	335.19	1.027	Take Immediate Action
19,400.0	9,669.0	9,631.8	9,630.0	109.7	215.5	-90.00	249.6	-9,101.9	376.6	46.7	329.85	1.142	Take Immediate Action
19,500.0	9,669.0	9,631.8	9,630.0	110.8	215.5	-90.00	249.6	-9,101.9	427.5	104.1	323.40	1.322	Take Immediate Action
19,585.6	9,669.0	9,631.8	9,630.0	111.8	215.5	-90.00	249.6	-9,101.9	481.4	162.9	318.50	1.512	Caution - Monitor Closely
19,600.0	9,669.0	9,631.8	9,630.0	111.9	215.5	-90.00	249.6	-9,101.9	491.3	173.5	317.77	1.546	Caution - Monitor Closely
19,700.0	9,669.0	9,631.8	9,630.0	113.0	215.5	-90.00	249.6	-9,101.9	564.8	251.2	313.57	1.801	Caution - Monitor Closely
19,800.0	9,669.0	9,631.8	9,630.0	114.1	215.5	-90.00	249.6	-9,101.9	645.5	334.9	310.62	2.078	Caution - Monitor Closely
19,900.0	9,669.0	9,631.8	9,630.0	115.2	215.5	-90.00	249.6	-9,101.9	731.0	422.4	308.59	2.369	Caution - Monitor Closely
20,000.0	9,669.0	9,631.8	9,630.0	116.3	215.5	-90.00	249.6	-9,101.9	819.7	512.6	307.17	2.669	Normal Operations
20,100.0	9,669.0	9,631.8	9,630.0	117.4	215.5	-90.00	249.6	-9,101.9	910.9	604.7	306.18	2.975	Normal Operations

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design: CHAOS FEDERAL COM PROJECT - NE LOVING 34 FEDERAL 2_PA - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 500-r.5 INC-ONLY

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	167.93	-903.6	193.3	924.2				
100.0	100.0	82.0	82.0	0.9	4.0	167.93	-903.6	193.3	924.0	917.8	6.26	147.712	
200.0	200.0	182.0	182.0	1.5	9.0	167.93	-903.6	193.3	924.0	910.9	13.18	70.116	
300.0	300.0	282.0	282.0	1.9	13.9	167.93	-903.6	193.3	924.0	904.0	20.07	46.033	
400.0	400.0	382.0	382.0	2.3	18.8	167.93	-903.6	193.3	924.0	897.1	26.96	34.272	
500.0	500.0	482.0	482.0	2.6	23.8	167.93	-903.6	193.3	924.0	890.2	33.85	27.299	
600.0	600.0	582.2	582.0	2.9	27.3	167.93	-903.6	193.3	924.0	885.3	38.75	23.846	
700.0	700.0	682.2	682.0	3.1	30.5	167.93	-903.6	193.3	924.0	880.8	43.20	21.389	
767.9	767.9	750.1	749.8	3.3	32.6	167.89	-900.3	193.3	920.9	874.6	46.22	19.923	
800.0	800.0	779.5	779.1	3.4	33.6	167.89	-900.4	193.3	920.9	873.4	47.53	19.376	
900.0	900.0	871.0	870.6	3.6	36.5	167.90	-901.1	193.3	921.7	870.1	51.60	17.863	
1,000.0	1,000.0	962.6	962.2	3.8	39.4	167.92	-902.7	193.3	923.4	867.7	55.66	16.589	
1,100.0	1,100.0	1,082.6	1,082.0	4.0	43.1	167.93	-903.6	193.3	924.0	863.2	60.89	15.176	
1,200.0	1,200.0	1,182.6	1,182.0	4.2	46.2	167.93	-903.6	193.3	924.0	858.9	65.19	14.175	
1,267.3	1,267.3	1,249.9	1,249.3	4.3	48.3	167.91	-902.5	193.3	923.0	854.9	68.09	13.556	
1,300.0	1,300.0	1,281.6	1,281.0	4.4	49.2	167.91	-902.5	193.3	923.0	853.5	69.45	13.290	
1,400.0	1,400.0	1,378.5	1,378.0	4.6	52.2	167.92	-902.8	193.3	923.3	849.7	73.62	12.541	
1,500.0	1,500.0	1,475.5	1,474.9	4.8	55.2	167.93	-903.4	193.3	923.9	846.1	77.79	11.877	
1,600.0	1,600.0	1,582.9	1,582.0	4.9	58.5	167.93	-903.6	193.3	924.0	841.7	82.37	11.218	
1,700.0	1,700.0	1,682.9	1,682.0	5.1	61.5	167.93	-903.6	193.3	924.0	837.4	86.62	10.668	
1,767.0	1,767.0	1,749.8	1,748.9	5.2	63.6	167.89	-900.3	193.3	920.9	831.4	89.47	10.293 CC	
1,800.0	1,800.0	1,780.1	1,779.1	5.3	64.5	167.89	-900.4	193.3	920.9	830.2	90.75	10.148	
1,900.0	1,900.0	1,871.6	1,870.6	5.4	67.3	167.90	-901.1	193.3	921.7	827.0	94.64	9.739	
2,000.0	2,000.0	1,963.2	1,962.1	5.6	70.1	167.92	-902.7	193.3	923.4	824.9	98.51	9.373	
2,100.0	2,100.0	2,083.2	2,082.0	5.8	73.7	121.71	-903.6	193.3	925.0	821.3	103.62	8.927	
2,200.0	2,199.8	2,183.1	2,181.8	6.0	76.7	121.94	-903.6	193.3	927.7	819.9	107.84	8.603	
2,300.0	2,299.5	2,281.7	2,280.4	6.2	79.7	122.29	-902.5	193.3	931.3	819.3	112.00	8.315 ES	
2,400.0	2,398.7	2,377.8	2,376.6	6.4	82.6	122.79	-902.8	193.3	938.2	822.1	116.07	8.083	
2,500.0	2,497.5	2,473.4	2,472.2	6.6	85.5	123.40	-903.4	193.3	947.4	827.3	120.11	7.888	
2,600.0	2,595.6	2,579.2	2,577.6	6.8	88.7	124.23	-903.6	193.3	958.4	833.8	124.57	7.693	
2,625.0	2,620.0	2,603.6	2,602.0	6.9	89.5	124.44	-903.6	193.3	961.4	835.8	125.60	7.655	
2,700.0	2,693.3	2,676.8	2,675.3	6.9	91.7	125.22	-903.6	193.3	970.8	842.1	128.68	7.544	
2,800.0	2,790.9	2,772.2	2,770.6	7.1	94.5	126.18	-900.4	193.3	980.4	847.7	132.70	7.388	
2,900.0	2,888.5	2,860.8	2,859.1	7.2	97.2	127.09	-901.0	193.3	994.3	857.8	136.43	7.288 SF	

