AFMSS

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

Application for Permit to Drill

APD Package Report

Date Printed: 11/26/2024 12:15 PM

APD ID:	10400097987	Well Status:	AAPD
APD Received Date:	04/16/2024 07:15 AM	Well Name:	POKER LAKE UNIT 23 DTD
Operator:	XTO PERMIAN OPERATING LLC	Well Number:	104H

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): 4 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: 4 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

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 104H

2. Name of Operator: XTO PERMIAN OPERATING LLC

9. API Well No.: 30-015-55914

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: SWSW / 556 FSL / 310 FWL / LAT 32.21214 / LONG -103.85927

At proposed prod. zone: SWNW / 2627 FNL / 839 FWL / LAT 32.174415 / LONG -103.8575

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 14/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): 310 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: 11220 feet / 24100 feet

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3448 feet

22. Approximate date work will start*: 07/25/2025

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: 04/16/2024

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

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.

(Continued on page 3)

Additional Operator Remarks

Location of Well

0. SHL: SWSW / 556 FSL / 310 FWL / TWSP: 24S / RANGE: 30E / SECTION: 14 / LAT: 32.21214 / LONG: -103.85927 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 839 FWL / TWSP: 24S / RANGE: 30E / SECTION: 23 / LAT: 32.210341 / LONG: -103.857565 (TVD: 11220 feet, MD: 11800 feet)

PPP: NWNW / 0 FSL / 854 FWL / TWSP: 24S / RANGE: 30E / SECTION: 26 / LAT: 32.196133 / LONG: -103.85754 (TVD: 11220 feet, MD: 17000 feet)

BHL: SWNW / 2627 FNL / 839 FWL / TWSP: 24S / RANGE: 30E / SECTION: 35 / LAT: 32.174415 / LONG: -103.8575 (TVD: 11220 feet, MD: 24100 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.

Amended Report ☐ | As Drilled ☐

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-55914	98220	PURPLE SAGE; WOLFCAMP (GAS)

Property Code	Property Name	Well Number
325598	POKER LAKE UNIT 23 DTD	104H

OGRID No.	Operator Name	Ground Level Elevation
373075	XTO PERMIAN OPERATING, LLC.	3,448'

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
M	14	24S	30E		556' FSL	310' FWL	32.212140	-103.859270	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	35	24S	30E		2,627' FNL	839' FWL	32.174415	-103.857500	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
M	14	24S	30E		556' FSL	310' FWL	32.212140	-103.859270	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	23	24S	30E		100' FNL	839' FWL	32.210341	-103.857565	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	35	24S	30E		2,537' FNL	839' FWL	32.174662	-103.857502	EDDY

Unitized Area or Area of Interest	Spacing Unit Type : ☒Horizontal ☐Vertical	Ground Elevation
NMNM105422429		3,448'

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 — 10/29/2024

Signature — Date

Terra Sebastian

Printed Name

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

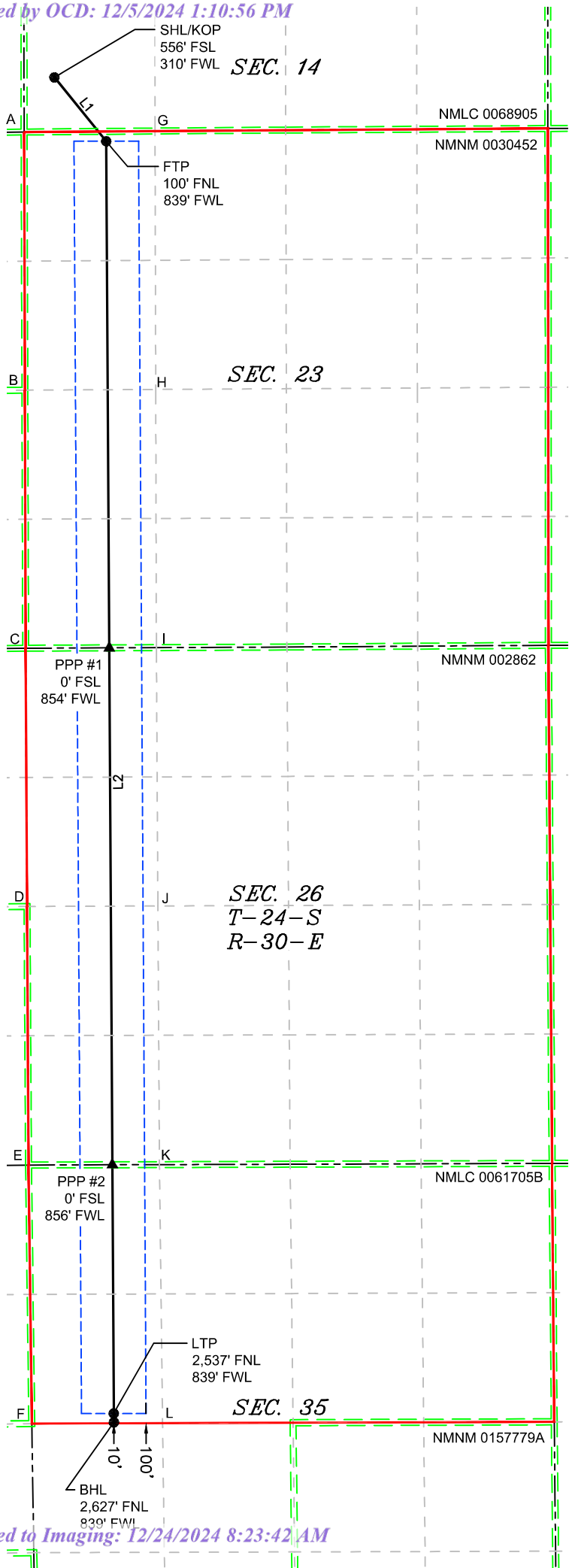
MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

MARK DILLON HARP 23786 — 10/28/2024

Certificate Number — Date of Survey

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



LEGEND

- SECTION LINE
- PROPOSED WELL BORE
- NEW MEXICO MINERAL LEASE
- 330' BUFFER
- ALLOCATION AREA

LINE TABLE		
LINE	AZIMUTH	LENGTH
L1	140°53'25"	840.26'
L2	179°39'28"	13,069.54'

COORDINATE TABLE					
SHL/KOP (NAD 83 NME)			**SHL/KOP (NAD 27 NME)**		
Y =	441,233.8	N	Y =	441,174.8	N
X =	687,952.9	E	X =	646,769.2	E
LAT. =	32.212140	°N	LAT. =	32.212016	°N
LONG. =	103.859270	°W	LONG. =	103.858783	°W
FTP (NAD 83 NME)			**FTP (NAD 27 NME)**		
Y =	440,581.8	N	Y =	440,522.8	N
X =	688,483.0	E	X =	647,299.2	E
LAT. =	32.210341	°N	LAT. =	32.210217	°N
LONG. =	103.857565	°W	LONG. =	103.857079	°W
PPP #1 (NAD 83 NME)			**PPP #1 (NAD 27 NME)**		
Y =	435,413.2	N	Y =	435,354.3	N
X =	688,513.6	E	X =	647,329.7	E
LAT. =	32.196133	°N	LAT. =	32.196009	°N
LONG. =	103.857540	°W	LONG. =	103.857055	°W
PPP #2 (NAD 83 NME)			**PPP #2 (NAD 27 NME)**		
Y =	430,139.9	N	Y =	430,081.1	N
X =	688,544.9	E	X =	647,360.8	E
LAT. =	32.181637	°N	LAT. =	32.181513	°N
LONG. =	103.857515	°W	LONG. =	103.857030	°W
LTP (NAD 83 NME)			**LTP (NAD 27 NME)**		
Y =	427,602.5	N	Y =	427,543.8	N
X =	688,559.9	E	X =	647,375.7	E
LAT. =	32.174662	°N	LAT. =	32.174538	°N
LONG. =	103.857502	°W	LONG. =	103.857018	°W
BHL (NAD 83 NME)			**BHL (NAD 27 NME)**		
Y =	427,512.5	N	Y =	427,453.8	N
X =	688,561.1	E	X =	647,376.8	E
LAT. =	32.174415	°N	LAT. =	32.174291	°N
LONG. =	103.857500	°W	LONG. =	103.857015	°W
CORNER COORDINATES (NAD 83 NME)					
A - Y =	440,675.5	N	A - X =	687,643.7	E
B - Y =	438,041.1	N	B - X =	687,651.9	E
C - Y =	435,409.3	N	C - X =	687,659.2	E
D - Y =	432,774.3	N	D - X =	687,673.4	E
E - Y =	430,137.1	N	E - X =	687,689.1	E
F - Y =	427,500.0	N	F - X =	687,722.1	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 =	440,616.4	N	A - X =	646,459.9	E
B - Y =	437,982.1	N	B - X =	646,468.1	E
C - Y =	435,350.4	N	C - X =	646,475.2	E
D - Y =	432,715.5	N	D - X =	646,489.4	E
E - Y =	430,078.3	N	E - X =	646,505.0	E
F - Y =	427,441.3	N	F - X =	646,537.9	E
G - Y =	440,626.6	N	G - X =	647,797.5	E

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.

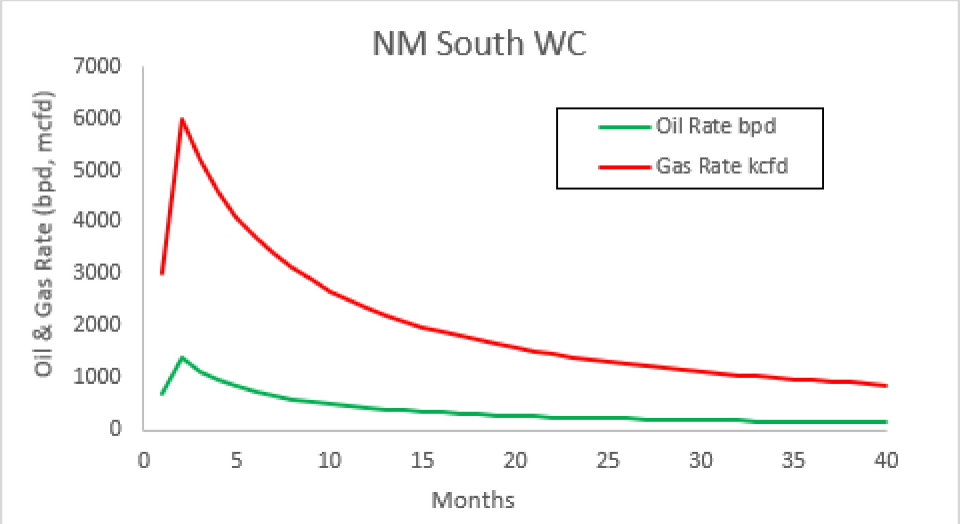
- During production operations, XTO Permian Operating LLC will take every practical effort to minimize waste of natural gas through venting and flaring by:

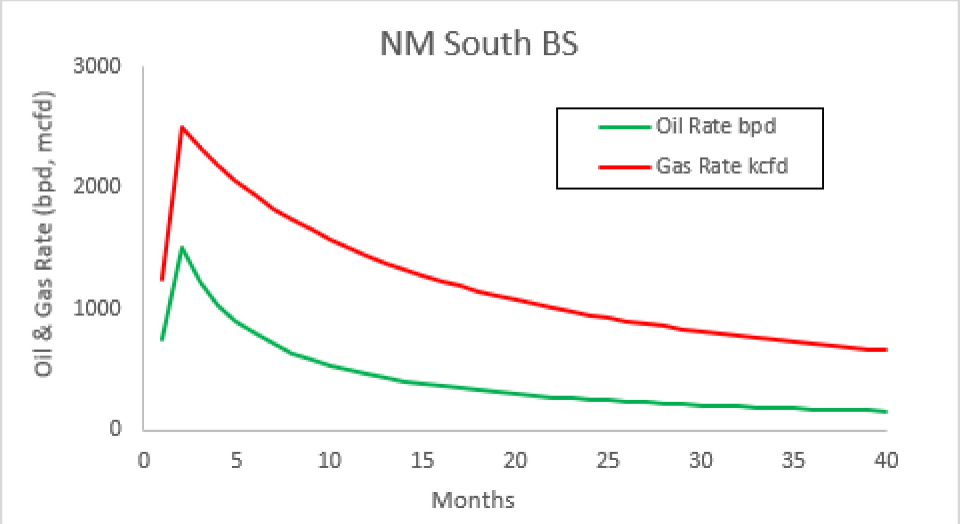
    - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
    - Utilizing a closed-loop capture system to collect, and route produced gas to sales line via low pressure compression, or to a flare/combustor
    - Flaring 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

