Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM030452

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.: NMNM071016X/POKER LAKE UNIT

8. Lease Name and Well No.: POKER LAKE UNIT 23 DTD 444H

2. Name of Operator: XTO PERMIAN OPERATING LLC

9. API Well No.: 30-015-55918

3a. Address: 6401 HOLIDAY HILL ROAD BLDG 5, MIDLAND, TX 7970

3b. Phone No. *(include area code)*: (432) 683-2277

10. Field and Pool, or Exploratory: PURPLE SAGE/WOLFCAMP (GAS)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NWNE / 1152 FNL / 1681 FEL / LAT 32.207469 / LONG -103.848414

At proposed prod. zone: SENW / 2627 FNL / 2366 FWL / LAT 32.174409 / LONG -103.852564

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 23/T24S/R30E/NMP

14. Distance in miles and direction from nearest town or post office*: 9.3 miles

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1152 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 1600.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 30 feet

19. Proposed Depth: 12101 feet / 25092 feet

20. BLM/BIA Bond No. in file: FED: COB000050

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3429 feet

22. Approximate date work will start*: 04/10/2025

23. Estimated duration: 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature: (Electronic Submission)

Name *(Printed/Typed)*: RICHARD REDUS / Ph: (432) 682-8873

Date: 04/18/2024

Title: Permitting Manager

Approved by *(Signature)*: (Electronic Submission)

Name *(Printed/Typed)*: CODY LAYTON / Ph: (575) 234-5959

Date: 11/22/2024

Title: Assistant Field Manager Lands & Minerals

Office: Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 11/22/2024

AFMSS

U.S. Department of the Interior
Bureau of Land Management

Application for Permit to Drill

APD Package Report

Date Printed: 11/25/2024 03:50 PM

APD ID:	10400098064	Well Status:	AAPD
APD Received Date:	04/18/2024 11:55 AM	Well Name:	POKER LAKE UNIT 23 DTD
Operator:	XTO PERMIAN OPERATING LLC	Well Number:	444H

APD Package Report Contents

- Form 3160-3

- Operator Certification Report

- Application Report
- Application Attachments
  -- Well Plat: 1 file(s)

- Drilling Plan Report
- Drilling Plan Attachments
  -- Blowout Prevention Choke Diagram Attachment: 1 file(s)
  -- Blowout Prevention BOP Diagram Attachment: 1 file(s)
  -- Casing Spec Documents: 2 file(s)
  -- Casing Taperd String Specs: 2 file(s)
  -- Casing Design Assumptions and Worksheet(s): 3 file(s)
  -- Hydrogen sulfide drilling operations plan: 1 file(s)
  -- Proposed horizontal/directional/multi-lateral plan submission: 1 file(s)
  -- Other Facets: 6 file(s)
  -- Other Variances: 3 file(s)

- SUPO Report
- SUPO Attachments
  -- Existing Road Map: 1 file(s)
  -- Attach Well map: 1 file(s)
  -- Water source and transportation map: 1 file(s)
  -- Well Site Layout Diagram: 2 file(s)
  -- Recontouring attachment: 4 file(s)
  -- Other SUPO Attachment: 1 file(s)

- PWD Report
- PWD Attachments
  -- None

- Bond Report
- Bond Attachments
  -- None

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(June 2015)

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OMB No. 1004-0137
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7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*

12. County or Parish

13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
Title		
Approved by *(Signature)*	Name *(Printed/Typed)*	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 11/22/2024

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

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

Approval Date: 11/22/2024

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 1152 FNL / 1681 FEL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.207469 / LONG: -103.848414 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 2366 FWL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.210354 / LONG: -103.852628 (TVD: 12101 feet, MD: 12800 feet)

PPP: NENW / 0 FSL / 2381 FWL / TWSP: 24S / RANGE: 30E / SECTION: 26 / LAT: 32.196133 / LONG: -103.852604 (TVD: 12101 feet, MD: 18100 feet)

BHL: SENW / 2627 FNL / 2366 FWL / TWSP: 24S / RANGE: 30E / SECTION: 35 / LAT: 32.174409 / LONG: -103.852564 (TVD: 12101 feet, MD: 25092 feet)

BLM Point of Contact

Name: MARIAH HUGHES
Title: Land Law Examiner
Phone: (575) 234-5972
Email: mhughes@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

C-102 Sumbit electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONVERSION DIVISION	Revised July, 09 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-55918	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
325598	POKER LAKE UNIT 23 DTD	444H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,429'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	23	24S	30E		1,152' FNL	1,681' FEL	32.207469	-103.848414	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	35	24S	30E		2,627' FNL	2,366' FWL	32.174409	-103.852564	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1,600.00	INFILL		Y	U

Order Numbers.

Well Setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	23	24S	30E		1,152' FNL	1,681' FEL	32.207469	-103.848414	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	23	24S	30E		100' FNL	2,366' FWL	32.210354	-103.852628	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	35	24S	30E		2,537' FNL	2,366' FWL	32.174657	-103.852567	EDDY

Unitized Area or Area of Interest	Spacing Unit Type : ☒ Horizontal ☐ Vertical	Ground Elevation
NMNM105422429		3,429'

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 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 at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or a voluntary pooling agreement or a compulsory pooling order of 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 information) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Terra Sebastian — Signature

12/10/2024 — Date

Terra Sebastian — Printed Name

terra.b.sebastian@exxonmobil.com — Email Address

SURVEYOR CERTIFICATIONS

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

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786 — Certificate Number

10/28/2024 — Date of Survey

KT

618.013003.09-59

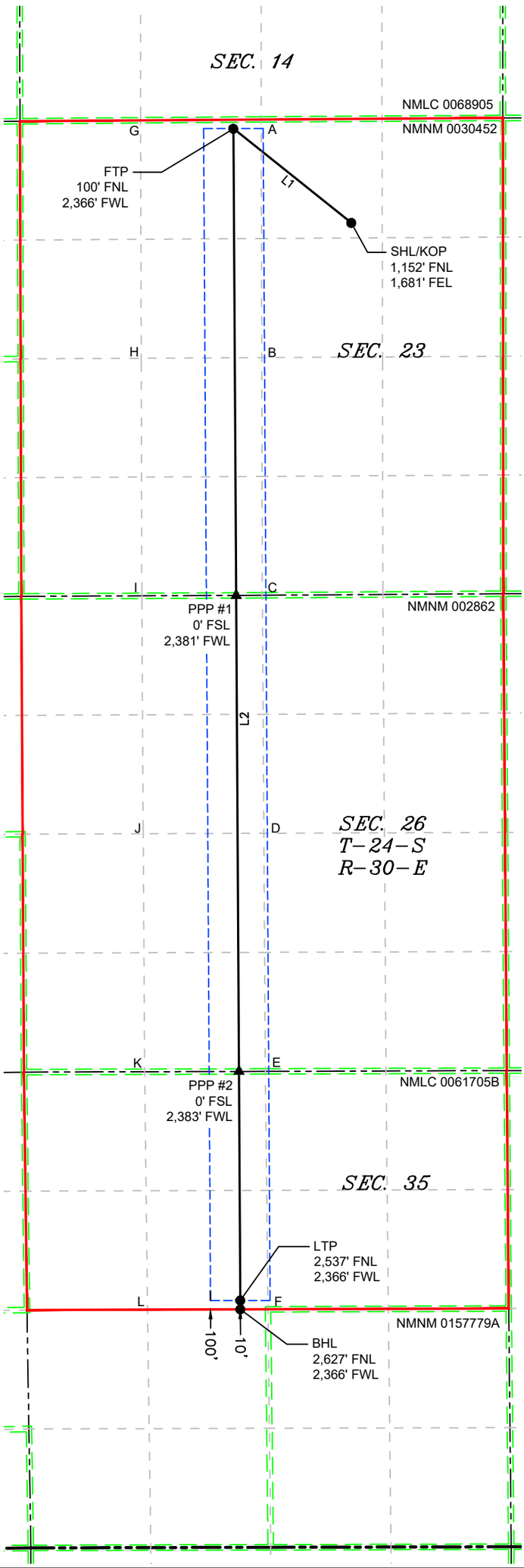
Note: No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

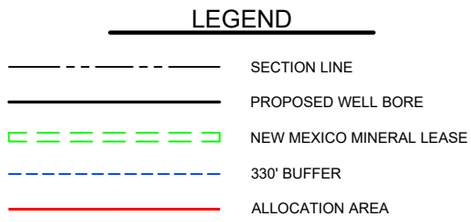
P:\618.013 XTO Energy - NM\003 Poker Lake Unit\09 - PLU 23 DTD - EDDY\Wells\59 - PLU 23 DTD - 444H\DWG\444H C-102.dwg

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 a 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 then the First Take Point and Last Take Point) that is closest to any outer boundary of the tract.

Surveyor 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 in not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	308°35'30"	1,673.47'
L2	179°39'26"	13,076.45'

COORDINATE TABLE					
SHL/KOP (NAD 83 NME)			SHL/KOP (NAD 27 NME)		
Y =	439,549.6	N	Y =	439,490.6	N
X =	691,317.9	E	X =	650,134.1	E
LAT. =	32.207469	°N	LAT. =	32.207345	°N
LONG. =	103.848414	°W	LONG. =	103.847928	°W
FTP (NAD 83 NME)			FTP (NAD 27 NME)		
Y =	440,593.4	N	Y =	440,534.4	N
X =	690,009.9	E	X =	648,826.2	E
LAT. =	32.210354	°N	LAT. =	32.210230	°N
LONG. =	103.852628	°W	LONG. =	103.852142	°W
PPP #1 (NAD 83 NME)			PPP #1 (NAD 27 NME)		
Y =	435,420.0	N	Y =	435,361.1	N
X =	690,040.6	E	X =	648,856.7	E
LAT. =	32.196133	°N	LAT. =	32.196009	°N
LONG. =	103.852604	°W	LONG. =	103.852118	°W
PPP #2 (NAD 83 NME)			PPP #2 (NAD 27 NME)		
Y =	430,144.5	N	Y =	430,085.7	N
X =	690,071.9	E	X =	648,887.8	E
LAT. =	32.181631	°N	LAT. =	32.181507	°N
LONG. =	103.852579	°W	LONG. =	103.852094	°W
LTP (NAD 83 NME)			LTP (NAD 27 NME)		
Y =	427,607.2	N	Y =	427,548.5	N
X =	690,087.0	E	X =	648,902.8	E
LAT. =	32.174657	°N	LAT. =	32.174532	°N
LONG. =	103.852567	°W	LONG. =	103.852082	°W
BHL (NAD 83 NME)			BHL (NAD 27 NME)		
Y =	427,517.2	N	Y =	427,458.5	N
X =	690,088.2	E	X =	648,903.9	E
LAT. =	32.174409	°N	LAT. =	32.174285	°N
LONG. =	103.852564	°W	LONG. =	103.852080	°W
CORNER COORDINATES (NAD 83 NME)					
A - Y =	440,695.8	N	A - X =	690,318.7	E
B - Y =	438,055.8	N	B - X =	690,325.0	E
C - Y =	435,421.3	N	C - X =	690,331.2	E
D - Y =	432,784.0	N	D - X =	690,347.4	E
E - Y =	430,145.2	N	E - X =	690,363.6	E
F - Y =	427,508.2	N	F - X =	690,393.8	E
G - Y =	440,685.6	N	G - X =	688,981.2	E
H - Y =	438,048.4	N	H - X =	688,988.5	E
I - Y =	435,415.3	N	I - X =	688,995.2	E
J - Y =	432,779.2	N	J - X =	689,010.4	E
K - Y =	430,141.2	N	K - X =	689,026.3	E
L - Y =	427,504.1	N	L - X =	689,058.0	E
CORNER COORDINATES (NAD 27 NME)					
A - Y =	440,636.8	N	A - X =	649,135.0	E
B - Y =	437,996.8	N	B - X =	649,141.1	E
C - Y =	435,362.4	N	C - X =	649,147.3	E
D - Y =	432,725.2	N	D - X =	649,163.4	E
E - Y =	430,086.5	N	E - X =	649,179.4	E
F - Y =	427,449.5	N	F - X =	649,209.6	E
G - Y =	440,626.6	N	G - X =	647,797.5	E
H - Y =	437,989.4	N	H - X =	647,804.6	E
I - Y =	435,356.4	N	I - X =	647,811.3	E
J - Y =	432,720.4	N	J - X =	647,826.4	E
K - Y =	430,082.4	N	K - X =	647,842.2	E
L - Y =	427,445.4	N	L - X =	647,873.8	E