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

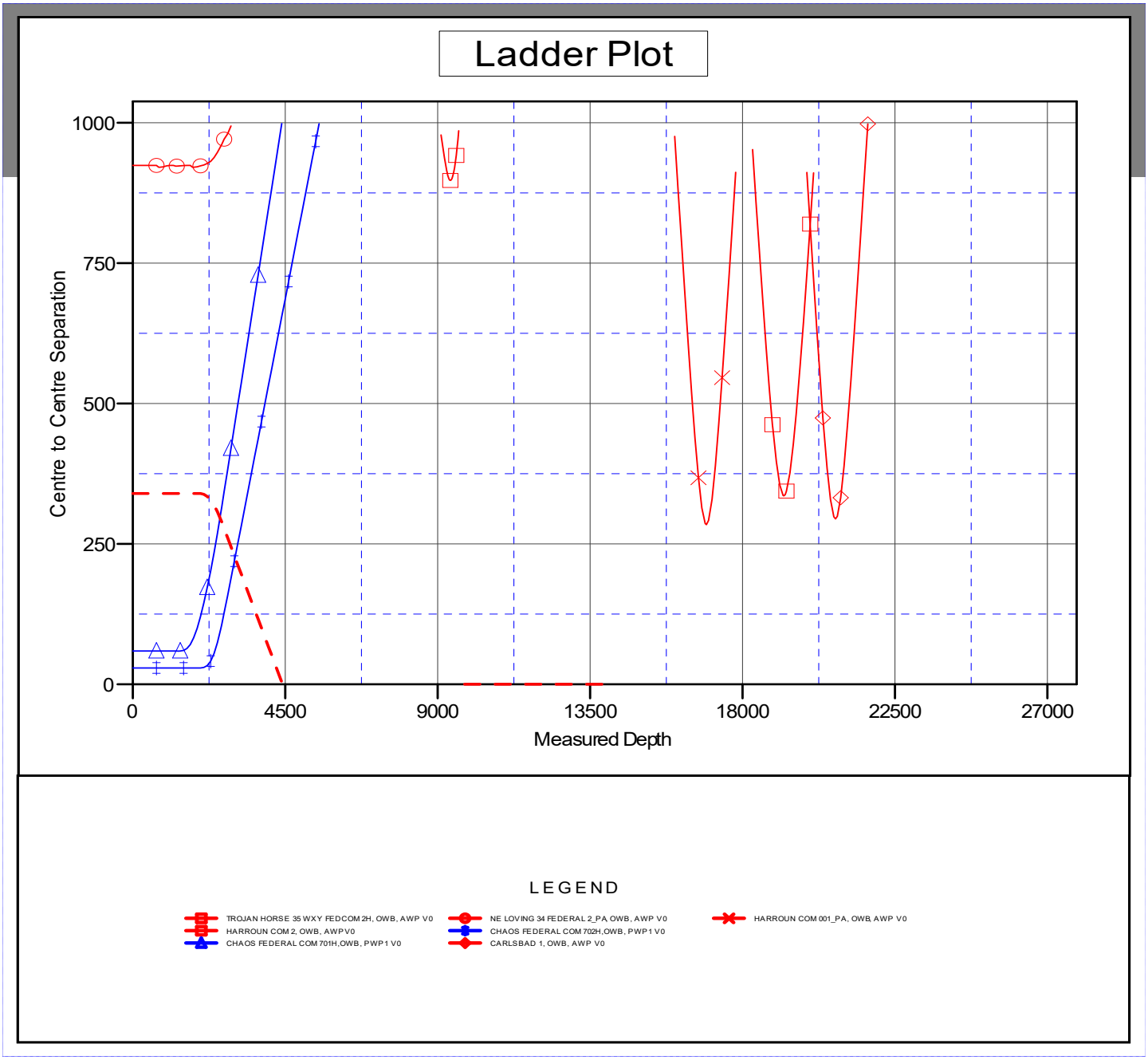
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to RKB=23ft @ 3094.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CHAOS FEDERAL COM 700H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.14°