APD ID: 10400097987 **Submission Date:** 04/16/2024

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 104H

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
14549338	QUATERNARY	3448	0	0	ALLUVIUM	USEABLE WATER	N
14549339	RUSTLER	2180	1268	1268	ANHYDRITE	USEABLE WATER	N
14549332	SALADO	1777	1671	1671	SALT	POTASH	N
14549335	BASE OF SALT	-416	3864	3864	SALT	POTASH	N
14549336	DELAWARE	-610	4058	4058	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549337	BRUSHY CANYON	-3116	6564	6564	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549333	BONE SPRING	-4405	7853	7853	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549329	BONE SPRING 1ST	-5176	8624	8624	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549334	BONE SPRING 2ND	-5778	9226	9226	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
14549331	WOLFCAMP	-7742	11190	11190	SANDSTONE, SHALE	NATURAL GAS, OIL, OTHER : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 11220

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 4 string Slim Hole Multi-Bowl system which is attached.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose: See Attached. XTO requests a variance to be able batch drill this well if necessary. XTO request a break test variance: See Attached. XTO requests a variance to utilize a spudder rig: See Attached.
Testing Procedure: All BOP testing will be done by an independent service company. Operator will test as per 43 CFR 3172

Choke Diagram Attachment:

PLU_23_DTD_5MCM_20240410151726.pdf

BOP Diagram Attachment:

PLU_23_DTD_5M10MBOP_20240410151418.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	17.5	13.375	NEW	API	N	0	1646	0	1646	3448	1802	1646	J-55	54.5	BUTT	1.57	2.91	DRY	10.13	DRY	10.13
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3964	0	3964	3446	-516	3964	J-55	40	BUTT	2.87	1.61	DRY	3.97	DRY	3.97
3	INTERMEDIATE	8.75	7.625	NEW	API	Y	0	10304	0	10186	3446	-6738	10304	L-80	29.7	FJ	3.3	1.62	DRY	2.19	DRY	2.19
4	PRODUCTION	6.75	5.5	NEW	NON API	Y	0	24100	0	11220	3446	-7772	24100	P-110	20	OTHER - Freedom HTQ/Talon HTQ	1.65	1.05	DRY	5.46	DRY	5.46

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_104H_Csg_20241011140717.pdf

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_104H_Csg_20241011140724.pdf

Casing ID: 3 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_23_DTD_104H_Csg_20241011140732.pdf

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_104H_Csg_20241011140736.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Freedom_semi_premium_5.5_production_casing_20240926044103.pdf
Talon___semiflush_5.5_production_casing_20240926044102.pdf

Tapered String Spec:

PLU_23_DTD_104H_Csg_20241011140745.pdf

Casing Design Assumptions and Worksheet(s):

PLU_23_DTD_104H_Csg_20241011140749.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	1646	1400	1.33	12.8	1862	100	EconoCem-HLTRRC	NA
SURFACE	Tail		0	1646	310	1.33	14.8	412.3	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	3964	830	2.06	14.8	1709.8	100	Class C	NA
INTERMEDIATE	Tail		0	3964	60	2.06	15.6	123.6	100	Class C	2% CaCl
INTERMEDIATE	Lead		3664	6564	530	1.27	14.8	673.1	100	Class C	NA
INTERMEDIATE	Tail		6564	10304	130	2.77	14.8	360.1	100	Class C	NA
PRODUCTION	Lead		10004	10622	20	2.69	11.5	53.8	30	NeoCem	NA
PRODUCTION	Tail		10622	24100	850	1.51	13.2	1283.5	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
10304	24100	OIL-BASED MUD	11.5	12							
3964	10304	OTHER : BDE/OBM	8.8	9.3							
1646	3964	SALT SATURATED	10.5	11							
0	1646	WATER-BASED MUD	8.4	8.9							

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: 7001 **Anticipated Surface Pressure:** 4532

Anticipated Bottom Hole Temperature(F): 195

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_20240926043354.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_23_DTD_104H_DD_20240411170553.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PLU_23_DTD_104H_Cmt_20240411170602.pdf
PLU_23_DTD_H2S_DiaC_20240926044526.pdf
13.375_9.625_7.625_5.5_4_String_Slimhole_SDT_3301_1_20240926044943.pdf
PLU_23_DTD_H2S_DiaD_20241010070052.pdf
PLU_23_DTD_H2S_DiaA_20241010070053.pdf
23_DTD___GCP_20241101005330.pdf

Other Variance attachment:

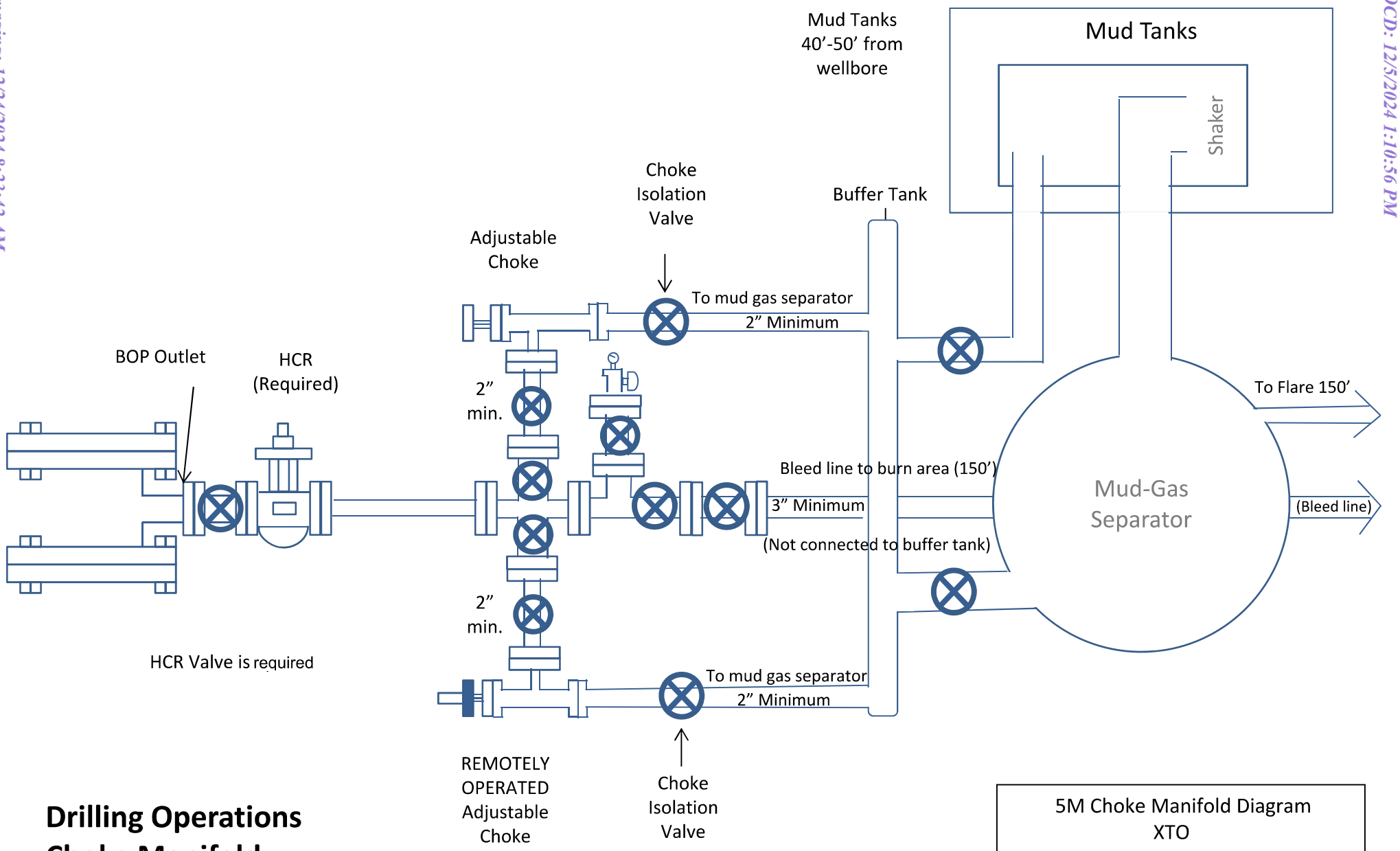
Spudder_Rig_Request_20240926045051.pdf
Offline_Cement_Variance_Surf___Interm_Csg_20240926045054.pdf
Updated_Flex_Hose_20240926045058.pdf
BOP_Break_Test_Variance_20240926045104.pdf

Casing Assumptions

Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 1646'	13.375	54.5	J-55	BTC	New	2.91	1.57	10.13
12.25	0' – 3964'	9.625	40	J-55	BTC	New	1.61	2.87	3.97
8.75	0' – 4064'	7.625	29.7	RY P-110	Flush Joint	New	2.23	2.88	1.82
8.75	4064' – 10304'	7.625	29.7	HC L-80	Flush Joint	New	1.62	3.30	2.19
6.75	0' – 10204'	5.5	20	RY P-110	Freedom HTQ	New	1.05	1.82	1.99
6.75	10204' - 24100'	5.5	20	RY P-110	Talon HTQ	New	1.05	1.65	5.46

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



Drilling Operations
Choke Manifold
5M Service

5M Choke Manifold Diagram
XTO

Cement Variance Request

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 (6564') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to 3664'.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface. 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 wellhead provider procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

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.