KT 618.013003.09-59

\618.013 XTO Energy - NM\003 Poker Lake Unit\.09 - PLU 23 DTD - EDDY\Wells\-59 - PLU 23 DTD - 444H\DWG\444H C-102.dwg

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: ____XTO Permian Operating, LLC____ **OGRID:** _____373075_____ **Date:** __11__/_4___/__2024___

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	3 yr Anticipated Decline oil BBL/D	Anticipated Gas MCF/D	3 yr anticipated decline Gas MCF/D	Anticipated Produced Water BBL/D	3 yr anticipated decline Water BBL/D
Poker Lake Unit 23 DTD 104H		14 T24S R30E	556 FSL 310 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 193H		14 T24S R30E	556 FSL 280 FWL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 441H		23 T24S R30E	1152 FNL 1771 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 442H		23 T24S R30E	1152 FNL 1741 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 443H		23 T24S R30E	1152 FNL 1711 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 444H		23 T24S R30E	1152 FNL 1681 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 445H		23 T24S R30E	1152 FNL 1651 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 451H		23 T24S R30E	1247 FNL 1771 FEL	1,900	200	3,250	900	3,750	400

Poker Lake Unit 23 DTD 452H		23 T24S R30E	1247 FNL 1741 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 453H		23 T24S R30E	1247 FNL 1711 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 454H		23 T24S R30E	1247 FNL 1681 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 455H		23 T24S R30E	1247 FNL 1651 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 456H		23 T24S R30E	1247 FNL 1621 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 541H		14 T24S R30E	645 FSL 637 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 542H		14 T24S R30E	645 FSL 607 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 543H		14 T24S R30E	645 FSL 577 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 544H		14 T24S R30E	645 FSL 547 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 545H		14 T24S R30E	645 FSL 517 FEL	1,900	200	3,250	900	3,750	400
Poker Lake Unit 23 DTD 546H		14 T24S R30E	645 FSL 487 FEL	1,800	200	7,500	1,200	7,000	800
Poker Lake Unit 23 DTD 705H		14 T24S R30E	556 FSL 340 FWL	1,800	200	7,500	1,200	7,000	800

IV. Central Delivery Point Name: PLU 23 DTD CVB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 23 DTD 104H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 193H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 441H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 442H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 443H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**

Poker Lake Unit 23 DTD 444H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 445H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 451H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 452H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 453H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 454H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 455H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 456H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 541H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 542H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 543H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 544H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 545H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 546H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**
Poker Lake Unit 23 DTD 705H	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: *Samantha Weis*
Printed Name: Samantha Weis
Title: Permitting Advisor
E-mail Address: samantha.r.bartnik@exxonmobil.com
Date: 11/4/2024
Phone: +1-832-625-7361

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment:

XTO Permian Operating LLC. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. XTO utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.

VII. Operational Practices

XTO Permian Operating LLC will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, XTO will utilize flares to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, XTO will employ best management practices to minimize or reduce venting to the extent possible.

- During completions operations, XTO will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares will be used to control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, XTO Permian Operating LLCwill turn operations to onsite separation vessels and flow to the gathering pipeline.

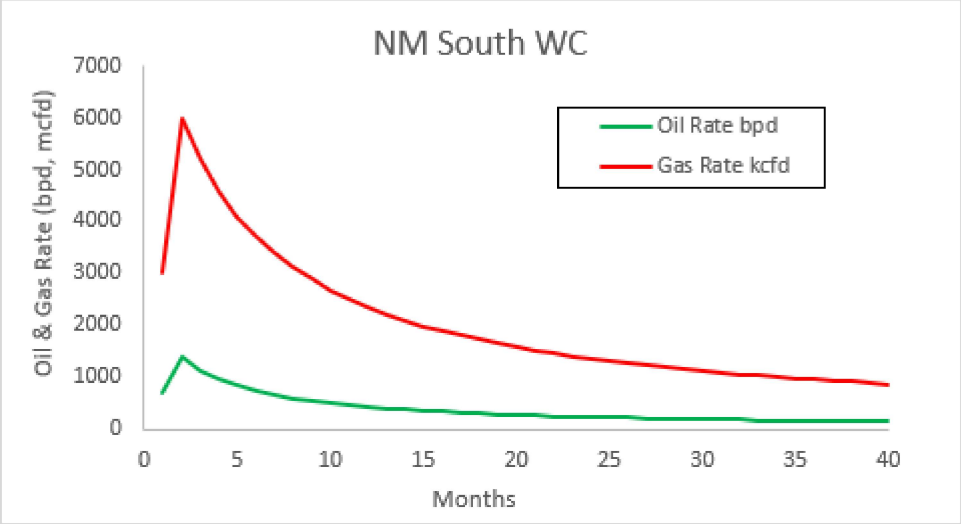
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:

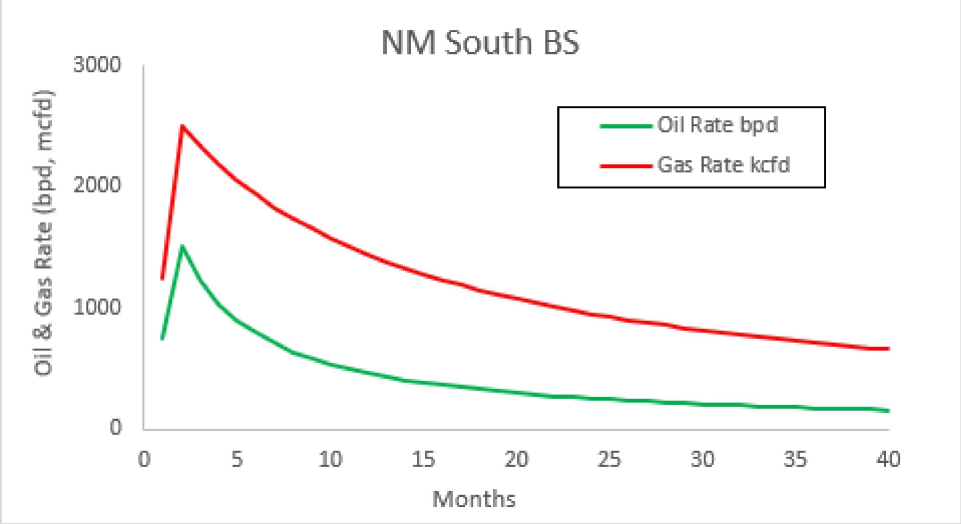
    - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
    - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
    - Flaring in lieu of venting, where technically feasible
    - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
    - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
    - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
    - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications

- Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible.

VIII. Best Management Practices during Maintenance

XTO Permian Operating LLC. will utilize best management practices to minimize venting during active and planned maintenance activities. XTO is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high-pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. XTO will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.


NM South WC
Oil & Gas Rate (bpd, mcfd)
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
Months
Oil Rate bpd
Gas Rate kcfd


NM South BS
Oil & Gas Rate (bpd, mcfd)
3000
2000
1000
0
0
5
10
15
20
25
30
35
40
Months
Oil Rate bpd
Gas Rate kcfd

AFMSS

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

Drilling Plan Data Report
11/25/2024

APD ID: 10400098064 **Submission Date:** 04/18/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 444H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14549481	QUATERNARY	3429	0	0	ALLUVIUM	USEABLE WATER	N
14549482	RUSTLER	2115	1314	1314	ANHYDRITE	USEABLE WATER	N
14549483	SALADO	1712	1717	1717	POTASH, SALT	NONE	N
14549484	BASE OF SALT	-481	3910	3910	ANHYDRITE, DOLOMITE, POTASH	NONE	N
14549485	DELAWARE	-675	4104	4104	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549486	BRUSHY CANYON	-3181	6610	6610	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549487	BONE SPRING	-4470	7899	7899	LIMESTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549488	BONE SPRING 1ST	-5241	8670	8670	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549489	BONE SPRING 2ND	-5843	9272	9272	LIMESTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549490	BONE SPRING 3RD	-6610	10039	10039	LIMESTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	N
14549491	WOLFCAMP	-8552	11981	11981	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : PRODUCED WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M **Rating Depth:** 12101

Equipment: Once the permanent WH is installed on the Surface casing, the blow out preventer equipment (BOP) will consist of a 5M Hydril Annular and a 10M Triple Ram BOP. XTO will use a Multi-Bowl system which is attached.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 444H

the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

Testing Procedure: All BOP testing will be done by an independent service company. Operator will test as per 43 CFR 3172

Choke Diagram Attachment:

10MCM_20240920050943.pdf

BOP Diagram Attachment:

5M10M_BOP_20240920051009.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	12.25	9.625	NEW	API	N	0	1414	0	1414	3429	2015	1414	J-55	40	BUTT	4.45	1.46	DRY	11.14	DRY	11.14
2	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	11407	0	11185	3446	-7756	11407	L-80	29.7	FJ	2.1	1.5	DRY	1.85	DRY	1.85
3	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	25092	0	12101	3446	-8672	25092	P-110	20	OTHER - Freedom HTQ/Talon HTQ	1.53	1.05	DRY	1.88	DRY	1.88

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_444H_Csg_20240414152750.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 444H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_23_DTD_444H_Csg_20240414152500.pdf

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_444H_Csg_20240414152612.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Freedom_semi_premium_5.5_production_casing_20240809155757.pdf
Talon___semiflush_5.5_production_casing_20240809155757.pdf

Tapered String Spec:

PLU_23_DTD_444H_Csg_20240414152221.pdf

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_444H_Csg_20240414152253.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1414	370	1.87	10.5	691.9	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1414	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6610	440	1.35	14.8	594	100	Class C	NA
INTERMEDIATE	Tail		6610	11407	740	1.33	14.8	984.2	100	Class C	NA

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 444H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		11107	11607	20	2.69	13.2	53.8	30	NeoCem	NA
PRODUCTION	Tail		11607	25092	960	1.51	14.5	1449.6	30	VersaCem	NA

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: Spud with fresh water/native mud. Drill out from under surface casing with Saturated Salt solution. Saturated Salt mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4104	11407	OTHER : BDE/OBM	9	9.5							
0	1414	WATER-BASED MUD	8.4	8.9							
1414	4104	SALT SATURATED	10.5	11							
11407	25092	OIL-BASED MUD	11.5	12							

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 444H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open hole logging will not be done on this well.

List of open and cased hole logs run in the well:

GAMMA RAY LOG,CEMENT BOND LOG,DIRECTIONAL SURVEY,MEASUREMENT WHILE DRILLING,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7551 **Anticipated Surface Pressure:** 4888

Anticipated Bottom Hole Temperature(F): 205

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

XTO_Energy_H2S_Plan_Updated_20240809155613.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_23_DTD_444H_DD_20240414154220.pdf

Other proposed operations facets description:

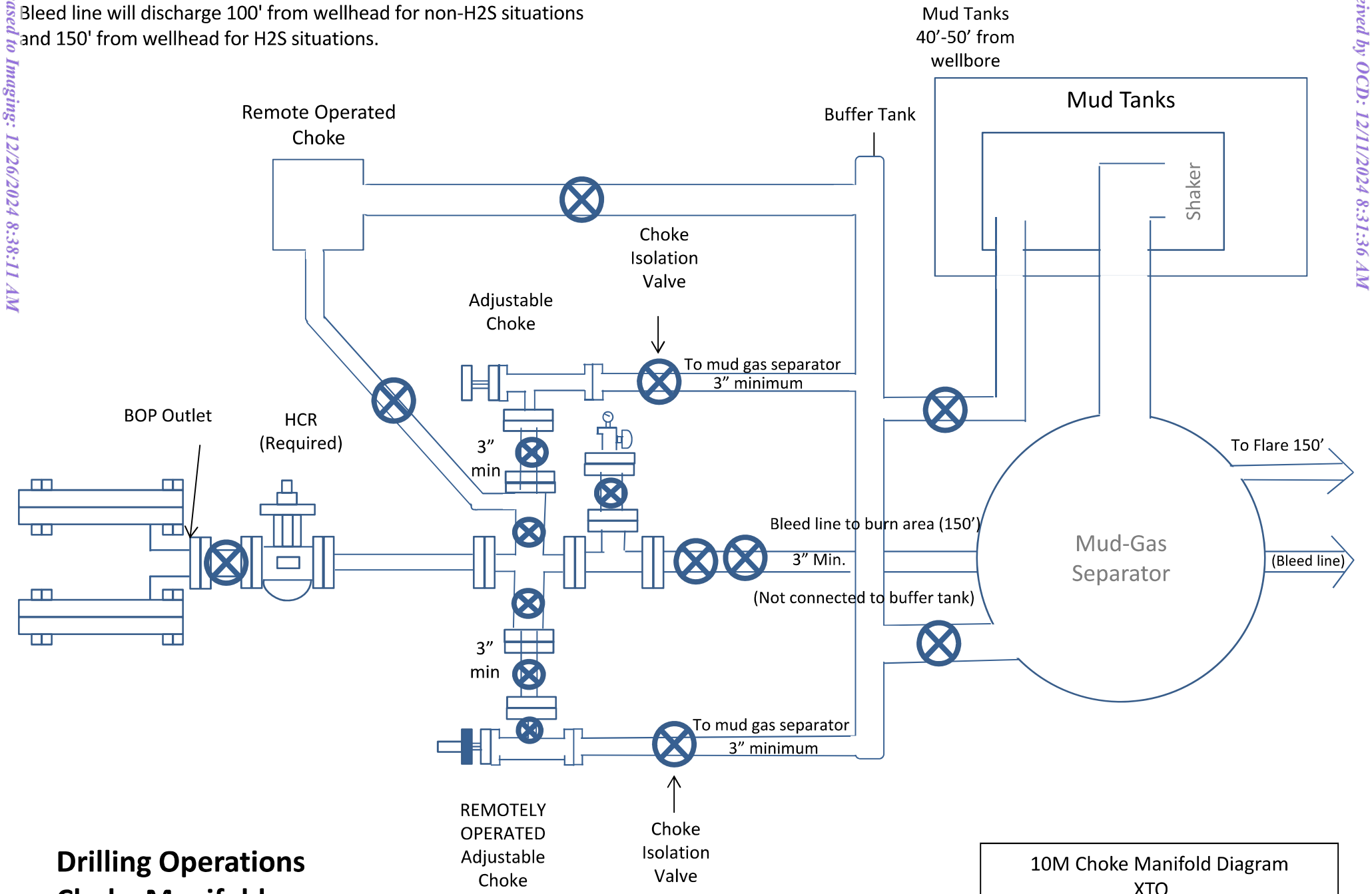
Other proposed operations facets attachment:

PLU_23_DTD_444H_Cmt_20240414154457.pdf
PLU_23_DTD_444H_RL_20240809160101.pdf
PLU_23_DTD_H2S_DiaA_20240809160126.pdf
PLU_23_DTD_H2S_DiaD_20240809160126.pdf
PLU_23_DTD_H2S_DiaC_20240809160126.pdf
9.625_7.625_5.5_3_String_Slimhole_HBE0000479_4_20240809160358.pdf

Other Variance attachment:

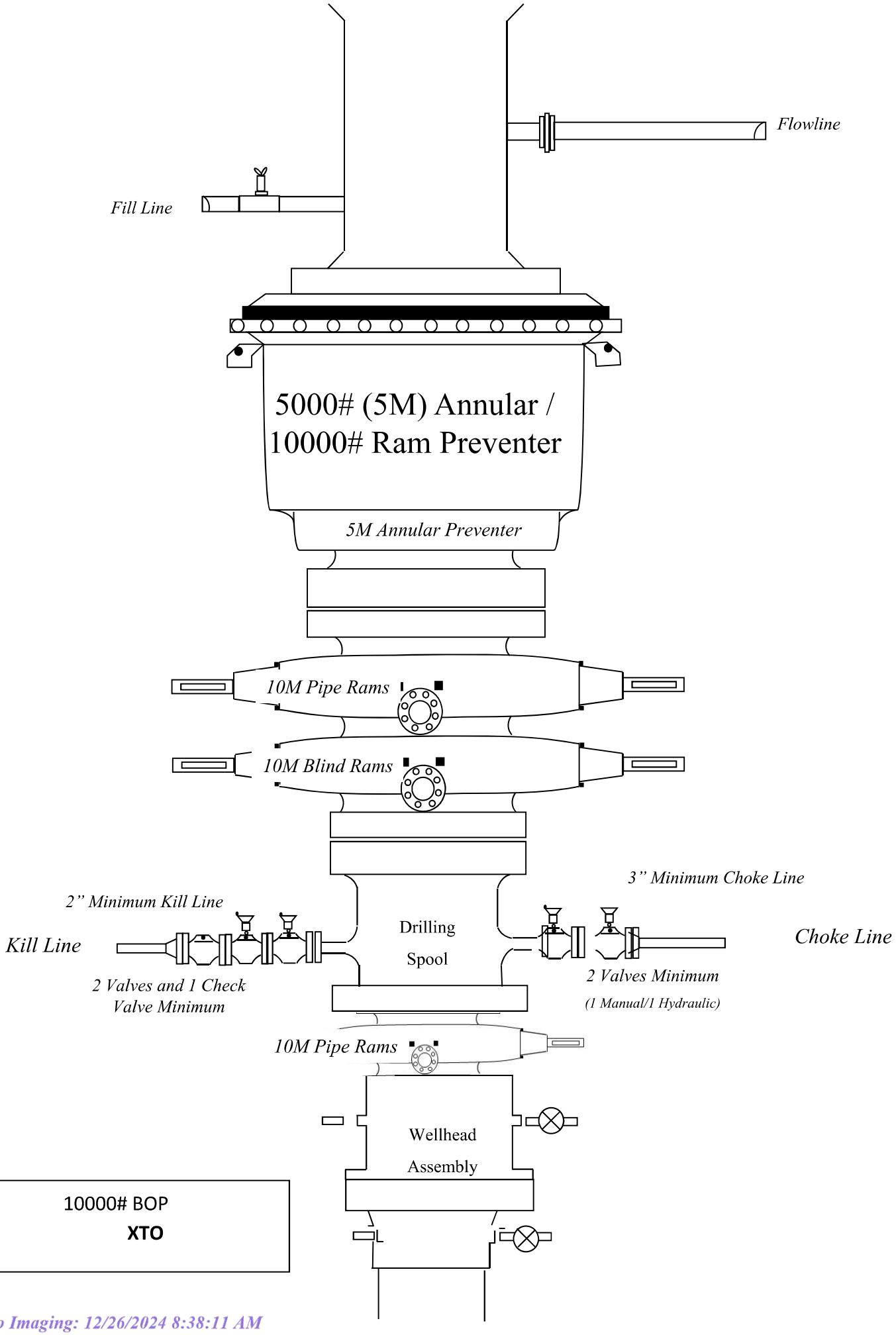
Spudder_Rig_Request_20240809160439.pdf
Offline_Cement_Variance_Surf___Interm_Csg_20240809160439.pdf
Updated_Flex_Hose_20240809160439.pdf

Bleed line will discharge 100' from wellhead for non-H2S situations and 150' from wellhead for H2S situations.



Drilling Operations
Choke Manifold
10M Service

10M Choke Manifold Diagram
XTO



10000# BOP

XTO

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
12.25	0' – 1414'	9.625	40	J-55	BTC	New	1.46	4.45	11.14
8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.07	2.92	1.65
8.75	4000' – 11407'	7.625	29.7	HC L-80	Flush Joint	New	1.50	2.10	1.85
6.75	0' – 11307'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.64	1.88
6.75	11307' - 25092'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.53	1.88

Cement Variance Request

Intermediate Casing:

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6610') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the first intermediate casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing:

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
    a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
    b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
    a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
    a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
    b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

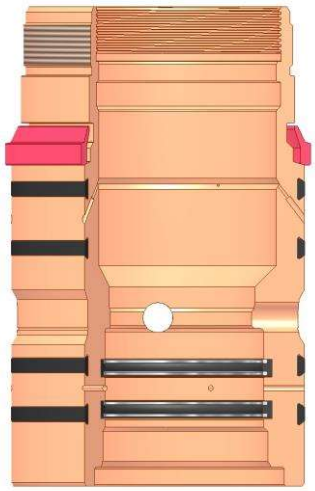
1. Cement Program

No changes to the cement program will take place for offline cementing.

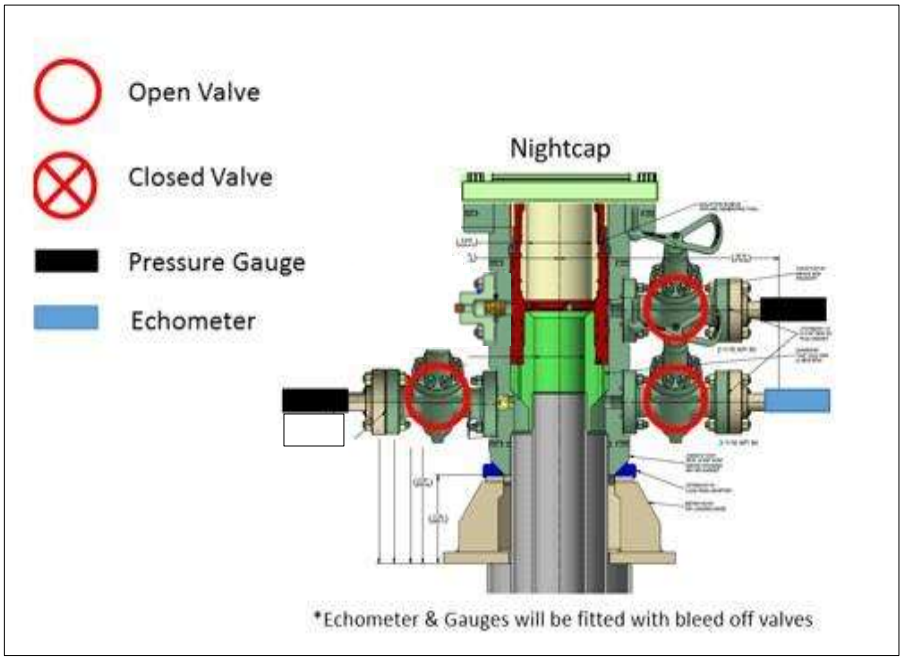
2. Offline Cementing Procedure

The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
    a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



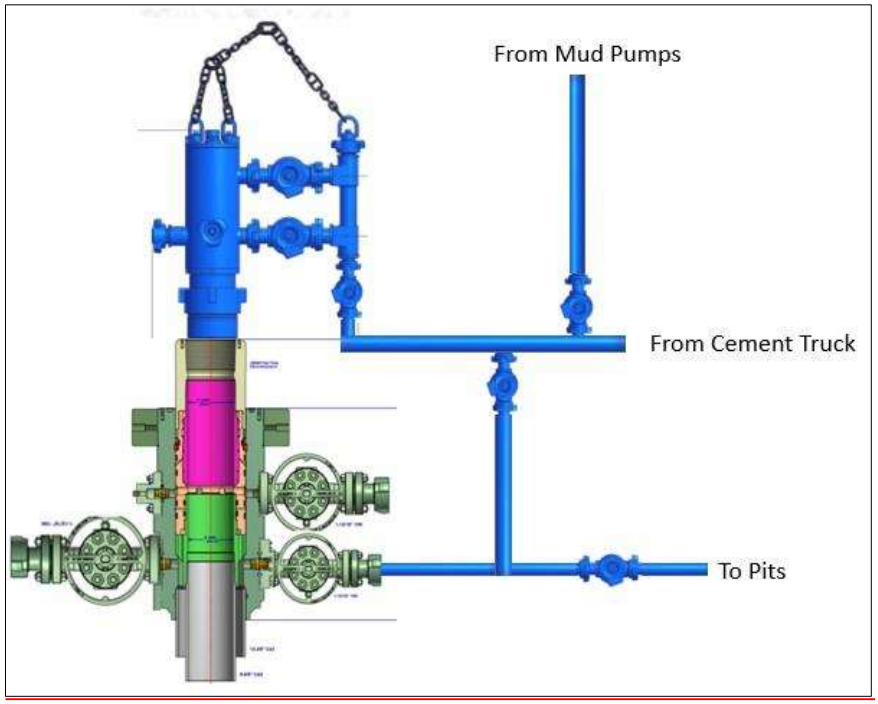
Annular packoff with both external and internal seals