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

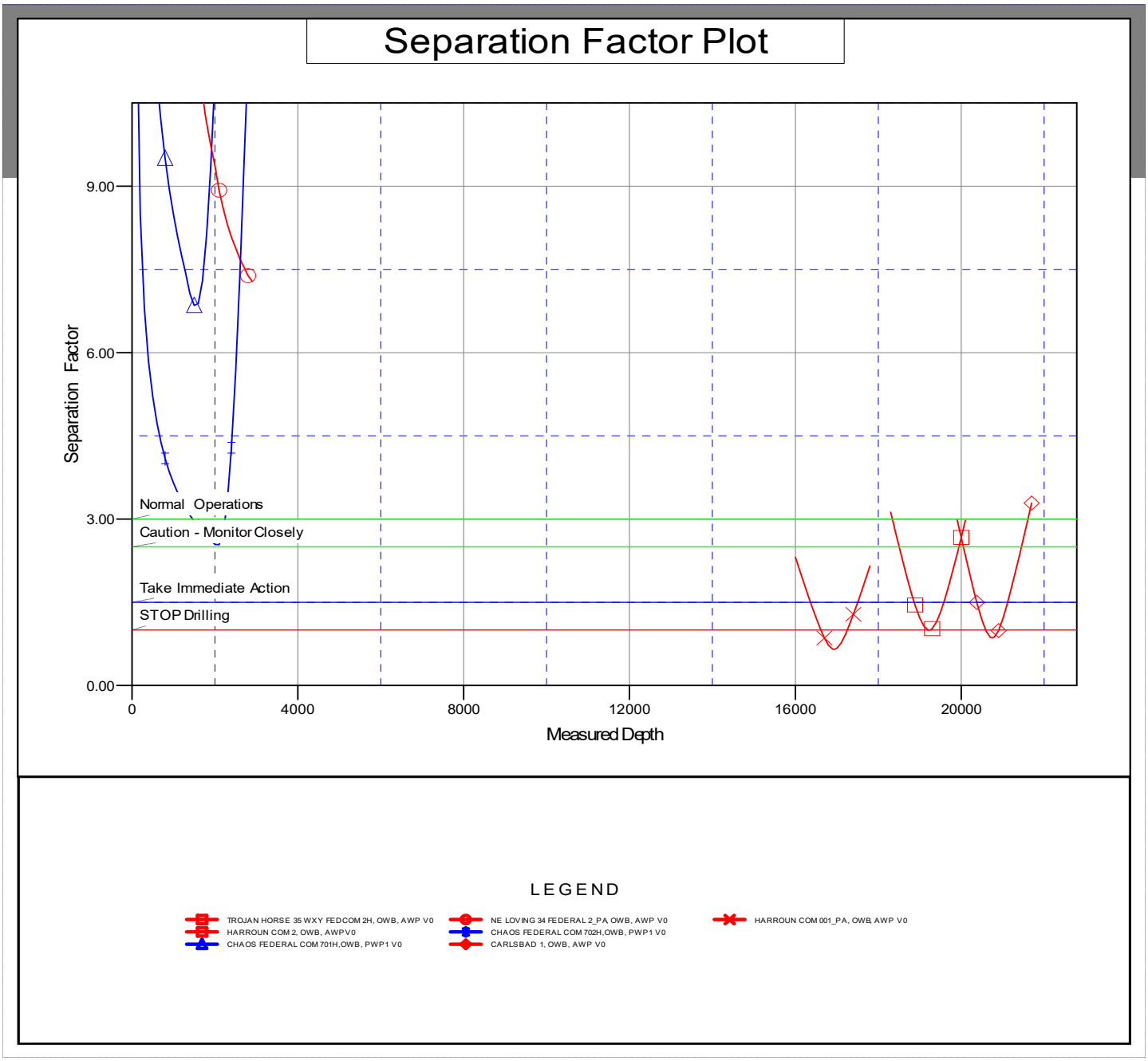
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well CHAOS FEDERAL COM 700H
Project:	ATLAS PROSPECT_NME	**TVD Reference:**	RKB=23ft @ 3094.0usft
Reference Site:	CHAOS FEDERAL COM PROJECT	**MD Reference:**	RKB=23ft @ 3094.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	CHAOS FEDERAL COM 700H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to RKB=23ft @ 3094.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CHAOS FEDERAL COM 700H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.14°