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by- well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance…". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack

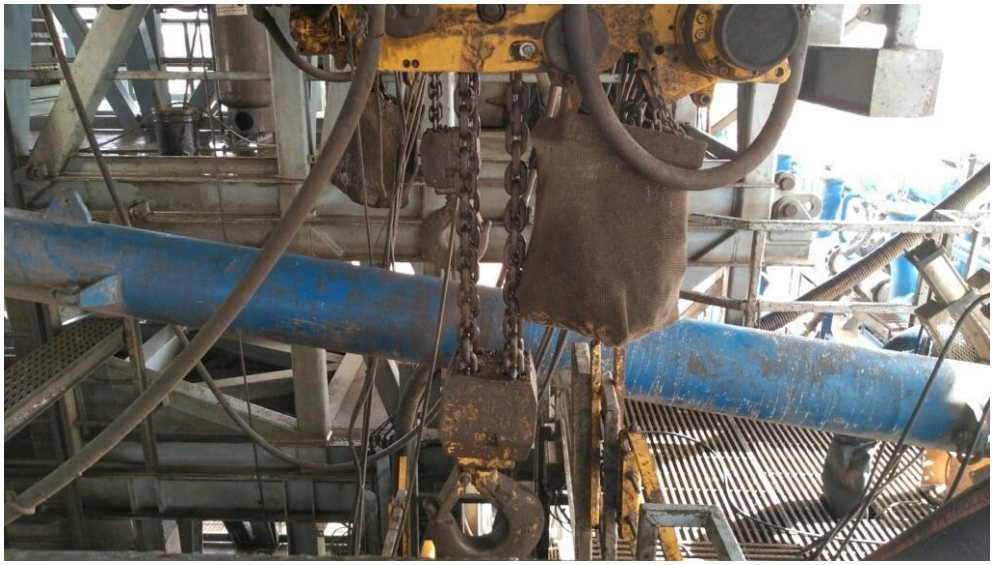


Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

62 API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure[ac] psig (MPa)	Pressure Test—High Pressure[ac]	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer[b]	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.
Fixed pipe, variable bore, blind, and BSR preventers[bd]	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP
Choke manifold—upstream of chokes[e]	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP
Choke manifold—downstream of chokes[e]	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

[a] Pressure test evaluation periods shall be a minimum of five minutes.
No visible leaks.
The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

[b] Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

[c] For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

[d] For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

[e] Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

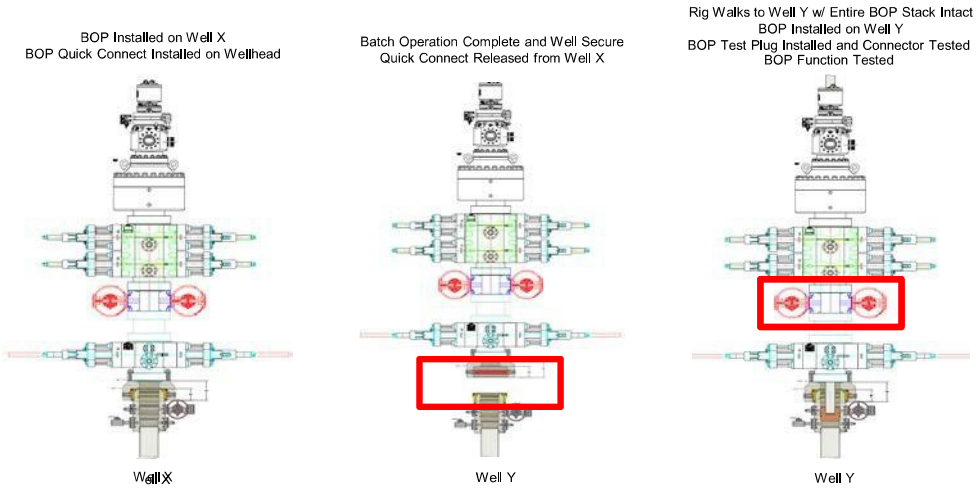
XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 0and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

1. XTO Energy will use this document for our break testing plan for New Mexico Delaware basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
    a. A full BOP test will be conducted on the first well on the pad.
    b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
        i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
        ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
    c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
    d. A full BOP test will be required prior to drilling any production hole.
3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
    a. Between the HCV valve and choke line connection
    b. Between the BOP quick connect and the wellhead
4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
6. The connections mentioned in 3a and 3b will then be reconnected.
7. Install test plug into the wellhead using test joint or drill pipe.
8. A shell test is performed against the upper pipe rams testing the two breaks.
9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

1. After a full BOP test is conducted on the first well on the pad.

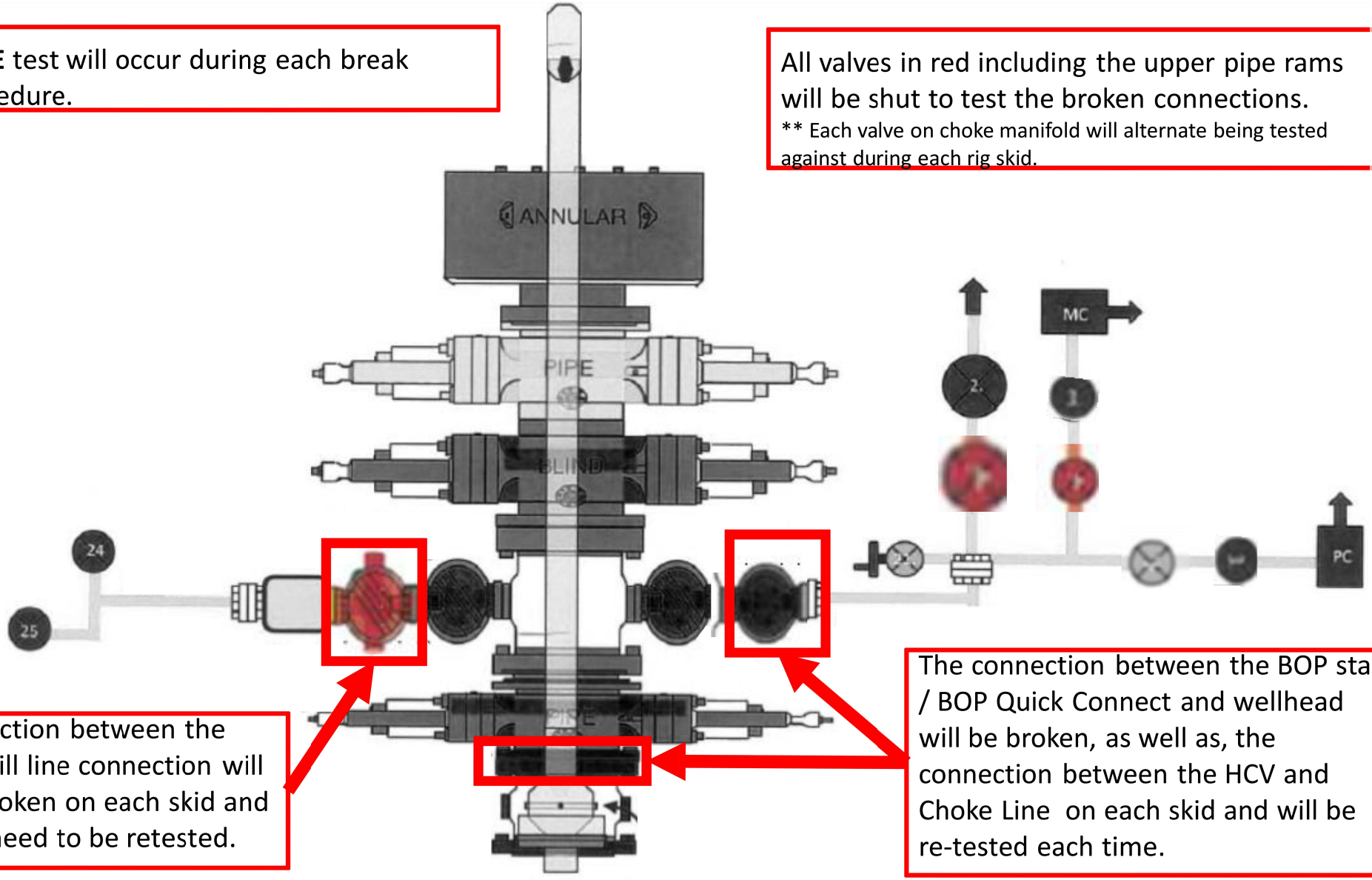
2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.

3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4. Full BOP test will be required prior to drilling the production hole.

Only **ONE** test will occur during each break test procedure.

All valves in red including the upper pipe rams will be shut to test the broken connections.
** Each valve on choke manifold will alternate being tested against during each rig skid.



The connection between the HCV and kill line connection will **NOT** be broken on each skid and does not need to be retested.

The connection between the BOP stack / BOP Quick Connect and wellhead will be broken, as well as, the connection between the HCV and Choke Line on each skid and will be re-tested each time.

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.

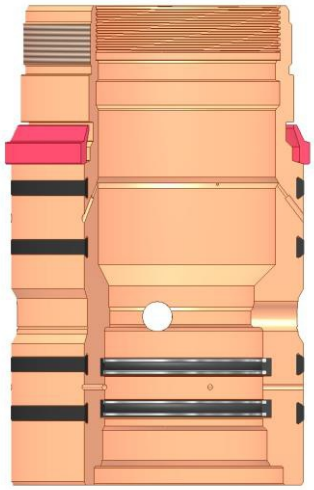
1. Cement Program

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

2. Offline Cementing Procedure

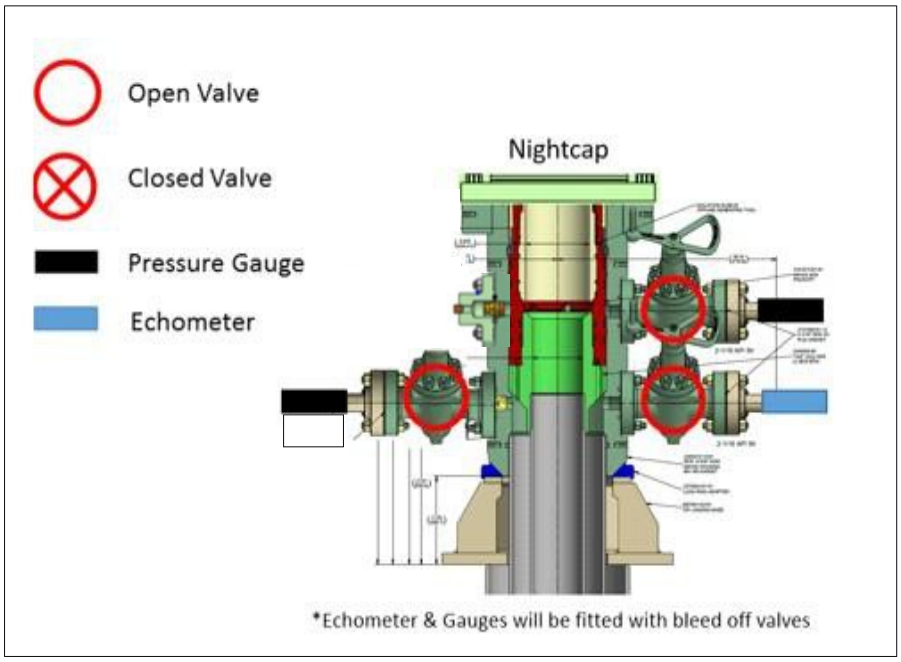
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

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

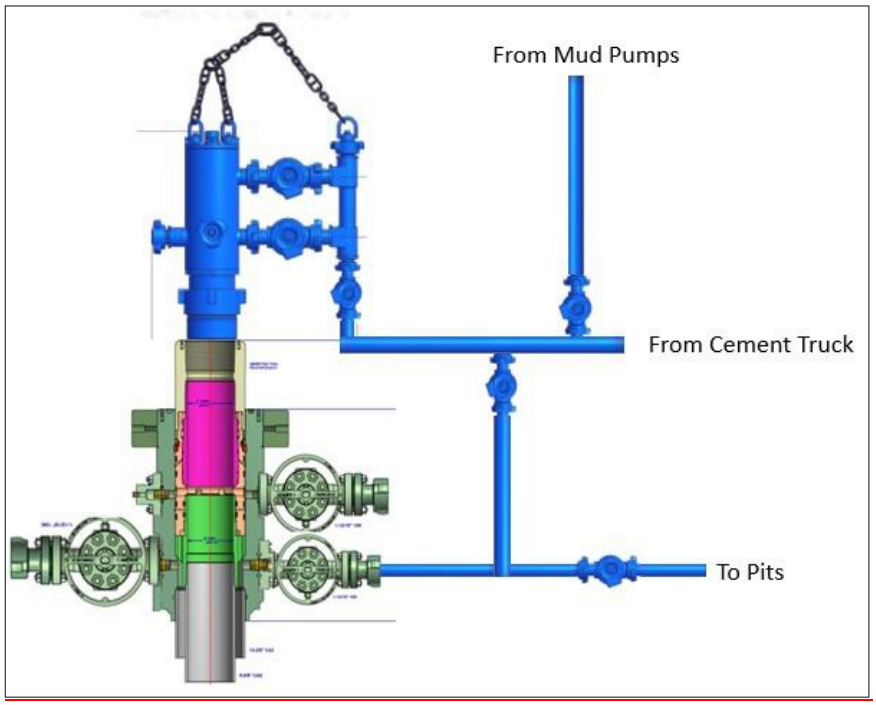
XTO Permian Operating, LLC Offline Cementing Variance Request



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®

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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. OSMOS