Wellhead diagram during skidding operations

6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, 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 or nippling up for further remediation.
    a. Well Control Plan
        i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
        ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
        iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
        iv. Once influx is circulated out of the hole, kill weight mud will be circulated
        v. Well will be confirmed static
        vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
8. Install offline cement tool
9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

10. Circulate bottoms up with cement truck
    a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
    b. Max anticipated time before circulating with cement truck is 6 hrs
11. Perform cement job taking returns from the annulus wellhead valve
12. Confirm well is static and floats are holding after cement job
13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

NEW CHOKE HOSE
INSTALLED 02-10-2024

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:	NABORS DRILLING TECHNOLOGIES USA DBA NABORS DRILLING USA
CUSTOMER P.O.#:	15582803 (TAG NABORS PO #15582803 SN 74621 ASSET 66-1531)
CUSTOMER P/N:	IMR RETEST SN 74621 ASSET #66-1531
PART DESCRIPTION:	RETEST OF CUSTOMER 3" X 45 FT 16C CHOKE & KILL HOSE ASSEMBLY C/W 4 1/16" 10K FLANGES
SALES ORDER #:	529480
QUANTITY:	1
SERIAL #:	74621 H3-012524-1

SIGNATURE: F. OSUNOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

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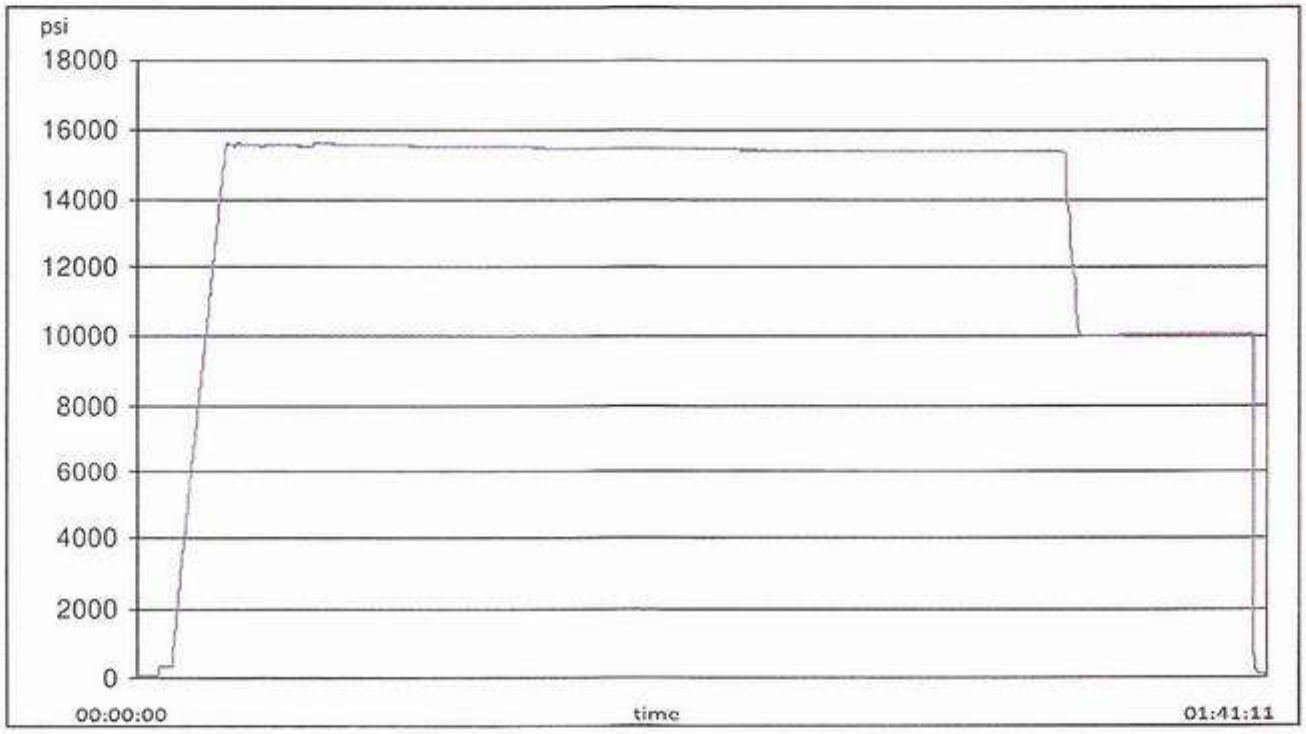
TEST REPORT

CUSTOMER			TEST OBJECT		
Company:	Nabors Industries Inc.		Serial number:	H3-012524-1	
			Lot number:		
Production description:	74621/66-1531		Description:	74621/66-1531	
Sales order #:	529480				
Customer reference:	FG1213		Hose ID:	3" 16C CK	
			Part number:		
TEST INFORMATION					
Test procedure:	GTS-04-053		Fitting 1:	3.0 x 4-1/16 10K	
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16 10K	
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	45	feet
Pressure test result:	PASS				
Length measurement result:					
Test operator:	Travis				



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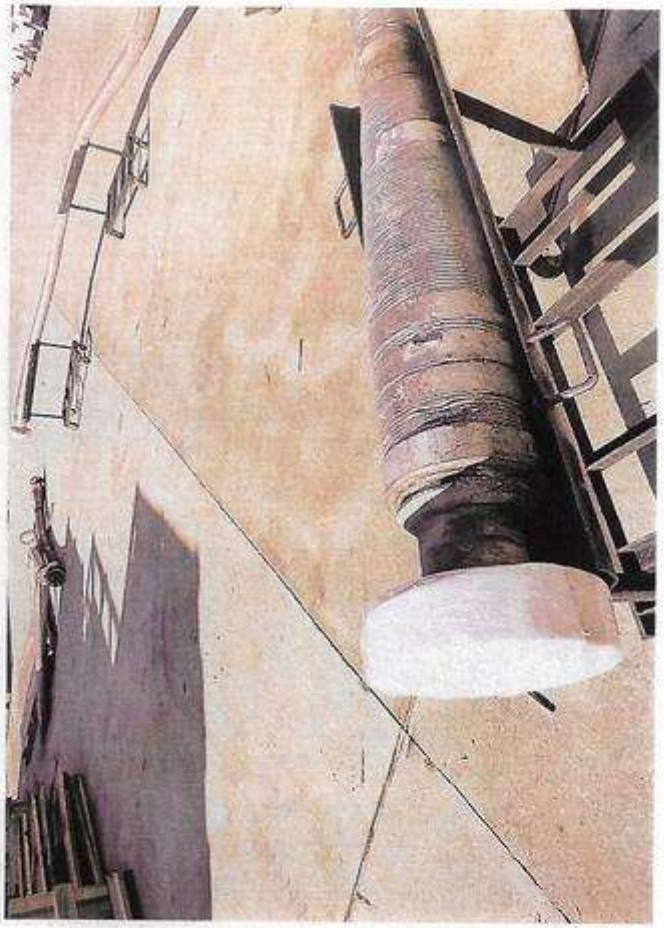
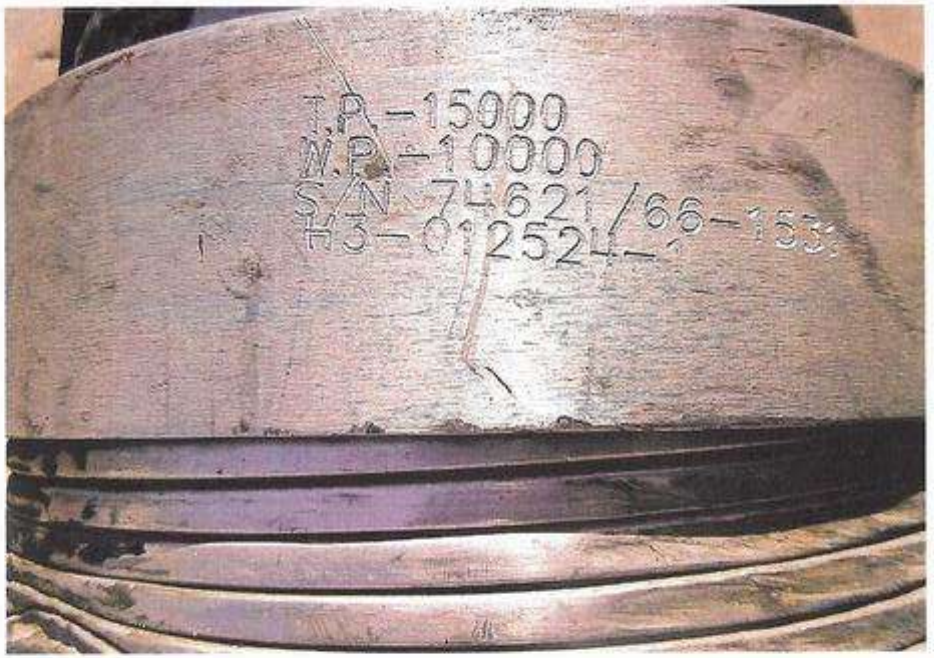
TEST REPORT

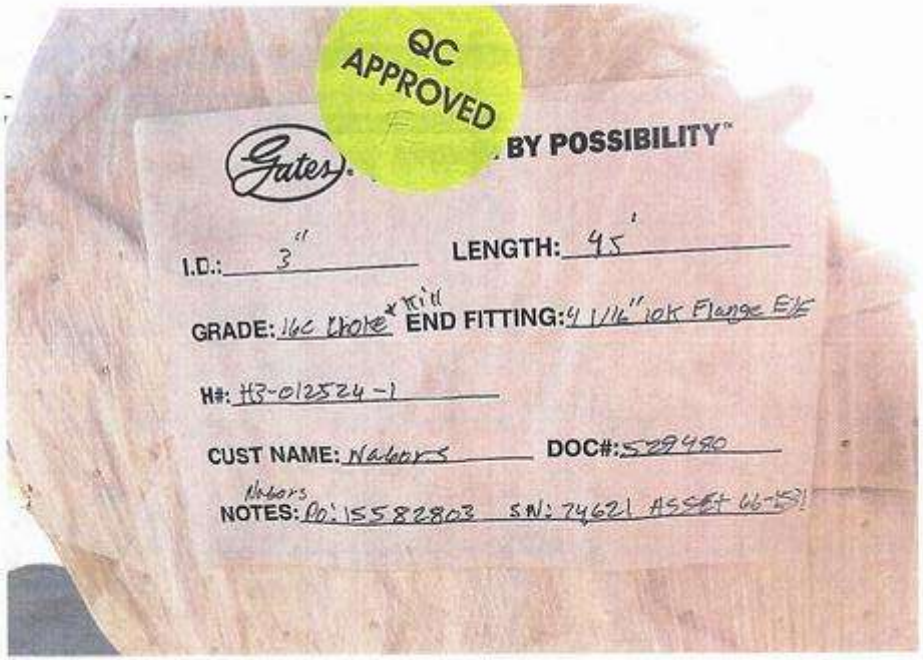
GAUGE TRACEABILITY

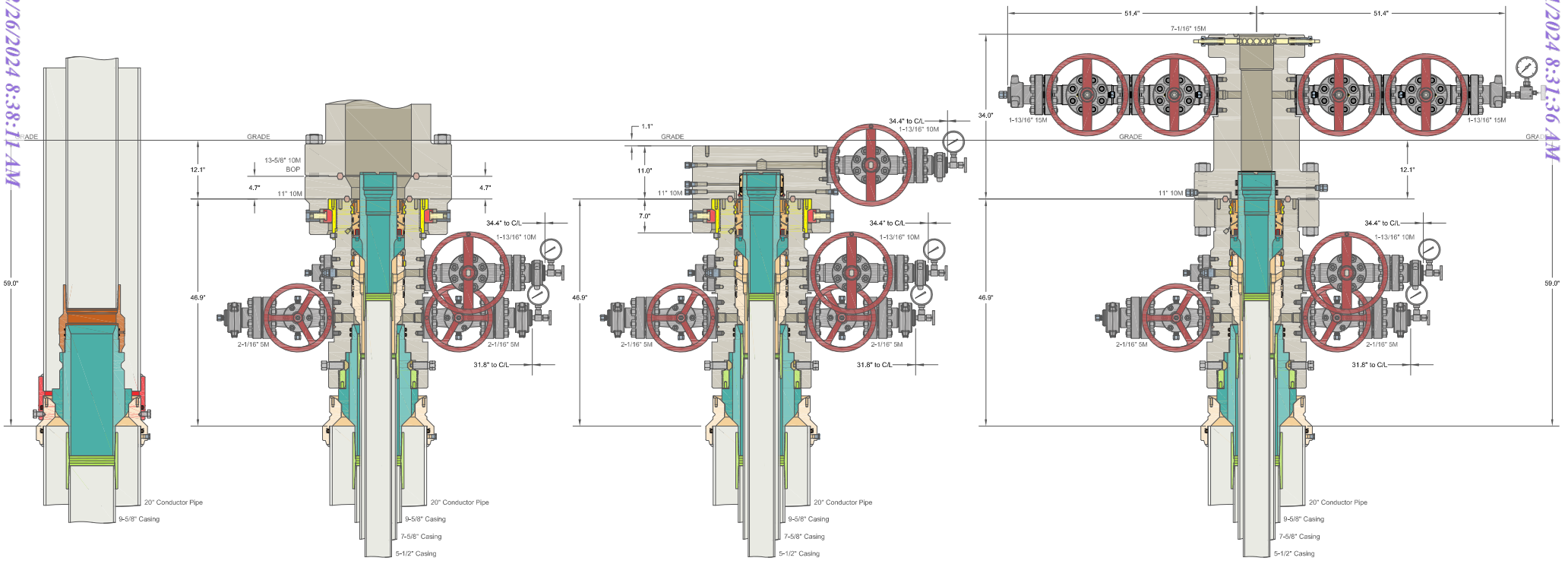
Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110D3PHO	2023-06-06	2024-06-06
S-25-A-W	110IQWDG	2023-05-16	2024-05-16