From: Wagner, Stan S
To: Lowe, Leonard, EMNRD
Cc: Rikala, Ward, EMNRD
Subject: [EXTERNAL] RE: [EXTERNAL]NSL Application - Marathon Oil - Chaos WC Federal Com Well No. 700H - CONFLICTING INFORMATION and NOTICE NOT COMPLETED
Date: Monday, December 22, 2025 6:35:26 AM
Attachments: image001.png
image002.png

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Leonard the HSU is 1920. The NSP will be handled in the pooling order. Please do not reject this application and I will address the subsequent issues after the holidays.

From: Lowe, Leonard, EMNRD <Leonard.Lowe@emnrd.nm.gov>
Sent: Friday, December 19, 2025 4:43 PM
To: Wagner, Stan S <Stan.S.Wagner@conocophillips.com>
Cc: Rikala, Ward, EMNRD <Ward.Rikala@emnrd.nm.gov>
Subject: [EXTERNAL]NSL Application - Marathon Oil - Chaos WC Federal Com Well No. 700H - CONFLICTING INFORMATION and NOTICE NOT COMPLETED
Importance: High

CAUTION:This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Stan Wagner,

The NSL application review for the above subject well has drawn some questions.

1. What is the Horizontal Spacing Unit this well is seeking? It is noted in the application TWO HSU references, see below.
   a. S/2 of Section 34, Section 33, Section 32, indicating an acreage of 960 acres for the S/2 of three sections.

      Reference: Non-Standard Location – Chaos Federal Com #700H
      S/2 Sections 34, 33, 32, T22S-R28E (the "Lands")
      Eddy County, New Mexico

   b. The NSL letter states, HSU is all three sections, 32, 33, & 34.

      The Horizontal Spacing Unit will be 1920 acres, all of Sec 32, all of Sec 33, all of Sec. 34-22S-28E as shown on the enclosed C-102. The HSU defining well for this spacing unit is 701H, 30-015-53642.

2. Your NSL application states that the following well is the defining well: 30-015-53642 (Chaos CS Federal Com Well No. 701H). This well is not a DEFINING WELL to create the larger HSU. The 701H well actually needs an NSL order as well. The 701H well has Take Points that are less than 660 feet towards the northern boundary of its HSU. Making this well non standard toward the northern boundary. Depending on what the real HSU is for the No. 700H well. Please provide an NSL application for the 701H well as it is encroaching towards the northern boundry of its HSU. The C-104 for this the 701H well will not be approved until an approved NSL is received. Also, the No. 700H and No. 701H wells will need an apporved NSP in order to produce from this HSU.

3. The location where the well went NSL appears to be at the N/2 NW/4 Section 33, 265 feet towards the north. For the purple sage; W.C. pool, notice needs to be provided to 160 (QTR building block) of the encroached upon area. Notice should have been provided to the SW/4 Section 28. I am going to assume that notices was only provided towards the S/2 SW/4 Section 28. According to the Yellow Rectangle ("M" & "N"). The map does not have a legend describing what is on the map, it only states "Offset Affected Party Map".

4. Your NSL application also provided a signed waiver from MRC Permian. Is this Affected Party located entirely in the SW/4 Section 28? If so, then No. 3 above is covered. If not then notice will need to be provided entirely to the SW/4 section 28. Please ensure that any maps or schematics provided within any application submitted to the OCD have a legend to discribe the information provided.

The OCD will need to cancel this application, if Marathon Oil Permian, LLC still wishes to move forward with this well's NSL application, it must clarify the above information. There are too many errors and confusing information within the application.

Leonard R. Lowe
Engineering Bureau
OCD/EMNRD
5400 Oakland Ave.
Albuquerque, N.M 87113
Cell/Office Phone: 505-584-8351
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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 511095

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 372098
	Action Number: 511095
	Action Type: [UF-NSL] Non-Standard Location (NSL)

CONDITIONS

Created By	Condition	Condition Date
llowe	None	10/1/2025