TITLE: QUALITY ASSURANCE

DATE: 1/25/2024

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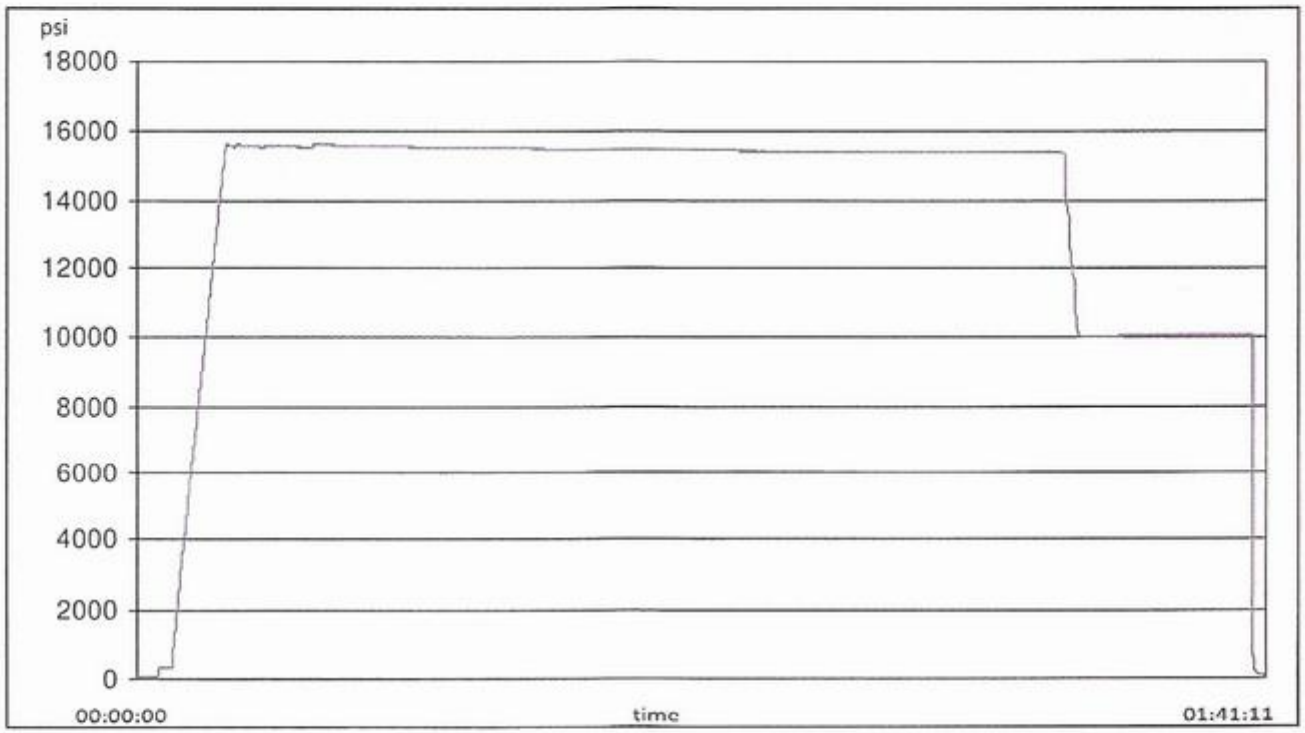
TEST REPORT

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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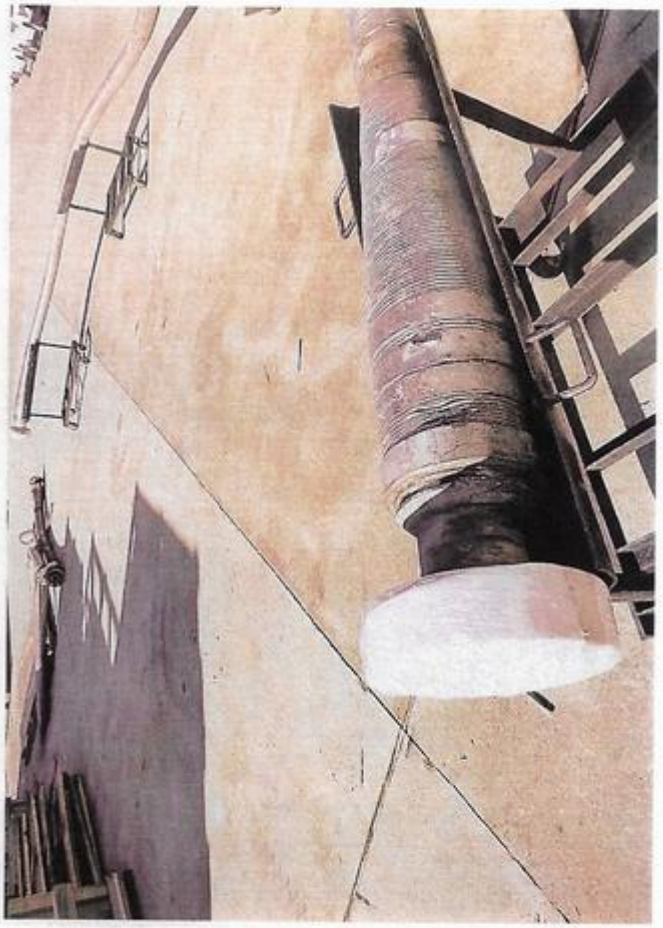
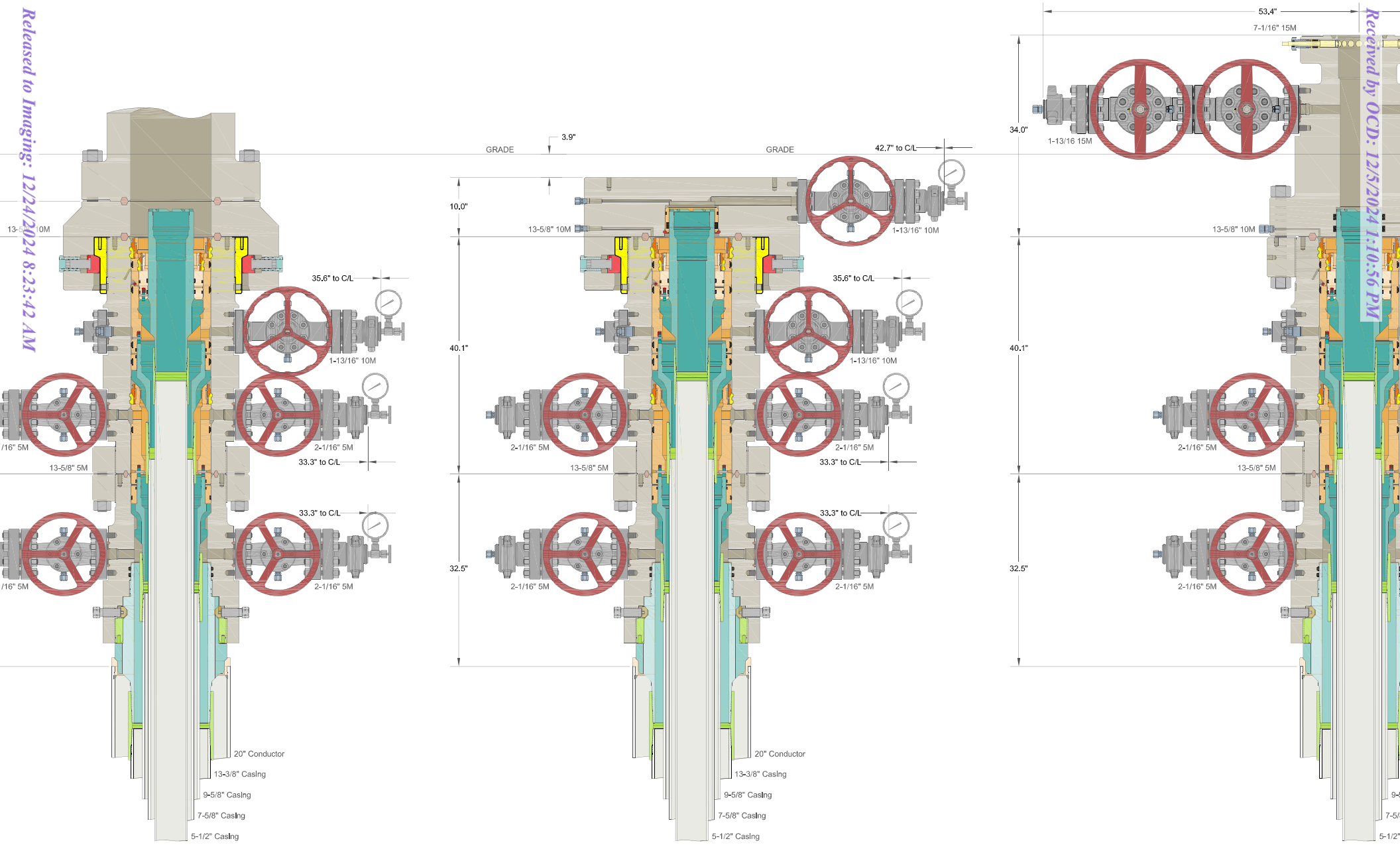
TEST REPORT

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





CACTUS WELLHEAD LLC

Well Plan Report - Poker Lake Unit 23 DTD South 104H

Measured Depth:	24099.66 ft
TVD RKB:	11220.00 ft
Location	
Cartographic Reference System:	New Mexico East - NAD 27
Northing:	441174.80 ft
Easting:	646769.20 ft
RKB:	3480.00 ft
Ground Level:	3448.00 ft
North Reference:	Grid
Convergence Angle:	0.25 Deg

Plan Sections Poker Lake Unit 23 DTD South 104H

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	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
4896.83	17.94	140.89	4882.25	-108.04	87.82	2.00	0.00	2.00	
6720.99	17.94	140.89	6617.75	-543.96	442.18	0.00	0.00	0.00	
7617.81	0.00	0.00	7500.00	-652.00	530.00	-2.00	0.00	2.00	
10621.61	0.00	0.00	10503.80	-652.00	530.00	0.00	0.00	0.00	
11746.61	90.00	179.66	11220.00	-1368.18	534.22	8.00	0.00	8.00	
24009.61	90.00	179.66	11220.00	-13630.97	606.57	0.00	0.00	0.00	LTP 4
24099.66	90.00	179.66	11220.00	-13721.02	607.10	0.00	0.00	0.00	BHL 4

Position Uncertainty Poker Lake Unit 23 DTD South 104H

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	2.487	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	2.637	0.000	0.000	3.943	3.764	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1200.000	0.000	0.000	1200.000	4.302	0.000	4.122	0.000	2.693	0.000	0.000	4.302	4.122	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1300.000	0.000	0.000	1300.000	4.660	0.000	4.481	0.000	2.753	0.000	0.000	4.660	4.481	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1400.000	0.000	0.000	1400.000	5.019	0.000	4.839	0.000	2.816	0.000	0.000	5.019	4.839	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1500.000	0.000	0.000	1500.000	5.377	0.000	5.198	0.000	2.881	0.000	0.000	5.377	5.198	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1600.000	0.000	0.000	1600.000	5.736	0.000	5.556	0.000	2.949	0.000	0.000	5.736	5.556	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1700.000	0.000	0.000	1700.000	6.094	0.000	5.915	0.000	3.019	0.000	0.000	6.094	5.915	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1800.000	0.000	0.000	1800.000	6.452	0.000	6.273	0.000	3.090	0.000	0.000	6.452	6.273	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
1900.000	0.000	0.000	1900.000	6.811	0.000	6.632	0.000	3.164	0.000	0.000	6.811	6.632	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2000.000	0.000	0.000	2000.000	7.169	0.000	6.990	0.000	3.240	0.000	0.000	7.169	6.990	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2100.000	0.000	0.000	2100.000	7.528	0.000	7.349	0.000	3.317	0.000	0.000	7.528	7.349	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2200.000	0.000	0.000	2200.000	7.886	0.000	7.707	0.000	3.396	0.000	0.000	7.886	7.707	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2300.000	0.000	0.000	2300.000	8.245	0.000	8.066	0.000	3.476	0.000	0.000	8.245	8.066	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2400.000	0.000	0.000	2400.000	8.603	0.000	8.424	0.000	3.557	0.000	0.000	8.603	8.424	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2500.000	0.000	0.000	2500.000	8.962	0.000	8.783	0.000	3.641	0.000	0.000	8.962	8.783	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2600.000	0.000	0.000	2600.000	9.320	0.000	9.141	0.000	3.725	0.000	0.000	9.320	9.141	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2700.000	0.000	0.000	2700.000	9.679	0.000	9.499	0.000	3.811	0.000	0.000	9.679	9.499	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2800.000	0.000	0.000	2800.000	10.037	0.000	9.858	0.000	3.898	0.000	0.000	10.037	9.858	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
2900.000	0.000	0.000	2900.000	10.396	0.000	10.216	0.000	3.986	0.000	0.000	10.396	10.216	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3000.000	0.000	0.000	3000.000	10.754	0.000	10.575	0.000	4.076	0.000	0.000	10.754	10.575	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3100.000	0.000	0.000	3100.000	11.113	0.000	10.933	0.000	4.167	0.000	0.000	11.113	10.933	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3200.000	0.000	0.000	3200.000	11.471	0.000	11.292	0.000	4.259	0.000	0.000	11.471	11.292	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