Comment









ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

XTO ENERGY INC
DELAWARE BASIN

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead
With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head
And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

DRAWN	VJK	31MAR22
APPRV		
DRAWING NO.	HBE0000479	

Well Plan Report - Poker Lake Unit 23 DTD South 444H

Measured Depth:	25092.10 ft
TVD RKB:	12101.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	439490.60 ft
Easting:	650134.10 ft
RKB:	3461.00 ft
Ground Level:	3429.00 ft
North Reference:	Grid
Convergence Angle:	0.26 Deg

Plan Sections Poker Lake Unit 23 DTD South 444H

Measured Depth (ft)	Inclination (Deg)	Azimuth (Deg)	TVD RKB (ft)	Y Offset (ft)	X Offset (ft)	Build Rate (Deg/100ft)	Turn Rate (Deg/100ft)	Dogleg Rate (Deg/100ft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	
1891.25	15.83	308.59	1881.23	67.73	-84.86	2.00	0.00	2.00	
7231.18	15.83	308.59	7018.77	976.07	-1223.04	0.00	0.00	0.00	
8022.43	0.00	0.00	7800.00	1043.80	-1307.90	-2.00	0.00	2.00	
11607.23	0.00	0.00	11384.80	1043.80	-1307.90	0.00	0.00	0.00	
12732.23	90.00	179.66	12101.00	327.62	-1303.68	8.00	0.00	8.00	
25002.13	90.00	179.66	12101.00	-11942.07	-1231.29	0.00	0.00	0.00	LTP 10
25092.10	90.00	179.66	12101.00	-12032.04	-1230.76	0.00	0.00	0.00	BHL 10

Position Uncertainty Poker Lake Unit 23 DTD South 444H

Measured Depth	Inclination	Azimuth	TVD RKB	Highside Error	Highside Bias	Lateral Error	Lateral Bias	Vertical Error	Vertical Bias	Magnitude of Bias	Semi-major Error	Semi-minor Error	Semi-minor Azimuth	Tool Used

(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
100.000	0.000	0.000	100.000	0.358	0.000	0.179	0.000	2.300	0.000	0.000	0.358	0.179	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
200.000	0.000	0.000	200.000	0.717	0.000	0.538	0.000	2.310	0.000	0.000	0.717	0.538	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
300.000	0.000	0.000	300.000	1.075	0.000	0.896	0.000	2.326	0.000	0.000	1.075	0.896	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
400.000	0.000	0.000	400.000	1.434	0.000	1.255	0.000	2.347	0.000	0.000	1.434	1.255	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
500.000	0.000	0.000	500.000	1.792	0.000	1.613	0.000	2.375	0.000	0.000	1.792	1.613	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
600.000	0.000	0.000	600.000	2.151	0.000	1.972	0.000	2.407	0.000	0.000	2.151	1.972	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
700.000	0.000	0.000	700.000	2.509	0.000	2.330	0.000	2.445	0.000	0.000	2.509	2.330	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
800.000	0.000	0.000	800.000	2.868	0.000	2.689	0.000	2.486	0.000	0.000	2.868	2.689	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
900.000	0.000	0.000	900.000	3.226	0.000	3.047	0.000	2.533	0.000	0.000	3.226	3.047	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1000.000	0.000	0.000	1000.000	3.585	0.000	3.405	0.000	2.583	0.000	0.000	3.585	3.405	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1100.000	0.000	0.000	1100.000	3.943	0.000	3.764	0.000	2.636	0.000	0.000	3.943	3.764	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1200.000	2.000	308.592	1199.980	4.188	0.000	4.229	0.000	2.692	0.000	0.000	4.299	4.119	89.906	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1300.000	4.000	308.592	1299.838	4.534	0.000	4.582	0.000	2.750	0.000	0.000	4.653	4.471	89.571	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1400.000	6.000	308.592	1399.452	4.876	0.000	4.935	0.000	2.808	0.000	0.000	5.009	4.823	89.235	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1500.000	8.000	308.592	1498.702	5.212	0.000	5.288	0.000	2.868	0.000	0.000	5.365	5.174	89.024	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1600.000	10.000	308.592	1597.465	5.542	0.000	5.642	0.000	2.928	0.000	0.000	5.722	5.524	89.055	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1700.000	12.000	308.592	1695.623	5.866	0.000	5.998	0.000	2.991	0.000	0.000	6.080	5.872	89.432	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1800.000	14.000	308.592	1793.055	6.182	0.000	6.355	0.000	3.057	0.000	0.000	6.438	6.219	90.235	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1891.250	15.825	308.592	1881.228	6.465	0.000	6.682	0.000	3.119	0.000	0.000	6.766	6.534	91.322	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1900.000	15.825	308.592	1889.647	6.496	0.000	6.713	0.000	3.119	0.000	0.000	6.798	6.566	91.108	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2000.000	15.825	308.592	1985.856	6.848	0.000	7.075	0.000	3.207	0.000	0.000	7.157	6.906	93.386	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2100.000	15.825	308.592	2082.066	7.201	0.000	7.439	0.000	3.298	0.000	0.000	7.519	7.248	95.426	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2200.000	15.825	308.592	2178.276	7.555	0.000	7.805	0.000	3.393	0.000	0.000	7.883	7.591	97.241	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2300.000	15.825	308.592	2274.486	7.911	0.000	8.173	0.000	3.491	0.000	0.000	8.250	7.935	98.849	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2400.000	15.825	308.592	2370.696	8.268	0.000	8.543	0.000	3.593	0.000	0.000	8.619	8.279	100.274	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2500.000	15.825	308.592	2466.906	8.626	0.000	8.915	0.000	3.697	0.000	0.000	8.989	8.625	101.538	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2600.000	15.825	308.592	2563.116	8.985	0.000	9.287	0.000	3.804	0.000	0.000	9.361	8.970	102.660	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2700.000	15.825	308.592	2659.326	9.344	0.000	9.661	0.000	3.913	0.000	0.000	9.734	9.317	103.660	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2800.000	15.825	308.592	2755.536	9.705	0.000	10.036	0.000	4.025	0.000	0.000	10.108	9.664	104.554	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2900.000	15.825	308.592	2851.746	10.065	0.000	10.411	0.000	4.139	0.000	0.000	10.483	10.011	105.356	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3000.000	15.825	308.592	2947.956	10.426	0.000	10.788	0.000	4.255	0.000	0.000	10.859	10.359	106.077	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3100.000	15.825	308.592	3044.165	10.788	0.000	11.165	0.000	4.373	0.000	0.000	11.236	10.708	106.729	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

3200.000	15.825	308.592	3140.375	11.150	0.000	11.542	0.000	4.493	0.000	0.000	11.614	11.056	107.319	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3300.000	15.825	308.592	3236.585	11.513	0.000	11.921	0.000	4.615	0.000	0.000	11.993	11.405	107.856	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3400.000	15.825	308.592	3332.795	11.876	0.000	12.299	0.000	4.739	0.000	0.000	12.372	11.755	108.346	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3500.000	15.825	308.592	3429.005	12.239	0.000	12.679	0.000	4.864	0.000	0.000	12.751	12.104	108.795	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3600.000	15.825	308.592	3525.215	12.602	0.000	13.058	0.000	4.991	0.000	0.000	13.131	12.454	109.207	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3700.000	15.825	308.592	3621.425	12.966	0.000	13.439	0.000	5.119	0.000	0.000	13.512	12.804	109.586	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3800.000	15.825	308.592	3717.635	13.330	0.000	13.819	0.000	5.250	0.000	0.000	13.893	13.155	109.935	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3900.000	15.825	308.592	3813.845	13.694	0.000	14.200	0.000	5.381	0.000	0.000	14.274	13.505	110.259	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4000.000	15.825	308.592	3910.055	14.058	0.000	14.581	0.000	5.515	0.000	0.000	14.656	13.856	110.559	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4100.000	15.825	308.592	4006.265	14.423	0.000	14.963	0.000	5.649	0.000	0.000	15.038	14.207	110.838	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4200.000	15.825	308.592	4102.474	14.788	0.000	15.344	0.000	5.786	0.000	0.000	15.420	14.558	111.098	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4300.000	15.825	308.592	4198.684	15.152	0.000	15.726	0.000	5.923	0.000	0.000	15.803	14.910	111.341	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4400.000	15.825	308.592	4294.894	15.517	0.000	16.108	0.000	6.063	0.000	0.000	16.186	15.261	111.568	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4500.000	15.825	308.592	4391.104	15.883	0.000	16.491	0.000	6.204	0.000	0.000	16.569	15.613	111.780	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4600.000	15.825	308.592	4487.314	16.248	0.000	16.873	0.000	6.346	0.000	0.000	16.952	15.965	111.980	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4700.000	15.825	308.592	4583.524	16.613	0.000	17.256	0.000	6.490	0.000	0.000	17.335	16.317	112.167	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4800.000	15.825	308.592	4679.734	16.979	0.000	17.639	0.000	6.635	0.000	0.000	17.719	16.669	112.343	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4900.000	15.825	308.592	4775.944	17.345	0.000	18.022	0.000	6.782	0.000	0.000	18.103	17.021	112.510	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5000.000	15.825	308.592	4872.154	17.710	0.000	18.405	0.000	6.930	0.000	0.000	18.487	17.374	112.667	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5100.000	15.825	308.592	4968.364	18.076	0.000	18.789	0.000	7.080	0.000	0.000	18.871	17.726	112.815	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5200.000	15.825	308.592	5064.574	18.442	0.000	19.172	0.000	7.231	0.000	0.000	19.255	18.079	112.955	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5300.000	15.825	308.592	5160.783	18.808	0.000	19.556	0.000	7.384	0.000	0.000	19.640	18.432	113.088	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5400.000	15.825	308.592	5256.993	19.174	0.000	19.940	0.000	7.539	0.000	0.000	20.025	18.785	113.214	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5500.000	15.825	308.592	5353.203	19.541	0.000	20.324	0.000	7.695	0.000	0.000	20.409	19.138	113.334	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5600.000	15.825	308.592	5449.413	19.907	0.000	20.708	0.000	7.853	0.000	0.000	20.794	19.491	113.447	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5700.000	15.825	308.592	5545.623	20.273	0.000	21.092	0.000	8.012	0.000	0.000	21.179	19.844	113.555	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5800.000	15.825	308.592	5641.833	20.640	0.000	21.476	0.000	8.173	0.000	0.000	21.564	20.198	113.658	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5900.000	15.825	308.592	5738.043	21.006	0.000	21.860	0.000	8.336	0.000	0.000	21.949	20.551	113.756	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6000.000	15.825	308.592	5834.253	21.373	0.000	22.245	0.000	8.500	0.000	0.000	22.335	20.905	113.849	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6100.000	15.825	308.592	5930.463	21.739	0.000	22.629	0.000	8.666	0.000	0.000	22.720	21.258	113.938	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6200.000	15.825	308.592	6026.673	22.106	0.000	23.014	0.000	8.834	0.000	0.000	23.105	21.612	114.023	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6300.000	15.825	308.592	6122.883	22.472	0.000	23.398	0.000	9.004	0.000	0.000	23.491	21.966	114.104	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6400.000	15.825	308.592	6219.092	22.839	0.000	23.783	0.000	9.175	0.000	0.000	23.877	22.320	114.182	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6500.000	15.825	308.592	6315.302	23.206	0.000	24.168	0.000	9.348	0.000	0.000	24.262	22.674	114.256	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

6600.000	15.825	308.592	6411.512	23.573	0.000	24.553	0.000	9.523	0.000	0.000	24.648	23.028	114.327	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6700.000	15.825	308.592	6507.722	23.939	0.000	24.938	0.000	9.700	0.000	0.000	25.034	23.382	114.395	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6800.000	15.825	308.592	6603.932	24.306	0.000	25.322	0.000	9.879	0.000	0.000	25.420	23.737	114.460	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6900.000	15.825	308.592	6700.142	24.673	0.000	25.707	0.000	10.059	0.000	0.000	25.806	24.091	114.522	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7000.000	15.825	308.592	6796.352	25.040	0.000	26.092	0.000	10.241	0.000	0.000	26.192	24.446	114.582	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7100.000	15.825	308.592	6892.562	25.407	0.000	26.478	0.000	10.426	0.000	0.000	26.578	24.800	114.639	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7200.000	15.825	308.592	6988.772	25.774	0.000	26.863	0.000	10.612	0.000	0.000	26.964	25.155	114.694	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7231.182	15.825	308.592	7018.772	25.889	0.000	26.983	0.000	10.670	0.000	0.000	27.084	25.266	114.709	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7300.000	14.449	308.592	7085.201	26.164	0.000	27.246	0.000	10.800	0.000	0.000	27.348	25.510	114.738	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7400.000	12.449	308.592	7182.454	26.540	0.000	27.622	0.000	10.987	0.000	0.000	27.725	25.865	114.750	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7500.000	10.449	308.592	7280.459	26.885	0.000	27.991	0.000	11.171	0.000	0.000	28.095	26.220	114.727	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7600.000	8.449	308.592	7379.097	27.199	0.000	28.353	0.000	11.350	0.000	0.000	28.458	26.575	114.675	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7700.000	6.449	308.592	7478.248	27.482	0.000	28.707	0.000	11.525	0.000	0.000	28.813	26.929	114.599	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7800.000	4.449	308.592	7577.791	27.732	0.000	29.053	0.000	11.697	0.000	0.000	29.161	27.280	114.505	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7900.000	2.449	308.592	7677.605	27.949	0.000	29.393	0.000	11.864	0.000	0.000	29.502	27.630	114.400	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8000.000	0.449	308.592	7777.568	28.133	0.000	29.725	0.000	12.028	0.000	0.000	29.836	27.975	114.290	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8022.432	0.000	0.000	7800.000	29.604	0.000	28.374	0.000	12.065	0.000	0.000	29.910	28.052	114.269	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8100.000	0.000	0.000	7877.568	29.864	0.000	28.634	0.000	12.191	0.000	0.000	30.168	28.314	114.211	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8200.000	0.000	0.000	7977.568	30.200	0.000	28.970	0.000	12.356	0.000	0.000	30.501	28.653	114.136	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8300.000	0.000	0.000	8077.568	30.537	0.000	29.307	0.000	12.524	0.000	0.000	30.835	28.992	114.063	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8400.000	0.000	0.000	8177.568	30.873	0.000	29.643	0.000	12.695	0.000	0.000	31.170	29.332	113.991	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8500.000	0.000	0.000	8277.568	31.211	0.000	29.981	0.000	12.870	0.000	0.000	31.505	29.672	113.921	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8600.000	0.000	0.000	8377.568	31.549	0.000	30.319	0.000	13.048	0.000	0.000	31.840	30.012	113.851	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8700.000	0.000	0.000	8477.568	31.887	0.000	30.657	0.000	13.229	0.000	0.000	32.176	30.353	113.783	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8800.000	0.000	0.000	8577.568	32.225	0.000	30.996	0.000	13.413	0.000	0.000	32.513	30.695	113.716	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8900.000	0.000	0.000	8677.568	32.565	0.000	31.335	0.000	13.600	0.000	0.000	32.850	31.036	113.649	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9000.000	0.000	0.000	8777.568	32.904	0.000	31.675	0.000	13.791	0.000	0.000	33.187	31.378	113.584	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9100.000	0.000	0.000	8877.568	33.244	0.000	32.015	0.000	13.985	0.000	0.000	33.525	31.721	113.520	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9200.000	0.000	0.000	8977.568	33.584	0.000	32.355	0.000	14.182	0.000	0.000	33.863	32.064	113.457	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9300.000	0.000	0.000	9077.568	33.925	0.000	32.696	0.000	14.383	0.000	0.000	34.202	32.407	113.395	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9400.000	0.000	0.000	9177.568	34.266	0.000	33.037	0.000	14.586	0.000	0.000	34.541	32.750	113.334	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9500.000	0.000	0.000	9277.568	34.607	0.000	33.379	0.000	14.793	0.000	0.000	34.880	33.094	113.274	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9600.000	0.000	0.000	9377.568	34.949	0.000	33.721	0.000	15.004	0.000	0.000	35.220	33.438	113.214	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9700.000	0.000	0.000	9477.568	35.291	0.000	34.063	0.000	15.217	0.000	0.000	35.560	33.782	113.156	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

9800.000	0.000	0.000	9577.568	35.634	0.000	34.406	0.000	15.434	0.000	0.000	35.901	34.127	113.098	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9900.000	0.000	0.000	9677.568	35.976	0.000	34.749	0.000	15.654	0.000	0.000	36.242	34.472	113.042	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10000.000	0.000	0.000	9777.568	36.319	0.000	35.092	0.000	15.878	0.000	0.000	36.583	34.817	112.986	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10100.000	0.000	0.000	9877.568	36.663	0.000	35.436	0.000	16.105	0.000	0.000	36.925	35.162	112.931	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10200.000	0.000	0.000	9977.568	37.006	0.000	35.779	0.000	16.335	0.000	0.000	37.267	35.508	112.877	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10300.000	0.000	0.000	10077.568	37.350	0.000	36.124	0.000	16.568	0.000	0.000	37.609	35.854	112.823	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10400.000	0.000	0.000	10177.568	37.694	0.000	36.468	0.000	16.805	0.000	0.000	37.951	36.200	112.771	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10500.000	0.000	0.000	10277.568	38.039	0.000	36.813	0.000	17.045	0.000	0.000	38.294	36.547	112.719	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10600.000	0.000	0.000	10377.568	38.383	0.000	37.158	0.000	17.288	0.000	0.000	38.637	36.893	112.667	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10700.000	0.000	0.000	10477.568	38.728	0.000	37.503	0.000	17.535	0.000	0.000	38.981	37.240	112.617	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10800.000	0.000	0.000	10577.568	39.073	0.000	37.848	0.000	17.785	0.000	0.000	39.324	37.587	112.567	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10900.000	0.000	0.000	10677.568	39.419	0.000	38.194	0.000	18.038	0.000	0.000	39.668	37.935	112.518	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11000.000	0.000	0.000	10777.568	39.764	0.000	38.540	0.000	18.295	0.000	0.000	40.012	38.282	112.470	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11100.000	0.000	0.000	10877.568	40.110	0.000	38.886	0.000	18.555	0.000	0.000	40.357	38.630	112.422	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11200.000	0.000	0.000	10977.568	40.456	0.000	39.232	0.000	18.818	0.000	0.000	40.702	38.978	112.375	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11300.000	0.000	0.000	11077.568	40.803	0.000	39.579	0.000	19.085	0.000	0.000	41.046	39.326	112.329	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11400.000	0.000	0.000	11177.568	41.149	0.000	39.926	0.000	19.354	0.000	0.000	41.392	39.674	112.283	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11500.000	0.000	0.000	11277.568	41.496	0.000	40.273	0.000	19.628	0.000	0.000	41.737	40.023	112.238	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11607.232	0.000	0.000	11384.800	41.868	0.000	40.645	0.000	19.924	0.000	0.000	42.108	40.396	112.190	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11700.000	7.421	179.662	11477.309	41.475	0.000	40.959	-0.000	20.178	0.000	0.000	42.408	40.703	112.270	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11800.000	15.421	179.662	11575.249	40.437	0.000	41.267	-0.000	20.440	0.000	0.000	42.701	41.007	112.545	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11900.000	23.421	179.662	11669.482	38.811	0.000	41.559	-0.000	20.683	0.000	0.000	42.970	41.291	112.983	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12000.000	31.421	179.662	11758.174	36.665	0.000	41.829	-0.000	20.905	0.000	0.000	43.209	41.552	113.621	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12100.000	39.421	179.662	11839.599	34.097	0.000	42.076	-0.000	21.104	0.000	0.000	43.412	41.785	114.478	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12200.000	47.421	179.662	11912.172	31.242	0.000	42.297	-0.000	21.280	0.000	0.000	43.577	41.990	115.553	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12300.000	55.421	179.662	11974.480	28.292	0.000	42.490	-0.000	21.436	0.000	0.000	43.704	42.164	116.821	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12400.000	63.421	179.662	12025.311	25.508	0.000	42.652	-0.000	21.572	0.000	0.000	43.795	42.308	118.219	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12500.000	71.421	179.662	12063.675	23.232	0.000	42.783	-0.000	21.693	0.000	0.000	43.854	42.421	119.639	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12600.000	79.421	179.662	12088.825	21.856	0.000	42.882	-0.000	21.801	0.000	0.000	43.886	42.507	120.909	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12700.000	87.421	179.662	12100.272	21.700	0.000	42.947	-0.000	21.900	0.000	0.000	43.897	42.567	121.791	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12732.232	90.000	179.662	12100.997	21.930	0.000	42.960	-0.000	21.930	0.000	0.000	43.897	42.581	121.916	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12800.000	90.000	179.662	12100.997	21.996	0.000	42.986	-0.000	21.996	0.000	0.000	43.896	42.609	122.214	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12900.000	90.000	179.662	12100.997	22.101	0.000	43.036	-0.000	22.101	0.000	0.000	43.897	42.660	122.908	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13000.000	90.000	179.662	12100.997	22.214	0.000	43.097	-0.000	22.214	0.000	0.000	43.903	42.718	123.891	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