3300.000	0.000	0.000	3300.000	11.830	0.000	11.650	0.000	4.352	0.000	0.000	11.830	11.650	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3400.000	0.000	0.000	3400.000	12.188	0.000	12.009	0.000	4.447	0.000	0.000	12.188	12.009	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3500.000	0.000	0.000	3500.000	12.547	0.000	12.367	0.000	4.543	0.000	0.000	12.547	12.367	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3600.000	0.000	0.000	3600.000	12.905	0.000	12.726	0.000	4.641	0.000	0.000	12.905	12.726	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3700.000	0.000	0.000	3700.000	13.263	0.000	13.084	0.000	4.739	0.000	0.000	13.263	13.084	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3800.000	0.000	0.000	3800.000	13.622	0.000	13.443	0.000	4.840	0.000	0.000	13.622	13.443	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
3900.000	0.000	0.000	3900.000	13.980	0.000	13.801	0.000	4.941	0.000	0.000	13.980	13.801	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4000.000	0.000	0.000	4000.000	14.339	0.000	14.160	0.000	5.044	0.000	0.000	14.339	14.160	90.000	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4100.000	2.000	140.893	4099.980	14.602	0.000	14.573	-0.000	5.149	0.000	0.000	14.681	14.501	90.009	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4200.000	4.000	140.893	4199.838	14.905	0.000	14.899	-0.000	5.253	0.000	0.000	15.009	14.826	90.022	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4300.000	6.000	140.893	4299.452	15.192	0.000	15.226	-0.000	5.358	0.000	0.000	15.338	15.151	90.137	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4400.000	8.000	140.893	4398.702	15.462	0.000	15.554	-0.000	5.464	0.000	0.000	15.667	15.476	90.441	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4500.000	10.000	140.893	4497.465	15.716	0.000	15.882	-0.000	5.570	0.000	0.000	15.996	15.800	91.013	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4600.000	12.000	140.893	4595.623	15.952	0.000	16.210	-0.000	5.677	0.000	0.000	16.325	16.123	91.924	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4700.000	14.000	140.893	4693.055	16.171	0.000	16.540	-0.000	5.786	0.000	0.000	16.654	16.444	93.238	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4800.000	16.000	140.893	4789.643	16.371	0.000	16.870	-0.000	5.896	0.000	0.000	16.982	16.764	95.010	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4896.825	17.937	140.893	4882.249	16.547	0.000	17.191	-0.000	6.004	0.000	0.000	17.298	17.072	97.189	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
4900.000	17.937	140.893	4885.269	16.557	0.000	17.201	-0.000	6.004	0.000	0.000	17.309	17.083	97.083	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5000.000	17.937	140.893	4980.409	16.882	0.000	17.535	-0.000	6.127	0.000	0.000	17.636	17.400	99.981	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5100.000	17.937	140.893	5075.549	17.208	0.000	17.873	-0.000	6.254	0.000	0.000	17.967	17.718	102.808	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5200.000	17.937	140.893	5170.689	17.536	0.000	18.213	-0.000	6.384	0.000	0.000	18.301	18.037	105.527	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5300.000	17.937	140.893	5265.828	17.866	0.000	18.557	-0.000	6.517	0.000	0.000	18.639	18.358	108.107	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5400.000	17.937	140.893	5360.968	18.197	0.000	18.903	-0.000	6.654	0.000	0.000	18.979	18.680	110.528	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5500.000	17.937	140.893	5456.108	18.530	0.000	19.252	-0.000	6.793	0.000	0.000	19.323	19.002	112.777	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5600.000	17.937	140.893	5551.248	18.864	0.000	19.604	-0.000	6.935	0.000	0.000	19.670	19.326	114.851	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5700.000	17.937	140.893	5646.388	19.200	0.000	19.958	-0.000	7.080	0.000	0.000	20.019	19.651	116.755	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5800.000	17.937	140.893	5741.528	19.537	0.000	20.314	-0.000	7.228	0.000	0.000	20.371	19.977	118.495	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
5900.000	17.937	140.893	5836.667	19.875	0.000	20.673	-0.000	7.379	0.000	0.000	20.726	20.303	120.082	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6000.000	17.937	140.893	5931.807	20.214	0.000	21.034	-0.000	7.532	0.000	0.000	21.083	20.630	121.529	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6100.000	17.937	140.893	6026.947	20.555	0.000	21.396	-0.000	7.688	0.000	0.000	21.442	20.958	122.848	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6200.000	17.937	140.893	6122.087	20.896	0.000	21.761	-0.000	7.847	0.000	0.000	21.804	21.287	124.051	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6300.000	17.937	140.893	6217.227	21.238	0.000	22.127	-0.000	8.008	0.000	0.000	22.167	21.617	125.150	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6400.000	17.937	140.893	6312.367	21.582	0.000	22.495	-0.000	8.172	0.000	0.000	22.532	21.947	126.156	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6500.000	17.937	140.893	6407.506	21.926	0.000	22.864	-0.000	8.339	0.000	0.000	22.899	22.278	127.078	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

6600.000	17.937	140.893	6502.646	22.271	0.000	23.235	-0.000	8.508	0.000	0.000	23.268	22.610	127.924	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6700.000	17.937	140.893	6597.786	22.617	0.000	23.608	-0.000	8.680	0.000	0.000	23.639	22.943	128.703	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6720.985	17.937	140.893	6617.751	22.689	0.000	23.686	-0.000	8.716	0.000	0.000	23.716	23.012	128.856	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6800.000	16.356	140.893	6693.252	23.073	0.000	23.981	-0.000	8.856	0.000	0.000	24.009	23.276	129.402	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
6900.000	14.356	140.893	6789.677	23.538	0.000	24.352	-0.000	9.035	0.000	0.000	24.379	23.614	129.986	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7000.000	12.356	140.893	6886.967	23.979	0.000	24.722	-0.000	9.213	0.000	0.000	24.747	23.955	130.461	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7100.000	10.356	140.893	6985.004	24.395	0.000	25.088	-0.000	9.391	0.000	0.000	25.113	24.299	130.850	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7200.000	8.356	140.893	7083.669	24.785	0.000	25.452	-0.000	9.567	0.000	0.000	25.475	24.645	131.168	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7300.000	6.356	140.893	7182.841	25.148	0.000	25.811	-0.000	9.742	0.000	0.000	25.833	24.993	131.430	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7400.000	4.356	140.893	7282.399	25.484	0.000	26.166	-0.000	9.915	0.000	0.000	26.188	25.340	131.647	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7500.000	2.356	140.893	7382.223	25.791	0.000	26.517	-0.000	10.088	0.000	0.000	26.538	25.688	131.828	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7600.000	0.356	140.893	7482.189	26.070	0.000	26.864	-0.000	10.258	0.000	0.000	26.884	26.034	131.982	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7617.811	0.000	0.000	7500.000	26.568	0.000	26.479	0.000	10.289	0.000	0.000	26.945	26.096	131.974	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7700.000	0.000	0.000	7582.189	26.853	0.000	26.759	0.000	10.429	0.000	0.000	27.225	26.381	131.788	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7800.000	0.000	0.000	7682.189	27.201	0.000	27.100	0.000	10.602	0.000	0.000	27.567	26.727	131.564	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
7900.000	0.000	0.000	7782.189	27.548	0.000	27.442	0.000	10.778	0.000	0.000	27.909	27.075	131.342	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8000.000	0.000	0.000	7882.189	27.895	0.000	27.784	0.000	10.957	0.000	0.000	28.251	27.422	131.124	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8100.000	0.000	0.000	7982.189	28.243	0.000	28.126	0.000	11.139	0.000	0.000	28.594	27.770	130.908	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8200.000	0.000	0.000	8082.189	28.592	0.000	28.469	0.000	11.324	0.000	0.000	28.937	28.118	130.695	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8300.000	0.000	0.000	8182.189	28.940	0.000	28.812	0.000	11.511	0.000	0.000	29.281	28.466	130.485	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8400.000	0.000	0.000	8282.189	29.289	0.000	29.156	0.000	11.702	0.000	0.000	29.625	28.814	130.277	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8500.000	0.000	0.000	8382.189	29.638	0.000	29.500	0.000	11.896	0.000	0.000	29.969	29.163	130.072	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8600.000	0.000	0.000	8482.189	29.987	0.000	29.844	0.000	12.092	0.000	0.000	30.314	29.512	129.870	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8700.000	0.000	0.000	8582.189	30.336	0.000	30.188	0.000	12.291	0.000	0.000	30.659	29.861	129.670	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8800.000	0.000	0.000	8682.189	30.686	0.000	30.533	0.000	12.494	0.000	0.000	31.004	30.210	129.473	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
8900.000	0.000	0.000	8782.189	31.035	0.000	30.879	0.000	12.699	0.000	0.000	31.350	30.560	129.278	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9000.000	0.000	0.000	8882.189	31.385	0.000	31.224	0.000	12.908	0.000	0.000	31.695	30.909	129.086	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9100.000	0.000	0.000	8982.189	31.735	0.000	31.570	0.000	13.119	0.000	0.000	32.042	31.259	128.896	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9200.000	0.000	0.000	9082.189	32.086	0.000	31.916	0.000	13.334	0.000	0.000	32.388	31.609	128.709	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9300.000	0.000	0.000	9182.189	32.436	0.000	32.262	0.000	13.551	0.000	0.000	32.735	31.959	128.524	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9400.000	0.000	0.000	9282.189	32.787	0.000	32.609	0.000	13.772	0.000	0.000	33.082	32.310	128.342	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9500.000	0.000	0.000	9382.189	33.138	0.000	32.956	0.000	13.995	0.000	0.000	33.429	32.660	128.162	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9600.000	0.000	0.000	9482.189	33.489	0.000	33.303	0.000	14.222	0.000	0.000	33.777	33.011	127.984	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9700.000	0.000	0.000	9582.189	33.840	0.000	33.650	0.000	14.451	0.000	0.000	34.125	33.362	127.808	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