13100.000	90.000	179.662	12100.997	22.336	0.000	43.169	-0.000	22.336	0.000	0.000	43.914	42.783	125.209	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13200.000	90.000	179.662	12100.997	22.467	0.000	43.252	-0.000	22.467	0.000	0.000	43.931	42.854	126.920	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13300.000	90.000	179.662	12100.997	22.606	0.000	43.346	-0.000	22.606	0.000	0.000	43.955	42.929	129.085	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13400.000	90.000	179.662	12100.997	22.753	0.000	43.451	-0.000	22.753	0.000	0.000	43.987	43.008	131.763	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13500.000	90.000	179.662	12100.997	22.909	0.000	43.566	-0.000	22.909	0.000	0.000	44.029	43.088	134.989	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13600.000	90.000	179.662	12100.997	23.072	0.000	43.693	-0.000	23.072	0.000	0.000	44.084	43.166	-41.256	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13700.000	90.000	179.662	12100.997	23.243	0.000	43.830	-0.000	23.243	0.000	0.000	44.155	43.241	-37.077	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13800.000	90.000	179.662	12100.997	23.421	0.000	43.978	-0.000	23.421	0.000	0.000	44.243	43.309	-32.676	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13900.000	90.000	179.662	12100.997	23.607	0.000	44.136	-0.000	23.607	0.000	0.000	44.349	43.370	-28.310	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14000.000	90.000	179.662	12100.997	23.800	0.000	44.304	-0.000	23.800	0.000	0.000	44.475	43.423	-24.220	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14100.000	90.000	179.662	12100.997	24.001	0.000	44.483	-0.000	24.001	0.000	0.000	44.619	43.468	-20.567	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14200.000	90.000	179.662	12100.997	24.208	0.000	44.671	-0.000	24.208	0.000	0.000	44.779	43.507	-17.412	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14300.000	90.000	179.662	12100.997	24.421	0.000	44.870	-0.000	24.421	0.000	0.000	44.956	43.541	-14.744	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14400.000	90.000	179.662	12100.997	24.642	0.000	45.078	-0.000	24.642	0.000	0.000	45.147	43.571	-12.512	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14500.000	90.000	179.662	12100.997	24.868	0.000	45.296	-0.000	24.868	0.000	0.000	45.351	43.597	-10.652	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14600.000	90.000	179.662	12100.997	25.101	0.000	45.524	-0.000	25.101	0.000	0.000	45.568	43.622	-9.101	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14700.000	90.000	179.662	12100.997	25.340	0.000	45.761	-0.000	25.340	0.000	0.000	45.796	43.646	-7.803	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14800.000	90.000	179.662	12100.997	25.585	0.000	46.007	-0.000	25.585	0.000	0.000	46.035	43.668	-6.710	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14900.000	90.000	179.662	12100.997	25.835	0.000	46.262	-0.000	25.835	0.000	0.000	46.285	43.689	-5.786	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15000.000	90.000	179.662	12100.997	26.091	0.000	46.527	-0.000	26.091	0.000	0.000	46.545	43.711	-5.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15100.000	90.000	179.662	12100.997	26.352	0.000	46.800	-0.000	26.352	0.000	0.000	46.814	43.732	-4.327	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15200.000	90.000	179.662	12100.997	26.619	0.000	47.081	-0.000	26.619	0.000	0.000	47.093	43.752	-3.748	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15300.000	90.000	179.662	12100.997	26.890	0.000	47.372	-0.000	26.890	0.000	0.000	47.381	43.773	-3.247	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15400.000	90.000	179.662	12100.997	27.166	0.000	47.670	-0.000	27.166	0.000	0.000	47.677	43.795	-2.812	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15500.000	90.000	179.662	12100.997	27.448	0.000	47.977	-0.000	27.448	0.000	0.000	47.982	43.816	-2.432	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15600.000	90.000	179.662	12100.997	27.733	0.000	48.292	-0.000	27.733	0.000	0.000	48.296	43.838	-2.098	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15700.000	90.000	179.662	12100.997	28.023	0.000	48.614	-0.000	28.023	0.000	0.000	48.617	43.860	-1.805	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15800.000	90.000	179.662	12100.997	28.318	0.000	48.945	-0.000	28.318	0.000	0.000	48.947	43.883	-1.546	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15900.000	90.000	179.662	12100.997	28.617	0.000	49.283	-0.000	28.617	0.000	0.000	49.284	43.906	-1.316	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16000.000	90.000	179.662	12100.997	28.919	0.000	49.628	-0.000	28.919	0.000	0.000	49.629	43.930	-1.112	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16100.000	90.000	179.662	12100.997	29.226	0.000	49.981	-0.000	29.226	0.000	0.000	49.981	43.954	-0.930	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16200.000	90.000	179.662	12100.997	29.536	0.000	50.340	-0.000	29.536	0.000	0.000	50.341	43.979	-0.768	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16300.000	90.000	179.662	12100.997	29.850	0.000	50.707	-0.000	29.850	0.000	0.000	50.707	44.004	-0.622	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16400.000	90.000	179.662	12100.997	30.168	0.000	51.081	-0.000	30.168	0.000	0.000	51.081	44.030	-0.492	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

16500.000	90.000	179.662	12100.997	30.489	0.000	51.461	-0.000	30.489	0.000	0.000	51.461	44.056	-0.374	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16600.000	90.000	179.662	12100.997	30.814	0.000	51.847	-0.000	30.814	0.000	0.000	51.847	44.083	-0.268	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16700.000	90.000	179.662	12100.997	31.142	0.000	52.240	-0.000	31.142	0.000	0.000	52.240	44.111	-0.173	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16800.000	90.000	179.662	12100.997	31.472	0.000	52.640	-0.000	31.472	0.000	0.000	52.640	44.139	-0.087	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16900.000	90.000	179.662	12100.997	31.806	0.000	53.045	-0.000	31.806	0.000	0.000	53.045	44.168	-0.009	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17000.000	90.000	179.662	12100.997	32.143	0.000	53.456	-0.000	32.143	0.000	0.000	53.456	44.198	0.062	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17100.000	90.000	179.662	12100.997	32.483	0.000	53.873	-0.000	32.483	0.000	0.000	53.874	44.228	0.126	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17200.000	90.000	179.662	12100.997	32.826	0.000	54.296	-0.000	32.826	0.000	0.000	54.296	44.259	0.184	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17300.000	90.000	179.662	12100.997	33.171	0.000	54.724	-0.000	33.171	0.000	0.000	54.725	44.290	0.237	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17400.000	90.000	179.662	12100.997	33.519	0.000	55.158	-0.000	33.519	0.000	0.000	55.159	44.322	0.285	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17500.000	90.000	179.662	12100.997	33.869	0.000	55.597	-0.000	33.869	0.000	0.000	55.598	44.355	0.328	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17600.000	90.000	179.662	12100.997	34.222	0.000	56.041	-0.000	34.222	0.000	0.000	56.042	44.388	0.368	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17700.000	90.000	179.662	12100.997	34.577	0.000	56.490	-0.000	34.577	0.000	0.000	56.492	44.422	0.404	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17800.000	90.000	179.662	12100.997	34.935	0.000	56.944	-0.000	34.935	0.000	0.000	56.946	44.457	0.437	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17900.000	90.000	179.662	12100.997	35.294	0.000	57.403	-0.000	35.294	0.000	0.000	57.405	44.492	0.467	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18000.000	90.000	179.662	12100.997	35.656	0.000	57.866	-0.000	35.656	0.000	0.000	57.869	44.528	0.494	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18100.000	90.000	179.662	12100.997	36.020	0.000	58.334	-0.000	36.020	0.000	0.000	58.337	44.565	0.518	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18200.000	90.000	179.662	12100.997	36.386	0.000	58.807	-0.000	36.386	0.000	0.000	58.810	44.602	0.541	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18300.000	90.000	179.662	12100.997	36.754	0.000	59.284	-0.000	36.754	0.000	0.000	59.287	44.640	0.561	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18400.000	90.000	179.662	12100.997	37.124	0.000	59.765	-0.000	37.124	0.000	0.000	59.768	44.678	0.580	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18500.000	90.000	179.662	12100.997	37.496	0.000	60.250	-0.000	37.496	0.000	0.000	60.254	44.717	0.596	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18600.000	90.000	179.662	12100.997	37.869	0.000	60.740	-0.000	37.869	0.000	0.000	60.743	44.757	0.611	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18700.000	90.000	179.662	12100.997	38.245	0.000	61.233	-0.000	38.245	0.000	0.000	61.237	44.797	0.625	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18800.000	90.000	179.662	12100.997	38.622	0.000	61.730	-0.000	38.622	0.000	0.000	61.734	44.838	0.637	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18900.000	90.000	179.662	12100.997	39.000	0.000	62.231	-0.000	39.000	0.000	0.000	62.236	44.880	0.648	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19000.000	90.000	179.662	12100.997	39.381	0.000	62.736	-0.000	39.381	0.000	0.000	62.740	44.922	0.658	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19100.000	90.000	179.662	12100.997	39.763	0.000	63.244	-0.000	39.763	0.000	0.000	63.249	44.965	0.667	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19200.000	90.000	179.662	12100.997	40.146	0.000	63.756	-0.000	40.146	0.000	0.000	63.761	45.009	0.675	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19300.000	90.000	179.662	12100.997	40.531	0.000	64.271	-0.000	40.531	0.000	0.000	64.276	45.053	0.682	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19400.000	90.000	179.662	12100.997	40.917	0.000	64.790	-0.000	40.917	0.000	0.000	64.795	45.098	0.688	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19500.000	90.000	179.662	12100.997	41.304	0.000	65.311	-0.000	41.304	0.000	0.000	65.317	45.143	0.693	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19600.000	90.000	179.662	12100.997	41.693	0.000	65.836	-0.000	41.693	0.000	0.000	65.842	45.189	0.698	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19700.000	90.000	179.662	12100.997	42.084	0.000	66.364	-0.000	42.084	0.000	0.000	66.370	45.235	0.702	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19800.000	90.000	179.662	12100.997	42.475	0.000	66.895	-0.000	42.475	0.000	0.000	66.901	45.283	0.705	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

19900.000	90.000	179.662	12100.997	42.868	0.000	67.429	-0.000	42.868	0.000	0.000	67.436	45.330	0.708	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20000.000	90.000	179.662	12100.997	43.262	0.000	67.966	-0.000	43.262	0.000	0.000	67.973	45.379	0.711	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20100.000	90.000	179.662	12100.997	43.657	0.000	68.506	-0.000	43.657	0.000	0.000	68.513	45.428	0.712	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20200.000	90.000	179.662	12100.997	44.054	0.000	69.049	-0.000	44.054	0.000	0.000	69.055	45.478	0.714	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20300.000	90.000	179.662	12100.997	44.451	0.000	69.594	-0.000	44.451	0.000	0.000	69.601	45.528	0.715	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20400.000	90.000	179.662	12100.997	44.849	0.000	70.142	-0.000	44.849	0.000	0.000	70.149	45.579	0.715	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20500.000	90.000	179.662	12100.997	45.249	0.000	70.692	-0.000	45.249	0.000	0.000	70.699	45.630	0.716	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20600.000	90.000	179.662	12100.997	45.650	0.000	71.245	-0.000	45.650	0.000	0.000	71.252	45.682	0.716	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20700.000	90.000	179.662	12100.997	46.051	0.000	71.801	-0.000	46.051	0.000	0.000	71.808	45.735	0.715	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20800.000	90.000	179.662	12100.997	46.454	0.000	72.358	-0.000	46.454	0.000	0.000	72.366	45.788	0.715	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20900.000	90.000	179.662	12100.997	46.857	0.000	72.918	-0.000	46.857	0.000	0.000	72.926	45.842	0.714	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21000.000	90.000	179.662	12100.997	47.262	0.000	73.481	-0.000	47.262	0.000	0.000	73.488	45.896	0.712	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21100.000	90.000	179.662	12100.997	47.667	0.000	74.046	-0.000	47.667	0.000	0.000	74.053	45.952	0.711	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21200.000	90.000	179.662	12100.997	48.073	0.000	74.612	-0.000	48.073	0.000	0.000	74.620	46.007	0.709	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21300.000	90.000	179.662	12100.997	48.480	0.000	75.181	-0.000	48.480	0.000	0.000	75.189	46.063	0.708	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21400.000	90.000	179.662	12100.997	48.888	0.000	75.752	-0.000	48.888	0.000	0.000	75.760	46.120	0.706	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21500.000	90.000	179.662	12100.997	49.297	0.000	76.325	-0.000	49.297	0.000	0.000	76.333	46.177	0.703	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21600.000	90.000	179.662	12100.997	49.706	0.000	76.901	-0.000	49.706	0.000	0.000	76.909	46.235	0.701	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21700.000	90.000	179.662	12100.997	50.117	0.000	77.478	-0.000	50.117	0.000	0.000	77.486	46.294	0.699	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21800.000	90.000	179.662	12100.997	50.528	0.000	78.056	-0.000	50.528	0.000	0.000	78.065	46.353	0.696	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21900.000	90.000	179.662	12100.997	50.940	0.000	78.637	-0.000	50.940	0.000	0.000	78.646	46.413	0.693	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22000.000	90.000	179.662	12100.997	51.352	0.000	79.220	-0.000	51.352	0.000	0.000	79.228	46.473	0.691	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22100.000	90.000	179.662	12100.997	51.765	0.000	79.804	-0.000	51.765	0.000	0.000	79.813	46.534	0.688	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22200.000	90.000	179.662	12100.997	52.179	0.000	80.390	-0.000	52.179	0.000	0.000	80.399	46.595	0.685	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22300.000	90.000	179.662	12100.997	52.594	0.000	80.978	-0.000	52.594	0.000	0.000	80.987	46.657	0.681	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22400.000	90.000	179.662	12100.997	53.009	0.000	81.568	-0.000	53.009	0.000	0.000	81.577	46.720	0.678	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22500.000	90.000	179.662	12100.997	53.425	0.000	82.159	-0.000	53.425	0.000	0.000	82.168	46.783	0.675	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22600.000	90.000	179.662	12100.997	53.841	0.000	82.752	-0.000	53.841	0.000	0.000	82.761	46.846	0.672	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22700.000	90.000	179.662	12100.997	54.258	0.000	83.346	-0.000	54.258	0.000	0.000	83.355	46.910	0.668	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22800.000	90.000	179.662	12100.997	54.676	0.000	83.942	-0.000	54.676	0.000	0.000	83.951	46.975	0.665	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22900.000	90.000	179.662	12100.997	55.094	0.000	84.539	-0.000	55.094	0.000	0.000	84.548	47.040	0.661	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23000.000	90.000	179.662	12100.997	55.513	0.000	85.138	-0.000	55.513	0.000	0.000	85.147	47.106	0.658	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23100.000	90.000	179.662	12100.997	55.932	0.000	85.738	-0.000	55.932	0.000	0.000	85.747	47.172	0.654	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23200.000	90.000	179.662	12100.997	56.352	0.000	86.340	-0.000	56.352	0.000	0.000	86.349	47.239	0.650	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

23300.000	90.000	179.662	12100.997	56.773	0.000	86.943	-0.000	56.773	0.000	0.000	86.952	47.307	0.647	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23400.000	90.000	179.662	12100.997	57.194	0.000	87.548	-0.000	57.194	0.000	0.000	87.557	47.375	0.643	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23500.000	90.000	179.662	12100.997	57.615	0.000	88.153	-0.000	57.615	0.000	0.000	88.162	47.443	0.639	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23600.000	90.000	179.662	12100.997	58.037	0.000	88.760	-0.000	58.037	0.000	0.000	88.769	47.512	0.636	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23700.000	90.000	179.662	12100.997	58.460	0.000	89.369	-0.000	58.460	0.000	0.000	89.378	47.582	0.632	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23800.000	90.000	179.662	12100.997	58.882	0.000	89.978	-0.000	58.882	0.000	0.000	89.987	47.652	0.628	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23900.000	90.000	179.662	12100.997	59.306	0.000	90.589	-0.000	59.306	0.000	0.000	90.598	47.723	0.624	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24000.000	90.000	179.662	12100.997	59.730	0.000	91.201	-0.000	59.730	0.000	0.000	91.210	47.794	0.620	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24100.000	90.000	179.662	12100.997	60.154	0.000	91.814	-0.000	60.154	0.000	0.000	91.823	47.865	0.617	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24200.000	90.000	179.662	12100.997	60.579	0.000	92.428	-0.000	60.579	0.000	0.000	92.437	47.937	0.613	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24300.000	90.000	179.662	12100.997	61.004	0.000	93.043	-0.000	61.004	0.000	0.000	93.053	48.010	0.609	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24400.000	90.000	179.662	12100.997	61.430	0.000	93.660	-0.000	61.430	0.000	0.000	93.669	48.083	0.605	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24500.000	90.000	179.662	12100.997	61.855	0.000	94.277	-0.000	61.855	0.000	0.000	94.287	48.157	0.601	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24600.000	90.000	179.662	12100.997	62.282	0.000	94.896	-0.000	62.282	0.000	0.000	94.905	48.231	0.597	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24700.000	90.000	179.662	12100.997	62.709	0.000	95.516	-0.000	62.709	0.000	0.000	95.525	48.306	0.593	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24800.000	90.000	179.662	12100.997	63.136	0.000	96.136	-0.000	63.136	0.000	0.000	96.146	48.381	0.590	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24900.000	90.000	179.662	12100.997	63.563	0.000	96.758	-0.000	63.563	0.000	0.000	96.767	48.457	0.586	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
25002.132	90.000	179.662	12100.997	64.000	0.000	97.394	-0.000	64.000	0.000	0.000	97.403	48.535	0.582	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
25092.104	90.000	179.662	12100.997	64.386	0.000	97.955	-0.000	64.386	0.000	0.000	97.964	48.604	0.578	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

Plan Targets Poker Lake Unit 23 DTD South 444H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
SHL 9	14682.37	439488.75	650121.89	7723.40	RECTANGLE
FTP 10	12498.84	440534.40	648826.20	8640.00	RECTANGLE
LTP 10	25002.16	427548.50	648902.80	8640.00	RECTANGLE
BHL 10	25092.67	427458.50	648903.90	8640.00	RECTANGLE

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMNM030452**
LOCATION:	Sec. 23, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 23 DTD 444H
SURFACE HOLE FOOTAGE:	1152'/N & 1681'/E
BOTTOM HOLE FOOTAGE:	2627'/N & 2366'/W

COA

H_2S	○ No		○ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
	Choose an option (including blank option.)			
Cave / Karst	○ Low	◉ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☑ Primary Squeeze	☐ Cont. Squeeze	☑ EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	☐ COM	☑ Unit
Waste Prev.	○ Self-Certification	○ Waste Min. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose	☑ Casing Clearance	☐ Pilot Hole	☑ Break Testing
	☐ Four-String	☑ Offline Cementing	☑ Fluid-Filled	

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **9-5/8** inch surface casing shall be set at approximately **780** 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **7-5/8** inch Intermediate casing is:
Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

a. **First stage:** Operator will cement with intent to reach the top of the **Brushy Canyon at 6610'.**

b. **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

❖ 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.

Operator has proposed to pump down Surface X Intermediate 1 annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the Surface casing to tieback requirements listed above after the second stage BH to verify TOC. 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 use a limited flush fluid volume of 1 bbl following backside cementing procedures.

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

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
- Cement should tie-back **200 feet** into the previous casing. Operator shall provide method of verification.

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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

a. 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.
b. Manufacturer representative shall install the test plug for the initial BOP test.
c. 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.
d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 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 **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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

Engineer may elect to vary this language. Speak with Chris about implementing changes and whether that change seems reasonable.

Casing Clearance
String does not meet 0.422" clearance requirement per 43 CFR 3172. Cement tieback requirement increased 100' for Production casing tieback. Operator may contact approving engineer to discuss changing casing set depth or grade to meet clearance requirement.

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)

Contact Eddy County Petroleum Engineering Inspection Staff:
Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
BLM_NM_CFO_DrillingNotifications@BLM.GOV; (575) 361-2822

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.

Approved by Zota Stevens on 10/15/2024
575-234-5998 / zstevens@blm.gov

HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H_2S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H_2S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - Detection of H_2S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM 575-887-7329

XTO PERSONNEL:

Will Dacus, Drilling Manager	832-948-5021
Brian Dunn, Drilling Supervisor	832-653-0490
Robert Bartels, Construction Execution Planner	406-478-3617
Andy Owens, EH & S Manager	903-245-2602
Frank Fuentes, Production Foreman	575-689-3363

SHERIFF DEPARTMENTS:

Eddy County	575-887-7551
Lea County	575-396-3611

NEW MEXICO STATE POLICE: 575-392-5588

FIRE DEPARTMENTS: 911

Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359

HOSPITALS: 911

Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359

AGENT NOTIFICATIONS:

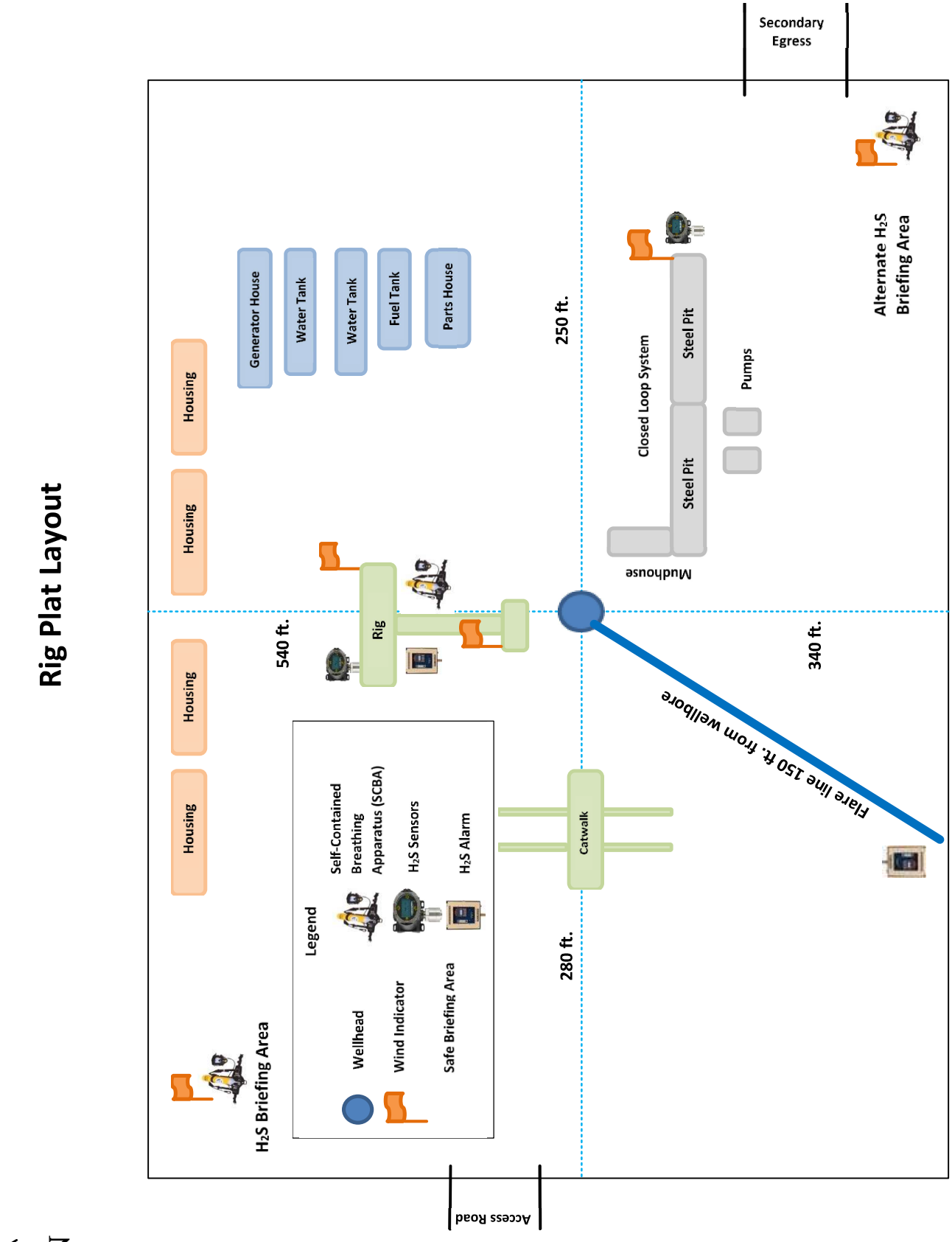
For Lea County:

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

For Eddy County:

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283

Rig Plat Layout



Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 444H

and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

Disposal location description: A licensed 3rd party contractor to haul and dispose of human waste.

Waste type: GARBAGE

Waste content description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Amount of waste: 250 pounds

Waste disposal frequency : Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of garbage.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 444H

Are you storing cuttings on location? Y

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

PLU_23_DTD_444H_RL_20240414154723.pdf

PLU_23_DTD_444H_Well_20240414154723.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance **Multiple Well Pad Name:** POKER LAKE UNIT 23 DTD

Multiple Well Pad Number: C

Recontouring

PLU_23_DTD_IR1_20240411181254.pdf

PLU_23_DTD_IR2_20240411181254.pdf

PLU_23_DTD_IR3_20240411181254.pdf

PLU_23_DTD_IR4_20240411181254.pdf

Drainage/Erosion control construction: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping,

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 444H

and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance (acres):	**Well pad interim reclamation (acres):** 0	**Well pad long term disturbance (acres):** 0
Road proposed disturbance (acres):	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 0
Powerline proposed disturbance (acres):	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres):	**Pipeline interim reclamation (acres):** 0	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres):	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 0	**Total interim reclamation:** 0	**Total long term disturbance:** 0

Disturbance Comments:

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.
<style isBold="true">Existing Vegetation at the well pad:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
Existing Vegetation at the well pad

<style isBold="true">Existing Vegetation Community at the road:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
Existing Vegetation Community at the road

<style isBold="true">Existing Vegetation Community at the pipeline:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
Existing Vegetation Community at the pipeline

<style isBold="true">Existing Vegetation Community at other disturbances:</style> Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and

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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

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 410618
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
tsebastian	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/11/2024
tsebastian	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/11/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/26/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/26/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/26/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/26/2024