9800.000	0.000	0.000	9682.189	34.191	0.000	33.998	0.000	14.684	0.000	0.000	34.473	33.713	127.635	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
9900.000	0.000	0.000	9782.189	34.543	0.000	34.346	0.000	14.920	0.000	0.000	34.821	34.064	127.464	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10000.000	0.000	0.000	9882.189	34.894	0.000	34.694	0.000	15.159	0.000	0.000	35.169	34.415	127.295	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10100.000	0.000	0.000	9982.189	35.246	0.000	35.042	0.000	15.400	0.000	0.000	35.518	34.766	127.128	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10200.000	0.000	0.000	10082.189	35.598	0.000	35.390	0.000	15.645	0.000	0.000	35.867	35.118	126.964	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10300.000	0.000	0.000	10182.189	35.950	0.000	35.739	0.000	15.893	0.000	0.000	36.216	35.469	126.801	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10400.000	0.000	0.000	10282.189	36.302	0.000	36.088	0.000	16.145	0.000	0.000	36.565	35.821	126.641	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10500.000	0.000	0.000	10382.189	36.654	0.000	36.437	0.000	16.399	0.000	0.000	36.915	36.173	126.483	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10600.000	0.000	0.000	10482.189	37.007	0.000	36.786	0.000	16.656	0.000	0.000	37.265	36.525	126.326	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10621.611	0.000	0.000	10503.800	37.083	0.000	36.862	0.000	16.712	0.000	0.000	37.340	36.601	126.293	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10700.000	6.271	179.662	10582.033	37.354	0.000	37.137	-0.000	16.917	0.000	0.000	37.610	36.872	126.327	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10800.000	14.271	179.662	10680.351	37.178	0.000	37.478	-0.000	17.179	0.000	0.000	37.946	37.209	126.683	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
10900.000	22.271	179.662	10775.232	36.429	0.000	37.816	-0.000	17.433	0.000	0.000	38.276	37.537	127.432	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11000.000	30.271	179.662	10864.830	35.134	0.000	38.145	-0.000	17.676	0.000	0.000	38.589	37.848	128.822	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11100.000	38.271	179.662	10947.401	33.341	0.000	38.462	-0.000	17.902	0.000	0.000	38.881	38.134	131.018	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11200.000	46.271	179.662	11021.338	31.125	0.000	38.762	-0.000	18.108	0.000	0.000	39.150	38.386	134.056	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11300.000	54.271	179.662	11085.201	28.593	0.000	39.042	-0.000	18.293	0.000	0.000	39.395	38.599	-42.226	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11400.000	62.271	179.662	11137.749	25.893	0.000	39.299	-0.000	18.456	0.000	0.000	39.618	38.766	-38.206	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11500.000	70.271	179.662	11177.957	23.236	0.000	39.530	-0.000	18.597	0.000	0.000	39.821	38.886	-34.369	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11600.000	78.271	179.662	11205.043	20.911	0.000	39.733	-0.000	18.718	0.000	0.000	40.002	38.963	-31.112	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11700.000	86.271	179.662	11218.481	19.280	0.000	39.904	-0.000	18.821	0.000	0.000	40.161	39.004	-28.647	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11746.611	90.000	179.662	11219.997	18.863	0.000	39.971	-0.000	18.863	0.000	0.000	40.225	39.014	-27.820	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11800.000	90.000	179.662	11219.997	18.911	0.000	40.044	-0.000	18.911	0.000	0.000	40.297	39.022	-26.963	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
11900.000	90.000	179.662	11219.997	19.008	0.000	40.194	-0.000	19.008	0.000	0.000	40.443	39.037	-25.386	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12000.000	90.000	179.662	11219.997	19.116	0.000	40.356	-0.000	19.116	0.000	0.000	40.599	39.054	-23.927	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12100.000	90.000	179.662	11219.997	19.234	0.000	40.529	-0.000	19.234	0.000	0.000	40.767	39.071	-22.583	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12200.000	90.000	179.662	11219.997	19.362	0.000	40.712	-0.000	19.362	0.000	0.000	40.946	39.088	-21.348	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12300.000	90.000	179.662	11219.997	19.500	0.000	40.907	-0.000	19.500	0.000	0.000	41.136	39.107	-20.213	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12400.000	90.000	179.662	11219.997	19.648	0.000	41.113	-0.000	19.648	0.000	0.000	41.338	39.125	-19.171	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12500.000	90.000	179.662	11219.997	19.804	0.000	41.329	-0.000	19.804	0.000	0.000	41.549	39.145	-18.215	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12600.000	90.000	179.662	11219.997	19.970	0.000	41.555	-0.000	19.970	0.000	0.000	41.772	39.164	-17.336	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12700.000	90.000	179.662	11219.997	20.145	0.000	41.792	-0.000	20.145	0.000	0.000	42.005	39.184	-16.527	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12800.000	90.000	179.662	11219.997	20.328	0.000	42.039	-0.000	20.328	0.000	0.000	42.248	39.205	-15.782	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
12900.000	90.000	179.662	11219.997	20.520	0.000	42.296	-0.000	20.520	0.000	0.000	42.501	39.226	-15.095	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

13000.000	90.000	179.662	11219.997	20.720	0.000	42.563	-0.000	20.720	0.000	0.000	42.764	39.248	-14.460	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13100.000	90.000	179.662	11219.997	20.928	0.000	42.839	-0.000	20.928	0.000	0.000	43.037	39.270	-13.872	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13200.000	90.000	179.662	11219.997	21.143	0.000	43.125	-0.000	21.143	0.000	0.000	43.320	39.293	-13.326	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13300.000	90.000	179.662	11219.997	21.366	0.000	43.420	-0.000	21.366	0.000	0.000	43.611	39.316	-12.819	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13400.000	90.000	179.662	11219.997	21.597	0.000	43.724	-0.000	21.597	0.000	0.000	43.912	39.340	-12.347	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13500.000	90.000	179.662	11219.997	21.834	0.000	44.037	-0.000	21.834	0.000	0.000	44.222	39.364	-11.907	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13600.000	90.000	179.662	11219.997	22.078	0.000	44.359	-0.000	22.078	0.000	0.000	44.541	39.389	-11.496	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13700.000	90.000	179.662	11219.997	22.329	0.000	44.688	-0.000	22.329	0.000	0.000	44.868	39.415	-11.111	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13800.000	90.000	179.662	11219.997	22.586	0.000	45.027	-0.000	22.586	0.000	0.000	45.203	39.441	-10.750	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
13900.000	90.000	179.662	11219.997	22.850	0.000	45.373	-0.000	22.850	0.000	0.000	45.547	39.468	-10.411	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14000.000	90.000	179.662	11219.997	23.119	0.000	45.727	-0.000	23.119	0.000	0.000	45.899	39.495	-10.093	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14100.000	90.000	179.662	11219.997	23.394	0.000	46.089	-0.000	23.394	0.000	0.000	46.258	39.522	-9.793	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14200.000	90.000	179.662	11219.997	23.674	0.000	46.459	-0.000	23.674	0.000	0.000	46.625	39.551	-9.510	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14300.000	90.000	179.662	11219.997	23.960	0.000	46.836	-0.000	23.960	0.000	0.000	47.000	39.580	-9.242	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14400.000	90.000	179.662	11219.997	24.251	0.000	47.220	-0.000	24.251	0.000	0.000	47.382	39.609	-8.989	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14500.000	90.000	179.662	11219.997	24.547	0.000	47.611	-0.000	24.547	0.000	0.000	47.770	39.639	-8.750	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14600.000	90.000	179.662	11219.997	24.848	0.000	48.009	-0.000	24.848	0.000	0.000	48.166	39.670	-8.523	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14700.000	90.000	179.662	11219.997	25.153	0.000	48.414	-0.000	25.153	0.000	0.000	48.569	39.701	-8.307	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14800.000	90.000	179.662	11219.997	25.463	0.000	48.825	-0.000	25.463	0.000	0.000	48.978	39.733	-8.102	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
14900.000	90.000	179.662	11219.997	25.777	0.000	49.242	-0.000	25.777	0.000	0.000	49.393	39.766	-7.907	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15000.000	90.000	179.662	11219.997	26.095	0.000	49.666	-0.000	26.095	0.000	0.000	49.815	39.799	-7.722	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15100.000	90.000	179.662	11219.997	26.417	0.000	50.096	-0.000	26.417	0.000	0.000	50.243	39.833	-7.545	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15200.000	90.000	179.662	11219.997	26.743	0.000	50.531	-0.000	26.743	0.000	0.000	50.677	39.867	-7.375	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15300.000	90.000	179.662	11219.997	27.073	0.000	50.973	-0.000	27.073	0.000	0.000	51.116	39.902	-7.214	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15400.000	90.000	179.662	11219.997	27.406	0.000	51.420	-0.000	27.406	0.000	0.000	51.561	39.937	-7.059	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15500.000	90.000	179.662	11219.997	27.743	0.000	51.872	-0.000	27.743	0.000	0.000	52.012	39.973	-6.912	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15600.000	90.000	179.662	11219.997	28.083	0.000	52.330	-0.000	28.083	0.000	0.000	52.468	40.010	-6.770	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15700.000	90.000	179.662	11219.997	28.426	0.000	52.793	-0.000	28.426	0.000	0.000	52.929	40.047	-6.634	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15800.000	90.000	179.662	11219.997	28.772	0.000	53.260	-0.000	28.772	0.000	0.000	53.395	40.085	-6.504	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
15900.000	90.000	179.662	11219.997	29.122	0.000	53.733	-0.000	29.122	0.000	0.000	53.866	40.124	-6.379	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16000.000	90.000	179.662	11219.997	29.474	0.000	54.211	-0.000	29.474	0.000	0.000	54.342	40.163	-6.258	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16100.000	90.000	179.662	11219.997	29.829	0.000	54.693	-0.000	29.829	0.000	0.000	54.823	40.203	-6.143	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16200.000	90.000	179.662	11219.997	30.186	0.000	55.179	-0.000	30.186	0.000	0.000	55.308	40.243	-6.031	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16300.000	90.000	179.662	11219.997	30.547	0.000	55.671	-0.000	30.547	0.000	0.000	55.797	40.284	-5.924	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

16400.000	90.000	179.662	11219.997	30.909	0.000	56.166	-0.000	30.909	0.000	0.000	56.291	40.325	-5.821	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16500.000	90.000	179.662	11219.997	31.274	0.000	56.665	-0.000	31.274	0.000	0.000	56.789	40.367	-5.721	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16600.000	90.000	179.662	11219.997	31.642	0.000	57.169	-0.000	31.642	0.000	0.000	57.291	40.410	-5.625	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16700.000	90.000	179.662	11219.997	32.011	0.000	57.677	-0.000	32.011	0.000	0.000	57.797	40.453	-5.532	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16800.000	90.000	179.662	11219.997	32.383	0.000	58.188	-0.000	32.383	0.000	0.000	58.308	40.497	-5.442	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
16900.000	90.000	179.662	11219.997	32.757	0.000	58.703	-0.000	32.757	0.000	0.000	58.821	40.542	-5.356	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17000.000	90.000	179.662	11219.997	33.133	0.000	59.222	-0.000	33.133	0.000	0.000	59.339	40.587	-5.272	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17100.000	90.000	179.662	11219.997	33.510	0.000	59.744	-0.000	33.510	0.000	0.000	59.860	40.632	-5.191	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17200.000	90.000	179.662	11219.997	33.890	0.000	60.270	-0.000	33.890	0.000	0.000	60.384	40.679	-5.112	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17300.000	90.000	179.662	11219.997	34.272	0.000	60.799	-0.000	34.272	0.000	0.000	60.912	40.725	-5.036	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17400.000	90.000	179.662	11219.997	34.655	0.000	61.332	-0.000	34.655	0.000	0.000	61.444	40.773	-4.962	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17500.000	90.000	179.662	11219.997	35.040	0.000	61.867	-0.000	35.040	0.000	0.000	61.978	40.821	-4.891	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17600.000	90.000	179.662	11219.997	35.426	0.000	62.406	-0.000	35.426	0.000	0.000	62.516	40.869	-4.821	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17700.000	90.000	179.662	11219.997	35.815	0.000	62.948	-0.000	35.815	0.000	0.000	63.056	40.918	-4.754	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17800.000	90.000	179.662	11219.997	36.204	0.000	63.493	-0.000	36.204	0.000	0.000	63.600	40.968	-4.689	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
17900.000	90.000	179.662	11219.997	36.596	0.000	64.041	-0.000	36.596	0.000	0.000	64.147	41.018	-4.625	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18000.000	90.000	179.662	11219.997	36.988	0.000	64.591	-0.000	36.988	0.000	0.000	64.696	41.069	-4.564	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18100.000	90.000	179.662	11219.997	37.382	0.000	65.144	-0.000	37.382	0.000	0.000	65.248	41.121	-4.504	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18200.000	90.000	179.662	11219.997	37.778	0.000	65.700	-0.000	37.778	0.000	0.000	65.803	41.173	-4.446	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18300.000	90.000	179.662	11219.997	38.174	0.000	66.259	-0.000	38.174	0.000	0.000	66.361	41.225	-4.389	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18400.000	90.000	179.662	11219.997	38.572	0.000	66.820	-0.000	38.572	0.000	0.000	66.921	41.278	-4.334	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18500.000	90.000	179.662	11219.997	38.972	0.000	67.384	-0.000	38.972	0.000	0.000	67.483	41.332	-4.280	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18600.000	90.000	179.662	11219.997	39.372	0.000	67.950	-0.000	39.372	0.000	0.000	68.048	41.386	-4.228	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18700.000	90.000	179.662	11219.997	39.774	0.000	68.518	-0.000	39.774	0.000	0.000	68.616	41.441	-4.177	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18800.000	90.000	179.662	11219.997	40.176	0.000	69.089	-0.000	40.176	0.000	0.000	69.185	41.497	-4.128	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
18900.000	90.000	179.662	11219.997	40.580	0.000	69.661	-0.000	40.580	0.000	0.000	69.757	41.553	-4.079	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19000.000	90.000	179.662	11219.997	40.985	0.000	70.236	-0.000	40.985	0.000	0.000	70.331	41.609	-4.032	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19100.000	90.000	179.662	11219.997	41.391	0.000	70.814	-0.000	41.391	0.000	0.000	70.908	41.666	-3.986	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19200.000	90.000	179.662	11219.997	41.798	0.000	71.393	-0.000	41.798	0.000	0.000	71.486	41.724	-3.941	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19300.000	90.000	179.662	11219.997	42.206	0.000	71.974	-0.000	42.206	0.000	0.000	72.067	41.782	-3.897	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19400.000	90.000	179.662	11219.997	42.615	0.000	72.558	-0.000	42.615	0.000	0.000	72.649	41.841	-3.855	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19500.000	90.000	179.662	11219.997	43.024	0.000	73.143	-0.000	43.024	0.000	0.000	73.233	41.900	-3.813	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19600.000	90.000	179.662	11219.997	43.435	0.000	73.730	-0.000	43.435	0.000	0.000	73.820	41.960	-3.772	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19700.000	90.000	179.662	11219.997	43.846	0.000	74.319	-0.000	43.846	0.000	0.000	74.408	42.020	-3.732	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

19800.000	90.000	179.662	11219.997	44.259	0.000	74.910	-0.000	44.259	0.000	0.000	74.998	42.081	-3.694	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
19900.000	90.000	179.662	11219.997	44.672	0.000	75.502	-0.000	44.672	0.000	0.000	75.589	42.142	-3.656	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20000.000	90.000	179.662	11219.997	45.086	0.000	76.096	-0.000	45.086	0.000	0.000	76.183	42.204	-3.618	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20100.000	90.000	179.662	11219.997	45.501	0.000	76.692	-0.000	45.501	0.000	0.000	76.778	42.267	-3.582	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20200.000	90.000	179.662	11219.997	45.916	0.000	77.290	-0.000	45.916	0.000	0.000	77.375	42.330	-3.546	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20300.000	90.000	179.662	11219.997	46.332	0.000	77.889	-0.000	46.332	0.000	0.000	77.973	42.393	-3.512	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20400.000	90.000	179.662	11219.997	46.749	0.000	78.490	-0.000	46.749	0.000	0.000	78.573	42.457	-3.477	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20500.000	90.000	179.662	11219.997	47.167	0.000	79.092	-0.000	47.167	0.000	0.000	79.175	42.522	-3.444	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20600.000	90.000	179.662	11219.997	47.585	0.000	79.696	-0.000	47.585	0.000	0.000	79.778	42.587	-3.411	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20700.000	90.000	179.662	11219.997	48.004	0.000	80.301	-0.000	48.004	0.000	0.000	80.382	42.653	-3.380	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20800.000	90.000	179.662	11219.997	48.423	0.000	80.908	-0.000	48.423	0.000	0.000	80.988	42.719	-3.348	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
20900.000	90.000	179.662	11219.997	48.844	0.000	81.516	-0.000	48.844	0.000	0.000	81.596	42.785	-3.318	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21000.000	90.000	179.662	11219.997	49.264	0.000	82.125	-0.000	49.264	0.000	0.000	82.204	42.852	-3.287	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21100.000	90.000	179.662	11219.997	49.686	0.000	82.736	-0.000	49.686	0.000	0.000	82.814	42.920	-3.258	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21200.000	90.000	179.662	11219.997	50.108	0.000	83.348	-0.000	50.108	0.000	0.000	83.426	42.988	-3.229	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21300.000	90.000	179.662	11219.997	50.530	0.000	83.961	-0.000	50.530	0.000	0.000	84.038	43.057	-3.201	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21400.000	90.000	179.662	11219.997	50.953	0.000	84.576	-0.000	50.953	0.000	0.000	84.652	43.126	-3.173	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21500.000	90.000	179.662	11219.997	51.377	0.000	85.191	-0.000	51.377	0.000	0.000	85.267	43.196	-3.146	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21600.000	90.000	179.662	11219.997	51.801	0.000	85.808	-0.000	51.801	0.000	0.000	85.884	43.266	-3.119	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21700.000	90.000	179.662	11219.997	52.226	0.000	86.426	-0.000	52.226	0.000	0.000	86.501	43.337	-3.093	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21800.000	90.000	179.662	11219.997	52.651	0.000	87.046	-0.000	52.651	0.000	0.000	87.120	43.408	-3.067	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
21900.000	90.000	179.662	11219.997	53.076	0.000	87.666	-0.000	53.076	0.000	0.000	87.740	43.479	-3.042	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22000.000	90.000	179.662	11219.997	53.503	0.000	88.288	-0.000	53.503	0.000	0.000	88.361	43.552	-3.017	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22100.000	90.000	179.662	11219.997	53.929	0.000	88.910	-0.000	53.929	0.000	0.000	88.983	43.624	-2.993	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22200.000	90.000	179.662	11219.997	54.356	0.000	89.534	-0.000	54.356	0.000	0.000	89.606	43.697	-2.969	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22300.000	90.000	179.662	11219.997	54.784	0.000	90.159	-0.000	54.784	0.000	0.000	90.230	43.771	-2.945	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22400.000	90.000	179.662	11219.997	55.211	0.000	90.784	-0.000	55.211	0.000	0.000	90.855	43.845	-2.922	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22500.000	90.000	179.662	11219.997	55.640	0.000	91.411	-0.000	55.640	0.000	0.000	91.481	43.919	-2.899	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22600.000	90.000	179.662	11219.997	56.068	0.000	92.039	-0.000	56.068	0.000	0.000	92.108	43.994	-2.877	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22700.000	90.000	179.662	11219.997	56.498	0.000	92.667	-0.000	56.498	0.000	0.000	92.736	44.070	-2.855	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22800.000	90.000	179.662	11219.997	56.927	0.000	93.297	-0.000	56.927	0.000	0.000	93.365	44.146	-2.834	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
22900.000	90.000	179.662	11219.997	57.357	0.000	93.927	-0.000	57.357	0.000	0.000	93.995	44.222	-2.812	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23000.000	90.000	179.662	11219.997	57.787	0.000	94.558	-0.000	57.787	0.000	0.000	94.626	44.299	-2.792	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23100.000	90.000	179.662	11219.997	58.218	0.000	95.191	-0.000	58.218	0.000	0.000	95.258	44.376	-2.771	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

23200.000	90.000	179.662	11219.997	58.649	0.000	95.824	-0.000	58.649	0.000	0.000	95.890	44.454	-2.751	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23300.000	90.000	179.662	11219.997	59.080	0.000	96.457	-0.000	59.080	0.000	0.000	96.524	44.533	-2.731	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23400.000	90.000	179.662	11219.997	59.512	0.000	97.092	-0.000	59.512	0.000	0.000	97.158	44.611	-2.712	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23500.000	90.000	179.662	11219.997	59.944	0.000	97.728	-0.000	59.944	0.000	0.000	97.793	44.690	-2.693	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23600.000	90.000	179.662	11219.997	60.376	0.000	98.364	-0.000	60.376	0.000	0.000	98.429	44.770	-2.674	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23700.000	90.000	179.662	11219.997	60.809	0.000	99.001	-0.000	60.809	0.000	0.000	99.065	44.850	-2.655	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23800.000	90.000	179.662	11219.997	61.242	0.000	99.639	-0.000	61.242	0.000	0.000	99.703	44.931	-2.637	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
23900.000	90.000	179.662	11219.997	61.675	0.000	100.277	-0.000	61.675	0.000	0.000	100.341	45.011	-2.619	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24009.613	90.000	179.662	11219.997	62.151	0.000	100.979	-0.000	62.151	0.000	0.000	101.042	45.101	-2.600	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23
24099.663	90.000	179.662	11219.997	62.541	0.000	101.555	-0.000	62.541	0.000	0.000	101.617	45.174	-2.584	MWD+IFR1+SAG+MS+GS_XTO_PLUDTD_23

Plan Targets Poker Lake Unit 23 DTD South 104H

Target Name	Measured Depth (ft)	Grid Northing (ft)	Grid Easting (ft)	TVD MSL (ft)	Target Shape
FTP 4	11497.26	440522.80	647299.20	7740.00	RECTANGLE
SHL 4	11857.42	441176.71	646785.07	7684.69	RECTANGLE
LTP 4	24009.68	427543.80	647375.70	7740.00	RECTANGLE
BHL 4	24099.65	427453.80	647376.80	7740.00	RECTANGLE

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO
LEASE NO.:	**NMNM030452**
LOCATION:	Sec. 14, T.24 S, R 30 E
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Poker Lake Unit 23 DTD 140H
SURFACE HOLE FOOTAGE:	556'/S & 310'/W
BOTTOM HOLE FOOTAGE:	2627'/N & 839'/W

COA

H_2S	○ No		○ Yes	
Potash / WIPP	○ None	◉ Secretary	○ R-111-Q	☑ Open Annulus Choose an option (including blank option.) ☐ WIPP
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 ☐ Four-String	☑ Casing Clearance ☑ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☑ Break Testing

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 **13-3/8** 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.

2. The minimum required fill of cement behind the **9-5/8** inch 1st Intermediate casing is:
   - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or potash.

3. The minimum required fill of cement behind the **7-5/8** inch 2nd 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 6564'.**

- **Second stage:** Operator will perform bradenhead squeeze and top-out. Cement should tie-back **500 feet** into the previous casing. Operator shall provide method of verification.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, or potash.

Operator has proposed to pump down Intermediate 1 X Intermediate 2 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 Intermediate 1 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.

- **A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing x Production Casing annulus un-cemented and monitored inside the Intermediate String.** Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within **180 days.**

Operator has proposed to pump down **intermediate x production** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the production casing to surface 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 during second stage bradenhead when running

Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.**

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
   - Cement should tie-back **100 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.

   a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
   b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
   c. Manufacturer representative shall install the test plug for the initial BOP test.
   d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
   e. Whenever any seal subject to test pressure is broken, all the tests in 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 11/19/2024
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:

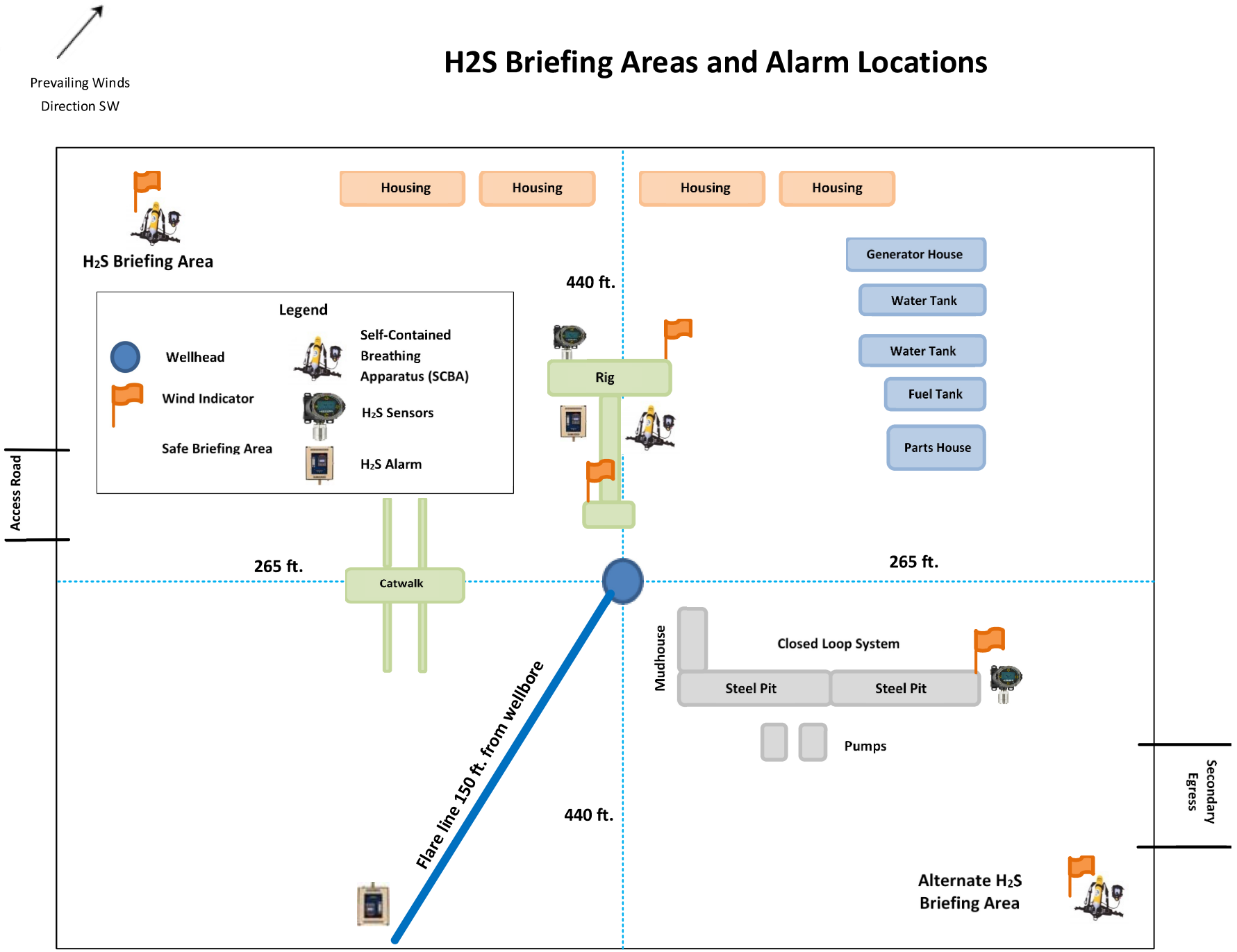
For Lea County:

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

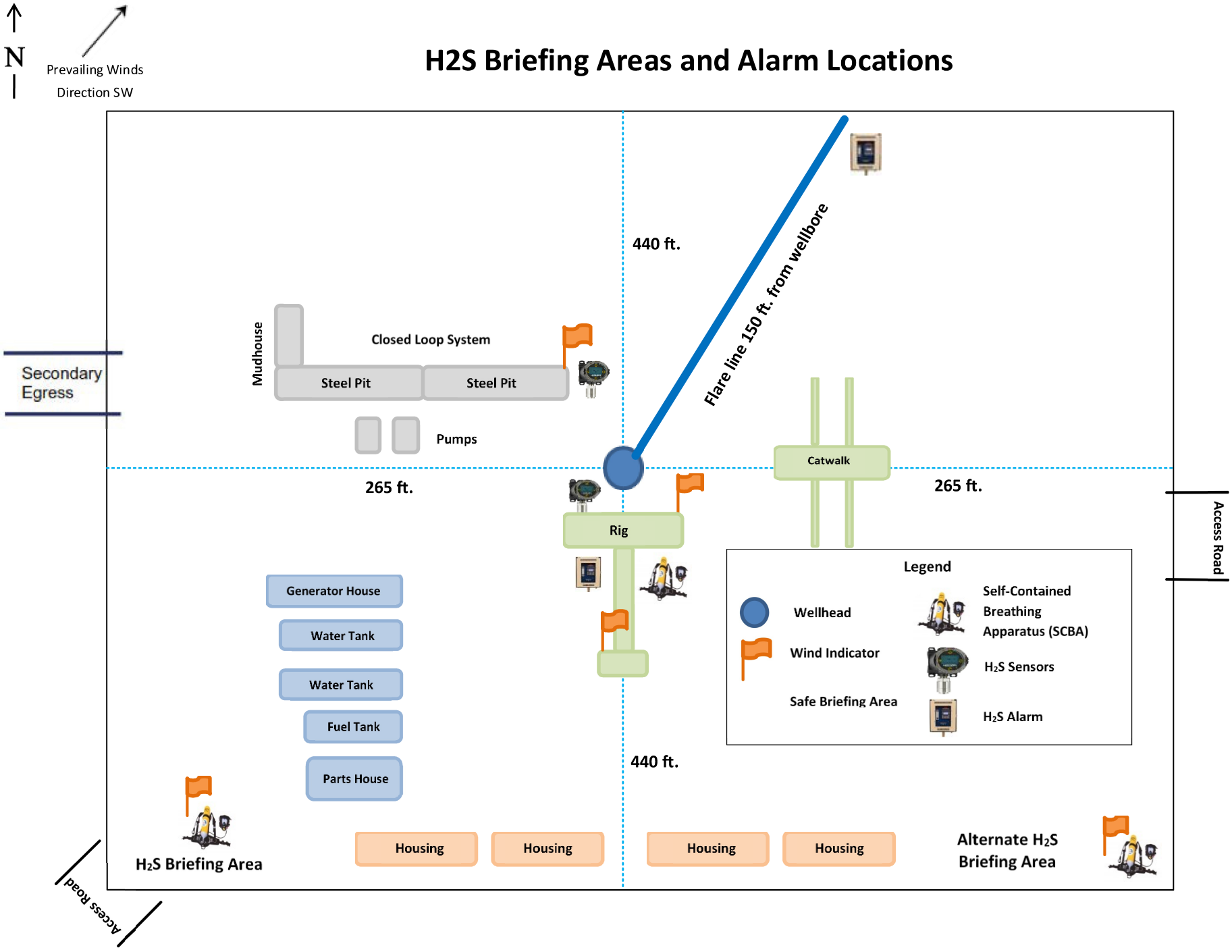
For Eddy County:

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

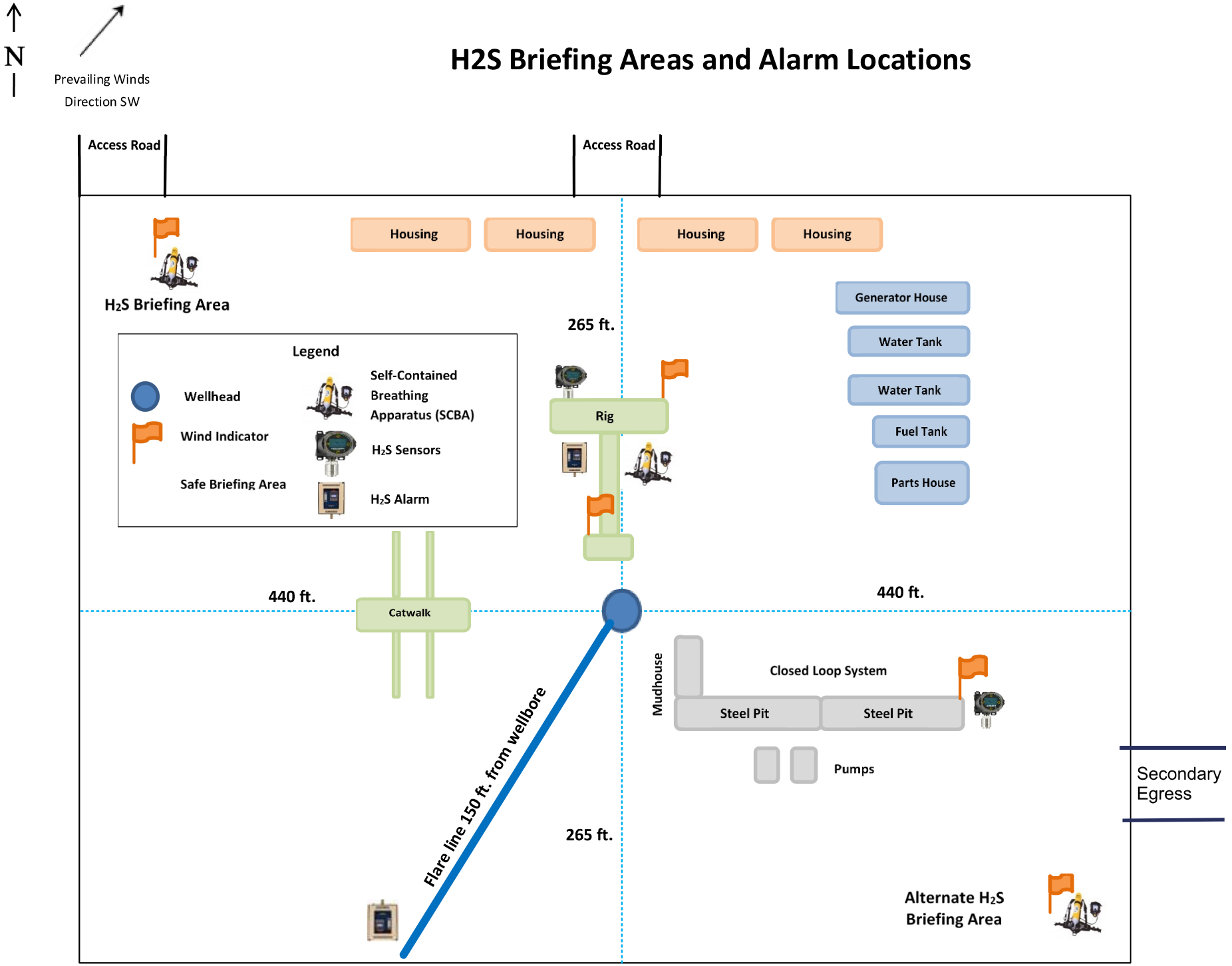
H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



H2S Briefing Areas and Alarm Locations



Operator Name: XTO PERMIAN OPERATING LLC
Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 104H

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

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:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 104H

Section 9 - Well Site

Well Site Layout Diagram:

PLU_23_DTD_104H_Well_20240411181057.pdf

PLU_23_DTD_104H_RL_20241010072812.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: A

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, 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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 23 DTD **Well Number:** 104H

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 SimonaBippus 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 SimonaBippus 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 SimonaBippus 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 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 SimonaBippus 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 other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 409045
	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.	12/5/2024
tsebastian	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/5/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/24/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/24/2024
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.	12/24/2024
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.	12/24/2024